# REMEDIAL INVESTIGATION REPORT FOR THE FORMER FARRINGTON STREET GAS WORKS SITE

# QUEENS, NEW YORK

*Prepared For:*




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## Certification

*"I, Shane Blauvelt (of Parsons Main of New York, Inc.), certify that I am currently a New York State registered professional engineer and that this Remedial Investigation Report was prepared in accordance with all applicable statutes and regulations and in substantial conformance with the DER Technical Guidance for Site Investigation and Remediation (DER 10) and that all activities were performed in full accordance with the DER-approved work plan and any DER-approved modifications."*




Engineer's Seal

5/12/17

Date



PARSONS

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# SECTION 1

# INTRODUCTION

Consolidated Edison Company of New York, Inc. (Con Edison) has entered into a Voluntary Cleanup Agreement with the New York State Department of Environmental Conservation (NYSDEC) to investigate, and if necessary, remediate potential impacts at former manufactured gas plant (MGP) properties. One of these facilities is the former Farrington Street Gas Works Site.

This Remedial Investigation (RI) Report presents the results of investigation activities conducted by Parsons on behalf of Con Edison for the former Farrington Street Gas Works Site. The goal of the investigation activities was to determine the presence and extent of impacts from former MGP operations. The investigation activities were implemented in accordance with the terms of the Voluntary Cleanup Agreement (VCA) between Con Edison and the NYSDEC.

## 1.1 SITE OVERVIEW

The former Farrington Street Gas Works (Site) is located at 31-06 to 31-24 and 31-37 to 31-53 Farrington Street in Queens, New York (Figure 1). For the purposes of describing the Site, it has been divided into Parcels 1, 2, and 3 (Figure 2). The Site consists of approximately 6.17 acres spanning several city blocks, which contains several commercial properties, identified as Block 4406 Lots 9, 28, 29, 30, 32, and 99, Block 4407 Lot 1, Block 4408 Lot 1, and Block 4367 Lot 1. The Site is bordered to the north by the Whitestone Expressway Service Road, to the east by Farrington and Linden Streets, to the south by 32nd Avenue (formerly Myrtle Avenue), to the west by Downing Street. The Site is located approximately 2,000 feet (ft) northeast of Flushing Creek, 1,200 ft southwest of Mill Creek, and 4,000 ft east of Flushing Bay. According to the New York City Department of City Planning, the Site and northwestern, western, southwestern, and southern abutting properties are zoned as M2-1; medium manufacturing districts (medium performance), and the abutting properties east of Farrington Street are zoned as M1-1; light manufacturing districts (high performance) (ENSR, 2003).

In Parcel 1, the Site presently contains a Stop and Shop grocery and pharmacy, various stores, and a paved parking area. These properties were built in 1972 and are presently operated by Feinrose Associates (ENSR, 2003). Con Edison currently owns the portions of the Site located in Parcels 2 and 3. Parcel 2 consists of a mixed paved and gravel lot that is utilized as an equipment storage, trailer storage, and material lay down area. Parcel 3 was previously investigated and an Interim Remedial Investigation (IRM) was implemented in 2002 and 2003 as further discussed in Section 1.5. Current Site operations in Parcel 3 include a Con Edison truck flush facility.

## 1.2 ADJOINING PROPERTY DESCRIPTION

The Site is bordered to the north by 31st Road (formerly Bayside Avenue), beyond which is a strip mall (built in 1974) containing several commercial properties, associated parking areas and Whitestone Bridge Boulevard. The intersection of 31st Road and Farrington Street abuts the Site to the northeast, beyond which is an office building and parking area. A Quick Lube and car

wash, two residences, a warehouse and the intersection of 31st Drive and Farrington Street abuts the Site to the east. Commercial and residential properties are situated southeast of the Site beyond the intersections of Farrington Street and 32nd Avenue and Linden Street and 32nd Avenue. 32nd Avenue borders the subject property to the south, beyond which are commercial properties such as a deli, antique shop, auto service, and several unidentified businesses. A gravel vehicle and equipment storage lot owned by Con Edison, a collision corporation (built 1979), a motor vehicle repair shop (built in 1969) and a lot owned by the NYSDEC abuts the Site to the southwest and west. There is a large paved parking area and two strip malls (built 1966 and 1977) to the northwest, beyond 31st Drive, containing a Wendy's, laundromat, restaurants, a dentist office, a bedding service, and other commercial properties (ENSR, 2003).

## 1.3 SITE HISTORY

Historical research was previously conducted, and documented in the *Site History Research Report* (ENSR, 2003). Based on this report, the Site was owned and/or operated as an MGP by several different power companies between 1887 and the late 1940s. Prior to the initiation of manufactured gas operations in 1887, the original Site boundaries included a smaller tract of land (the southwestern portion of Parcel 2), which was originally subdivided into smaller private properties. Flushing Gas Light Company acquired portions of the original Site property between 1859 and 1901 and operated the MGP until 1889. Between 1901 and 1905, Newton and Flushing Gas Company, a subsidiary of the New York and Queens Gas Co, operated the Site and MGP, in addition to expanding the property boundaries into the northwestern portion of Parcel 2 in 1901. In 1905, The New York and Queens Company acquired the portion of the property previously owned by Flushing Gas Light Company and Newton and Flushing Gas Light Company. Between 1909 and 1921, New York and Queens Gas Company acquired and expanded the MGP into the eastern portions of Parcels 1 and 2. Con Edison purchased Parcel 3 from New York and Queens Gas Company on February 26, 1924. Between 1924 and 1976, a three million cubic foot waterless gasholder and related equipment and structures occupied Parcel 3. After the MGP was retired in 1944, the holder on Parcel 3 was used for storage of gas that was produced at other Con Edison plants or purchased from other utilities. New York and Queens Gas Company merged with Con Edison on June 1, 1936, at which time Con Edison assumed operation of the MGP, then located in present-day Parcels 1, 2, and 3 (ENSR, 2003). Figure 2 depicts the approximate locations of the former historic structures at the Site.

## 1.4 TOPOGRAPHY, REGIONAL GEOLOGY, AND HYDROGEOLOGY

The Site is located in the northern portion of Queens County, which is characterized by low rolling hills overlooking and extending into the East River between various salt-water bays, of which Flushing Bay is the largest. The overall elevation of the Site and the surrounding properties is approximately 10 to 14 ft above mean sea level (amsl). A relatively narrow ridge, ranging in elevation from 160 to 260 ft amsl, trends approximately east-northeast in the central part of Queens County. This ridge, situated approximately 3,000 ft southeast of the Site, is part of the Harbor Hill Terminal Moraine, which marks the furthest advance of the Wisconsin Glaciation in this area. A plain slopes gently southward from the ridge to the Atlantic Ocean. Flushing Meadow, a large flat-bottomed valley, extends northward from this ridge to Flushing Bay on the East River (ENSR, 2003).

The Site lies in a relatively flat area approximately 2,000 ft northeast of Flushing Creek, 1,200 ft southwest of Mill Creek and 4,000 ft east of Flushing Bay. According to the NYSDEC, the surface water classification for Flushing Creek is Class I, described as saline surface waters which are best suited for secondary contact recreation and fishing, and are suitable for propagation and survival. Mill Creek is classified as Class C, which is described as saline surface waters, which are best used for fishing, and can be suitable for fish survival. A substantial portion of the precipitation runs off paved surfaces to sewers, and is discharged to the adjacent water bodies through the storm systems located in the adjacent roadways. Some precipitation infiltrates the ground surface in unpaved areas.

Based on information provided in the *Site History Research Report* (ENSR, 2003), a layer of low permeability glacial till material is likely to be present in the area. The bedrock underlying the Site and surrounding properties consists of undifferentiated schists and gneisses. The bedrock is overlain uncomformably by Pleistocene glacial deposits and scattered postglacial material. The glacial deposits include ground moraine deposits, which is an unsorted and unstratified mixture of clay, sand, gravel, and boulders that were accumulated at the front of a continental glacier during a period of melting, specifically, the glacial period of the Wisconsin Age.

The Site and abutting properties are underlain by the Upper Glacial Aquifer in the Brooklyn/ Queens Aquifer System. The Upper Glacial Aquifer in this location consists of glacial till. The unconsolidated sediments and glacial till aquifer underlying the Site and rests directly upon the bedrock surface. According to the NYSDEC, groundwater classification for the Flushing vicinity of Queens County is classified as Class GA for fresh groundwater. Groundwater in the vicinity of the subject property is not used for drinking water purposes. Residents of the area are connected to the New York City public water supply system (ENSR, 2003).

## 1.5 PREVIOUS INVESTIGATIONS

In 2001, Con Edison conducted a Preliminary Site Assessment (PSA) of Parcel 3 where they intended to construct a new central collection facility (CCF) building and various below ground settlement basins and collection tanks to upgrade the existing truck flush facility. In anticipation of the construction activities associated with the flush truck facility upgrade project, a PSA was conducted to characterize and identify potential subsurface conditions in Parcel 3 that could pose a risk to the health and safety of Site workers and the public during those activities (Parsons, 2001). The PSA identified former gasholder-related structures (tar pumps, skimmer pumps, piping and tanks) and several areas within and outside of the proposed CCF building footprint that contained MGP-impacted soils.

To address the former MGP structures and impacted soils prior to construction of the new building, an Interim Remedial Measures (IRM) Work Plan (Parsons, 2002) was developed and approved by the NYSDEC. The IRM was subsequently conducted between November 2002 and March 2003 in accordance with the work plan. IRM activities are documented in the IRM Report (Parsons, 2004) and are summarized below;

- Approximately 6,355 tons of impacted soil was excavated at depths ranging from 4 to 18 ft below ground surface (bgs).
- The entire former gasholder concrete slab, foundation, and footers were removed.

- Several former belowground structures along the perimeter of the former gasholder (tar and skimmer pumps/tanks) were removed.
- Belowground piping associated with the former gasholder that was encountered during the IRM were removed or abandoned in place.
- Two 550-gallon former gas-oil underground storage tanks located in the northeast corner of Parcel 3 were removed.
- Approximately 1,435 tons of fill material were imported for backfill and Site restoration.

The IRM also included implementation of a post-IRM monitoring plan, which involved installing monitoring wells in Parcel 3. Between 2004 and 2014, sample events took place semi-annually. In 2015, the NYSDEC approved a reduction of sample frequency from twice a year to once a year. The following summarizes results from the monitoring events conducted between 2004 and 2014:

- Potential MGP-related volatile organic compounds (VOCs) and semivolatile organic compounds (SVOCs) have been detected above the Ambient Water Quality Standards and Guidance Values (AWQSGVs) in monitoring wells at the Site. Exceedances of Class GA Groundwater Standards/Guidance are primarily concentrated in the immediate vicinity of the former gasholder location.
- VOCs have been consistently detected in MW-6, which is located near the upgradient property boundary. The detection of these VOCs in the upgradient portion of the Site indicates that there may be an upgradient or non-MGP-related source of these constituents. The detection of MTBE and CVOCs, which are not typical MGP-related compounds, in MW-6 provides further indication of an off-property or non-MGP related source of VOCs.
- A year to year comparison of results between 2004 and 2014, considering seasonal variability, indicate that groundwater flow (from northwest to southeast) and groundwater quality across the Site is generally consistent.

Based on observations and results through 2014, four additional years of annual sampling was recommended in March 2015 to further monitor and evaluate groundwater quality at the Site (Parsons, 2015).

Based on historical operations, a Site Characterization (SC) of the former Farrington Street Gas Works Site was conducted in April and July 2009. The findings of the SC were documented in the *Site Characterization Report for the Former Farrington Street Gas Works Site* (Parsons, 2010a).

The SC was conducted in and around Parcel 2 between April and July 2009. SC activities were conducted in accordance with the NYSDEC and New York State Department of Health (NYSDOH)-approved *Site Characterization Work Plan* (Parsons, 2008). The scope of field investigation activities included the installation of test pits, soil borings, and monitoring wells. A total of 11 investigation test pits were advanced (TP-10, TP 11, TP-12A, TP-12B, TP-13S, TP-13N, TP-14E, TP-14W, TP-14A, TP-14B, and TP-15) to determine whether MGP structure remnants and/or impacted subsurface materials were present. Test pits were excavated to depths ranging from 2.5 to 13.5 ft bgs using a backhoe and/or hand excavation methods. A total of 18

soil borings were advanced to depths ranging from 7 to 38 ft bgs during the SC activities. Nine monitoring wells (MW-13 through MW-21) were installed during the SC activities. The monitoring well borings were advanced to depths ranging from 22 to 30 ft bgs using 4.25-inch outside diameter hollow stem augers and a track-mounted or truck mounted drill rig.

The test pitting and soil boring activities conducted during the SC confirmed that below-grade MGP structure remnants are present at the Site. A total of 69 soil samples (including duplicates) were collected from the test pits, soil borings, and monitoring well borings completed as part of the Site Characterization. VOCs at concentrations exceeding the Unrestricted Soil Cleanup Objectives USCOs were detected in 18 of 69 subsurface soil samples. All of the exceedances were for BTEX compounds and acetone. SVOCs at concentrations exceeding the USCOs were detected in 22 of the 69 soil samples analyzed for SVOCs. Analytical results for subsurface soil samples indicated the presence of eight metals at concentrations that exceeded their respective USCOs. Non-aqueous phase liquid (NAPL) was encountered at several locations during the Site Characterization. Hydrocarbon fingerprint analysis results indicate the NAPL is similar in nature to tars formed from manufactured gas plants utilizing carbureted water gas processes. Carbureted water gas was produced at the Site from 1899 until the late 1940's.

As part of the Site Characterization, groundwater samples were collected from the nine new monitoring wells (MW-13 through MW-21) in June 2009. Groundwater was encountered beneath the Site at elevations ranging from -1.32 to 1.00 foot amsl, approximately 11 to 15 ft bgs as gauged on June 17, 2009. The groundwater contours based on the June 2009 gauging event indicate a generally southeasterly groundwater flow. Nine (9) VOCs, 10 SVOCs and nine metals were detected in groundwater samples at concentrations exceeding the Class GA Groundwater Quality Standards (GWQS).

Due to the VOC and SVOC concentrations detected in both soil and groundwater and the presence of NAPL in the vicinity of and beneath the Site, further investigation was warranted. Based on the findings of the SC activities, a Remedial Investigation (RI) Work Plan (Parsons 2011) was prepared and approved by the NYSDEC.

# SECTION 2

# REMEDIAL INVESTIGATION ACTIVITIES

The following sections describe the field investigation activities conducted at the Site and surrounding properties as part of the Remedial Investigation (RI). Field investigation activities were conducted in a phased approach between September 2011 and June 2015 in accordance with procedures in the NYSDEC and NYSDOH-approved *Revised Remedial Investigation Work Plan* (Parsons, 2010b), and *Supplemental Remedial Investigation Work Plan* (SRIWP) (Parsons, 2012). The phased approach to the Remedial Investigation was implemented in four phases based on delineation requirements and access agreement negotiations. The first phase of the subject RI was implemented between August and November 2011 and included areas within Parcel 2 and adjacent sidewalks. The second phase of the RI was implemented during February 2012 and included a limited scope adjacent to the Stop and Shop building on Parcel 1. The third phase of the RI was implemented between December 2013 and March 2014 and included areas within the parking lot north of Parcel 1 as well as 31st Road and Ulmer Street. The fourth phase of the RI was implemented between November 2014 and June 2015 and included areas between Ulmer and Downing Streets as well as north of the Whitestone Expressway.

The scope of the RI field investigation activities included the installation of soil borings and monitoring wells. In addition, soil, soil gas, groundwater, and free product samples were collected for laboratory analysis. During all ground intrusive activities, a Community Air Monitoring Plan was implemented in accordance with the approved Remedial Investigation Work Plan. Sampling locations are shown on Figure 3. Table 1 provides a summary of the samples and analyses.

## 2.1 SITE INSPECTION AND PRELIMINARY INVESTIGATION ACTIVITIES

Prior to mobilization and field implementation for each phase of the RI, Site inspections were conducted to refine the locations of the proposed investigation points and as-built diagrams were reviewed for access, feasibility, occupant health and safety, and worker health and safety. The proposed scopes of work were reviewed with representatives of Con Edison. Proposed locations and proposed methods were altered in the field, as necessary, based on-site conditions, access, utilities, and safety. Changes to soil boring/sampling locations were made only after consultation with the NYSDEC.

## 2.2 UTILITY CLEARANCE

To verify the absence of subsurface utilities at each of the drilling locations, utility clearance key-holes were excavated. Utility clearance key-hole excavation entailed cutting and removing surface material and hand excavating the underlying materials. The typical utility clearance key-hole excavation consisted of saw-cutting the surface materials, jack-hammering the concrete, and hand excavating with the aid of a vacuum truck, hand auger and or other digging tools to depths ranging from 5 to 10 ft bgs. During hand clearance excavation activities, soil samples were screened for VOCs using an organic vapor meter equipped with a photoionization detector (PID), their physical characteristics (e.g., soil type, grain size, color, etc.) were described, and any

evidence of physical impacts (staining, odor, sheen, free product, etc.) were recorded on the boring/well logs provided in Appendix A.

## 2.3 SOIL BORING INSTALLATION

A total of 65 soil borings were advanced to depths ranging from 8 to 55 ft bgs during the RI activities to further delineate the nature and extent of MGP impacts in subsurface soils. As described within the Section 2, soil borings were advanced during multiple phases/mobilizations. Soil borings were advanced by ADT under the supervision of a Parsons geologist and the soil boring locations are shown on Figure 3. The corresponding boring logs are presented in Appendix A. Based on Site conditions and observations during implementation of RI activities at the Site, the following additions/modifications to the work plan were made with approval from the NYSDEC:

- Numerous step-out soil borings were added to the scope of work to delineate the horizontal extents of impacts during the RI.
- SB-41 was relocated northwest due to the inability to hand clear to the depth required by utility clearance protocols (minimum depth of 5 ft bgs) in the originally proposed location. Multiple refusals on concrete (suspected holder) were encountered during attempted installation of the utility clearance key hole at ~1.5 ft bgs.
- Contingency soil boring locations CSB-48D and SB-55D were added to the scope of work due to the presence of highly NAPL-saturated soils observed above the confining unit during the advancement of CSB-48 and SB-55. Casing methods were used to advance CSB-48D and SB-55D through the confining unit to assess if NAPL had migrated through the confining layer.
- Monitoring well location MW-29 was moved approximately 30 ft northwest due to the presence of subsurface and overhead utilities in the originally proposed location.
- Monitoring well MW-30 was shifted west due to presence of subsurface utilities in the sidewalk area where this well was originally proposed.

Soil samples were collected on a continuous basis utilizing a track mounted sonic drill rig with 5-foot long, 2-inch diameter Macro-Cores or a hollow stem auger drill rig with 2-foot long, 2-inch diameter, split-spoon samplers. Each sample was screened for the presence of VOCs using a PID and logged. Physical characteristics of each sample were recorded (e.g., soil type, color, texture, moisture content, etc.), along with physical evidence of any impacted material (e.g., oil-like or tar-like NAPL, staining, sheens, odors, etc).

Soil samples were submitted to Chemtech Consulting Group, Inc. of Mountainside, NJ (Chemtech) (a NYSDOH, ELAP certified laboratory) and analyzed for TCL VOCs, TCL SVOCs, cyanide, and target analyte list (TAL) metals. A summary of the soil samples collected and analyses performed is provided in Table 1. In general, the following soil samples from the borings were selected for laboratory analysis:

- One sample was collected from the zone with the highest PID readings. If elevated PID readings were not observed, a sample was collected from the upper portion of the boring or directly above the water table (if present).

- If impacts were observed, an additional sample was collected below the impacted zone (if possible) or near the base of the boring to identify the vertical extent of apparent impacts at that location.

Upon completion, the soil borings were grouted with cement-bentonite grout using a tremie pipe. Non-disposable drilling and sampling equipment was decontaminated between boring locations. Drill cuttings and decontamination water was containerized in 55-gallon steel drums and handled as described in Section 2.8.

## 2.4 MONITORING WELL INSTALLATION AND DEVELOPMENT

Twelve monitoring wells (MW-22, MW-25, MW-27, MW-28, MW-30, MW-41, CMW-36, CMW-37, CMW-38, CMW-39, CMW-40, and MW-CSB-60) were installed during the RI activities to further delineate the nature and extent of MGP impacts in groundwater. As described in the Section 2, monitoring wells were installed during various phases and mobilizations. Monitoring wells were installed by ADT under the supervision of a Parsons geologist. Depending on observed impacts and refusals, monitoring wells were constructed at depths ranging from 15 to 48 ft bgs. Monitoring well locations are shown on Figure 3 and the corresponding boring/monitoring well logs are presented in Appendix A. Based on Site conditions and observations made during implementation of the RI activities, the following additions/modifications were made to the work plan:

- Some monitoring wells were not installed at their original locations due to the presence of NAPL (e.g., MW-23, MW-24, MW-26, MW-29). Step-out monitoring well locations were added to the scope of work when this occurred.
- One soil boring was converted to monitoring well to assess potential groundwater impacts and groundwater flow direction (i.e., MW-CSB-60).

The monitoring wells were constructed with 2-inch ID, threaded, flush-joint, PVC casing and 0.02-inch slot screens. The annular space around each well screen was backfilled with a No. 2 sand filter pack extending from the bottom of the well to at least 1.5 ft above the top of the screen. The annular space around the well riser was sealed with at least one foot of hydrated bentonite pellets on top of the sand pack. The remainder of the boring was backfilled with cement-bentonite grout to approximately one foot below grade. Each of the monitoring wells was finished with a locking, flush-mount box set in concrete.

Monitoring well development was conducted a minimum of 24 hours after installation. Each new monitoring well was developed until reasonably free of sediment and until turbidity measurements were less than 50 nephelometric turbidity units (NTUs), if possible, and/or until the measurements of water quality parameters [i.e., pH, temperature, and conductivity] stabilized. The water quality parameters were measured and recorded approximately every 5 minutes until stabilization was achieved. Stabilization is considered to be achieved when three successive measurements of the water quality parameters were within 10%.

Non-disposable drilling equipment was decontaminated between well locations. Monitoring well drill cuttings, well development water, and decontamination water were containerized in new 55-gallon steel drums and handled as described in Section 2.8.

## 2.5 SOIL GAS INVESTIGATION ACTIVITIES

To evaluate potential presence of VOCs in soil gas at the Site and adjacent parcels, soil gas samples were collected from five locations adjacent to the Stop and Shop building on 31st Drive (SG-1 to SG-5), four (4) locations adjacent to commercial building located west of Parcel 2 (SG-6 to SG-9) and two (locations down-gradient of Parcel 2 (SG-10 and SG-11). The soil gas sampling locations are shown on Figure 3. Soil gas samples were collected in accordance with the NYSDOH Final Guidance for Evaluating Soil Vapor Intrusion (NYSDOH, 2006).

Prior to soil gas sampling, groundwater levels were obtained from all accessible monitoring wells at the Site to determine the approximate depth to groundwater at each soil gas sampling location. Groundwater appeared to be between 5 and 11 ft bgs in the vicinity of soil gas locations. Therefore, soil gas samples were collected from depths ranging approximately 3 to 8 ft bgs at these locations.

Soil gas samples were collected using a probe/sampling assembly comprised of stainless steel tubing fitted with an expendable steel probe point. Prior to soil gas sampling, the sampling probe was driven via a direct push method to the desired sampling depth. The expendable point was released into the soil and the sampler was withdrawn approximately 0.5 ft to create a void space. The space between the probing rod and the surrounding soil column was filled with granular bentonite, which was then hydrated to form an airtight seal to prevent aboveground ambient air from influencing the quality of a subsurface soil gas sample. A minimum of one implant volume (the volume of the sample probe and tube) was purged prior to sample collection.

A tracer gas (helium) was utilized in the field to verify the integrity and effectiveness of the hydrated-bentonite seal prior to sample collection at select locations. An enclosure (inverted plastic pail) was placed on the concrete slab over the location where the probe intersected the ground and the atmosphere within the enclosure was enriched with helium gas. After the atmosphere within the enclosure had been enriched, a vapor sample from the probe was collected and screened in the field with a helium detector to ensure the tracer gas was absent (reading of 0 parts per million (ppm)). The soil gas samples were collected into laboratory-prepared 6-liter Summa canisters equipped with calibrated flow regulators and vacuum gauge. The vacuum gauge was used to measure the initial and final vacuum in the canisters. Flow rates for both purging and sample collection did not exceed 0.2 liters per minute. All soil gas samples were submitted to Air Toxics LTD of Folsom, CA for laboratory analysis of VOCs using modified EPA Method TO-15. A summary of the soil gas samples collected and analyses performed is provided in Table 1. Soil gas laboratory results are summarized on Table 5.

## 2.6 SURVEYING

At the conclusion of drilling activities, Chazen, a licensed New York state land surveyor mobilized to the Site and surveyed the horizontal and vertical location of each new soil boring, monitoring well, and soil gas location. Other pertinent planimetric features of the Site, such as manholes, building walls, etc. were also surveyed. Two elevation measurements were taken at each well location to identify the top of the PVC casing and the grade elevation, respectively. The survey elevations were measured to an accuracy of 0.01 ft above the National Geodetic Vertical Datum of 1988 (NGVD 1988). Horizontal coordinates were surveyed relative to the New York State Plane North American Datum of 1983 (NAD83).

## 2.7 GROUNDWATER SAMPLING

In November 2011, groundwater samples were collected from the nine new monitoring wells (MW-25, MW-27, MW-28, MW-30, CMW-36, CMW-37, CMW-38, CMW-39, and CMW-40) and from existing monitoring wells on Parcel 1 and 2 (MW-13, and MW-15 through MW-21). Monitoring well MW-14 was damaged and could not be sampled. In June 2015, groundwater samples were collected from the new monitoring wells (MW-41 and MW-CSB-60) as well as from thirteen existing wells (MW-13, MW-16, MW-17, MW-20, MW-21, MW-25, MW-27, MW-28, MW-30, CMW-36, CMW-37, and CMW-40). Monitoring wells MW-14, MW-15, MW-18, MW-19, MW-22, CMW-38, and CMW-39 were not sampled during this event due to the wells being damaged, inaccessible (e.g., covered with debris), or containing NAPL. Prior to each sampling event (i.e., 2011 and 2015), the depths to groundwater, top of NAPL (if any) and bottom of well were measured relative to the top of well casing using an electronic oil/water interface probe accurate to 0.01 foot. Existing monitoring wells at Parcel 3 were also included in the site-wide gauging events. Tables 2A and 2B provide a summary of the groundwater level measurements and elevations during the 2011 and 2015 gauging events respectively.

Groundwater sampling was conducted in accordance with the January 19, 2010 *USEPA Region 1 Low Stress (Low Flow) Purging and Sampling Procedure for the Collection of Groundwater Samples from Monitoring Wells*. Prior to purging and immediately after removing the locking well cap, the concentration of total VOCs concentrations in the headspace air of each well was measured using a PID. Each well was purged using a submersible pump and low-flow purging techniques with dedicated tubing until stabilization of water quality parameters (including temperature, conductivity, pH, dissolved oxygen, ORP, and turbidity was achieved, and thus allow for the collection of a representative groundwater sample.

Water quality parameter measurements and observations were recorded on groundwater sampling field forms, which are provided in Appendix B. Groundwater samples were submitted to Chemtech Laboratories for analysis of TCL VOCs, TCL SVOCs, TAL Metals and total cyanide. Non-dedicated sampling equipment (e.g., oil/water interface probe, submersible pump) was decontaminated between wells. Water generated during well purging and equipment decontamination was placed in 55-gallon drums and handled as described in Section 2.8.

## 2.8 MANAGEMENT OF INVESTIGATION-DERIVED WASTE

Investigation-derived waste (IDW), which included decontamination wash and rinse water, soil cuttings, purge water, debris, and used personal protective equipment, was containerized in Department of Transportation (DOT)-approved 55-gallon drums. The drums were sealed at the end of each work day and labeled with the date, the well or boring number(s), and the type of waste (e.g., drill cuttings, purge water). Representative waste characterization samples of the IDW were collected and the waste was transported for disposal by Clean Earth of North Jersey, Inc. of Kearny, New Jersey, at an off-site Con Edison-approved location in accordance with applicable local, state, and federal regulations.

## 2.9 DATA VALIDATION AND REPORTING

Data validation was performed in accordance with the USEPA Region II standard operating procedures (SOPs) for organic and inorganic data review which were in effect at the time of data

validation (USEPA 2006, 2008a, 2008b, 2012a, 2012b, 2012c, 2013a, 2013b). These validation guidelines are regional modifications to the National Functional Guidelines for organic and inorganic data review (USEPA, 1999, 2004, 2013c, 2013d). Validation included the following:

- Verification of 100% of all quality control (QC) sample results (both qualitative and quantitative);
- Verification of the identification of 100% of all sample results (both positive hits and non-detects);
- Recalculation of 10% of all investigative sample results; and
- Preparation of a Data Usability Summary Report (DUSR).

The quality of the data has been assessed and is documented in the DUSR provided in Appendix E. In summary, the results of the data usability assessment show that the collected analytical data for soil, groundwater and soil gas are valid for the intended purposes of the RI.

# SECTION 3

# REMEDIAL INVESTIGATION RESULTS

This section presents the results of the RI. The goal of the RI was to determine the extent of impacts related to former MGP operations identified during the previous SC Study. Field observations are summarized below and followed by a review of the analytical data for the soil, groundwater, and soil gas samples.

## 3.1 SITE GEOLOGY

The geology encountered in the soil borings during the RI is summarized in the logs provided in Appendix A, and are interpreted in cross sections presented on Figure 4. The logs show that the upper 5 ft (CMW-38) to 17 ft (CSB-68) is characterized as urban fill. Urban fill material generally consists of sand, gravel and silt with various debris including cobbles, cement, brick, metal, wood fragments, slag, etc. Natural deposits of fine to coarse-grained sand with some silt were encountered beneath the fill over a majority of the site. Peat and/or clay was present below the fill materials, primarily in the parking lot north of Parcel 1. Based on the scope of this RI, borings were not intended to be advanced to bedrock. Bedrock was not encountered in any of the borings advanced during the RI. Therefore analysis of the range of natural deposits is limited to the depths at which borings were terminated during the RI. Natural deposits were encountered from approximately 14 ft (CMW-36) to 50 ft (MW-25) in thickness throughout Parcel 2 and its adjoining sidewalks.

Three separate lithologies were present below urban fill in a majority of the borings advanced throughout the parking lot north of Parcel 1 (sands above the confining unit; peat and clay confining unit; and sands below the confining unit). Firstly, natural deposit sands with varying amounts of gravels and silts were encountered above a confining layer at depths ranging from 9 ft bgs (CSB-48) to 19 ft bgs (CSB-68). Thicknesses of these sand deposits ranged from 2 ft (CSB-68) to 7 ft (SB-50). Several borings in the northern portion of the parking lot north of Parcel 1 (SB-61, CSB-63, CSB-64, CSB-66, and CSB-67) did not exhibit a sand layer above the confining unit. Contrary to the borings advanced in the north end of the parking lot, SB-52, which was advanced southeast of the parking lot did not exhibit a confining unit. The peat and clay confining layer was encountered in a majority of the borings advanced within the parking lot north of Parcel 1. The peat and clay confining unit was encountered at depths ranging from 13.5 ft bgs (CSB-71) to 37 ft bgs (CSB-65); however the top of the confining unit was encountered between 13 ft bgs (CSB-63) and 19 ft bgs (CSB-68). Thicknesses of the encountered confining unit ranged from 4 ft (CSB-51) to 21.5 ft (CSB-71). Where thicknesses of the confining unit were minimal and NAPL was not encountered, boring were advanced to depths at which a third lithologic zone of sands were encountered. As described previously, based on the scope of this RI, borings were not intended to be advanced to bedrock and bedrock was not encountered in any of the borings advanced during the RI. Therefore a range of sub-confining unit deposits was not obtained.

## 3.2 SITE HYDROGEOLOGY

A complete site-wide gauging event was conducted on November 14th, 2011 and again on June 8th, 2015. Groundwater levels and corresponding elevations for the 2011 and 2015 events are summarized in Tables 2A and 2B, respectively. The June 2015 groundwater elevations were used to produce a Site groundwater contour map (Figure 5). Groundwater contours based on the June 2015 gauging indicate that there are variable flow conditions at the Site that are driven by localized high and low groundwater elevations. There appears to be a hydraulic divide in the vicinity of the Stop and Shop parking lot. North of the divide, groundwater flow is to the north. South of the divide, groundwater converges at a groundwater low in the vicinity of MW-19. Overall, groundwater flow in this area appears to be generally toward the east/northeast. However, numerous gauging events conducted at Parcel 3 over the past 10 years have consistently shown a gradient to the southeast.

## 3.3 ANALYTICAL RESULTS AND FIELD OBSERVATIONS

### 3.3.1 Subsurface soil

A total of 135 subsurface soil samples were collected from the monitoring well and soil borings as part of the RI. In addition, a total of eight field duplicate samples were also collected. Soil samples were submitted to Chemtech and analyzed for TCL VOCs, TCL SVOCs, TAL metals, and cyanide as described in Section 2. The analytical results of the soil samples collected during the RI, as well as the Site Characterization, are summarized in Table 3 and presented on Figures 6 and 7. The soil sample analytical data in the tables and figures are compared Soil Cleanup Objectives (SCOs) per 6 NYCRR Part 375 (NYSDEC, 2006) for unrestricted and commercial Site use. Use of USCOs is considered to be conservative since the Site is currently and will be used for commercial purposes in the foreseeable future. The subsurface soil analytical data and field observations of NAPL and total VOCs measured in the field using PID are summarized below.

**Headspace VOCs (PID Measurements)**

PID readings for soil samples collected during soil boring/monitoring well installations ranged from not detected to 2,871 ppm. The highest total-VOCs concentration measured using the PID of 2,871 ppm was detected from 10 to 15 ft bgs in soil boring SB-46. Although the elevated PID reading at SB-46 was not attributable to the presence of residual NAPL, in general, high PID readings were detected in soil associated with residual NAPL and or staining. For example, the next three highest PID readings were from 13-15 ft bgs at SB-41 (2,043 ppm), 13-15 ft bgs at SB-61 (1,927 ppm), and 13-15 ft bgs at CMW-38 (1,354). NAPL was observed in each of these soil samples.

**NAPL Observations**

During the SC, NAPL was observed in soils screened from the following monitoring well and soil boring locations and depths:

| Site Characterization Study: NAPL Observations in Screened Soils | |
|---|---|
| Boring ID | Depth of Observed NAPL (ft bgs) |
| SB-17 | 13 - 17 |
| SB-19 | 13.5 - 22 |
| SB-22 | 14.5 – 17.5 |
| SB-23 | 10.5 – 19 and 24 – 24.5 |
| SB-25 | 14.5 – 20.5 and 28 - 30 |
| SB-26 | 15 - 16 |
| MW-14 | 12 - 22 |
| MW-15 | 14.5 - 20 |
| MW-16 | 14 – 20 and 22 - 24 |
| MW-18 | 16.5 - 20 |
| MW-19 | 15 - 21 |

During the SC, samples of soil containing NAPL from monitoring well soil borings MW-16 and MW-19 were collected and submitted to META Environmental for forensic hydrocarbon fingerprint analysis by modified Method 8100. The laboratory reports indicate that these samples contained both petrogenic and pyrogenic material. The pyrogenic materials were similar in nature to tars formed from manufactured gas plants utilizing carbureted water gas processes. Two additional soil samples were collected as submitted for hydrocarbon fingerprint analysis during the SC, SB-34 (8-13 ft) and TP-10 (13.5 ft). Consistent with samples from MW-16 and MW-19, these samples contained both petrogenic and pyrogenic material and were similar in nature to tars formed from manufactured gas plants utilizing carbureted water gas processes.

During the RI, NAPL was observed in soils screened from the following monitoring well and soil boring locations and depths:

| Remedial Investigation: NAPL Observations in Screened Soils | |
|---|---|
| Boring ID | Depth of Observed NAPL (ft bgs) |
| CMW-32 | 13 - 15 |
| CMW-33 | 17 - 21.5 |
| CMW-35 | 7 – 15 |
| CMW-38 | 13 – 19 |
| MW-22 | 9 – 13 |
| MW-23 | 21 – 23 |
| MW-24 | 38 - 40 |

| Remedial Investigation: NAPL Observations in Screened Soils | |
|---|---|
| MW-25 | 9 – 16, 27.5 – 33, and 41 – 44 |
| MW-26 | 10 – 14 and 20 – 25 |
| MW-29 | 13 – 17 |
| SB-37 | 36 – 42 |
| SB-38 | 15 – 17 |
| SB-39 | 9 – 11 and 13 – 21 |
| SB-40 | 13 - 21 |
| SB-41 | 13 - 21 |
| SB-42 | 12 – 16 and 22.5 – 30 |
| SB-43 | 13 – 17 |
| SB-44 | 16.5 – 18 |
| SB-45 | 9 – 19, 21 – 25, and 27.5 - 33 |
| SB-47 | 11 – 17 |
| CSB-48 | 11 – 16 |
| SB-49 | 13 – 15 |
| SB-53 | 11 – 15 |
| SB-54 | 19 – 19.5 |
| SB-55 | 13 – 16.5 |
| CSB-57 | 15 – 16.5 |
| CSB-58 | 17 – 20 |
| SB-61 | 9 - 15 |
| SB-62 | 17 - 18 |
| CSB-65 | 13 – 15; noted on lodged rock |
| CSB-66 | 12 – 13 |
| CSB-67 | 11 – 14 |
| SB-74 | 8 – 9 |

Samples of soil containing NAPL from CMW-35, CMW-38, MW-22, MW-26, CSB-48, SB-74 and SB-75 were collected and submitted to META Environmental for forensic hydrocarbon fingerprint analysis by modified Method 8100. The laboratory reports for these fingerprint analyses are provided in Appendix D. The reports indicate that samples from CMW-35, CMW-38, and MW-26 contained both petrogenic and pyrogenic material, samples from MW-22 and CSB-48 contained only pyrogenic material, and samples from SB-74 and SB-75

contained only petrogenic material. In each case where pyrogenic materials were found, it was noted that they were similar in nature to tars formed from manufactured gas plants utilizing carbureted water gas processes.

**VOCs**

A summary of VOC results for soil samples collected during the SC and RI field investigation activities is shown on Figure 6 and presented in Table 3. A total of 31 VOCs were detected at least once in the subsurface soil samples collected during the field investigations. As summarized in Table 3, 12 VOCs were detected at concentrations exceeding their respective USCOs and three were detected at concentrations exceeding their commercial Soil Cleanup Objectives (CSCOs). Total VOC concentrations in all subsurface soil samples ranged from non-detect to 1,376 ppm. The highest total VOC concentrations were detected in a sample collected from soil bring location SB-25 at 28 to 33 ft bgs.

Locations containing exeedances of the USCOs for VOCs were widespread. However, only five locations included samples that exceeded the CSCOs. Four of these locations are located along Ulmer Street west/northwest of the Stop and Shop building at depths ranging from 9-19 ft bgs. The remaining location is SB-25 which is in the Con Edison service yard at a depth of 28-33 ft bgs.

**SVOCs**

A summary of SVOC results for soil samples collected during the SC and RI field investigation activities is shown on Figure 7 and presented in Table 3. A total of 38 SVOCs were detected at least once in the subsurface soil samples collected during the field investigations. As summarized in Table 3, 20 SVOCs were detected at concentration exceeding their respective USCOs and 16 were detected at concentration exceeding their respective CSCOs. Total SVOC concentrations in all subsurface soil samples ranged from non-detect to 14,164 ppm. The highest total SVOC concentration was detected in a sample collected from 13 to 15 ft bgs at soil boring location CMW-32.

Locations containing exeedances of both the USCOs and CSCOs for SVOCs were widespread across both Parcels and adjacent sidewalks and street. Exceedances of the CSCOs were detected at depths ranging from 3.5 ft bgs in TP-12 to 45 ft bgs at MW-25. Both of these locations are within the Con Edison service yard.

**Inorganics**

A summary of inorganic results for soil samples collected during the SC and RI field investigation activities is presented in Table 3. A total of 24 inorganic constituents were detected in soil samples collected during the RI. Of these, 14 inorganics were detected at concentrations exceeding their respective USCOs and 6 inorganics were detected at concentrations exceeding their respective CSCOs. Cyanide was also analyzed in soil samples and ranged in concentrations from non-detect to 33. The highest concentration was detected in soil boring MW-22 at 17 to 19 ft bgs. Metals are a primary component of naturally occurring soil and are typically detected in soil used for fill in urban areas, such as New York City.

### 3.3.2 Groundwater

One round of groundwater sampling was conducted during the SC in 2009 and two rounds of groundwater sampling were conducted as part of the RI during November 2011 and June 2015. Laboratory analytical results for constituents detected in the groundwater samples are summarized in Table 4 and on Figure 8. Analytical results were compared with Class GA groundwater quality standards GWQS and guidance values contained in NYSDEC Technical and Operational Guidance Series (TOGS) 1.1.1 (NYSDEC, 1998). These GWQS and guidance values are protective of groundwater quality assuming that groundwater is used as a source of drinking water. That assumption is not applicable to the Site because groundwater is not used as a source of drinking water. Thus, the use of Class GA standards and guidance values for comparison to Site groundwater is conservative. Field measurements and observations as well as analytical results from the groundwater investigation are summarized below.

Field Measurements

During groundwater sampling activities, each well was monitored for the presence of NAPL. A summary of visual observations during each sampling event is provided below.

- 2009 Sampling Event - Light Non-Aqueous Phase Liquid (LNAPL) was observed in well MW-14 (less than 0.1 ft). No sheens were noted in any of the wells.
- 2011 Sampling Event - LNAPL was observed in monitoring wells MW-15 (~0.13 ft), MW-18 (~0.31 ft), and CMW-38 (~1.41 ft). In addition, a sheen was noted on the purge water from MW-16, MW-17, MW-19.
- 2015 Sampling Event - LNAPL was observed in monitoring wells MW-15 (~1.95 ft), MW-19 (~2.93 ft), and CMW-38 (~1.47 ft). In addition, NAPL was observed on the tape of the probe when it was retrieved from MW-18. In addition, a heavy sheen was noted on the purge water from MW-16.

NAPL observed during the 2011 sampling event was collected and sent to META Environmental for forensic hydrocarbon fingerprint analysis by modified Method 8100. The laboratory reports for these fingerprint analyses are provided in Appendix D. The reports indicate that samples from all three monitoring wells contained both petrogenic and pyrogenic material. It is noted reports that the pyrogenic materials were similar in nature to tars formed from manufactured gas plants utilizing carbureted water gas processes.

Water quality parameters as well as visual descriptions and observations made during the RI groundwater sampling activities are presented in the groundwater sampling records provided in Appendix B.

VOCs

Table 4 summarizes the laboratory analytical results for VOCs detected in groundwater during the SC and RI sampling activities. A total of eighteen VOCs were detected at least once in the groundwater samples collected during the RI activities. Of these, 10 VOCs (benzene, cis-1,2-dichloroethylene, ethyl benzene, isopropyl benzene, m/p-xylene, o-xylene, tert-butyl methyl ether, tetrachloroethylene, toluene, and vinyl chloride) were detected at concentrations exceeding their respective Class GA GWQSs and guidance values. Total VOC concentrations ranged from non-detect to 3,211 ug/L. The highest VOC concentration was detected in a sample collected from MW-30 2011 sampling event.

SVOCs

Table 4 summarizes the laboratory analytical results for SVOCs detected in groundwater samples during the SC and RI sampling activities. A total of 23 SVOCs were detected in the groundwater samples collected. Of these, 11 SVOCs were detected at concentrations higher than their respective Class GA GWQSs and guidance values. Total SVOC concentrations ranged from non-detect to 3,470 ug/L. The highest SVOC concentration was detected in a sample collected from MW-19 in 2009.

Inorganics

Table 4 summarizes the laboratory analytical results for inorganics detected in groundwater samples during the SC and RI sampling activities. A total of 24 inorganics were detected in the groundwater samples collected. Of these, 10 inorganics were detected at concentrations higher than their respective Class GA AWQSGVs. Results for cyanide indicated all detected concentrations were below the GWQS except for one location, CMW-37.

### 3.3.3 Soil Gas Sample Results

A total of 39 VOCs were detected at least once in the soil gas samples collected during the RI. Three of these compounds (acetone, benzene, and toluene) were detected in each of the soil gas samples collected. The number of VOCs detected in each sample ranged from eight compounds in the SG-3 sample to 31 compounds in SG-6. The highest total concentration of VOCs (44,558 ug/m3) was detected in the sample collected from SG-5 which is co-located with soil boring SB-37. Soil gas analytical results are summarized in Table 5 and laboratory analytical reports are provided in Appendix C.

# SECTION 4

# EXPOSURE ASSESSMENT

Information collected during the SC and RI has been used to qualitatively assess potential exposure pathways for the various detected compounds in Site soils, groundwater, and soil gas. The Site is located in a highly urbanized area and is zoned for commercial/industrial use. Retail commercial businesses occupy the area of Parcel 1. Therefore, the current surface at Parcel 1 is largely covered by asphalt parking lots, concrete sidewalks and buildings. Parcel 2 is utilized as an equipment storage, trailer storage, material lay down area, and vehicle storage yard/lot. The current surface of Parcel 2 is largely covered by gravel.

Results from several subsurface soil samples indicate the presence of NAPL-impacted soils as well as VOC and SVOC concentrations above the USCOs and CSCOs. The highest total VOC and SVOC concentrations noted were 1,376 mg/kg in soil boring SB-25 and 14,164 mg/kg in soil boring CMW-32, respectively. Individual exceedances of the USCOs were detected at depths ranging from 2.8 ft bgs in test pit TP-15 to 45 ft bgs in monitoring well soil boring MW-25. Individual exceedances of the CSCOs were detected at depths ranging from 3.5 ft bgs in test pit TP-12 to 45 ft bgs in monitoring well soil boring MW-25. Exceedances of both the USCOs and CSCOs were detected throughout the majority of Parcels 1 and 2 as well as under adjacent sidewalks and the Stop and Shop parking lot. Impacts to soil do not appear to extend east under Farrington Street, to the south under 32nd Avenue, west under the commercial buildings along Downing Street, or north under the Whitestone Expressway. However, impacts may be present under 31st Road, 31st Drive, Ulmer Street and adjacent sidewalks as well as the sidewalks on the north side of 32nd Avenue and south side of the Whitestone Expressway Service Road East. Shallow impacted materials may be encountered during maintenance activities (e.g. utility work or building construction). Therefore, potential future intrusive activities brought to the attention of Con Edison will be evaluated to ensure mitigation of potential human health exposures until a final remedy is in place.

Groundwater results identified VOC and SVOC concentrations exceeding the Class GA GWQS and guidance values at the Site. Groundwater at the Site is currently not used for a potable water source and there are no plans for future use of potable or commercial/industrial groundwater at the Site. The depth to groundwater at the Site ranges from approximately 4 to 19 ft bgs. However, the depth to groundwater at locations where the Class GA GWQSs and guidance values were exceeded is deeper, ranging from approximately 11 to 19 ft bgs. Therefore, potential exposure to groundwater during intrusive subsurface activities (e.g., repair of underground utilities) is not likely at these locations. Surface water and sediment are not present at the Site.

Soil gas sample results indicate the presence of VOCs, including potentially MGP related compounds in soil gas samples collected adjacent to buildings on or near the Site. The adjacent buildings on Parcel 1 and west of Parcel 2 are commercial buildings. The soil gas samples collected adjacent to these commercial buildings ranged from three to eight feet below ground surface. In addition, it is fairly typical for commercial buildings similar to the adjacent buildings to have HVAC system that may provide sufficient air exchanges and/or positive pressure to mitigate potential soil vapor intrusion concerns.

# SECTION 5

# CONCLUSIONS AND RECOMMENDATIONS

## 5.1 CONCLUSIONS

Based on the results of the SC and RI activities documented in this report, the following conclusions are noted for the Site.

- Remnants of the former MGP structures and associated equipment are present on the Con Edison property.
- NAPL was encountered at several locations during the investigations. Hydrocarbon fingerprint analysis results indicate the NAPL is similar in nature to tars formed from manufactured gas plants utilizing carbureted water gas processes. Carbureted water gas was produced at the Site from 1899 until the late 1940's.
- MGP related impacts were encountered in Site soil at concentrations exceeding 6 NYCRR Part 375 USCOs and CSCOs. The extent of MGP related impacts in soil were effectively delineated during investigation activities. The highest impacts were found in areas where visible NAPL was encountered.
- MGP related impacts were encountered in groundwater above the Class GA GWQS and guidance values.
- There is no current pathway for human exposure to impacted soils or groundwater during day-to-day operations. However, exposure to impacted soils or groundwater or soil gas may be possible during intrusive activities (e.g., repair of underground utilities or structures, potential future construction).

## 5.2 RECOMMENDATIONS

Based on the RI activities, no additional investigation is recommended to delineate the impacts identified within the Site.

It is recommended that remedial alternatives be evaluated to address the subsurface impacts identified during the remedial investigation. Prior to identifying overall remedial approach and specific alternatives, Con Edison will consult with NYSDEC to review and consider the impacts and Site-specific conditions.

# SECTION 6

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# TABLES

# Table 1
# Sample Summary
# Former Farrington Street Gas Works Site Remedial Investigation
# Flushing, NY
# Consolidated Edison Company of New York

| | LOCATION | SAMPLE ID | DEPTH (ft bgs) | TCL VOCs | TCL SVOCs | TAL Metals | Cyanide | Hydrocarbon Fingerprint | Dissolved TAL Metals | Modified TO-15 |
|---|---|---|---|---|---|---|---|---|---|---|
| | 2009 - Soil Samples | | | | | | | | | |
| Site Characterization 2009 | MW-13 | MW-13 (18-20) | 18-20 | X | X | X | | | | |
| | | MW-13 (24-26) | 24-26 | X | X | X | | | | |
| | MW-14 | MW-14 (14-16) | 14-16 | X | X | X | | | | |
| | | MW-14 (24-26) | 24-26 | X | X | X | | | | |
| | MW-15 | MW-15 (14-16) | 14-16 | X | X | X | | | | |
| | | MW-15 (28-30) | 28-30 | X | X | X | | | | |
| | MW-16 | MW-16 (6) | 6 | X | X | X | | | | |
| | | MW-16 (8-10) | 8-10 | X | X | X | | | | |
| | | MW-16 (14-16) | 14-16 | X | X | X | | X | | |
| | | MW-16 (28-30) | 28-30 | X | X | X | | | | |
| | MW-17 | MW-17 (14-16) | 14-16 | X | X | X | | | | |
| | | MW-17 (22-24) | 22-24 | X | X | X | | | | |
| | MW-18 | MW-18 (14-16) | 14-16 | X | X | X | | | | |
| | | MW-18 (22-24) | 22-24 | X | X | X | | | | |
| | MW-19 | MW-19 (16-18) | 16-18 | X | X | X | | X | | |
| | | MW-19 (28-30) | 28-30 | X | X | X | | | | |
| | MW-20 | MW-20 (14-16) | 14-16 | X | X | X | | | | |
| | | MW-20 (14-16)* | 14-16 | X | X | X | | | | |
| | | MW-20 (22-24) | 22-24 | X | X | X | | | | |
| | MW-21 | MW-21 (12-14) | 12-14 | X | X | X | | | | |
| | | MW-21 (20-22) | 20-22 | X | X | X | | | | |
| | SB-17 | SB-17 (13-18) | 13-18 | X | X | X | | | | |
| | | SB-17 (28-33) | 28-33 | X | X | X | | | | |
| | SB-18 | SB-18 (8-13) | 8-13 | X | X | X | | | | |
| | | SB-18 (8-13)* | 8-13 | X | X | X | | | | |
| | | SB-18 (18-22) | 18-22 | X | X | X | | | | |
| | SB-19 | SB-19 (13-18) | 13-18 | X | X | X | | | | |
| | | SB-19 (28-33) | 28-33 | X | X | X | | | | |
| | SB-21 | SB-21 (13-18) | 13-18 | X | X | X | | | | |
| | | SB-21 (28-33) | 28-33 | X | X | X | | | | |
| | | SB-21 (28-33)* | 28-33 | X | X | X | | | | |
| | SB-22 | SB-22 (16-18) | 16-18 | X | X | X | | | | |
| | | SB-22 (26-28) | 26-28 | X | X | X | | | | |
| | SB-23 | SB-23 (13-18) | 13-18 | X | X | X | | | | |
| | | SB-23 (28-33) | 28-33 | X | X | X | | | | |
| | SB-24 | SB-24 (10-12) | 10-12 | X | X | X | | | | |
| | | SB-24 (12-14) | 12-14 | X | X | X | | | | |
| | SB-25 | SB-25 (13-18) | 13-18 | X | X | X | | | | |
| | | SB-25 (28-33) | 28-33 | X | X | X | | | | |
| | | SB-25 (33-38) | 33-38 | X | X | X | | | | |
| | SB-26 | SB-26 (14-16) | 14-16 | X | X | X | | | | |
| | | SB-26 (24-26) | 24-26 | X | X | X | | | | |
| | SB-27 | SB-27 (18-23) | 18-23 | X | X | X | | | | |
| | | SB-27 (23-28) | 23-28 | X | X | X | | | | |
| | SB-28 | SB-28 (18-23) | 18-23 | X | X | X | | | | |
| | | SB-28 (23-28) | 23-28 | X | X | X | | | | |
| | | SB-28 (23-28)* | 23-28 | X | X | X | | | | |
| | SB-29 | SB-29 (18-23) | 18-23 | X | X | X | | | | |
| | | SB-29 (23-28) | 23-28 | X | X | X | | | | |
| | SB-30 | SB-30 (13-18) | 13-18 | X | X | X | | | | |
| | | SB-30 (23-28) | 23-28 | X | X | X | | | | |
| | SB-31 | SB-31 (8-13) | 8-13 | X | X | X | | | | |
| | | SB-31 (23-28) | 23-28 | X | X | X | | | | |
| | SB-32 | SB-32 (8-13) | 8-13 | X | X | X | | | | |
| | | SB-32 (23-28) | 23-28 | X | X | X | | | | |
| | SB-33 | SB-33 (13-18) | 13-18 | X | X | X | | | | |
| | | SB-33 (28-33) | 28-33 | X | X | X | | | | |
| | SB-34 | SB-34 (8-13) | 8-13 | X | X | X | | X | | |
| | | SB-34 (23-28) | 23-28 | X | X | X | | | | |

# Table 1
# Sample Summary
# Former Farrington Street Gas Works Site Remedial Investigation
# Flushing, NY
# Consolidated Edison Company of New York

| | LOCATION | SAMPLE ID | DEPTH (ft bgs) | TCL VOCs | TCL SVOCs | TAL Metals | Cyanide | Hydrocarbon Fingerprint | Dissolved TAL Metals | Modified TO-15 |
|---|---|---|---|---|---|---|---|---|---|---|
| Site Characterization 2009 | TP-10 | TP-10 ( 13.5) | 13.5 | | | | | X | | |
| | TP-11 | TP-11 ( 7-8) | 5 | X | X | X | | | | |
| | TP-12 | TP-12 (2.5) | 2.5 | X | X | X | | | | |
| | | TP-12 (5) | 5 | X | X | X | | | | |
| | | TP- 12-1( 3.5) | 3.5 | X | X | X | | | | |
| | TP-13 | TP-13N (5.5) | 5.5 | X | X | X | | | | |
| | | TP-13S (4) | 4 | X | X | X | | | | |
| | TP-14 | TP-14E (5.5) | 5.5 | X | X | X | | | | |
| | | TP-14W (5.5) | 5.5 | X | X | X | | | | |
| | TP-15 | TP-15 (2.5) | 2.5 | X | X | X | | | | |
| | | TP-15 (5) | 5 | X | X | X | | | | |
| RI AUGUST to OCTOBER 2011 | 2011 - Soil Samples | | | | | | | | | |
| | CMW-32 | CMW-32 (13-15) | 13-15 | X | X | X | X | | | |
| | | CMW-32 (39-41) | 39-41 | X | X | X | X | | | |
| | CMW-33 | CMW-33 (18-19) | 18-19 | X | X | X | X | | | |
| | | CMW-33 (41-43) | 41-43 | X | X | X | X | | | |
| | CMW-35 | CMW-35 (9-11) | 9-11 | X | X | X | X | X | | |
| | | CMW-35 (31-33) | 31-33 | X | X | X | X | | | |
| | CMW-36 | CMW-36 (12-14) | 12-14 | X | X | X | X | | | |
| | | CMW-36 (24-26) | 24-26 | X | X | X | X | | | |
| | CMW-37 | CMW-37 (15-17) | 15-17 | X | X | X | X | | | |
| | | CMW-37 (39-41) | 39-41 | X | X | X | X | | | |
| | CMW-38 | CMW-38 (13-15) | 13-15 | X | X | X | X | X | | |
| | | CMW-38 (39-41) | 39-41 | X | X | X | X | | | |
| | CMW-39 | CMW-39 (22-24) | 22-24 | X | X | X | X | | | |
| | | CMW-39 (40-42) | 40-42 | X | X | X | X | | | |
| | CMW-40 | CMW-40 (36-38) | 36-38 | X | X | X | X | | | |
| | | CMW-40 (40-42) | 40-42 | X | X | X | X | | | |
| | MW-23 | MW-23 (21-23) | 21-23 | X | X | X | X | | | |
| | | MW-23 (39-41) | 39-41 | X | X | X | X | | | |
| | MW-24 | MW-24 (17-19) | 17-19 | X | X | X | X | | | |
| | | MW-24 (38-40) | 38-40 | X | X | X | X | | | |
| | | MW-24 (41-42) | 41-42 | X | X | X | X | | | |
| | MW-25 | MW-25 (13-15) | 13-15 | X | X | X | X | | | |
| | | MW-25 (31-33) | 31-33 | X | X | X | X | | | |
| | | MW-25 (43-45) | 43-45 | X | X | X | X | | | |
| | | MW-25 (53-55) | 53-55 | X | X | X | X | | | |
| | MW-26 | MW-26 (12-14) | 12-14 | X | X | X | X | X | | |
| | | MW-26 (20-22) | 20-22 | | | | | X | | |
| | | MW-26 (22-24) | 22-24 | X | X | X | X | | | |
| | | MW-26 (26-28) | 26-28 | X | X | X | X | | | |
| | MW-27 | MW-27 (13-15) | 13-15 | X | X | X | X | | | |
| | | MW-27 (23-25) | 23-25 | X | X | X | X | | | |
| | MW-28 | MW-28 (11-13) | 11-13 | X | X | X | X | | | |
| | | MW-28 (23-25) | 23-25 | X | X | X | X | | | |
| | MW-29 | MW-29 (15-17) | 15-17 | X | X | X | X | | | |
| | | MW-29 (37-39) | 37-39 | X | X | X | X | | | |
| | MW-30 | MW-30 (29-31) | 29-31 | X | X | X | X | | | |
| | | MW-30 (33-35) | 33-35 | X | X | X | X | | | |
| | | MW-30A (29-31)* | 29-31 | X | X | X | X | | | |
| | SB-38 | SB-38 (15-17) | 15-17 | X | X | X | X | | | |
| | | SB-38 (43-45) | 43-45 | X | X | X | X | | | |
| | SB-39 | SB-39 (13-15) | 13-15 | X | X | X | X | | | |
| | | SB-39 (35-37) | 35-37 | X | X | X | X | | | |
| | SB-40 | SB-40 (15-17) | 15-17 | X | X | X | X | | | |
| | | SB-40 (39-41) | 39-41 | X | X | X | X | | | |
| | SB-41 | SB-41 (13-15) | 13-15 | X | X | X | X | | | |
| | | SB-41 (33-35) | 33-35 | X | X | X | X | | | |
| | | SB-41A (13-15)* | 13-15 | X | X | X | X | | | |
| | SB-42 | SB-42 (14-16) | 14-16 | X | X | X | X | | | |
| | | SB-42 (22-24) | 22-24 | X | X | X | X | | | |
| | | SB-42 (34-36) | 34-36 | X | X | X | X | | | |
| | | SB-42A (14-16)* | 14-16 | X | X | X | X | | | |

# Table 1
# Sample Summary
# Former Farrington Street Gas Works Site Remedial Investigation
# Flushing, NY
# Consolidated Edison Company of New York

| | LOCATION | SAMPLE ID | DEPTH (ft bgs) | TCL VOCs | TCL SVOCs | TAL Metals | Cyanide | Hydrocarbon Fingerprint | Dissolved TAL Metals | Modified TO-15 |
|---|---|---|---|---|---|---|---|---|---|---|
| RI AUGUST to OCTOBER 2011 | SB-43 | SB-43 (15-17) | 15-17 | X | X | X | X | | | |
| | | SB-43 (29-31) | 29-31 | X | X | X | X | | | |
| | SB-44 | SB-44 (16.5-18) | 16.5-18 | X | X | X | X | | | |
| | | SB-44 (28-30) | 28-30 | X | X | X | X | | | |
| | SB-45 | SB-45 (13-15) | 13-15 | X | X | X | X | | | |
| | | SB-45 (27-29) | 27-29 | X | X | X | X | | | |
| | | SB-45 (43-45) | 43-45 | X | X | X | X | | | |
| | SB-46 | SB-46 (11-12) | 11-12 | X | X | X | X | | | |
| | | SB-46 (39-40) | 39-40 | X | X | X | X | | | |
| RI FEBRUARY 2012 | **2012 - Soil Samples** | | | | | | | | | |
| | SB-35 | No Samples Collected | | | | | | | | |
| | SB-36 | SB-36 (12-14) | 12-14 | X | X | X | X | | | |
| | | SB-36 (28-30) | 28-30 | X | X | X | X | | | |
| | SB-37 | SB-37 (38-40) | 38-40 | X | X | X | X | | | |
| | | SB-37 (48-50) | 48-50 | X | X | X | X | | | |
| | MW-22 | MW-22 (9-11) | 9-11 | X | X | X | X | | | |
| | | MW-22 (11-13) | 11-13 | | | | | X | | |
| | | MW-22 (17-19) | 17-19 | X | X | X | X | | | |
| RI December 2013 to March 2014 | **2013 - 2014 - Soil Samples** | | | | | | | | | |
| | SB-47 | SB-47 (15-17) | 15-17 | X | X | X | X | | | |
| | | SB-47 (29-31) | 29-31 | X | X | X | X | | | |
| | | SB-147 (29-31)* | 29-31 | X | X | X | X | | | |
| | CSB-48 | CSB-48 (15-17) | 15-17 | X | X | X | X | X | | |
| | | CSB-48 (17-19) | 17-19 | X | X | X | X | | | |
| | CSB-48D | CSB-48D (25-30) | 25-30 | X | X | X | X | | | |
| | | CSB-148 (25-30)* | 25-30 | X | X | X | X | | | |
| | | CSB-48D (42-44) | 42-44 | X | X | X | X | | | |
| | SB-49 | SB-49 (11-13) | 11-13 | X | X | X | X | | | |
| | | SB-49 (29-31) | 29-31 | X | X | X | X | | | |
| | SB-50 | SB-50 (15-16) | 15-16 | X | X | X | X | | | |
| | | SB-50 (25-30) | 25-30 | X | X | X | X | | | |
| | CSB-51 | CSB-51 (15-17) | 15-17 | X | X | X | X | | | |
| | | CSB-51 (29-31) | 29-31 | X | X | X | X | | | |
| | SB-52 | SB-52 (7-9) | 7-9 | X | X | X | X | | | |
| | | SB-52 (48-50) | 48-50 | X | X | X | X | | | |
| | SB-53 | SB-53 (11-13) | 11-13 | X | X | X | X | | | |
| | | SB-53 (29-31) | 29-31 | X | X | X | X | | | |
| | SB-54 | SB-54 (19-21) | 19-21 | X | X | X | X | | | |
| | | SB-54 (28-30) | 28-30 | X | X | X | X | | | |
| | SB-55 | SB-55 (15-17) | 15-17 | X | X | X | X | | | |
| | | SB-55 (17-19) | 17-19 | X | X | X | X | | | |
| | SB-55D | SB-55D (25-26) | 25-26 | X | X | X | X | | | |
| | | SB-55D (40-42) | 40-42 | X | X | X | X | | | |
| | SB-56 | SB-56 (7-9) | 7-9 | X | X | X | X | | | |
| | | SB-56 (29-31) | 29-31 | X | X | X | X | | | |
| | CSB-57 | CSB-57 (15-17) | 15-17 | X | X | X | X | | | |
| | | CSB-57 (29-31) | 29-31 | X | X | X | X | | | |
| | | CSB-157 (29-31)* | 29-31 | X | X | X | X | | | |
| | CSB-58 | CSB-58 (19-21) | 19-21 | X | X | X | X | | | |
| | | CSB-58 (23-25) | 23-25 | X | X | X | X | | | |
| | SB-59 | No Samples Collected | | | | | | | | |
| | MW-CSB-60 | CSB-60 (7-9) | 7-9 | X | X | X | X | | | |
| | | CSB-160 (7-9)* | 7-9 | X | X | X | X | | | |
| | | CSB-60 (29-31) | 29-31 | X | X | X | X | | | |
| | SB-61 | SB-61 (13-15) | 13-15 | X | X | X | X | | | |
| | | SB-61 (32-34) | 32-34 | X | X | X | X | | | |
| | SB-62 | SB-62 (17-19) | 17-19 | X | X | X | X | | | |
| | | SB-62 (29-31) | 29-31 | X | X | X | X | | | |
| | CSB-63 | CSB-63 (13-15) | 13-15 | X | X | X | X | | | |
| | | CSB-63 (29-31) | 29-31 | X | X | X | X | | | |

# Table 1
# Sample Summary
# Former Farrington Street Gas Works Site Remedial Investigation
# Flushing, NY
# Consolidated Edison Company of New York

| | LOCATION | SAMPLE ID | DEPTH (ft bgs) | TCL VOCs | TCL SVOCs | TAL Metals | Cyanide | Hydrocarbon Fingerprint | Dissolved TAL Metals | Modified TO-15 |
|---|---|---|---|---|---|---|---|---|---|---|
| RI December 2013 to March 2014 | CSB-64 | CSB-64 (7-9) | 7-9 | X | X | X | X | | | |
| | | CSB-64 (29-31) | 29-31 | X | X | X | X | | | |
| | CSB-65 | CSB-65 (15-17) | 15-17 | X | X | X | X | | | |
| | | CSB-65 (29-31) | 29-31 | X | X | X | X | | | |
| | | CSB-65 (37-39) | 37-39 | X | X | X | X | | | |
| | CSB-66 | CSB-66 (11-13) | 11-13 | X | X | X | X | | | |
| | | CSB-66 (29-31) | 29-31 | X | X | X | X | | | |
| | CSB-67 | CSB-67 (11-13) | 11-13 | X | X | X | X | | | |
| | | CSB-67 (29-31) | 29-31 | X | X | X | X | | | |
| | CSB-68 | CSB-68 (17-19) | 17-19 | X | X | X | X | | | |
| | | CSB-68 (34-35) | 34-35 | X | X | X | X | | | |
| | SB-69 | SB-69 (9-11) | 9-11 | X | X | X | X | | | |
| | | SB-69 (29-31) | 29-31 | X | X | X | X | | | |
| | SB-70 | SB-70 (7-9) | 7-9 | X | X | X | X | | | |
| | | SB-70 (29-31) | 29-31 | X | X | X | X | | | |
| | CSB-71 | CSB-71 (7-9) | 7-9 | X | X | X | X | | | |
| | | CSB-71 (30-35) | 30-35 | X | X | X | X | | | |
| RI November 2014 to June 2015 | **2014-2015 - Soil Samples** | | | | | | | | | |
| | SB-72 | SB-72 (7-9) | 7-9 | X | X | X | X | | | |
| | | SB-72 (15-17) | 15-17 | X | X | X | X | | | |
| | SB-73 | SB-73 (14-16) | 14-16 | X | X | X | X | | | |
| | | SB-73 (28-30) | 28-30 | X | X | X | X | | | |
| | SB-74 | SB-74 (7-9) | 7-9 | X | X | X | X | X | | |
| | | SB-74 (13-15) | 13-15 | X | X | X | X | | | |
| | SB-75 | SB-75 (5-7) | 5-7 | X | X | X | X | X | | |
| | | SB-75 (15-20) | 15-20 | X | X | X | X | | | |
| | SB-76 | SB-76 (8-10) | 8-10 | X | X | X | X | | | |
| | | SB-76 (8-10)* | 8-10 | X | X | X | X | | | |
| | | SB-76 (11-13) | 11-13 | X | X | X | X | | | |
| | SB-77 | SB-77 (7-9) | 7-9 | X | X | X | X | | | |
| | | SB-77 (28-30) | 28-30 | X | X | X | X | | | |
| | SB-79 | SB-79 (7-10) | 7-10 | X | X | X | X | | | |
| | | SB-79 (15-18) | 15-18 | X | X | X | X | | | |
| | SB-84 | SB-84 (17-19) | 17-19 | X | X | X | X | | | |
| | | SB-84 (29-31) | 29-31 | X | X | X | X | | | |
| | SB-85 | SB-85 (7-9) | 7-9 | X | X | X | X | | | |
| | | SB-85 (29-31) | 29-31 | X | X | X | X | | | |
| Site Characterization 2009 | **2009 - Groundwater Samples** | | | | | | | | | |
| | MW-13 | MW-13 | -- | X | X | X | X | | | |
| | MW-14 | MW-14 | -- | X | X | X | X | | | |
| | | MW-114* | -- | X | X | X | X | | | |
| | MW-15 | MW15 | -- | X | X | X | X | | | |
| | MW-16 | MW-16 | -- | X | X | X | X | | | |
| | MW-17 | MW-17 | -- | X | X | X | X | | | |
| | MW-18 | MW-18 | -- | X | X | X | X | | | |
| | MW-19 | MW-19 | -- | X | X | X | X | | | |
| | MW-20 | MW-20 | -- | X | X | X | X | | | |
| | MW-21 | MW-21 | -- | X | X | X | X | | | |

# Table 1
## Sample Summary
## Former Farrington Street Gas Works Site Remedial Investigation
## Flushing, NY
## Consolidated Edison Company of New York

| | LOCATION | SAMPLE ID | DEPTH (ft bgs) | TCL VOCs | TCL SVOCs | TAL Metals | Cyanide | Hydrocarbon Fingerprint | Dissolved TAL Metals | Modified TO-15 |
|---|---|---|---|---|---|---|---|---|---|---|
| RI NOVEMBER 2011 | **2011 - Groundwater Samples** | | | | | | | | | |
| | CMW-36 | CMW-36 | NA | X | X | X | X | | | |
| | CMW-37 | CMW-37 | NA | X | X | X | X | | | |
| | CMW-38 | CMW-38 | NA | X | X | X | X | X | | |
| | CMW-39 | CMW-39 | NA | X | X | X | X | | X | |
| | CMW-40 | CMW-40 | NA | X | X | X | X | | | |
| | MW-13 | MW-13 | NA | X | X | X | X | | | |
| | MW-14 | No Samples Collected | | | | | | | | |
| | MW-15 | MW-15 | NA | X | X | X | X | X | | |
| | MW-16 | MW-16 | NA | X | X | X | X | | | |
| | MW-17 | MW-17 | NA | X | X | X | X | | | |
| | MW-17A* | MW-17A* | NA | X | X | X | X | | | |
| | MW-18 | MW-18 | NA | X | X | X | X | X | | |
| | MW-19 | MW-19 | NA | X | X | X | X | | | |
| | MW-20 | MW-20 | NA | X | X | X | X | | | |
| | MW-21 | MW-21 | NA | X | X | X | X | | X | |
| | MW-25 | MW-25 | NA | X | X | X | X | | X | |
| | MW-27 | MW-27 | NA | X | X | X | X | | | |
| | MW-28 | MW-28 | NA | X | X | X | X | | | |
| | MW-30 | MW-30 | NA | X | X | X | X | | | |
| JUNE 2015 RI | **2015 - Groundwater Samples** | | | | | | | | | |
| | CMW-36 | CMW-36 | NA | X | X | X | X | | | |
| | CMW-37 | CMW-37 | NA | X | X | X | X | | | |
| | CMW-38 | No Samples Collected | | | | | | | | |
| | CMW-39 | No Samples Collected | | | | | | | | |
| | CMW-40 | CMW-40 | NA | X | X | X | X | | | |
| | MW-13 | MW-13 | NA | X | X | X | X | | | |
| | MW-14 | No Samples Collected | | | | | | | | |
| | MW-15 | No Samples Collected | | | | | | | | |
| | MW-16 | MW-16 | NA | X | X | X | X | | | |
| | MW-17 | MW-17 | NA | X | X | X | X | | | |
| | MW-18 | No Samples Collected | | | | | | | | |
| | MW-19 | No Samples Collected | | | | | | | | |
| | MW-20 | MW-20 | NA | X | X | X | X | | | |
| | MW-21 | MW-21 | NA | X | X | X | X | | | |
| | MW-25 | MW-25 | NA | X | X | X | X | | | |
| | MW-27 | MW-27 | NA | X | X | X | X | | | |
| | MW-28 | MW-28 | NA | X | X | X | X | | | |
| | MW-30 | MW-30 | NA | X | X | X | X | | | |
| | MW-41 | MW-41 | NA | X | X | X | X | | | |
| | MW-CSB-60 | MW-CSB-60 | NA | X | X | X | X | | | |
| AUGUST 2011 RI | **2011 - Air Samples** | | | | | | | | | |
| | SG-1 | SG-1 | 3' | | | | | | | X |
| | SG-2 | SG-2 | 3' | | | | | | | X |
| | SG-6 | SG-6 | 3' | | | | | | | X |
| | SG-7 | SG-7 | 3.5' | | | | | | | X |
| | SG-8 | SG-8 | 8' | | | | | | | X |
| | SG-9 | SG-9 | 8' | | | | | | | X |
| | SG-10 | SG-10 | 7.5' | | | | | | | X |
| | SG-11 | SG-11 | 7.5' | | | | | | | X |
| FEBRUARY 2012 RI | **2012 - Air Samples** | | | | | | | | | |
| | SG-3 | SG-3 | 6' | | | | | | | X |
| | SG-4 | SG-4 | 7.5' | | | | | | | X |
| | SG-5 | SG-5 | 7.5' | | | | | | | X |

*** Indicates a duplicate sample.**
**NA = Not Applicable**

**Table 2A**
**Gauging Results**
**Farrington Street November 14th, 2011**
**Consolidated Edison Company of New York**

| Well ID | TOC Elevation (FT AMSL) | DTW (FT) | Groundwater Elevation (FT AMSL) | DTP (FT) | Screen Interval (FT BGS) | DTB (FT) |
|---|---|---|---|---|---|---|
| **Farrington Street Former Holder Site (Parcel 3)** | | | | | | |
| **MW-3** | 12.95 | 13.44 | -0.49 | ND | NA | 21.84 |
| **MW-6** | 14.22 | 14.62 | -0.40 | ND | 13-23 | 25.02 |
| **MW-7** | 14.36 | 15.02 | -0.66 | ND | 11.9-21.9 | 23.25 |
| **MW-8** | 13.75 | 14.52 | -0.77 | ND | 12.6-22.6 | 24.15 |
| **MW-9** | 13.30 | 14.10 | -0.80 | ND | 11.9-21.9 | 21.80 |
| **MW-10** | 13.86 | 14.44 | -0.58 | ND | 12.45-22.45 | 20.89 |
| **MW-11A** | 13.58 | 14.92 | -1.34 | ND | 13-23 | 25.63 |
| **MW-12** | 12.71 | 13.65 | -0.94 | ND | 12.2-22.2 | 23.34 |
| **Farrington Street Former MGP Site** | | | | | | |
| **MW-13** | 12.78 | 12.84 | -0.06 | ND | 11-26 | 25.65 |
| **MW-14** | Well Damaged - Not Accessible | | | | | |
| **MW-15** | 12.14 | 11.48 | 0.66 | 11.35 | 11-26 | 28.13 |
| **MW-16** | 13.69 | 13.75 | -0.06 | ND | 12-28 | 29.29 |
| **MW-17** | 13.08 | 12.75 | 0.33 | ND | 11-24 | 22.75 |
| **MW-18** | 13.61 | 13.83 | -0.22 | 13.52 | 12-22 | 25.05 |
| **MW-19** | 12.67 | 13.56 | -0.89 | ND | 12-28 | 28.79 |
| **MW-20** | 13.20 | 13.39 | -0.19 | ND | 12-22 | 21.38 |
| **MW-21** | 11.86 | 11.81 | 0.05 | ND | 12-22 | 22.08 |
| **MW-25** | 12.46 | 11.41 | 1.05 | ND | 5-45 | 43.51 |
| **MW-27** | 11.31 | 10.83 | 0.48 | ND | 13-23 | 22.55 |
| **MW-28** | 12.05 | 12.54 | -0.49 | ND | 11-21 | 20.95 |
| **MW-30** | 13.89 | 14.03 | -0.14 | ND | 23-33 | 32.80 |
| **CMW-36** | 11.97 | 12.19 | -0.22 | ND | 13-23 | 22.97 |
| **CMW-37** | 12.2 | 11.19 | 1.01 | ND | 11-21 | 20.45 |
| **CMW-38** | 12.91 | 14.25 | -1.34 | 12.84 | 9-39 | 40.75 |
| **CMW-39** | 10.75 | 9.44 | 1.31 | ND | 10-20 | 20.35 |
| **CMW-40** | 14.09 | 14.28 | -0.19 | ND | 13-23 | 23.4 |

Notes:
(1) Vertical datum based on NAVD88.
(2) Depths measured relative to the top of the inner well casing.
(3) FT AMSL = Unit of elevation in feet above mean sea level.
(4) NA = Not available.
(5) ND - Not detected. No measurable NAPL encountered.
(6) FT BGS = Feet below ground surface.
(7) TOC = Top of inner well casing.
(8) DTW = Depth to water, DTB = Depth to Bottom, DTP = Depth to Product.

**Table 2B**
**Gauging Results**
**Farrington Street June 8th, 2015**
**Consolidated Edison Company of New York**

| Well ID | TOC Elevation (FT AMSL) | DTW (FT) | Groundwater Elevation (FT AMSL) | DTP (FT) | Screen Interval (FT BGS) | DTB (FT) |
|---|---|---|---|---|---|---|
| **Farrington Street Former Holder Site (Parcel 3)** | | | | | | |
| **MW-3** | 12.95 | 14.80 | -1.85 | ND | NA | 21.82 |
| **MW-6** | 14.22 | 16.54 | -2.32 | ND | 13-23 | 25.00 |
| **MW-9** | 13.28 | 15.45 | -2.17 | ND | 11.9-21.9 | 17.70 |
| **MW-13** | 13.34 | 15.53 | -2.19 | ND | 12-22 | 20.52 |
| **MW-14** | 13.65 | 15.78 | -2.13 | ND | 12-22 | 20.40 |
| **MW-15** | 13.56 | 15.54 | -1.98 | ND | 12-22 | 20.15 |
| **MW-16** | 12.87 | 14.97 | -2.10 | ND | 12-22 | 19.55 |
| **MW-17** | 13.63 | 16.02 | -2.39 | ND | 12-22 | 19.75 |
| **Farrington Street Former MGP Site** | | | | | | |
| **MW-13** | 12.78 | 14.25 | -1.47 | ND | 11-26 | 25.70 |
| **MW-14** | Well Damaged - Not Accessible | | | | | |
| **MW-15** | 12.14 | 14.80 | -2.66 | 12.85 | 11-26 | 28.20 |
| **MW-16** | 13.69 | 16.04 | -2.35 | ND | 12-28 | 29.35 |
| **MW-17** | 13.08 | 15.15 | -2.07 | ND | 11-24 | 22.75 |
| **MW-18** | 13.61 | 16.40 | -2.79 | Note 9 | 12-22 | 21.20 |
| **MW-19** | 12.67 | 19.45 | -6.78 | 16.52 | 12-28 | 28.8 |
| **MW-20** | 13.20 | 16.28 | -3.08 | ND | 12-22 | 21.45 |
| **MW-21** | 11.86 | 15.85 | -3.99 | ND | 12-22 | 22.10 |
| **MW-22** | Well could not be located | | | | | |
| **MW-25** | 12.46 | 12.77 | -0.31 | ND | 5-45 | 43.41 |
| **MW-27** | 11.31 | 12.46 | -1.15 | ND | 13-23 | 22.62 |
| **MW-28** | 12.05 | 13.73 | -1.68 | ND | 11-21 | 20.65 |
| **MW-30** | 13.89 | 16.50 | -2.61 | ND | 23-33 | 32.85 |
| **CMW-36** | 11.97 | 13.74 | -1.77 | ND | 13-23 | 23.00 |
| **CMW-37** | 12.2 | 13.77 | -1.57 | ND | 11-21 | 20.50 |
| **CMW-38** | 12.91 | 17.42 | -4.51 | 15.95 | 9-39 | 36.25 |
| **CMW-39** | Well could not be located | | | | | |
| **CMW-40** | 14.09 | 16.94 | -2.85 | ND | 13-23 | 23.45 |
| **MW-41** | 7.6 | 4.13 | 3.47 | ND | 5-13 | 12.76 |
| **MW-CSB-60** | 9.9 | 5.65 | 4.25 | ND | 5-15 | 15.10 |

Notes:
(1) Vertical datum based on NAVD88.
(2) Depths measured relative to the top of the inner well casing.
(3) FT AMSL = Unit of elevation in feet above mean sea level.
(4) NA = Not available.
(5) ND - Not detected. No measurable NAPL encountered.
(6) FT BGS = Feet below ground surface.
(7) TOC = Top of inner well casing.
(8) DTW = Depth to water, DTB = Depth to Bottom, DTP = Depth to Product.
(9) No measurable product. However, product was noted on tape when the probe was retrieved.

Table 3
Farrington Street Former MGP Site
Summary of Soil Analytical Data
Consolidated Edison Company of New York

| Consolidated Edison<br>Farrington Street Remedial Investigation<br>2009-2015 Soil Analytical Data<br>Detected Compounds Only | | | | Location ID: | TP-11 | TP-12 | TP-12 | TP-12-1 | TP-13N | TP-13S | TP-14E |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Sample ID: | TP-11(7-8) | TP-12(2.5) | TP-12(5) | TP-12-1(3.5) | TP-13N(5.5) | TP-13S(4) | TP-14E(5.5) |
| | | | | Lab Sample Id | A2390-01 | A2477-01 | A2477-02 | A2477-04 | A2513-01 | A2513-03 | A2513-05 |
| | | | | Depth: | 7-8 ft | 2.5 ft | 5 ft | 3.5 ft | 5.5 ft | 4 ft | 5.5 ft |
| | | | | Source: | Chemtech | Chemtech | Chemtech | Chemtech | Chemtech | Chemtech | Chemtech |
| | | NYSDEC Part 375 Unrestricted Soil Criteria | NYSDEC Part 375 Commercial Soil Criteria | SDG: | A2390 | A2477 | A2477 | A2477 | A2513 | A2513 | A2513 |
| | | | | Matrix: | SOIL | SOIL | SOIL | SOIL | SOIL | SOIL | SOIL |
| | | | | Sampled: | 4/17/2009 0:00 | 4/22/2009 0:00 | 4/22/2009 0:00 | 4/22/2009 0:00 | 4/24/2009 0:00 | 4/24/2009 0:00 | 4/27/2009 0:00 |
| | | | | Validated: | 5/15/2009 | 5/15/2009 | 5/15/2009 | 5/15/2009 | 5/27/2009 | 5/27/2009 | 5/27/2009 |
| CAS NO. | COMPOUND | | | UNITS: | | | | | | | |
| | VOLATILES | | | | | | | | | | |
| 79-34-5 | 1,1,2,2-TETRACHLOROETHANE | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 120-82-1 | 1,2,4-TRICHLOROBENZENE | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 95-50-1 | 1,2-DICHLOROBENZENE | 1.1 | 500 | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 541-73-1 | 1,3-DICHLOROBENZENE | 2.4 | 280 | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 106-46-7 | 1,4-DICHLOROBENZENE | 1.8 | 130 | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 591-78-6 | 2-HEXANONE | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 67-64-1 | ACETONE | 0.05 | 500 | mg/Kg | R | ND | ND | ND | ND | **0.051** J | **0.2** |
| 71-43-2 | BENZENE | 0.06 | 44 | mg/Kg | 0.015 J | ND | ND | ND | ND | **0.11** | ND |
| 75-15-0 | CARBON DISULFIDE | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 108-90-7 | CHLOROBENZENE | 1.1 | 500 | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 67-66-3 | CHLOROFORM | 0.37 | 350 | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 156-59-2 | CIS-1,2-DICHLOROETHYLENE | 0.25 | 500 | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 110-82-7 | CYCLOHEXANE | -- | -- | mg/Kg | ND | ND | ND | ND | ND | 0.021 J | ND |
| 100-41-4 | ETHYLBENZENE | 1 | 390 | mg/Kg | 0.091 | ND | ND | ND | ND | **5.7** | ND |
| 98-82-8 | ISOPROPYLBENZENE (CUMENE) | -- | -- | mg/Kg | 0.53 | ND | ND | 0.01 J | ND | 2.2 | ND |
| XYLMP | M,P-XYLENE (SUM OF ISOMERS) | 0.26 | 500 | mg/Kg | 0.11 | ND | ND | ND | ND | **3.1** | ND |
| 79-20-9 | METHYL ACETATE | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 78-93-3 | METHYL ETHYL KETONE (2-BUTANONE) | 0.12 | 500 | mg/Kg | ND | ND | ND | ND | ND | ND | 0.025 J |
| 108-10-1 | METHYL ISOBUTYL KETONE | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 108-87-2 | METHYLCYCLOHEXANE | -- | -- | mg/Kg | ND | ND | ND | ND | ND | 0.065 | ND |
| 75-09-2 | METHYLENE CHLORIDE | 0.05 | 500 | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 95-47-6 | O-XYLENE (1,2-DIMETHYLBENZENE) | 0.26 | 500 | mg/Kg | **0.29** | ND | ND | ND | ND | **3.9** | ND |
| 100-42-5 | STYRENE | -- | -- | mg/Kg | 0.0072 J | ND | ND | ND | ND | 0.019 J | ND |
| 1634-04-4 | TERT-BUTYL METHYL ETHER | 0.93 | 500 | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 127-18-4 | TETRACHLOROETHYLENE(PCE) | 1.3 | 150 | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 108-88-3 | TOLUENE | 0.7 | 500 | mg/Kg | 0.014 J | 0.014 J | ND | ND | ND | 0.082 | ND |
| 79-01-6 | TRICHLOROETHYLENE (TCE) | 0.47 | 200 | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 95-63-6 | 1,2,4-TRIMETHYLBENZENE | 3.6 | 190 | mg/kg | | | | | | | |
| 108-67-8 | 1,3,5-TRIMETHYLBENZENE (MESITYLENE) | 8.4 | 190 | mg/kg | | | | | | | |
| 103-65-1 | N-PROPYLBENZENE | 3.9 | 500 | mg/kg | | | | | | | |
| 135-98-8 | SEC-BUTYLBENZENE | 11 | 500 | mg/kg | | | | | | | |
| | **TOTAL VOCS** | **--** | **--** | **mg/Kg** | **1.0572** | **0.014** | **ND** | **0.01** | **ND** | **15.248** | **0.225** |

Exceeds NYSDEC Part 375 Unrestricted Soil Criteria
Exceeds NYSDEC Commercial Soil Criteria
(1) NYSDEC 6 NYCRR Part 375 Environmental Remediation Program (December 2006)
(2) -- indicates no clean up objective or background level is available
(3) NA indicates compound was not analyzed for
(4) ND indicates compound was not detected
(5) J indicates an estimated concentration; J+ indicated an estimated concentration biased high.
(6) R indicates rejected data
(7) Grey shaded values exceed NYSDEC Part 375 Unrestricted Soil Criteria
(8) Orange shaded values exceed NYSDEC Part 375 Commercial Soil Criteria

Table 3
Farrington Street Former MGP Site
Summary of Soil Analytical Data
Consolidated Edison Company of New York

| Consolidated Edison<br>Farrington Street Remedial Investigation<br>2009-2015 Soil Analytical Data<br>Detected Compounds Only | | | | Location ID: | TP-11 | TP-12 | TP-12 | TP-12-1 | TP-13N | TP-13S | TP-14E |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Sample ID: | TP-11(7-8) | TP-12(2.5) | TP-12(5) | TP-12-1(3.5) | TP-13N(5.5) | TP-13S(4) | TP-14E(5.5) |
| | | | | Lab Sample Id | A2390-01 | A2477-01 | A2477-02 | A2477-04 | A2513-01 | A2513-03 | A2513-05 |
| | | | | Depth: | 7-8 ft | 2.5 ft | 5 ft | 3.5 ft | 5.5 ft | 4 ft | 5.5 ft |
| | | | | Source: | Chemtech | Chemtech | Chemtech | Chemtech | Chemtech | Chemtech | Chemtech |
| | | NYSDEC Part 375 Unrestricted Soil Criteria | NYSDEC Part 375 Commercial Soil Criteria | SDG: | A2390 | A2477 | A2477 | A2477 | A2513 | A2513 | A2513 |
| | | | | Matrix: | SOIL | SOIL | SOIL | SOIL | SOIL | SOIL | SOIL |
| | | | | Sampled: | 4/17/2009 0:00 | 4/22/2009 0:00 | 4/22/2009 0:00 | 4/22/2009 0:00 | 4/24/2009 0:00 | 4/24/2009 0:00 | 4/27/2009 0:00 |
| | | | | Validated: | 5/15/2009 | 5/15/2009 | 5/15/2009 | 5/15/2009 | 5/27/2009 | 5/27/2009 | 5/27/2009 |
| CAS NO. | COMPOUND | | | UNITS: | | | | | | | |
| | SEMIVOLATILES | | | | | | | | | | |
| 95-94-3 | 1,2,4,5-TETRACHLOROBENZENE | -- | -- | mg/Kg | | | | | | | |
| 58-90-2 | 2,3,4,6-TETRACHLOROPHENOL | -- | -- | mg/kg | | | | | | | |
| 88-06-2 | 2,4,6-TRICHLOROPHENOL | -- | -- | mg/kg | ND | ND | ND | ND | ND | ND | ND |
| 105-67-9 | 2,4-DIMETHYLPHENOL | -- | -- | mg/Kg | ND | ND | ND | ND | ND | 13 | ND |
| 91-57-6 | 2-METHYLNAPHTHALENE | -- | -- | mg/Kg | 1.1 J | ND | ND | 0.7 J | 6 | 400 | 0.092 J |
| 95-48-7 | 2-METHYLPHENOL (O-CRESOL) | 0.33 | 500 | mg/Kg | ND | ND | ND | ND | ND | **7.4** J | ND |
| MEPH3MEPH | 3- AND 4- METHYLPHENOL (TOTAL) | 0.33 | 500 | mg/Kg | ND | ND | ND | ND | ND | **15** | ND |
| 83-32-9 | ACENAPHTHENE | 20 | 500 | mg/Kg | 16 | ND | ND | 2.2 | 1 J | **82** | ND |
| 208-96-8 | ACENAPHTHYLENE | 100 | 500 | mg/Kg | 5.2 | ND | ND | ND | 3.1 | **110** | ND |
| 98-86-2 | ACETOPHENONE | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 120-12-7 | ANTHRACENE | 100 | 500 | mg/Kg | 8.9 | ND | ND | 1.5 J | 2.9 | **190** | ND |
| 100-52-7 | BENZALDEHYDE | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 56-55-3 | BENZO(A)ANTHRACENE | 1 | 5.6 | mg/Kg | **6.7** | ND | ND | **2** | **4.6** | **200** | ND |
| 50-32-8 | BENZO(A)PYRENE | 1 | 1 | mg/Kg | **9.3** | ND | ND | ND | **3.4** | **160** | ND |
| 205-99-2 | BENZO(B)FLUORANTHENE | 1 | 5.6 | mg/Kg | **8.8** | ND | ND | **3.7** | **3.3** | **160** | 0.042 J |
| 191-24-2 | BENZO(G,H,I)PERYLENE | 100 | 500 | mg/Kg | 3 J | ND | ND | 0.73 J | 1.5 J | 83 | ND |
| 207-08-9 | BENZO(K)FLUORANTHENE | 0.8 | 56 | mg/Kg | **2.8** J | ND | ND | 0.65 J | **1.1** | **43** | ND |
| 85-68-7 | BENZYL BUTYL PHTHALATE | -- | -- | mg/Kg | ND | 0.25 J | ND | ND | ND | ND | ND |
| 92-52-4 | BIPHENYL (DIPHENYL) | -- | -- | mg/Kg | 3.3 J | ND | ND | 0.26 J | 0.99 J | 500 | ND |
| 117-81-7 | BIS(2-ETHYLHEXYL) PHTHALATE | -- | -- | mg/Kg | ND | ND | ND | ND | ND | 1.1 J | ND |
| 105-60-2 | CAPROLACTAM | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 86-74-8 | CARBAZOLE | -- | -- | mg/Kg | ND | ND | ND | ND | ND | 40 | ND |
| 218-01-9 | CHRYSENE | 1 | 56 | mg/Kg | **7.4** | ND | ND | **7.3** | **4.5** | **170** | ND |
| 53-70-3 | DIBENZ(A,H)ANTHRACENE | 0.33 | 0.56 | mg/Kg | **0.7** J | ND | ND | 0.29 J | **0.34** J | **25** | ND |
| 132-64-9 | DIBENZOFURAN | 7 | 350 | mg/Kg | 1.3 J | ND | ND | 0.31 J | 0.31 J | **96** | ND |
| 84-66-2 | DIETHYL PHTHALATE | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 131-11-3 | DIMETHYL PHTHALATE | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 84-74-2 | DI-N-BUTYL PHTHALATE | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 117-84-0 | DI-N-OCTYLPHTHALATE | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 206-44-0 | FLUORANTHENE | 100 | 500 | mg/Kg | 11 | ND | ND | 7.8 | 6.9 | **270** | 0.045 J |
| 86-73-7 | FLUORENE | 30 | 500 | mg/Kg | 10 | ND | ND | 2.1 | 2.9 | **190** | ND |
| 193-39-5 | INDENO(1,2,3-C,D)PYRENE | 0.5 | 5.6 | mg/Kg | **1.7** J | ND | ND | 0.46 J | **0.82** J | **59** | ND |
| 86-30-6 | N-NITROSODIPHENYLAMINE | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 91-20-3 | NAPHTHALENE | 12 | 500 | mg/Kg | 8.5 | 0.061 J | ND | 3.5 | 11 | **680** | 0.23 J |
| 87-86-5 | PENTACHLOROPHENOL | 0.8 | 6.7 | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 85-01-8 | PHENANTHRENE | 100 | 500 | mg/Kg | 37 | ND | ND | 21 | 14 | **580** | 0.075 J |
| 108-95-2 | PHENOL | 0.33 | 500 | mg/Kg | ND | ND | ND | ND | ND | **6.6** J | ND |
| 129-00-0 | PYRENE | 100 | 500 | mg/Kg | 19 | ND | ND | 7.5 | 16 | **370** | 0.075 J |
| | **TOTAL SVOCS** | -- | -- | **mg/kg** | **161.7** | **0.311** | **ND** | **62** | **84.66** | **4451.1** | **0.559** |

Exceeds NYSDEC Part 375 Unrestricted Soil Criteria
Exceeds NYSDEC Commercial Soil Criteria
(1) NYSDEC 6 NYCRR Part 375 Environmental Remediation Program (December 2006)
(2) -- indicates no clean up objective or background level is available
(3) NA indicates compound was not analyzed for
(4) ND indicates compound was not detected
(5) J indicates an estimated concentration
(6) R indicates rejected data
(7) Grey shaded values exceed NYSDEC Part 375 Unrestricted Soil Criteria
(8) Orange shaded values exceed NYSDEC Part 375 Commercial Soil Criteria

Table 3
Farrington Street Former MGP Site
Summary of Soil Analytical Data
Consolidated Edison Company of New York

| Consolidated Edison<br>Farrington Street Remedial Investigation<br>2009-2015 Soil Analytical Data<br>Detected Compounds Only | | | | Location ID: | TP-11 | TP-12 | TP-12 | TP-12-1 | TP-13N | TP-13S | TP-14E |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Sample ID: | TP-11(7-8) | TP-12(2.5) | TP-12(5) | TP-12-1(3.5) | TP-13N(5.5) | TP-13S(4) | TP-14E(5.5) |
| | | | | Lab Sample Id | A2390-01 | A2477-01 | A2477-02 | A2477-04 | A2513-01 | A2513-03 | A2513-05 |
| | | | | Depth: | 7-8 ft | 2.5 ft | 5 ft | 3.5 ft | 5.5 ft | 4 ft | 5.5 ft |
| | | | | Source: | Chemtech | Chemtech | Chemtech | Chemtech | Chemtech | Chemtech | Chemtech |
| | | NYSDEC Part 375 Unrestricted Soil Criteria | NYSDEC Part 375 Commercial Soil Criteria | SDG: | A2390 | A2477 | A2477 | A2477 | A2513 | A2513 | A2513 |
| | | | | Matrix: | SOIL | SOIL | SOIL | SOIL | SOIL | SOIL | SOIL |
| | | | | Sampled: | 4/17/2009 0:00 | 4/22/2009 0:00 | 4/22/2009 0:00 | 4/22/2009 0:00 | 4/24/2009 0:00 | 4/24/2009 0:00 | 4/27/2009 0:00 |
| | | | | Validated: | 5/15/2009 | 5/15/2009 | 5/15/2009 | 5/15/2009 | 5/27/2009 | 5/27/2009 | 5/27/2009 |
| CAS NO. | COMPOUND | | | UNITS: | | | | | | | |
| | INORGANICS | | | | | | | | | | |
| 7429-90-5 | ALUMINUM | -- | -- | mg/Kg | 5920 | 6360 | 5030 | 8490 | 973 | 8200 | 5280 |
| 7440-36-0 | ANTIMONY | -- | -- | mg/Kg | 0.61 J | ND | ND | ND | 0.51 J | ND | 0.64 J |
| 7440-38-2 | ARSENIC | 13 | 16 | mg/Kg | 2.1 | 0.73 J | ND | 1.13 | 12.2 | 3.09 | **16.6** |
| 7440-39-3 | BARIUM | 350 | 400 | mg/Kg | 175 | 99.1 | 29.1 | **416** | 92.8 | 55 | 64.6 |
| 7440-41-7 | BERYLLIUM | 7.2 | 590 | mg/Kg | 0.34 | 0.47 | 0.25 | 0.77 | 0.24 J | 0.53 | 0.23 J |
| 7440-43-9 | CADMIUM | 2.5 | 9.3 | mg/Kg | 0.36 | 0.85 | 0.42 | 1.26 | 0.23 J | 0.15 J | 0.61 |
| 7440-70-2 | CALCIUM | -- | -- | mg/Kg | 2190 | 1430 | 507 | 5510 | 3820 | 1250 | 1310 |
| 7440-47-3 | CHROMIUM, TOTAL | 30 | 1500 | mg/Kg | 15 | 20.2 | 12.8 | 18.1 | 4.58 | 13 | 14.3 |
| 7440-48-4 | COBALT | -- | -- | mg/Kg | 5.73 | 8.01 | 5.48 | 13.3 | 1.84 | 6.18 | 3.22 |
| 7440-50-8 | COPPER | 50 | 270 | mg/Kg | 41.9 | 15.6 | 16.7 | 27.5 | 17.1 | 10.5 | 15.9 |
| 7439-89-6 | IRON | -- | -- | mg/Kg | 15400 | 18400 | 14600 | 17300 | 8300 | 16100 | 20800 |
| 7439-92-1 | LEAD | 63 | 1000 | mg/Kg | **328** | **136** | 4.27 | **76.6** | 45.1 | **104** | **302** |
| 7439-95-4 | MAGNESIUM | -- | -- | mg/Kg | 1950 | 2410 | 2990 | 3690 | 455 | 1590 | 1580 |
| 7439-96-5 | MANGANESE | 1600 | 10000 | mg/Kg | 169 | 255 | 169 | 371 | 24.5 | 130 | 79.7 |
| 7439-97-6 | MERCURY | 0.18 | 2.8 | mg/Kg | **1.5** J | 0.027 | 0.009 J | **0.604** | **1.4** | 0.06 | **0.315** |
| 7440-02-0 | NICKEL | 30 | 310 | mg/Kg | 17.2 | 15.4 | 27.3 | 26.9 | 4.82 | 9.45 | 8.27 |
| 7440-09-7 | POTASSIUM | -- | -- | mg/Kg | 926 | 1780 | 945 | 2400 | 198 | 375 | 581 |
| 7782-49-2 | SELENIUM | 3.9 | 1500 | mg/Kg | 1.84 | 2.71 | 1.9 | 2.87 | 1.79 | 0.83 | 3.16 |
| 7440-22-4 | SILVER | 2 | 1500 | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 7440-23-5 | SODIUM | -- | -- | mg/Kg | ND | 151 | 84.7 | 310 | 162 | 170 | 199 |
| 7440-28-0 | THALLIUM | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 7440-62-2 | VANADIUM | -- | -- | mg/Kg | 23.4 | 26.6 | 15.5 | 24 | 9.74 | 18.5 | 15.6 |
| 7440-66-6 | ZINC | 109 | 10000 | mg/Kg | 104 | 73.9 | 32.2 | **117** | 25.6 | 33.2 | **289** |
| 57-12-5 | CYANIDE | 27 | 27 | mg/Kg | ND | ND | ND | ND | ND | 1.11 | 1.33 |

Exceeds NYSDEC Part 375 Unrestricted Soil Criteria
Exceeds NYSDEC Commercial Soil Criteria

(1) NYSDEC 6 NYCRR Part 375 Environmental Remediation Program (December 2006)
(2) -- indicates no clean up objective or background level is available
(3) NA indicates compound was not analyzed for
(4) ND indicates compound was not detected
(5) J indicates an estimated concentration
(6) R indicates rejected data
(7) Grey shaded values exceed NYSDEC Part 375 Unrestricted Soil Criteria
(8) Orange shaded values exceed NYSDEC Part 375 Commercial Soil Criteria

Table 3
Farrington Street Former MGP Site
Summary of Soil Analytical Data
Consolidated Edison Company of New York

| Consolidated Edison<br>Farrington Street Remedial Investigation<br>2009-2015 Soil Analytical Data<br>Detected Compounds Only | | | | Location ID: | TP-14W | TP-15 | TP-15 | CMW-32 | CMW-32 | CMW-33 | CMW-33 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Sample ID: | TP-14W(5.5) | TP-15(2.8) | TP-15(5) | CMW-32(13-15) | CMW-32(39-41) | CMW-33(18-19) | CMW-33(41-43) |
| | | | | Lab Sample Id | A2513-04 | A2477-05 | A2477-06 | C3666-06 | C3666-07 | C3769-01 | C3769-02 |
| | | | | Depth: | 5.5 ft | 2.8 ft | 5 ft | 13 - 15 ft | 39 - 41 ft | 18 - 19 ft | 41 - 43 ft |
| | | | | Source: | Chemtech | Chemtech | Chemtech | CTECH | CTECH | CTECH | CTECH |
| | | NYSDEC Part 375 Unrestricted Soil Criteria | NYSDEC Part 375 Commercial Soil Criteria | SDG: | A2513 | A2477 | A2477 | C3666 | C3666 | C3769 | C3769 |
| | | | | Matrix: | SOIL | SOIL | SOIL | SOIL | SOIL | SOIL | SOIL |
| | | | | Sampled: | 4/27/2009 0:00 | 4/23/2009 0:00 | 4/23/2009 0:00 | 9/8/2011 2:35 | 9/9/2011 1:25 | 9/12/2011 10:30 | 9/13/2011 11:00 |
| | | | | Validated: | 5/27/2009 | 5/15/2009 | 5/15/2009 | 1/23/2012 | 1/23/2012 | 1/23/2012 | 1/23/2012 |
| CAS NO. | COMPOUND | | | UNITS: | | | | | | | |
| | VOLATILES | | | | | | | | | | |
| 79-34-5 | 1,1,2,2-TETRACHLOROETHANE | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 120-82-1 | 1,2,4-TRICHLOROBENZENE | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 95-50-1 | 1,2-DICHLOROBENZENE | 1.1 | 500 | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 541-73-1 | 1,3-DICHLOROBENZENE | 2.4 | 280 | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 106-46-7 | 1,4-DICHLOROBENZENE | 1.8 | 130 | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 591-78-6 | 2-HEXANONE | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 67-64-1 | ACETONE | 0.05 | 500 | mg/Kg | **0.22** | **0.44** | ND | ND | ND | ND | ND |
| 71-43-2 | BENZENE | 0.06 | 44 | mg/Kg | ND | ND | ND | **32** J | ND | ND | ND |
| 75-15-0 | CARBON DISULFIDE | -- | -- | mg/Kg | ND | 0.011 J | ND | ND | ND | ND | ND |
| 108-90-7 | CHLOROBENZENE | 1.1 | 500 | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 67-66-3 | CHLOROFORM | 0.37 | 350 | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 156-59-2 | CIS-1,2-DICHLOROETHYLENE | 0.25 | 500 | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 110-82-7 | CYCLOHEXANE | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 100-41-4 | ETHYLBENZENE | 1 | 390 | mg/Kg | ND | 0.063 | ND | **150** J | ND | ND | ND |
| 98-82-8 | ISOPROPYLBENZENE (CUMENE) | -- | -- | mg/Kg | ND | ND | ND | 33 J | ND | 0.13 J | ND |
| XYLMP | M,P-XYLENE (SUM OF ISOMERS) | 0.26 | 500 | mg/Kg | ND | 0.016 J | ND | **390** J | ND | ND | ND |
| 79-20-9 | METHYL ACETATE | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 78-93-3 | METHYL ETHYL KETONE (2-BUTANONE) | 0.12 | 500 | mg/Kg | 0.037 J | 0.094 J | ND | ND | ND | ND | ND |
| 108-10-1 | METHYL ISOBUTYL KETONE | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 108-87-2 | METHYLCYCLOHEXANE | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 75-09-2 | METHYLENE CHLORIDE | 0.05 | 500 | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 95-47-6 | O-XYLENE (1,2-DIMETHYLBENZENE) | 0.26 | 500 | mg/Kg | ND | 0.011 J | ND | **150** J | ND | ND | ND |
| 100-42-5 | STYRENE | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 1634-04-4 | TERT-BUTYL METHYL ETHER | 0.93 | 500 | mg/Kg | ND | ND | ND | ND | 0.0083 | ND | ND |
| 127-18-4 | TETRACHLOROETHYLENE(PCE) | 1.3 | 150 | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 108-88-3 | TOLUENE | 0.7 | 500 | mg/Kg | ND | 0.024 J | ND | **17** J | ND | ND | ND |
| 79-01-6 | TRICHLOROETHYLENE (TCE) | 0.47 | 200 | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 95-63-6 | 1,2,4-TRIMETHYLBENZENE | 3.6 | 190 | mg/kg | | | | | | | |
| 108-67-8 | 1,3,5-TRIMETHYLBENZENE (MESITYLENE) | 8.4 | 190 | mg/kg | | | | | | | |
| 103-65-1 | N-PROPYLBENZENE | 3.9 | 500 | mg/kg | | | | | | | |
| 135-98-8 | SEC-BUTYLBENZENE | 11 | 500 | mg/kg | | | | | | | |
| | **TOTAL VOCS** | **--** | **--** | **mg/Kg** | **0.257** | **0.659** | **ND** | **772** | **0.0083** | **0.13** | **ND** |

Exceeds NYSDEC Part 375 Unrestricted Soil Criteria
Exceeds NYSDEC Commercial Soil Criteria
(1) NYSDEC 6 NYCRR Part 375 Environmental Remediation Program (December 2006)
(2) -- indicates no clean up objective or background level is available
(3) NA indicates compound was not analyzed for
(4) ND indicates compound was not detected
(5) J indicates an estimated concentration; J+ indicated an estimated concentration biased high.
(6) R indicates rejected data
(7) Grey shaded values exceed NYSDEC Part 375 Unrestricted Soil Criteria
(8) Orange shaded values exceed NYSDEC Part 375 Commercial Soil Criteria

Table 3
Farrington Street Former MGP Site
Summary of Soil Analytical Data
Consolidated Edison Company of New York

| Consolidated Edison<br>Farrington Street Remedial Investigation<br>2009-2015 Soil Analytical Data<br>Detected Compounds Only | | | | Location ID: | TP-14W | TP-15 | TP-15 | CMW-32 | CMW-32 | CMW-33 | CMW-33 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Sample ID: | TP-14W(5.5) | TP-15(2.8) | TP-15(5) | CMW-32(13-15) | CMW-32(39-41) | CMW-33(18-19) | CMW-33(41-43) |
| | | | | Lab Sample Id | A2513-04 | A2477-05 | A2477-06 | C3666-06 | C3666-07 | C3769-01 | C3769-02 |
| | | | | Depth: | 5.5 ft | 2.8 ft | 5 ft | 13 - 15 ft | 39 - 41 ft | 18 - 19 ft | 41 - 43 ft |
| | | | | Source: | Chemtech | Chemtech | Chemtech | CTECH | CTECH | CTECH | CTECH |
| | | NYSDEC Part 375 Unrestricted Soil Criteria | NYSDEC Part 375 Commercial Soil Criteria | SDG: | A2513 | A2477 | A2477 | C3666 | C3666 | C3769 | C3769 |
| | | | | Matrix: | SOIL | SOIL | SOIL | SOIL | SOIL | SOIL | SOIL |
| | | | | Sampled: | 4/27/2009 0:00 | 4/23/2009 0:00 | 4/23/2009 0:00 | 9/8/2011 2:35 | 9/9/2011 1:25 | 9/12/2011 10:30 | 9/13/2011 11:00 |
| | | | | Validated: | 5/27/2009 | 5/15/2009 | 5/15/2009 | 1/23/2012 | 1/23/2012 | 1/23/2012 | 1/23/2012 |
| CAS NO. | COMPOUND | | | UNITS: | | | | | | | |
| | SEMIVOLATILES | | | | | | | | | | |
| 95-94-3 | 1,2,4,5-TETRACHLOROBENZENE | -- | -- | mg/Kg | | | | | | | |
| 58-90-2 | 2,3,4,6-TETRACHLOROPHENOL | -- | -- | mg/kg | | | | | | | |
| 88-06-2 | 2,4,6-TRICHLOROPHENOL | -- | -- | mg/kg | ND | ND | ND | ND | ND | ND | ND |
| 105-67-9 | 2,4-DIMETHYLPHENOL | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 91-57-6 | 2-METHYLNAPHTHALENE | -- | -- | mg/Kg | 4 | 0.23 J | ND | 1300 J | 0.057 J | 1 | ND |
| 95-48-7 | 2-METHYLPHENOL (O-CRESOL) | 0.33 | 500 | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| MEPH3MEPH | 3- AND 4- METHYLPHENOL (TOTAL) | 0.33 | 500 | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 83-32-9 | ACENAPHTHENE | 20 | 500 | mg/Kg | 0.18 J | 0.32 J | ND | **260** J | ND | 1.9 | ND |
| 208-96-8 | ACENAPHTHYLENE | 100 | 500 | mg/Kg | 0.4 | 1.4 J | 0.94 J | **550** J | ND | 0.14 J | ND |
| 98-86-2 | ACETOPHENONE | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 120-12-7 | ANTHRACENE | 100 | 500 | mg/Kg | 0.83 | 0.52 J | 1.6 J | **710** J | ND | 0.63 | ND |
| 100-52-7 | BENZALDEHYDE | -- | -- | mg/Kg | 0.063 J | ND | ND | ND | ND | ND | ND |
| 56-55-3 | BENZO(A)ANTHRACENE | 1 | 5.6 | mg/Kg | **1.5** | 0.7 J | **1.9** J | **510** J | ND | 0.44 | ND |
| 50-32-8 | BENZO(A)PYRENE | 1 | 1 | mg/Kg | **1.1** | 0.87 J | **2.8** | **280** J | ND | 0.31 J | ND |
| 205-99-2 | BENZO(B)FLUORANTHENE | 1 | 5.6 | mg/Kg | **1.3** | **1.6** J | **2.8** | **410** J | ND | 0.22 J | ND |
| 191-24-2 | BENZO(G,H,I)PERYLENE | 100 | 500 | mg/Kg | 0.64 | 0.93 J | 1.6 J | **110** J | ND | 0.11 J | ND |
| 207-08-9 | BENZO(K)FLUORANTHENE | 0.8 | 56 | mg/Kg | 0.5 | 0.45 J | 0.71 J | **100** J | ND | 0.1 J | ND |
| 85-68-7 | BENZYL BUTYL PHTHALATE | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 92-52-4 | BIPHENYL (DIPHENYL) | -- | -- | mg/Kg | 0.37 J | ND | ND | 200 J | ND | ND | ND |
| 117-81-7 | BIS(2-ETHYLHEXYL) PHTHALATE | -- | -- | mg/Kg | ND | ND | ND | ND | 0.13 J | 0.15 J | ND |
| 105-60-2 | CAPROLACTAM | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 86-74-8 | CARBAZOLE | -- | -- | mg/Kg | ND | ND | ND | 190 J | ND | ND | ND |
| 218-01-9 | CHRYSENE | 1 | 56 | mg/Kg | **1.5** | **1.3** J | **2.1** | **440** J | ND | 0.43 | ND |
| 53-70-3 | DIBENZ(A,H)ANTHRACENE | 0.33 | 0.56 | mg/Kg | 0.13 J | 0.23 J | **0.4** J | **44** J | ND | ND | ND |
| 132-64-9 | DIBENZOFURAN | 7 | 350 | mg/Kg | 0.16 J | ND | ND | **630** J | ND | 0.1 J | ND |
| 84-66-2 | DIETHYL PHTHALATE | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 131-11-3 | DIMETHYL PHTHALATE | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 84-74-2 | DI-N-BUTYL PHTHALATE | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 117-84-0 | DI-N-OCTYLPHTHALATE | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 206-44-0 | FLUORANTHENE | 100 | 500 | mg/Kg | 2.2 | 0.58 J | 1.3 J | **960** J | 0.05 J | 0.55 | ND |
| 86-73-7 | FLUORENE | 30 | 500 | mg/Kg | 0.86 | 0.24 J | 0.36 J | **830** J | ND | 0.71 | ND |
| 193-39-5 | INDENO(1,2,3-C,D)PYRENE | 0.5 | 5.6 | mg/Kg | 0.34 J | 0.47 J | **0.85** J | **140** J | ND | 0.088 J | ND |
| 86-30-6 | N-NITROSODIPHENYLAMINE | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 91-20-3 | NAPHTHALENE | 12 | 500 | mg/Kg | 6.1 | 0.47 J | ND | **3700** J | 0.14 J | 0.074 J | ND |
| 87-86-5 | PENTACHLOROPHENOL | 0.8 | 6.7 | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 85-01-8 | PHENANTHRENE | 100 | 500 | mg/Kg | 4.6 | 0.95 J | 0.64 J | **2000** J | 0.096 J | 2 | ND |
| 108-95-2 | PHENOL | 0.33 | 500 | mg/Kg | 0.076 J | ND | ND | ND | ND | ND | ND |
| 129-00-0 | PYRENE | 100 | 500 | mg/Kg | 4.9 | 1.6 J | 3.2 | **800** J | 0.058 J | 0.8 | ND |
| | **TOTAL SVOCS** | -- | -- | **mg/kg** | **31.749** | **12.86** | **21.2** | **14164** | **0.531** | **9.752** | **ND** |

Exceeds NYSDEC Part 375 Unrestricted Soil Criteria
Exceeds NYSDEC Commercial Soil Criteria
(1) NYSDEC 6 NYCRR Part 375 Environmental Remediation Program (December 2006)
(2) -- indicates no clean up objective or background level is available
(3) NA indicates compound was not analyzed for
(4) ND indicates compound was not detected
(5) J indicates an estimated concentration
(6) R indicates rejected data
(7) Grey shaded values exceed NYSDEC Part 375 Unrestricted Soil Criteria
(8) Orange shaded values exceed NYSDEC Part 375 Commercial Soil Criteria

Table 3
Farrington Street Former MGP Site
Summary of Soil Analytical Data
Consolidated Edison Company of New York

| Consolidated Edison<br>Farrington Street Remedial Investigation<br>2009-2015 Soil Analytical Data<br>Detected Compounds Only | | | | Location ID: | TP-14W | TP-15 | TP-15 | CMW-32 | CMW-32 | CMW-33 | CMW-33 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Sample ID: | TP-14W(5.5) | TP-15(2.8) | TP-15(5) | CMW-32(13-15) | CMW-32(39-41) | CMW-33(18-19) | CMW-33(41-43) |
| | | | | Lab Sample Id | A2513-04 | A2477-05 | A2477-06 | C3666-06 | C3666-07 | C3769-01 | C3769-02 |
| | | | | Depth: | 5.5 ft | 2.8 ft | 5 ft | 13 - 15 ft | 39 - 41 ft | 18 - 19 ft | 41 - 43 ft |
| | | | | Source: | Chemtech | Chemtech | Chemtech | CTECH | CTECH | CTECH | CTECH |
| | | NYSDEC Part 375 Unrestricted Soil Criteria | NYSDEC Part 375 Commercial Soil Criteria | SDG: | A2513 | A2477 | A2477 | C3666 | C3666 | C3769 | C3769 |
| | | | | Matrix: | SOIL | SOIL | SOIL | SOIL | SOIL | SOIL | SOIL |
| | | | | Sampled: | 4/27/2009 0:00 | 4/23/2009 0:00 | 4/23/2009 0:00 | 9/8/2011 2:35 | 9/9/2011 1:25 | 9/12/2011 10:30 | 9/13/2011 11:00 |
| | | | | Validated: | 5/27/2009 | 5/15/2009 | 5/15/2009 | 1/23/2012 | 1/23/2012 | 1/23/2012 | 1/23/2012 |
| CAS NO. | COMPOUND | | | UNITS: | | | | | | | |
| | INORGANICS | | | | | | | | | | |
| 7429-90-5 | ALUMINUM | -- | -- | mg/Kg | 4980 | 9670 | 6120 | 10200 J | 4250 | 4030 | 3000 |
| 7440-36-0 | ANTIMONY | -- | -- | mg/Kg | 0.55 J | 1.72 J | 0.6 J | 1.7 J | ND | ND | ND |
| 7440-38-2 | ARSENIC | 13 | 16 | mg/Kg | 12.3 | 8.51 | 2.63 | **27.6** J | 1.45 | 0.853 | 0.543 J |
| 7440-39-3 | BARIUM | 350 | 400 | mg/Kg | 48.3 | 93.5 | 57.2 | 111 J | 56.9 | 45 J | 29.4 J |
| 7440-41-7 | BERYLLIUM | 7.2 | 590 | mg/Kg | 0.25 | 0.51 | 0.34 | 0.747 J | 0.189 J | 0.136 J | 0.12 J |
| 7440-43-9 | CADMIUM | 2.5 | 9.3 | mg/Kg | 0.24 | 0.87 | 0.66 | 0.471 J | ND | 0.063 J | ND |
| 7440-70-2 | CALCIUM | -- | -- | mg/Kg | 2120 | 2310 | 1020 | 5740 J | 992 | 311 | 438 |
| 7440-47-3 | CHROMIUM, TOTAL | 30 | 1500 | mg/Kg | 15.9 | 23.6 | 17.3 | 23.3 J | 13.2 | 11.5 | 13.4 |
| 7440-48-4 | COBALT | -- | -- | mg/Kg | 2.21 | 5.06 | 5.86 | 21.9 J | 5.88 | 7.44 | 5.99 |
| 7440-50-8 | COPPER | 50 | 270 | mg/Kg | 12.5 | **140** | 37.8 | **96.3** J | 9.54 J | 10.1 | 6.77 |
| 7439-89-6 | IRON | -- | -- | mg/Kg | 24500 | 25600 | 19900 | 34700 J | 12500 | 13400 | 8320 |
| 7439-92-1 | LEAD | 63 | 1000 | mg/Kg | 19 | **186** | 49 | **273** J | 2.43 | 3.12 | 3.15 |
| 7439-95-4 | MAGNESIUM | -- | -- | mg/Kg | 2090 | 1780 | 2020 | 2910 J | 1820 | 1520 | 1190 |
| 7439-96-5 | MANGANESE | 1600 | 10000 | mg/Kg | 83.8 | 114 | 172 | 293 J | 369 | 115 | 205 |
| 7439-97-6 | MERCURY | 0.18 | 2.8 | mg/Kg | 0.077 | **0.481** | 0.158 | 0.028 J | ND | ND | ND |
| 7440-02-0 | NICKEL | 30 | 310 | mg/Kg | 4.41 | 13.3 | 13.3 | **31.2** J | 9.76 | 11.9 | 11.5 |
| 7440-09-7 | POTASSIUM | -- | -- | mg/Kg | 378 | 512 | 1300 | 1250 J | 1440 | 1680 J | 755 J |
| 7782-49-2 | SELENIUM | 3.9 | 1500 | mg/Kg | 0.92 | 3.66 | 2.68 | 0.84 J | ND | 0.375 J | ND |
| 7440-22-4 | SILVER | 2 | 1500 | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 7440-23-5 | SODIUM | -- | -- | mg/Kg | 184 | 185 | 181 | ND | ND | 192 J | 263 J |
| 7440-28-0 | THALLIUM | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 7440-62-2 | VANADIUM | -- | -- | mg/Kg | 17.5 | 30.1 | 24.4 | 28.7 J | 19.2 | 14.8 | 11.2 |
| 7440-66-6 | ZINC | 109 | 10000 | mg/Kg | 18.6 | 64.1 | 47.5 | **218** J | 22.4 | 25 | 17.7 |
| 57-12-5 | CYANIDE | 27 | 27 | mg/Kg | ND | 3.72 | 2.36 | 14 J | 0.098 J | 0.057 J | ND |

Exceeds NYSDEC Part 375 Unrestricted Soil Criteria
Exceeds NYSDEC Commercial Soil Criteria

(1) NYSDEC 6 NYCRR Part 375 Environmental Remediation Program (December 2006)
(2) -- indicates no clean up objective or background level is available
(3) NA indicates compound was not analyzed for
(4) ND indicates compound was not detected
(5) J indicates an estimated concentration
(6) R indicates rejected data
(7) Grey shaded values exceed NYSDEC Part 375 Unrestricted Soil Criteria
(8) Orange shaded values exceed NYSDEC Part 375 Commercial Soil Criteria

Table 3
Farrington Street Former MGP Site
Summary of Soil Analytical Data
Consolidated Edison Company of New York

| Consolidated Edison<br>Farrington Street Remedial Investigation<br>2009-2015 Soil Analytical Data<br>Detected Compounds Only | | | | Location ID: | CMW-35 | CMW-35 | CMW-36 | CMW-36 | CMW-37 | CMW-37 | CMW-38 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Sample ID: | CMW-35(9-11) | CMW-35(31-33) | CMW-36(12-14) | CMW-36(24-26) | CMW-37(15-17) | CMW-37(39-41) | CMW-38(13-15) |
| | | | | Lab Sample Id | C3769-03 | C3769-04 | C3816-05 | C3816-06 | C3769-11 | C3769-12 | C3954-16 |
| | | | | Depth: | 9 - 11 ft | 31 - 33 ft | 12 - 14 ft | 24 - 26 ft | 15 - 17 ft | 39 - 41 ft | 13 - 15 ft |
| | | | | Source: | CTECH | CTECH | CTECH | CTECH | CTECH | CTECH | CTECH |
| | | NYSDEC Part 375 Unrestricted Soil Criteria | NYSDEC Part 375 Commercial Soil Criteria | SDG: | C3769 | C3769 | C3816 | C3816 | C3769 | C3769 | C3954 |
| | | | | Matrix: | SOIL | SOIL | SOIL | SOIL | SOIL | SOIL | SOIL |
| | | | | Sampled: | 9/14/2011 9:55 | 9/15/2011 10:55 | 9/23/2011 9:40 | 9/23/2011 11:10 | 9/19/2011 10:40 | 9/19/2011 2:40 | 9/27/2011 10:40 |
| | | | | Validated: | 1/23/2012 | 1/23/2012 | 1/23/2012 | 1/23/2012 | 1/23/2012 | 1/23/2012 | 1/23/2012 |
| CAS NO. | COMPOUND | | | UNITS: | | | | | | | |
| | VOLATILES | | | | | | | | | | |
| 79-34-5 | 1,1,2,2-TETRACHLOROETHANE | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 120-82-1 | 1,2,4-TRICHLOROBENZENE | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 95-50-1 | 1,2-DICHLOROBENZENE | 1.1 | 500 | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 541-73-1 | 1,3-DICHLOROBENZENE | 2.4 | 280 | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 106-46-7 | 1,4-DICHLOROBENZENE | 1.8 | 130 | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 591-78-6 | 2-HEXANONE | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 67-64-1 | ACETONE | 0.05 | 500 | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 71-43-2 | BENZENE | 0.06 | 44 | mg/Kg | ND | ND | ND | ND | 0.0019 J | ND | **3.5** J |
| 75-15-0 | CARBON DISULFIDE | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 108-90-7 | CHLOROBENZENE | 1.1 | 500 | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 67-66-3 | CHLOROFORM | 0.37 | 350 | mg/Kg | ND | ND | ND | ND | ND | 0.0018 J | ND |
| 156-59-2 | CIS-1,2-DICHLOROETHYLENE | 0.25 | 500 | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 110-82-7 | CYCLOHEXANE | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 100-41-4 | ETHYLBENZENE | 1 | 390 | mg/Kg | ND | ND | ND | ND | 0.0031 J | ND | **21** |
| 98-82-8 | ISOPROPYLBENZENE (CUMENE) | -- | -- | mg/Kg | ND | ND | ND | ND | 0.0047 J | ND | 2.7 J |
| XYLMP | M,P-XYLENE (SUM OF ISOMERS) | 0.26 | 500 | mg/Kg | ND | ND | ND | ND | 0.065 | ND | ND |
| 79-20-9 | METHYL ACETATE | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 78-93-3 | METHYL ETHYL KETONE (2-BUTANONE) | 0.12 | 500 | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 108-10-1 | METHYL ISOBUTYL KETONE | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 108-87-2 | METHYLCYCLOHEXANE | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 75-09-2 | METHYLENE CHLORIDE | 0.05 | 500 | mg/Kg | ND | 0.0047 J | ND | ND | ND | ND | ND |
| 95-47-6 | O-XYLENE (1,2-DIMETHYLBENZENE) | 0.26 | 500 | mg/Kg | ND | ND | ND | ND | 0.056 | ND | **3.8** J |
| 100-42-5 | STYRENE | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 1634-04-4 | TERT-BUTYL METHYL ETHER | 0.93 | 500 | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 127-18-4 | TETRACHLOROETHYLENE(PCE) | 1.3 | 150 | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 108-88-3 | TOLUENE | 0.7 | 500 | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 79-01-6 | TRICHLOROETHYLENE (TCE) | 0.47 | 200 | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 95-63-6 | 1,2,4-TRIMETHYLBENZENE | 3.6 | 190 | mg/kg | | | | | | | |
| 108-67-8 | 1,3,5-TRIMETHYLBENZENE (MESITYLENE) | 8.4 | 190 | mg/kg | | | | | | | |
| 103-65-1 | N-PROPYLBENZENE | 3.9 | 500 | mg/kg | | | | | | | |
| 135-98-8 | SEC-BUTYLBENZENE | 11 | 500 | mg/kg | | | | | | | |
| | **TOTAL VOCS** | **--** | **--** | **mg/Kg** | **ND** | **0.0047** | **ND** | **ND** | **0.1307** | **0.0018** | **31** |

Exceeds NYSDEC Part 375 Unrestricted Soil Criteria
Exceeds NYSDEC Commercial Soil Criteria
(1) NYSDEC 6 NYCRR Part 375 Environmental Remediation Program (December 2006)
(2) -- indicates no clean up objective or background level is available
(3) NA indicates compound was not analyzed for
(4) ND indicates compound was not detected
(5) J indicates an estimated concentration; J+ indicated an estimated concentration biased high.
(6) R indicates rejected data
(7) Grey shaded values exceed NYSDEC Part 375 Unrestricted Soil Criteria
(8) Orange shaded values exceed NYSDEC Part 375 Commercial Soil Criteria

Table 3
Farrington Street Former MGP Site
Summary of Soil Analytical Data
Consolidated Edison Company of New York

| Consolidated Edison<br>Farrington Street Remedial Investigation<br>2009-2015 Soil Analytical Data<br>Detected Compounds Only | | | | Location ID:<br>Sample ID:<br>Lab Sample Id<br>Depth:<br>Source:<br>SDG:<br>Matrix:<br>Sampled:<br>Validated: | CMW-35<br>CMW-35(9-11)<br>C3769-03<br>9 - 11 ft<br>CTECH<br>C3769<br>SOIL<br>9/14/2011 9:55<br>1/23/2012 | CMW-35<br>CMW-35(31-33)<br>C3769-04<br>31 - 33 ft<br>CTECH<br>C3769<br>SOIL<br>9/15/2011 10:55<br>1/23/2012 | CMW-36<br>CMW-36(12-14)<br>C3816-05<br>12 - 14 ft<br>CTECH<br>C3816<br>SOIL<br>9/23/2011 9:40<br>1/23/2012 | CMW-36<br>CMW-36(24-26)<br>C3816-06<br>24 - 26 ft<br>CTECH<br>C3816<br>SOIL<br>9/23/2011 11:10<br>1/23/2012 | CMW-37<br>CMW-37(15-17)<br>C3769-11<br>15 - 17 ft<br>CTECH<br>C3769<br>SOIL<br>9/19/2011 10:40<br>1/23/2012 | CMW-37<br>CMW-37(39-41)<br>C3769-12<br>39 - 41 ft<br>CTECH<br>C3769<br>SOIL<br>9/19/2011 2:40<br>1/23/2012 | CMW-38<br>CMW-38(13-15)<br>C3954-16<br>13 - 15 ft<br>CTECH<br>C3954<br>SOIL<br>9/27/2011 10:40<br>1/23/2012 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| CAS NO. | COMPOUND | NYSDEC Part 375 Unrestricted Soil Criteria | NYSDEC Part 375 Commercial Soil Criteria | UNITS: | | | | | | | |
| | SEMIVOLATILES | | | | | | | | | | |
| 95-94-3 | 1,2,4,5-TETRACHLOROBENZENE | -- | -- | mg/Kg | | | | | | | |
| 58-90-2 | 2,3,4,6-TETRACHLOROPHENOL | -- | -- | mg/kg | | | | | | | |
| 88-06-2 | 2,4,6-TRICHLOROPHENOL | -- | -- | mg/kg | ND | ND | ND | ND | ND | ND | ND |
| 105-67-9 | 2,4-DIMETHYLPHENOL | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 91-57-6 | 2-METHYLNAPHTHALENE | -- | -- | mg/Kg | 0.75 | ND | ND | ND | ND | ND | 460 |
| 95-48-7 | 2-METHYLPHENOL (O-CRESOL) | 0.33 | 500 | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| MEPH3MEPH | 3- AND 4- METHYLPHENOL (TOTAL) | 0.33 | 500 | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 83-32-9 | ACENAPHTHENE | 20 | 500 | mg/Kg | 10 | ND | ND | ND | ND | ND | **130** |
| 208-96-8 | ACENAPHTHYLENE | 100 | 500 | mg/Kg | 0.72 | ND | ND | ND | ND | ND | 7.7 |
| 98-86-2 | ACETOPHENONE | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 120-12-7 | ANTHRACENE | 100 | 500 | mg/Kg | 4.3 | ND | ND | ND | ND | ND | 52 |
| 100-52-7 | BENZALDEHYDE | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | 3.3 |
| 56-55-3 | BENZO(A)ANTHRACENE | 1 | 5.6 | mg/Kg | **5.7** | ND | ND | ND | ND | ND | **27** |
| 50-32-8 | BENZO(A)PYRENE | 1 | 1 | mg/Kg | **3.5** | ND | ND | ND | ND | ND | **16** |
| 205-99-2 | BENZO(B)FLUORANTHENE | 1 | 5.6 | mg/Kg | **3** | ND | ND | ND | ND | ND | **11** J |
| 191-24-2 | BENZO(G,H,I)PERYLENE | 100 | 500 | mg/Kg | 1.6 | ND | ND | ND | ND | ND | 6.8 |
| 207-08-9 | BENZO(K)FLUORANTHENE | 0.8 | 56 | mg/Kg | **0.83** | ND | ND | ND | ND | ND | **3.2** |
| 85-68-7 | BENZYL BUTYL PHTHALATE | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 92-52-4 | BIPHENYL (DIPHENYL) | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | 26 |
| 117-81-7 | BIS(2-ETHYLHEXYL) PHTHALATE | -- | -- | mg/Kg | 0.14 J | ND | 0.31 J | ND | ND | ND | ND |
| 105-60-2 | CAPROLACTAM | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 86-74-8 | CARBAZOLE | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 218-01-9 | CHRYSENE | 1 | 56 | mg/Kg | **5.1** | ND | ND | ND | ND | ND | **25** |
| 53-70-3 | DIBENZ(A,H)ANTHRACENE | 0.33 | 0.56 | mg/Kg | **0.39** | ND | ND | ND | ND | ND | **1.6** |
| 132-64-9 | DIBENZOFURAN | 7 | 350 | mg/Kg | 0.75 | ND | ND | ND | ND | ND | 5.7 |
| 84-66-2 | DIETHYL PHTHALATE | -- | -- | mg/Kg | ND | ND | 0.082 J | ND | ND | ND | ND |
| 131-11-3 | DIMETHYL PHTHALATE | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 84-74-2 | DI-N-BUTYL PHTHALATE | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 117-84-0 | DI-N-OCTYLPHTHALATE | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 206-44-0 | FLUORANTHENE | 100 | 500 | mg/Kg | 9.6 | ND | ND | ND | ND | ND | 44 |
| 86-73-7 | FLUORENE | 30 | 500 | mg/Kg | 3 | ND | ND | ND | ND | ND | **59** |
| 193-39-5 | INDENO(1,2,3-C,D)PYRENE | 0.5 | 5.6 | mg/Kg | **1.5** | ND | ND | ND | ND | ND | **6.7** |
| 86-30-6 | N-NITROSODIPHENYLAMINE | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 91-20-3 | NAPHTHALENE | 12 | 500 | mg/Kg | 0.58 | ND | ND | ND | 0.067 J | ND | **570** |
| 87-86-5 | PENTACHLOROPHENOL | 0.8 | 6.7 | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 85-01-8 | PHENANTHRENE | 100 | 500 | mg/Kg | 9.4 | ND | ND | ND | ND | ND | **170** |
| 108-95-2 | PHENOL | 0.33 | 500 | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 129-00-0 | PYRENE | 100 | 500 | mg/Kg | 13 | ND | ND | ND | ND | ND | 71 |
| | **TOTAL SVOCS** | -- | -- | **mg/kg** | **73.86** | **ND** | **0.392** | **ND** | **0.067** | **ND** | **1696** |

Exceeds NYSDEC Part 375 Unrestricted Soil Criteria
Exceeds NYSDEC Commercial Soil Criteria
(1) NYSDEC 6 NYCRR Part 375 Environmental Remediation Program (December 2006)
(2) -- indicates no clean up objective or background level is available
(3) NA indicates compound was not analyzed for
(4) ND indicates compound was not detected
(5) J indicates an estimated concentration
(6) R indicates rejected data
(7) Grey shaded values exceed NYSDEC Part 375 Unrestricted Soil Criteria
(8) Orange shaded values exceed NYSDEC Part 375 Commercial Soil Criteria

Table 3
Farrington Street Former MGP Site
Summary of Soil Analytical Data
Consolidated Edison Company of New York

| Consolidated Edison<br>Farrington Street Remedial Investigation<br>2009-2015 Soil Analytical Data<br>Detected Compounds Only | | | | Location ID: | CMW-35 | CMW-35 | CMW-36 | CMW-36 | CMW-37 | CMW-37 | CMW-38 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Sample ID: | CMW-35(9-11) | CMW-35(31-33) | CMW-36(12-14) | CMW-36(24-26) | CMW-37(15-17) | CMW-37(39-41) | CMW-38(13-15) |
| | | | | Lab Sample Id | C3769-03 | C3769-04 | C3816-05 | C3816-06 | C3769-11 | C3769-12 | C3954-16 |
| | | | | Depth: | 9 - 11 ft | 31 - 33 ft | 12 - 14 ft | 24 - 26 ft | 15 - 17 ft | 39 - 41 ft | 13 - 15 ft |
| | | | | Source: | CTECH | CTECH | CTECH | CTECH | CTECH | CTECH | CTECH |
| | | NYSDEC Part 375 Unrestricted Soil Criteria | NYSDEC Part 375 Commercial Soil Criteria | SDG: | C3769 | C3769 | C3816 | C3816 | C3769 | C3769 | C3954 |
| | | | | Matrix: | SOIL | SOIL | SOIL | SOIL | SOIL | SOIL | SOIL |
| | | | | Sampled: | 9/14/2011 9:55 | 9/15/2011 10:55 | 9/23/2011 9:40 | 9/23/2011 11:10 | 9/19/2011 10:40 | 9/19/2011 2:40 | 9/27/2011 10:40 |
| | | | | Validated: | 1/23/2012 | 1/23/2012 | 1/23/2012 | 1/23/2012 | 1/23/2012 | 1/23/2012 | 1/23/2012 |
| CAS NO. | COMPOUND | | | UNITS: | | | | | | | |
| | INORGANICS | | | | | | | | | | |
| 7429-90-5 | ALUMINUM | -- | -- | mg/Kg | 4260 | 11100 | 4140 | 4180 | 10900 | 1580 | 5240 |
| 7440-36-0 | ANTIMONY | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 7440-38-2 | ARSENIC | 13 | 16 | mg/Kg | 1.38 | 1.84 | 1.03 J | 3.52 | 3.91 | 0.752 J | ND |
| 7440-39-3 | BARIUM | 350 | 400 | mg/Kg | 23.3 J | 136 J | 45.7 | 50.1 | 30.2 J | 12.8 J | 79.6 J |
| 7440-41-7 | BERYLLIUM | 7.2 | 590 | mg/Kg | 0.179 J | 0.351 | 0.183 J | 0.134 J | 0.469 | 0.12 J | 0.1 J |
| 7440-43-9 | CADMIUM | 2.5 | 9.3 | mg/Kg | ND | 0.083 J | 0.695 | 1.24 | 0.141 J | ND | ND |
| 7440-70-2 | CALCIUM | -- | -- | mg/Kg | 446 | 1860 | 1180 | 1130 | 494 | 324 | 767 J |
| 7440-47-3 | CHROMIUM, TOTAL | 30 | 1500 | mg/Kg | 9.07 | **36.4** | 13.3 J | **37.1** J | 17.4 | 5.51 | 15 J |
| 7440-48-4 | COBALT | -- | -- | mg/Kg | 5.03 | 13.5 | 5.65 | 6.72 | 5.06 | 2.43 | 6.29 |
| 7440-50-8 | COPPER | 50 | 270 | mg/Kg | 14.1 | 19.5 | 11.8 J | 38.7 J | 9.48 | 3.48 | 12.4 |
| 7439-89-6 | IRON | -- | -- | mg/Kg | 10200 | 23000 | 12800 | 23600 | 17000 | 5660 | 13100 |
| 7439-92-1 | LEAD | 63 | 1000 | mg/Kg | 5.27 | 6.36 | 2.93 | 2.13 | 39.2 | 2.94 | 2.07 |
| 7439-95-4 | MAGNESIUM | -- | -- | mg/Kg | 1250 | 5930 | 1580 | 1880 | 2140 | 591 | 2290 |
| 7439-96-5 | MANGANESE | 1600 | 10000 | mg/Kg | 78.8 | 255 | 160 | 261 | 84.4 | 46.4 | 475 |
| 7439-97-6 | MERCURY | 0.18 | 2.8 | mg/Kg | ND | ND | ND | ND | 0.049 | ND | ND |
| 7440-02-0 | NICKEL | 30 | 310 | mg/Kg | 8.97 | **36.2** | 9.54 | **30.2** | 13.4 | 4.02 | 15 |
| 7440-09-7 | POTASSIUM | -- | -- | mg/Kg | 824 J | 5590 J | 1740 | 1870 | 733 J | 435 J | 3160 J |
| 7782-49-2 | SELENIUM | 3.9 | 1500 | mg/Kg | ND | ND | ND | 0.857 J | 1.09 | ND | ND |
| 7440-22-4 | SILVER | 2 | 1500 | mg/Kg | ND | ND | ND | ND | ND | ND | 0.26 J |
| 7440-23-5 | SODIUM | -- | -- | mg/Kg | 324 J | 1460 J | 261 J | 231 J | 578 J | 284 J | 167 |
| 7440-28-0 | THALLIUM | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 7440-62-2 | VANADIUM | -- | -- | mg/Kg | 12.7 | 38 | 19.7 | 19.5 | 22.9 | 7.94 | 18.3 |
| 7440-66-6 | ZINC | 109 | 10000 | mg/Kg | 20.2 | 56.6 | 24.1 | 24.1 | 78.7 | 12.5 | 29.8 |
| 57-12-5 | CYANIDE | 27 | 27 | mg/Kg | ND | 0.088 J | ND | ND | 0.452 J | 0.042 J | 0.05 J |

Exceeds NYSDEC Part 375 Unrestricted Soil Criteria
Exceeds NYSDEC Commercial Soil Criteria

(1) NYSDEC 6 NYCRR Part 375 Environmental Remediation Program (December 2006)
(2) -- indicates no clean up objective or background level is available
(3) NA indicates compound was not analyzed for
(4) ND indicates compound was not detected
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(7) Grey shaded values exceed NYSDEC Part 375 Unrestricted Soil Criteria
(8) Orange shaded values exceed NYSDEC Part 375 Commercial Soil Criteria

Table 3
Farrington Street Former MGP Site
Summary of Soil Analytical Data
Consolidated Edison Company of New York

| Consolidated Edison<br>Farrington Street Remedial Investigation<br>2009-2015 Soil Analytical Data<br>Detected Compounds Only | | | | Location ID: | CMW-38 | CMW-39 | CMW-39 | CMW-40 | CMW-40 | CSB-48 | CSB-48 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Sample ID: | CMW-38(39-41) | CMW-39(22-24) | CMW-39(40-42) | CMW-40(36-38) | CMW-40(40-42) | CSB-48(15-17) | CSB-48(17-19) |
| | | | | Lab Sample Id | C3954-17 | C4297-03 | C4297-04 | C4297-01 | C4297-02 | F1028-05 | F1028-09 |
| | | | | Depth: | 39 - 41 ft | 22 - 24 ft | 40 - 42 ft | 36 - 38 ft | 40 - 42 ft | 15 - 17 ft | 17 - 19 ft |
| | | | | Source: | CTECH | CTECH | CTECH | CTECH | CTECH | CTECH | CTECH |
| | | NYSDEC Part 375 Unrestricted Soil Criteria | NYSDEC Part 375 Commercial Soil Criteria | SDG: | C3954 | C4297 | C4297 | C4297 | C4297 | F1028 | F1028 |
| | | | | Matrix: | SOIL | SOIL | SOIL | SOIL | SOIL | SOIL | SOIL |
| | | | | Sampled: | 9/27/2011 2:20 | 10/20/2011 12:26 | 10/20/2011 2:30 | 10/17/2011 1:18 | 10/17/2011 1:40 | 1/7/2014 9:50 | 1/7/2014 10:25 |
| | | | | Validated: | 1/23/2012 | 1/23/2012 | 1/23/2012 | 1/23/2012 | 1/23/2012 | 5/21/2014 | 5/21/2014 |
| CAS NO. | COMPOUND | | | UNITS: | | | | | | | |
| | VOLATILES | | | | | | | | | | |
| 79-34-5 | 1,1,2,2-TETRACHLOROETHANE | -- | -- | mg/Kg | ND | 0.05 | 0.003 J | ND | 0.0075 | ND | ND |
| 120-82-1 | 1,2,4-TRICHLOROBENZENE | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 95-50-1 | 1,2-DICHLOROBENZENE | 1.1 | 500 | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 541-73-1 | 1,3-DICHLOROBENZENE | 2.4 | 280 | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 106-46-7 | 1,4-DICHLOROBENZENE | 1.8 | 130 | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 591-78-6 | 2-HEXANONE | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 67-64-1 | ACETONE | 0.05 | 500 | mg/Kg | R | ND | ND | ND | ND | ND | ND |
| 71-43-2 | BENZENE | 0.06 | 44 | mg/Kg | 0.0028 J | ND | ND | ND | ND | **176.5** | **104.2** J |
| 75-15-0 | CARBON DISULFIDE | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 108-90-7 | CHLOROBENZENE | 1.1 | 500 | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 67-66-3 | CHLOROFORM | 0.37 | 350 | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 156-59-2 | CIS-1,2-DICHLOROETHYLENE | 0.25 | 500 | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 110-82-7 | CYCLOHEXANE | -- | -- | mg/Kg | ND | ND | ND | ND | ND | 0.17 J | ND |
| 100-41-4 | ETHYLBENZENE | 1 | 390 | mg/Kg | 0.0029 J | ND | ND | ND | ND | **500.2** | **72.5** J |
| 98-82-8 | ISOPROPYLBENZENE (CUMENE) | -- | -- | mg/Kg | ND | ND | ND | ND | ND | 89.6 | 2.8 J |
| XYLMP | M,P-XYLENE (SUM OF ISOMERS) | 0.26 | 500 | mg/Kg | ND | ND | ND | ND | ND | **320.2** | **108** J |
| 79-20-9 | METHYL ACETATE | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 78-93-3 | METHYL ETHYL KETONE (2-BUTANONE) | 0.12 | 500 | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 108-10-1 | METHYL ISOBUTYL KETONE | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 108-87-2 | METHYLCYCLOHEXANE | -- | -- | mg/Kg | ND | ND | ND | ND | ND | 0.67 | ND |
| 75-09-2 | METHYLENE CHLORIDE | 0.05 | 500 | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 95-47-6 | O-XYLENE (1,2-DIMETHYLBENZENE) | 0.26 | 500 | mg/Kg | ND | ND | ND | ND | ND | **31.6** | **38.4** J |
| 100-42-5 | STYRENE | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 1634-04-4 | TERT-BUTYL METHYL ETHER | 0.93 | 500 | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 127-18-4 | TETRACHLOROETHYLENE(PCE) | 1.3 | 150 | mg/Kg | 0.02 | ND | ND | ND | ND | ND | ND |
| 108-88-3 | TOLUENE | 0.7 | 500 | mg/Kg | ND | ND | ND | ND | ND | **3.8** | **1.3** J |
| 79-01-6 | TRICHLOROETHYLENE (TCE) | 0.47 | 200 | mg/Kg | ND | 0.01 | ND | ND | ND | ND | ND |
| 95-63-6 | 1,2,4-TRIMETHYLBENZENE | 3.6 | 190 | mg/kg | | | | | | | |
| 108-67-8 | 1,3,5-TRIMETHYLBENZENE (MESITYLENE) | 8.4 | 190 | mg/kg | | | | | | | |
| 103-65-1 | N-PROPYLBENZENE | 3.9 | 500 | mg/kg | | | | | | | |
| 135-98-8 | SEC-BUTYLBENZENE | 11 | 500 | mg/kg | | | | | | | |
| | **TOTAL VOCS** | **--** | **--** | **mg/Kg** | **0.0257** | **0.06** | **0.003** | **ND** | **0.0075** | **1122.74** | **327.2** |

Exceeds NYSDEC Part 375 Unrestricted Soil Criteria
Exceeds NYSDEC Commercial Soil Criteria
(1) NYSDEC 6 NYCRR Part 375 Environmental Remediation Program (December 2006)
(2) -- indicates no clean up objective or background level is available
(3) NA indicates compound was not analyzed for
(4) ND indicates compound was not detected
(5) J indicates an estimated concentration; J+ indicated an estimated concentration biased high.
(6) R indicates rejected data
(7) Grey shaded values exceed NYSDEC Part 375 Unrestricted Soil Criteria
(8) Orange shaded values exceed NYSDEC Part 375 Commercial Soil Criteria

Table 3
Farrington Street Former MGP Site
Summary of Soil Analytical Data
Consolidated Edison Company of New York

| Consolidated Edison<br>Farrington Street Remedial Investigation<br>2009-2015 Soil Analytical Data<br>Detected Compounds Only | | | | Location ID: | CMW-38 | CMW-39 | CMW-39 | CMW-40 | CMW-40 | CSB-48 | CSB-48 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Sample ID: | CMW-38(39-41) | CMW-39(22-24) | CMW-39(40-42) | CMW-40(36-38) | CMW-40(40-42) | CSB-48(15-17) | CSB-48(17-19) |
| | | | | Lab Sample Id | C3954-17 | C4297-03 | C4297-04 | C4297-01 | C4297-02 | F1028-05 | F1028-09 |
| | | | | Depth: | 39 - 41 ft | 22 - 24 ft | 40 - 42 ft | 36 - 38 ft | 40 - 42 ft | 15 - 17 ft | 17 - 19 ft |
| | | | | Source: | CTECH | CTECH | CTECH | CTECH | CTECH | CTECH | CTECH |
| | | NYSDEC Part 375 Unrestricted Soil Criteria | NYSDEC Part 375 Commercial Soil Criteria | SDG: | C3954 | C4297 | C4297 | C4297 | C4297 | F1028 | F1028 |
| | | | | Matrix: | SOIL | SOIL | SOIL | SOIL | SOIL | SOIL | SOIL |
| | | | | Sampled: | 9/27/2011 2:20 | 10/20/2011 12:26 | 10/20/2011 2:30 | 10/17/2011 1:18 | 10/17/2011 1:40 | 1/7/2014 9:50 | 1/7/2014 10:25 |
| | | | | Validated: | 1/23/2012 | 1/23/2012 | 1/23/2012 | 1/23/2012 | 1/23/2012 | 5/21/2014 | 5/21/2014 |
| CAS NO. | COMPOUND | | | UNITS: | | | | | | | |
| | SEMIVOLATILES | | | | | | | | | | |
| 95-94-3 | 1,2,4,5-TETRACHLOROBENZENE | -- | -- | mg/Kg | | | | | | ND | ND |
| 58-90-2 | 2,3,4,6-TETRACHLOROPHENOL | -- | -- | mg/kg | | | | | | ND | ND |
| 88-06-2 | 2,4,6-TRICHLOROPHENOL | -- | -- | mg/kg | ND | ND | ND | ND | ND | ND | ND |
| 105-67-9 | 2,4-DIMETHYLPHENOL | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 91-57-6 | 2-METHYLNAPHTHALENE | -- | -- | mg/Kg | ND | ND | ND | ND | ND | 1853.4 | 63.3 J |
| 95-48-7 | 2-METHYLPHENOL (O-CRESOL) | 0.33 | 500 | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| MEPH3MEPH | 3- AND 4- METHYLPHENOL (TOTAL) | 0.33 | 500 | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 83-32-9 | ACENAPHTHENE | 20 | 500 | mg/Kg | ND | ND | ND | ND | ND | **432.1** J | 15.4 J |
| 208-96-8 | ACENAPHTHYLENE | 100 | 500 | mg/Kg | ND | ND | ND | ND | ND | 54.2 | 3.6 J |
| 98-86-2 | ACETOPHENONE | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 120-12-7 | ANTHRACENE | 100 | 500 | mg/Kg | ND | ND | ND | ND | ND | **172.3** | 10.7 J |
| 100-52-7 | BENZALDEHYDE | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 56-55-3 | BENZO(A)ANTHRACENE | 1 | 5.6 | mg/Kg | ND | ND | ND | ND | ND | **86.3** | **5.4** J |
| 50-32-8 | BENZO(A)PYRENE | 1 | 1 | mg/Kg | ND | ND | ND | ND | ND | **51.7** | **3.3** J |
| 205-99-2 | BENZO(B)FLUORANTHENE | 1 | 5.6 | mg/Kg | ND | ND | ND | ND | ND | **46.9** | **3** J |
| 191-24-2 | BENZO(G,H,I)PERYLENE | 100 | 500 | mg/Kg | ND | ND | ND | ND | ND | 17.2 J+ | 0.94 J |
| 207-08-9 | BENZO(K)FLUORANTHENE | 0.8 | 56 | mg/Kg | ND | ND | ND | ND | ND | **15** J+ | 0.67 J |
| 85-68-7 | BENZYL BUTYL PHTHALATE | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 92-52-4 | BIPHENYL (DIPHENYL) | -- | -- | mg/Kg | ND | ND | ND | ND | ND | 85 | 4.4 J |
| 117-81-7 | BIS(2-ETHYLHEXYL) PHTHALATE | -- | -- | mg/Kg | ND | 0.26 J | 0.28 J | 0.34 J | 0.18 J | ND | 4.4 J |
| 105-60-2 | CAPROLACTAM | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 86-74-8 | CARBAZOLE | -- | -- | mg/Kg | ND | ND | ND | ND | ND | 8.5 J+ | 0.42 J |
| 218-01-9 | CHRYSENE | 1 | 56 | mg/Kg | ND | ND | ND | ND | ND | **66.8** | **4.6** J |
| 53-70-3 | DIBENZ(A,H)ANTHRACENE | 0.33 | 0.56 | mg/Kg | ND | ND | ND | ND | ND | **5.5** J+ | 0.3 J |
| 132-64-9 | DIBENZOFURAN | 7 | 350 | mg/Kg | ND | ND | ND | ND | ND | **14** J+ | 1.6 J |
| 84-66-2 | DIETHYL PHTHALATE | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 131-11-3 | DIMETHYL PHTHALATE | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | 2.6 J |
| 84-74-2 | DI-N-BUTYL PHTHALATE | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 117-84-0 | DI-N-OCTYLPHTHALATE | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 206-44-0 | FLUORANTHENE | 100 | 500 | mg/Kg | ND | ND | ND | ND | ND | **128.2** | 7.9 J |
| 86-73-7 | FLUORENE | 30 | 500 | mg/Kg | ND | ND | ND | ND | ND | **344.3** J | 12.8 J |
| 193-39-5 | INDENO(1,2,3-C,D)PYRENE | 0.5 | 5.6 | mg/Kg | ND | ND | ND | ND | ND | **14.2** J+ | **0.73** J |
| 86-30-6 | N-NITROSODIPHENYLAMINE | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 91-20-3 | NAPHTHALENE | 12 | 500 | mg/Kg | ND | ND | ND | ND | ND | **2453.6** | **85.4** J |
| 87-86-5 | PENTACHLOROPHENOL | 0.8 | 6.7 | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 85-01-8 | PHENANTHRENE | 100 | 500 | mg/Kg | ND | ND | ND | ND | ND | **859.3** | 33.9 J |
| 108-95-2 | PHENOL | 0.33 | 500 | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 129-00-0 | PYRENE | 100 | 500 | mg/Kg | ND | ND | ND | ND | ND | **331** J | 13.3 J |
| | **TOTAL SVOCS** | -- | -- | **mg/kg** | **ND** | **0.26** | **0.28** | **0.34** | **0.18** | **7039.5** | **278.66** |

Exceeds NYSDEC Part 375 Unrestricted Soil Criteria
Exceeds NYSDEC Commercial Soil Criteria
(1) NYSDEC 6 NYCRR Part 375 Environmental Remediation Program (December 2006)
(2) -- indicates no clean up objective or background level is available
(3) NA indicates compound was not analyzed for
(4) ND indicates compound was not detected
(5) J indicates an estimated concentration
(6) R indicates rejected data
(7) Grey shaded values exceed NYSDEC Part 375 Unrestricted Soil Criteria
(8) Orange shaded values exceed NYSDEC Part 375 Commercial Soil Criteria

Table 3
Farrington Street Former MGP Site
Summary of Soil Analytical Data
Consolidated Edison Company of New York

| Consolidated Edison<br>Farrington Street Remedial Investigation<br>2009-2015 Soil Analytical Data<br>Detected Compounds Only | | | | Location ID: | CMW-38 | CMW-39 | CMW-39 | CMW-40 | CMW-40 | CSB-48 | CSB-48 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Sample ID: | CMW-38(39-41) | CMW-39(22-24) | CMW-39(40-42) | CMW-40(36-38) | CMW-40(40-42) | CSB-48(15-17) | CSB-48(17-19) |
| | | | | Lab Sample Id | C3954-17 | C4297-03 | C4297-04 | C4297-01 | C4297-02 | F1028-05 | F1028-09 |
| | | | | Depth: | 39 - 41 ft | 22 - 24 ft | 40 - 42 ft | 36 - 38 ft | 40 - 42 ft | 15 - 17 ft | 17 - 19 ft |
| | | | | Source: | CTECH | CTECH | CTECH | CTECH | CTECH | CTECH | CTECH |
| | | NYSDEC Part 375 Unrestricted Soil Criteria | NYSDEC Part 375 Commercial Soil Criteria | SDG: | C3954 | C4297 | C4297 | C4297 | C4297 | F1028 | F1028 |
| | | | | Matrix: | SOIL | SOIL | SOIL | SOIL | SOIL | SOIL | SOIL |
| | | | | Sampled: | 9/27/2011 2:20 | 10/20/2011 12:26 | 10/20/2011 2:30 | 10/17/2011 1:18 | 10/17/2011 1:40 | 1/7/2014 9:50 | 1/7/2014 10:25 |
| | | | | Validated: | 1/23/2012 | 1/23/2012 | 1/23/2012 | 1/23/2012 | 1/23/2012 | 5/21/2014 | 5/21/2014 |
| CAS NO. | COMPOUND | | | UNITS: | | | | | | | |
| | INORGANICS | | | | | | | | | | |
| 7429-90-5 | ALUMINUM | -- | -- | mg/Kg | 3990 | 1660 J | 1690 J | 2050 J | 1720 J | 6900 | 10100 J |
| 7440-36-0 | ANTIMONY | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 7440-38-2 | ARSENIC | 13 | 16 | mg/Kg | 1.17 | 0.731 J | 0.6 J | 0.683 J | 0.719 J | 4.95 | 1.96 J |
| 7440-39-3 | BARIUM | 350 | 400 | mg/Kg | 47.2 J | 16.9 | 17.9 | 19.2 | 19.6 | 41.1 | 24 J |
| 7440-41-7 | BERYLLIUM | 7.2 | 590 | mg/Kg | 0.23 J | 0.22 J | 0.119 J | 0.097 J | 0.071 J | 0.324 J | 0.503 J |
| 7440-43-9 | CADMIUM | 2.5 | 9.3 | mg/Kg | ND | 0.394 | 0.3 | 0.393 | 0.427 | 1.53 | 1.85 J |
| 7440-70-2 | CALCIUM | -- | -- | mg/Kg | 788 J | ND | 3890 | ND | ND | 8300 | 8600 J |
| 7440-47-3 | CHROMIUM, TOTAL | 30 | 1500 | mg/Kg | 14.4 J | 7.83 | 4.62 | 8.96 | 6.68 | 13.3 | 20 J |
| 7440-48-4 | COBALT | -- | -- | mg/Kg | 7.18 | 2.88 | 2.98 | 2.51 | 2.92 | 5.39 | 8.42 J |
| 7440-50-8 | COPPER | 50 | 270 | mg/Kg | 11.6 | 7.18 | 8.13 | 7.82 | 7.56 | 48.6 | 15.7 J |
| 7439-89-6 | IRON | -- | -- | mg/Kg | 17700 | 7980 J | 5700 J | 7590 J | 8520 J | 13500 | 18200 J |
| 7439-92-1 | LEAD | 63 | 1000 | mg/Kg | 4.28 | 3.23 | 1.8 | 1.61 | 1.69 | **139** | 12.2 J |
| 7439-95-4 | MAGNESIUM | -- | -- | mg/Kg | 1580 | 744 J | 2740 J | 891 J | 781 J | 2100 | 4900 J |
| 7439-96-5 | MANGANESE | 1600 | 10000 | mg/Kg | 381 | 150 J | 120 J | 48.8 J | 84.3 J | 126 | 159 J |
| 7439-97-6 | MERCURY | 0.18 | 2.8 | mg/Kg | 0.008 J | 0.005 J | 0.006 J | ND | 0.005 J | **1.8** | 0.018 J |
| 7440-02-0 | NICKEL | 30 | 310 | mg/Kg | 12.3 | 5.92 | 4.77 | 8.93 | 6.81 | 21.4 | 21.4 J |
| 7440-09-7 | POTASSIUM | -- | -- | mg/Kg | 1340 J | 533 J | 540 J | 590 J | 773 J | 518 | 2100 J |
| 7782-49-2 | SELENIUM | 3.9 | 1500 | mg/Kg | ND | ND | ND | ND | ND | 1.39 | 2.56 J |
| 7440-22-4 | SILVER | 2 | 1500 | mg/Kg | 0.36 J | ND | ND | ND | ND | 0.665 | 0.803 J |
| 7440-23-5 | SODIUM | -- | -- | mg/Kg | 239 | 495 J | 164 J | 249 J | 400 J | 716 | 8000 J |
| 7440-28-0 | THALLIUM | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 7440-62-2 | VANADIUM | -- | -- | mg/Kg | 16.5 | 8.47 | 7.64 | 8.45 | 9.45 | 14.4 | 33.7 J |
| 7440-66-6 | ZINC | 109 | 10000 | mg/Kg | 33.3 | 17.8 | 15.1 | 12.8 | 15.5 | **132** | 69.2 J |
| 57-12-5 | CYANIDE | 27 | 27 | mg/Kg | ND | ND | 0.048 J | ND | ND | 4.19 | 1.03 J |

Exceeds NYSDEC Part 375 Unrestricted Soil Criteria
Exceeds NYSDEC Commercial Soil Criteria

(1) NYSDEC 6 NYCRR Part 375 Environmental Remediation Program (December 2006)
(2) -- indicates no clean up objective or background level is available
(3) NA indicates compound was not analyzed for
(4) ND indicates compound was not detected
(5) J indicates an estimated concentration
(6) R indicates rejected data
(7) Grey shaded values exceed NYSDEC Part 375 Unrestricted Soil Criteria
(8) Orange shaded values exceed NYSDEC Part 375 Commercial Soil Criteria

Table 3
Farrington Street Former MGP Site
Summary of Soil Analytical Data
Consolidated Edison Company of New York

| Consolidated Edison<br>Farrington Street Remedial Investigation<br>2009-2015 Soil Analytical Data<br>Detected Compounds Only | | | | Location ID: | CSB-48D | Dup of CSB-48D(25-30)-20140221<br>CSB-48D | CSB-48D | CSB-51 | CSB-51 | CSB-57 | CSB-57 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Sample ID: | CSB-48D(25-30)-20140221 | CSB-148(25-30)-20140221 | CSB-48D(42-44)-20140221 | CSB-51(15-17)-20140120 | CSB-51(29-31)-20140120 | CSB-57(15-17)-20140121 | CSB-57(29-31)-20140121 |
| | | | | Lab Sample Id | F1466-06 | F1466-07 | F1466-03 | F1204-07 | F1204-08 | F1204-14 | F1204-15 |
| | | | | Depth: | 25 - 30 ft | 25 - 30 ft | 42 - 44 ft | 15 - 17 ft | 29 - 31 ft | 15 - 17 ft | 29 - 31 ft |
| | | | | Source: | CTECH | CTECH | CTECH | CTECH | CTECH | CTECH | CTECH |
| | | NYSDEC Part 375 Unrestricted Soil Criteria | NYSDEC Part 375 Commercial Soil Criteria | SDG: | F1466 | F1466 | F1466 | F1204 | F1204 | F1204 | F1204 |
| | | | | Matrix: | SOIL | SOIL | SOIL | SOIL | SOIL | SOIL | SOIL |
| | | | | Sampled: | 2/21/2014 9:40 | 2/21/2014 10:00 | 2/21/2014 11:00 | 1/20/2014 12:11 | 1/20/2014 12:50 | 1/21/2014 10:43 | 1/21/2014 11:07 |
| | | | | Validated: | 4/29/2014 | 4/29/2014 | 4/29/2014 | 4/28/2014 | 4/28/2014 | 4/28/2014 | 4/28/2014 |
| CAS NO. | COMPOUND | | | UNITS: | | | | | | | |
| | VOLATILES | | | | | | | | | | |
| 79-34-5 | 1,1,2,2-TETRACHLOROETHANE | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 120-82-1 | 1,2,4-TRICHLOROBENZENE | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 95-50-1 | 1,2-DICHLOROBENZENE | 1.1 | 500 | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 541-73-1 | 1,3-DICHLOROBENZENE | 2.4 | 280 | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 106-46-7 | 1,4-DICHLOROBENZENE | 1.8 | 130 | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 591-78-6 | 2-HEXANONE | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 67-64-1 | ACETONE | 0.05 | 500 | mg/Kg | ND | ND | ND | ND | ND | ND | 0.0166 J |
| 71-43-2 | BENZENE | 0.06 | 44 | mg/Kg | **9** | **15.7** | ND | **2.1** | ND | **27.4** | 0.0297 |
| 75-15-0 | CARBON DISULFIDE | -- | -- | mg/Kg | ND | ND | ND | 0.11 J | ND | 0.19 J | 0.0362 |
| 108-90-7 | CHLOROBENZENE | 1.1 | 500 | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 67-66-3 | CHLOROFORM | 0.37 | 350 | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 156-59-2 | CIS-1,2-DICHLOROETHYLENE | 0.25 | 500 | mg/Kg | ND | ND | ND | ND | ND | ND | 0.002 J |
| 110-82-7 | CYCLOHEXANE | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 100-41-4 | ETHYLBENZENE | 1 | 390 | mg/Kg | **30.2** | **42.5** | ND | **13.3** J | ND | **79.5** | 0.0616 J |
| 98-82-8 | ISOPROPYLBENZENE (CUMENE) | -- | -- | mg/Kg | 2 | 2.9 | ND | 3.4 | ND | 9.6 | 0.0088 J |
| XYLMP | M,P-XYLENE (SUM OF ISOMERS) | 0.26 | 500 | mg/Kg | **16.8** | **21.7** | ND | **0.8** J | ND | **67.6** | 0.0274 J |
| 79-20-9 | METHYL ACETATE | -- | -- | mg/Kg | ND | ND | ND | 0.14 J | ND | 0.17 J | ND |
| 78-93-3 | METHYL ETHYL KETONE (2-BUTANONE) | 0.12 | 500 | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 108-10-1 | METHYL ISOBUTYL KETONE | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 108-87-2 | METHYLCYCLOHEXANE | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 75-09-2 | METHYLENE CHLORIDE | 0.05 | 500 | mg/Kg | ND | ND | ND | ND | 0.0086 | ND | 0.0116 |
| 95-47-6 | O-XYLENE (1,2-DIMETHYLBENZENE) | 0.26 | 500 | mg/Kg | **1.3** | **1.9** | ND | **1.1** | ND | **32.6** | 0.0313 J |
| 100-42-5 | STYRENE | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 1634-04-4 | TERT-BUTYL METHYL ETHER | 0.93 | 500 | mg/Kg | ND | ND | ND | ND | 0.002 J | ND | ND |
| 127-18-4 | TETRACHLOROETHYLENE(PCE) | 1.3 | 150 | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 108-88-3 | TOLUENE | 0.7 | 500 | mg/Kg | 0.21 J | 0.34 J | 0.0015 J | 0.55 J | ND | **61.1** | 0.0127 J |
| 79-01-6 | TRICHLOROETHYLENE (TCE) | 0.47 | 200 | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 95-63-6 | 1,2,4-TRIMETHYLBENZENE | 3.6 | 190 | mg/kg | | | | | | | |
| 108-67-8 | 1,3,5-TRIMETHYLBENZENE (MESITYLENE) | 8.4 | 190 | mg/kg | | | | | | | |
| 103-65-1 | N-PROPYLBENZENE | 3.9 | 500 | mg/kg | | | | | | | |
| 135-98-8 | SEC-BUTYLBENZENE | 11 | 500 | mg/kg | | | | | | | |
| | **TOTAL VOCS** | **--** | **--** | **mg/Kg** | **59.51** | **85.04** | **0.0015** | **21.5** | **0.0106** | **278.16** | **0.2379** |

Exceeds NYSDEC Part 375 Unrestricted Soil Criteria
Exceeds NYSDEC Commercial Soil Criteria
(1) NYSDEC 6 NYCRR Part 375 Environmental Remediation Program (December 2006)
(2) -- indicates no clean up objective or background level is available
(3) NA indicates compound was not analyzed for
(4) ND indicates compound was not detected
(5) J indicates an estimated concentration; J+ indicated an estimated concentration biased high.
(6) R indicates rejected data
(7) Grey shaded values exceed NYSDEC Part 375 Unrestricted Soil Criteria
(8) Orange shaded values exceed NYSDEC Part 375 Commercial Soil Criteria

Table 3
Farrington Street Former MGP Site
Summary of Soil Analytical Data
Consolidated Edison Company of New York

| Consolidated Edison<br>Farrington Street Remedial Investigation<br>2009-2015 Soil Analytical Data<br>Detected Compounds Only | | | | Location ID: | CSB-48D | Dup of CSB-48D(25-30)-20140221<br>CSB-48D | CSB-48D | CSB-51 | CSB-51 | CSB-57 | CSB-57 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Sample ID: | CSB-48D(25-30)-20140221 | CSB-148(25-30)-20140221 | CSB-48D(42-44)-20140221 | CSB-51(15-17)-20140120 | CSB-51(29-31)-20140120 | CSB-57(15-17)-20140121 | CSB-57(29-31)-20140121 |
| | | | | Lab Sample Id | F1466-06 | F1466-07 | F1466-03 | F1204-07 | F1204-08 | F1204-14 | F1204-15 |
| | | | | Depth: | 25 - 30 ft | 25 - 30 ft | 42 - 44 ft | 15 - 17 ft | 29 - 31 ft | 15 - 17 ft | 29 - 31 ft |
| | | | | Source: | CTECH | CTECH | CTECH | CTECH | CTECH | CTECH | CTECH |
| | | NYSDEC Part 375 Unrestricted Soil Criteria | NYSDEC Part 375 Commercial Soil Criteria | SDG: | F1466 | F1466 | F1466 | F1204 | F1204 | F1204 | F1204 |
| | | | | Matrix: | SOIL | SOIL | SOIL | SOIL | SOIL | SOIL | SOIL |
| | | | | Sampled: | 2/21/2014 9:40 | 2/21/2014 10:00 | 2/21/2014 11:00 | 1/20/2014 12:11 | 1/20/2014 12:50 | 1/21/2014 10:43 | 1/21/2014 11:07 |
| | | | | Validated: | 4/29/2014 | 4/29/2014 | 4/29/2014 | 4/28/2014 | 4/28/2014 | 4/28/2014 | 4/28/2014 |
| CAS NO. | COMPOUND | | | UNITS: | | | | | | | |
| | SEMIVOLATILES | | | | | | | | | | |
| 95-94-3 | 1,2,4,5-TETRACHLOROBENZENE | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 58-90-2 | 2,3,4,6-TETRACHLOROPHENOL | -- | -- | mg/kg | ND | ND | ND | ND | ND | ND | ND |
| 88-06-2 | 2,4,6-TRICHLOROPHENOL | -- | -- | mg/kg | ND | ND | ND | ND | ND | ND | ND |
| 105-67-9 | 2,4-DIMETHYLPHENOL | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 91-57-6 | 2-METHYLNAPHTHALENE | -- | -- | mg/Kg | 2.3 | 1.9 | ND | 0.5 J | ND | 242.1 | 0.18 J |
| 95-48-7 | 2-METHYLPHENOL (O-CRESOL) | 0.33 | 500 | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| MEPH3MEPH | 3- AND 4- METHYLPHENOL (TOTAL) | 0.33 | 500 | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 83-32-9 | ACENAPHTHENE | 20 | 500 | mg/Kg | 0.48 J | 0.36 J | ND | 0.8 J | ND | **76.4** | ND |
| 208-96-8 | ACENAPHTHYLENE | 100 | 500 | mg/Kg | ND | ND | ND | 1.5 J | ND | 3.7 J- | ND |
| 98-86-2 | ACETOPHENONE | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 120-12-7 | ANTHRACENE | 100 | 500 | mg/Kg | 0.24 J | 0.18 J | ND | 2 J | ND | 42 | ND |
| 100-52-7 | BENZALDEHYDE | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 56-55-3 | BENZO(A)ANTHRACENE | 1 | 5.6 | mg/Kg | ND | ND | ND | **3.1** J | ND | **3.6** J- | ND |
| 50-32-8 | BENZO(A)PYRENE | 1 | 1 | mg/Kg | ND | ND | ND | **1.2** J | ND | **2.7** J- | ND |
| 205-99-2 | BENZO(B)FLUORANTHENE | 1 | 5.6 | mg/Kg | ND | ND | ND | **1.6** J | ND | **2** J- | ND |
| 191-24-2 | BENZO(G,H,I)PERYLENE | 100 | 500 | mg/Kg | ND | ND | ND | 1.1 J | ND | 0.96 J- | ND |
| 207-08-9 | BENZO(K)FLUORANTHENE | 0.8 | 56 | mg/Kg | ND | ND | ND | **0.94** J | ND | 0.72 J- | ND |
| 85-68-7 | BENZYL BUTYL PHTHALATE | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 92-52-4 | BIPHENYL (DIPHENYL) | -- | -- | mg/Kg | 0.13 J | ND | ND | 1.1 J | ND | 3.3 J- | ND |
| 117-81-7 | BIS(2-ETHYLHEXYL) PHTHALATE | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 105-60-2 | CAPROLACTAM | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 86-74-8 | CARBAZOLE | -- | -- | mg/Kg | ND | ND | ND | ND | ND | 0.25 J | ND |
| 218-01-9 | CHRYSENE | 1 | 56 | mg/Kg | ND | ND | ND | **2.6** J | ND | **3.4** J- | ND |
| 53-70-3 | DIBENZ(A,H)ANTHRACENE | 0.33 | 0.56 | mg/Kg | ND | ND | ND | 0.29 J | ND | 0.25 J | ND |
| 132-64-9 | DIBENZOFURAN | 7 | 350 | mg/Kg | ND | ND | ND | 0.24 J | ND | 1.1 J- | ND |
| 84-66-2 | DIETHYL PHTHALATE | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 131-11-3 | DIMETHYL PHTHALATE | -- | -- | mg/Kg | 1.5 | 1.2 | 1.1 | 0.37 J | 0.4 J | 0.17 J | 0.57 |
| 84-74-2 | DI-N-BUTYL PHTHALATE | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 117-84-0 | DI-N-OCTYLPHTHALATE | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 206-44-0 | FLUORANTHENE | 100 | 500 | mg/Kg | 0.17 J | 0.13 J | ND | 4.6 J | ND | 40.1 | ND |
| 86-73-7 | FLUORENE | 30 | 500 | mg/Kg | 0.34 J | 0.26 J | ND | 2.6 J | ND | **65.3** | ND |
| 193-39-5 | INDENO(1,2,3-C,D)PYRENE | 0.5 | 5.6 | mg/Kg | ND | ND | ND | **1** J | ND | **0.78** J- | ND |
| 86-30-6 | N-NITROSODIPHENYLAMINE | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 91-20-3 | NAPHTHALENE | 12 | 500 | mg/Kg | 6.4 | 4.3 | ND | 5.3 J | ND | **398.2** | 0.34 J |
| 87-86-5 | PENTACHLOROPHENOL | 0.8 | 6.7 | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 85-01-8 | PHENANTHRENE | 100 | 500 | mg/Kg | 0.76 | 0.6 | ND | 9.2 J | 0.13 J | **151.8** | 0.12 J |
| 108-95-2 | PHENOL | 0.33 | 500 | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 129-00-0 | PYRENE | 100 | 500 | mg/Kg | 0.26 J | 0.21 J | ND | 5.5 J | ND | 54.8 | ND |
| | **TOTAL SVOCS** | -- | -- | **mg/kg** | **12.58** | **9.14** | **1.1** | **45.54** | **0.53** | **1093.63** | **1.21** |

Exceeds NYSDEC Part 375 Unrestricted Soil Criteria
Exceeds NYSDEC Commercial Soil Criteria
(1) NYSDEC 6 NYCRR Part 375 Environmental Remediation Program (December 2006)
(2) -- indicates no clean up objective or background level is available
(3) NA indicates compound was not analyzed for
(4) ND indicates compound was not detected
(5) J indicates an estimated concentration
(6) R indicates rejected data
(7) Grey shaded values exceed NYSDEC Part 375 Unrestricted Soil Criteria
(8) Orange shaded values exceed NYSDEC Part 375 Commercial Soil Criteria

Table 3
Farrington Street Former MGP Site
Summary of Soil Analytical Data
Consolidated Edison Company of New York

| Consolidated Edison<br>Farrington Street Remedial Investigation<br>2009-2015 Soil Analytical Data<br>Detected Compounds Only | | | | Location ID: | CSB-48D | Dup of CSB-48D(25-30)-20140221<br>CSB-48D | CSB-48D | CSB-51 | CSB-51 | CSB-57 | CSB-57 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Sample ID: | CSB-48D(25-30)-20140221 | CSB-148(25-30)-20140221 | CSB-48D(42-44)-20140221 | CSB-51(15-17)-20140120 | CSB-51(29-31)-20140120 | CSB-57(15-17)-20140121 | CSB-57(29-31)-20140121 |
| | | | | Lab Sample Id | F1466-06 | F1466-07 | F1466-03 | F1204-07 | F1204-08 | F1204-14 | F1204-15 |
| | | | | Depth: | 25 - 30 ft | 25 - 30 ft | 42 - 44 ft | 15 - 17 ft | 29 - 31 ft | 15 - 17 ft | 29 - 31 ft |
| | | | | Source: | CTECH | CTECH | CTECH | CTECH | CTECH | CTECH | CTECH |
| | | NYSDEC Part 375 Unrestricted Soil Criteria | NYSDEC Part 375 Commercial Soil Criteria | SDG: | F1466 | F1466 | F1466 | F1204 | F1204 | F1204 | F1204 |
| | | | | Matrix: | SOIL | SOIL | SOIL | SOIL | SOIL | SOIL | SOIL |
| | | | | Sampled: | 2/21/2014 9:40 | 2/21/2014 10:00 | 2/21/2014 11:00 | 1/20/2014 12:11 | 1/20/2014 12:50 | 1/21/2014 10:43 | 1/21/2014 11:07 |
| | | | | Validated: | 4/29/2014 | 4/29/2014 | 4/29/2014 | 4/28/2014 | 4/28/2014 | 4/28/2014 | 4/28/2014 |
| CAS NO. | COMPOUND | | | UNITS: | | | | | | | |
| | INORGANICS | | | | | | | | | | |
| 7429-90-5 | ALUMINUM | -- | -- | mg/Kg | 15100 | 15700 | 5860 | 5500 J | 4200 J | 5400 J | 9500 J |
| 7440-36-0 | ANTIMONY | -- | -- | mg/Kg | ND | ND | ND | 0.966 J | ND | ND | ND |
| 7440-38-2 | ARSENIC | 13 | 16 | mg/Kg | 10.3 | 10.7 | 1.71 | 8.11 | 0.779 J | 5.33 | 5.86 |
| 7440-39-3 | BARIUM | 350 | 400 | mg/Kg | 36.8 J+ | 38.8 J+ | 62.1 J+ | 100 J | 81.9 J | 45 J | 45.9 J |
| 7440-41-7 | BERYLLIUM | 7.2 | 590 | mg/Kg | ND | ND | ND | ND | ND | ND | 0.117 J |
| 7440-43-9 | CADMIUM | 2.5 | 9.3 | mg/Kg | 0.643 | 0.948 | 0.206 J | 1.56 | 0.8 | 0.771 | 1.16 |
| 7440-70-2 | CALCIUM | -- | -- | mg/Kg | 3100 | 4050 | 398 | 19100 J | 716 J | 15300 J | 1900 J |
| 7440-47-3 | CHROMIUM, TOTAL | 30 | 1500 | mg/Kg | **30.7** | **32.1** | 24.1 | 15.8 J | 22.9 J | 13.3 J | 28.5 J |
| 7440-48-4 | COBALT | -- | -- | mg/Kg | 14.5 J+ | 15 J+ | 9.19 J+ | 6.42 | 10.91 | 5.23 | 9.9 |
| 7440-50-8 | COPPER | 50 | 270 | mg/Kg | 13.7 J | 13.1 J | 10.75 J | **74.6** J | 13.9 J | 30.3 J+ | 7.95 J |
| 7439-89-6 | IRON | -- | -- | mg/Kg | 40000 | 40100 | 21800 | 22700 | 20800 | 13800 | 26100 J |
| 7439-92-1 | LEAD | 63 | 1000 | mg/Kg | 18.9 | 17.3 | 2.71 | **288** | 1.72 | **99.3** | 7.43 J |
| 7439-95-4 | MAGNESIUM | -- | -- | mg/Kg | 7610 | 7880 | 2310 | 10700 | 1600 | 7400 | 5900 J |
| 7439-96-5 | MANGANESE | 1600 | 10000 | mg/Kg | 526 J | 564 J | 722 J | 178 J | 1500 J | 139 J | 604 J |
| 7439-97-6 | MERCURY | 0.18 | 2.8 | mg/Kg | 0.017 J | 0.01 J | ND | 0.055 | ND | **0.258** | ND |
| 7440-02-0 | NICKEL | 30 | 310 | mg/Kg | **32** | **31.7** | **38.7** | 16.5 | 21.5 | 13.1 | 21.6 |
| 7440-09-7 | POTASSIUM | -- | -- | mg/Kg | 3580 | 3750 | 1710 | 804 | 1500 | 1200 | 2700 J |
| 7782-49-2 | SELENIUM | 3.9 | 1500 | mg/Kg | 1.37 | 1.48 | 0.518 J | 1.95 | 0.944 J | 1.9 | 1.64 |
| 7440-22-4 | SILVER | 2 | 1500 | mg/Kg | 0.64 J | 0.448 J | ND | ND | ND | ND | ND |
| 7440-23-5 | SODIUM | -- | -- | mg/Kg | 3480 | 3620 | 135 | 424 | 102 J | 1100 | 3400 J |
| 7440-28-0 | THALLIUM | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 7440-62-2 | VANADIUM | -- | -- | mg/Kg | 36.7 | 38.1 | 22 | 30.6 J | 50.9 J | 24.5 J | 40.2 J |
| 7440-66-6 | ZINC | 109 | 10000 | mg/Kg | 87.3 | 84.9 | 24 | **146** | 22.1 | 94.7 | 58.4 J |
| 57-12-5 | CYANIDE | 27 | 27 | mg/Kg | 0.278 J | 0.28 J | 0.169 J | 5.02 | 0.938 | 1.47 | ND |

Exceeds NYSDEC Part 375 Unrestricted Soil Criteria
Exceeds NYSDEC Commercial Soil Criteria

(1) NYSDEC 6 NYCRR Part 375 Environmental Remediation Program (December 2006)
(2) -- indicates no clean up objective or background level is available
(3) NA indicates compound was not analyzed for
(4) ND indicates compound was not detected
(5) J indicates an estimated concentration
(6) R indicates rejected data
(7) Grey shaded values exceed NYSDEC Part 375 Unrestricted Soil Criteria
(8) Orange shaded values exceed NYSDEC Part 375 Commercial Soil Criteria

Table 3
Farrington Street Former MGP Site
Summary of Soil Analytical Data
Consolidated Edison Company of New York

| Consolidated Edison<br>Farrington Street Remedial Investigation<br>2009-2015 Soil Analytical Data<br>Detected Compounds Only | | | | | Dup of CSB-57(29-31)-20140121 | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Location ID: | CSB-57 | CSB-58 | CSB-58 | CSB-63 | CSB-63 | CSB-64 |
| | | | | Sample ID: | CSB-157(29-31)-20140121 | CSB-58(19-21)-20140121 | CSB-58(23-25)-20140121 | CSB-63(13-15)-20140228 | CSB-63(29-31)-20140228 | CSB-64 (7-9)-20140305 |
| | | | | Lab Sample Id | F1204-16 | F1204-10 | F1204-11 | F1518-10 | F1518-21 | F1553-03 |
| | | | | Depth: | 29 - 31 ft | 19 - 21 ft | 23 - 25 ft | 13 - 15 ft | 29 - 31 ft | 7 - 9 ft |
| | | | | Source: | CTECH | CTECH | CTECH | CTECH | CTECH | CTECH |
| | | NYSDEC Part 375 Unrestricted Soil Criteria | NYSDEC Part 375 Commercial Soil Criteria | SDG: | F1204 | F1204 | F1204 | F1518 | F1518 | F1553 |
| | | | | Matrix: | SOIL | SOIL | SOIL | SOIL | SOIL | SOIL |
| | | | | Sampled: | 1/21/2014 11:30 | 1/21/2014 9:00 | 1/21/2014 9:07 | 2/28/2014 13:43 | 2/28/2014 14:33 | 3/5/2014 12:54 |
| | | | | Validated: | 4/28/2014 | 4/28/2014 | 4/28/2014 | 5/21/2014 | 5/21/2014 | 4/29/2014 |
| CAS NO. | COMPOUND | | | UNITS: | | | | | | |
| | VOLATILES | | | | | | | | | |
| 79-34-5 | 1,1,2,2-TETRACHLOROETHANE | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND |
| 120-82-1 | 1,2,4-TRICHLOROBENZENE | -- | -- | mg/Kg | ND | ND | ND | ND | ND | 0.0106 |
| 95-50-1 | 1,2-DICHLOROBENZENE | 1.1 | 500 | mg/Kg | ND | ND | ND | ND | ND | ND |
| 541-73-1 | 1,3-DICHLOROBENZENE | 2.4 | 280 | mg/Kg | ND | ND | ND | ND | ND | 0.0023 J |
| 106-46-7 | 1,4-DICHLOROBENZENE | 1.8 | 130 | mg/Kg | ND | ND | ND | ND | ND | 0.008 |
| 591-78-6 | 2-HEXANONE | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND |
| 67-64-1 | ACETONE | 0.05 | 500 | mg/Kg | 0.0228 J | ND | **0.0504** | **0.26** | 0.0276 J | 0.0366 |
| 71-43-2 | BENZENE | 0.06 | 44 | mg/Kg | 0.0218 | **5.5** | **0.2** | **0.14** | 0.0026 J | 0.0028 J |
| 75-15-0 | CARBON DISULFIDE | -- | -- | mg/Kg | 0.0558 J | ND | 0.0684 J | 0.0111 | 0.007 J | ND |
| 108-90-7 | CHLOROBENZENE | 1.1 | 500 | mg/Kg | ND | ND | ND | ND | ND | 0.0135 |
| 67-66-3 | CHLOROFORM | 0.37 | 350 | mg/Kg | ND | ND | ND | ND | ND | ND |
| 156-59-2 | CIS-1,2-DICHLOROETHYLENE | 0.25 | 500 | mg/Kg | 0.003 J | ND | ND | ND | ND | ND |
| 110-82-7 | CYCLOHEXANE | -- | -- | mg/Kg | ND | ND | ND | 0.007 | ND | ND |
| 100-41-4 | ETHYLBENZENE | 1 | 390 | mg/Kg | 0.0335 J | **6.3** | 0.27 J | 0.0467 | ND | ND |
| 98-82-8 | ISOPROPYLBENZENE (CUMENE) | -- | -- | mg/Kg | 0.0032 J | 1.3 | 0.14 | 0.0404 | ND | ND |
| XYLMP | M,P-XYLENE (SUM OF ISOMERS) | 0.26 | 500 | mg/Kg | 0.0075 J | **1.3** | **0.4** | 0.0345 | ND | ND |
| 79-20-9 | METHYL ACETATE | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND |
| 78-93-3 | METHYL ETHYL KETONE (2-BUTANONE) | 0.12 | 500 | mg/Kg | ND | ND | 0.0108 J | 0.0572 | ND | ND |
| 108-10-1 | METHYL ISOBUTYL KETONE | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND |
| 108-87-2 | METHYLCYCLOHEXANE | -- | -- | mg/Kg | ND | ND | ND | 0.0166 | ND | ND |
| 75-09-2 | METHYLENE CHLORIDE | 0.05 | 500 | mg/Kg | ND | ND | 0.0238 J | 0.0084 | ND | ND |
| 95-47-6 | O-XYLENE (1,2-DIMETHYLBENZENE) | 0.26 | 500 | mg/Kg | 0.0146 J | **0.39** J | 0.0691 | 0.0389 | ND | ND |
| 100-42-5 | STYRENE | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND |
| 1634-04-4 | TERT-BUTYL METHYL ETHER | 0.93 | 500 | mg/Kg | ND | ND | ND | ND | ND | ND |
| 127-18-4 | TETRACHLOROETHYLENE(PCE) | 1.3 | 150 | mg/Kg | ND | ND | ND | ND | ND | ND |
| 108-88-3 | TOLUENE | 0.7 | 500 | mg/Kg | 0.0051 J | 0.46 J | 0.0085 | 0.0131 | ND | 0.0015 J |
| 79-01-6 | TRICHLOROETHYLENE (TCE) | 0.47 | 200 | mg/Kg | ND | ND | ND | ND | ND | ND |
| 95-63-6 | 1,2,4-TRIMETHYLBENZENE | 3.6 | 190 | mg/kg | | | | | | |
| 108-67-8 | 1,3,5-TRIMETHYLBENZENE (MESITYLENE) | 8.4 | 190 | mg/kg | | | | | | |
| 103-65-1 | N-PROPYLBENZENE | 3.9 | 500 | mg/kg | | | | | | |
| 135-98-8 | SEC-BUTYLBENZENE | 11 | 500 | mg/kg | | | | | | |
| | **TOTAL VOCS** | **--** | **--** | **mg/Kg** | **0.1673** | **15.25** | **1.241** | **0.6739** | **0.0372** | **0.0753** |

Exceeds NYSDEC Part 375 Unrestricted Soil Criteria
Exceeds NYSDEC Commercial Soil Criteria
(1) NYSDEC 6 NYCRR Part 375 Environmental Remediation Program (December 2006)
(2) -- indicates no clean up objective or background level is available
(3) NA indicates compound was not analyzed for
(4) ND indicates compound was not detected
(5) J indicates an estimated concentration; J+ indicated an estimated concentration biased high.
(6) R indicates rejected data
(7) Grey shaded values exceed NYSDEC Part 375 Unrestricted Soil Criteria
(8) Orange shaded values exceed NYSDEC Part 375 Commercial Soil Criteria

Table 3
Farrington Street Former MGP Site
Summary of Soil Analytical Data
Consolidated Edison Company of New York

| Consolidated Edison<br>Farrington Street Remedial Investigation<br>2009-2015 Soil Analytical Data<br>Detected Compounds Only | | | | Location ID: | Dup of CSB-57(29-31)-20140121<br>CSB-57 | CSB-58 | CSB-58 | CSB-63 | CSB-63 | CSB-64 |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Sample ID: | CSB-157(29-31)-20140121 | CSB-58(19-21)-20140121 | CSB-58(23-25)-20140121 | CSB-63(13-15)-20140228 | CSB-63(29-31)-20140228 | CSB-64 (7-9)-20140305 |
| | | | | Lab Sample Id | F1204-16 | F1204-10 | F1204-11 | F1518-10 | F1518-21 | F1553-03 |
| | | | | Depth: | 29 - 31 ft | 19 - 21 ft | 23 - 25 ft | 13 - 15 ft | 29 - 31 ft | 7 - 9 ft |
| | | | | Source: | CTECH | CTECH | CTECH | CTECH | CTECH | CTECH |
| | | NYSDEC Part 375 Unrestricted Soil Criteria | NYSDEC Part 375 Commercial Soil Criteria | SDG: | F1204 | F1204 | F1204 | F1518 | F1518 | F1553 |
| | | | | Matrix: | SOIL | SOIL | SOIL | SOIL | SOIL | SOIL |
| | | | | Sampled: | 1/21/2014 11:30 | 1/21/2014 9:00 | 1/21/2014 9:07 | 2/28/2014 13:43 | 2/28/2014 14:33 | 3/5/2014 12:54 |
| | | | | Validated: | 4/28/2014 | 4/28/2014 | 4/28/2014 | 5/21/2014 | 5/21/2014 | 4/29/2014 |
| CAS NO. | COMPOUND | | | UNITS: | | | | | | |
| | SEMIVOLATILES | | | | | | | | | |
| 95-94-3 | 1,2,4,5-TETRACHLOROBENZENE | -- | -- | mg/Kg | ND | ND | ND | ND | ND | 0.13 J |
| 58-90-2 | 2,3,4,6-TETRACHLOROPHENOL | -- | -- | mg/kg | ND | ND | ND | ND | ND | ND |
| 88-06-2 | 2,4,6-TRICHLOROPHENOL | -- | -- | mg/kg | ND | ND | ND | ND | ND | 0.14 J |
| 105-67-9 | 2,4-DIMETHYLPHENOL | -- | -- | mg/Kg | ND | ND | ND | ND | ND | 0.21 J |
| 91-57-6 | 2-METHYLNAPHTHALENE | -- | -- | mg/Kg | 0.12 J | 10.5 | 2.3 | ND | ND | 6 |
| 95-48-7 | 2-METHYLPHENOL (O-CRESOL) | 0.33 | 500 | mg/Kg | ND | ND | ND | ND | ND | 0.0937 J |
| MEPH3MEPH | 3- AND 4- METHYLPHENOL (TOTAL) | 0.33 | 500 | mg/Kg | ND | ND | ND | ND | ND | 0.31 J |
| 83-32-9 | ACENAPHTHENE | 20 | 500 | mg/Kg | ND | 4.7 | 0.75 | ND | ND | **31.9** J |
| 208-96-8 | ACENAPHTHYLENE | 100 | 500 | mg/Kg | ND | 0.44 | ND | ND | ND | 0.35 J |
| 98-86-2 | ACETOPHENONE | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND |
| 120-12-7 | ANTHRACENE | 100 | 500 | mg/Kg | ND | 1.5 | 0.22 J | ND | ND | 42.2 |
| 100-52-7 | BENZALDEHYDE | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND |
| 56-55-3 | BENZO(A)ANTHRACENE | 1 | 5.6 | mg/Kg | ND | 0.87 | ND | ND | ND | **70.7** |
| 50-32-8 | BENZO(A)PYRENE | 1 | 1 | mg/Kg | ND | 0.64 | ND | ND | ND | **59.4** |
| 205-99-2 | BENZO(B)FLUORANTHENE | 1 | 5.6 | mg/Kg | ND | 0.57 | ND | ND | ND | **64.5** |
| 191-24-2 | BENZO(G,H,I)PERYLENE | 100 | 500 | mg/Kg | ND | 0.3 J | ND | ND | ND | 32.6 J |
| 207-08-9 | BENZO(K)FLUORANTHENE | 0.8 | 56 | mg/Kg | ND | 0.2 J | ND | ND | ND | **26.1** |
| 85-68-7 | BENZYL BUTYL PHTHALATE | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND |
| 92-52-4 | BIPHENYL (DIPHENYL) | -- | -- | mg/Kg | ND | 0.41 J | ND | ND | ND | 1.1 |
| 117-81-7 | BIS(2-ETHYLHEXYL) PHTHALATE | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND |
| 105-60-2 | CAPROLACTAM | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND |
| 86-74-8 | CARBAZOLE | -- | -- | mg/Kg | ND | ND | ND | ND | ND | 24 |
| 218-01-9 | CHRYSENE | 1 | 56 | mg/Kg | ND | 0.77 | ND | ND | ND | **60.9** |
| 53-70-3 | DIBENZ(A,H)ANTHRACENE | 0.33 | 0.56 | mg/Kg | ND | ND | ND | ND | ND | **11.7** |
| 132-64-9 | DIBENZOFURAN | 7 | 350 | mg/Kg | ND | 0.21 J | ND | ND | ND | **12.5** |
| 84-66-2 | DIETHYL PHTHALATE | -- | -- | mg/Kg | ND | ND | ND | 0.12 J | ND | ND |
| 131-11-3 | DIMETHYL PHTHALATE | -- | -- | mg/Kg | 0.54 J | 0.49 | 0.62 | 0.66 | 1.2 J | 0.62 |
| 84-74-2 | DI-N-BUTYL PHTHALATE | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND |
| 117-84-0 | DI-N-OCTYLPHTHALATE | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND |
| 206-44-0 | FLUORANTHENE | 100 | 500 | mg/Kg | ND | 1.4 | 0.19 J | 0.14 J | ND | **151.3** |
| 86-73-7 | FLUORENE | 30 | 500 | mg/Kg | ND | 2.2 | 0.36 J | ND | ND | 26.4 |
| 193-39-5 | INDENO(1,2,3-C,D)PYRENE | 0.5 | 5.6 | mg/Kg | ND | 0.26 J | ND | ND | ND | **33** J |
| 86-30-6 | N-NITROSODIPHENYLAMINE | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND |
| 91-20-3 | NAPHTHALENE | 12 | 500 | mg/Kg | 0.22 J | **12.7** | 5.3 | ND | ND | **17.2** |
| 87-86-5 | PENTACHLOROPHENOL | 0.8 | 6.7 | mg/Kg | ND | ND | ND | ND | ND | ND |
| 85-01-8 | PHENANTHRENE | 100 | 500 | mg/Kg | 0.0935 J | 5.4 | 0.75 | 0.1 J | ND | **137.5** |
| 108-95-2 | PHENOL | 0.33 | 500 | mg/Kg | ND | ND | ND | ND | ND | ND |
| 129-00-0 | PYRENE | 100 | 500 | mg/Kg | ND | 1.9 | 0.28 J | 0.16 J | ND | **116.3** |
| | **TOTAL SVOCS** | -- | -- | **mg/kg** | **0.9735** | **45.46** | **10.77** | **1.18** | **1.2** | **927.1537** |

Exceeds NYSDEC Part 375 Unrestricted Soil Criteria
Exceeds NYSDEC Commercial Soil Criteria
(1) NYSDEC 6 NYCRR Part 375 Environmental Remediation Program (December 2006)
(2) -- indicates no clean up objective or background level is available
(3) NA indicates compound was not analyzed for
(4) ND indicates compound was not detected
(5) J indicates an estimated concentration
(6) R indicates rejected data
(7) Grey shaded values exceed NYSDEC Part 375 Unrestricted Soil Criteria
(8) Orange shaded values exceed NYSDEC Part 375 Commercial Soil Criteria

Table 3
Farrington Street Former MGP Site
Summary of Soil Analytical Data
Consolidated Edison Company of New York

| Consolidated Edison<br>Farrington Street Remedial Investigation<br>2009-2015 Soil Analytical Data<br>Detected Compounds Only | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | Dup of CSB-57(29-31)-20140121 | | | | | | |
| | | | | Location ID: | CSB-57 | CSB-58 | CSB-58 | CSB-63 | CSB-63 | CSB-64 |
| | | | | Sample ID: | CSB-157(29-31)-20140121 | CSB-58(19-21)-20140121 | CSB-58(23-25)-20140121 | CSB-63(13-15)-20140228 | CSB-63(29-31)-20140228 | CSB-64 (7-9)-20140305 |
| | | | | Lab Sample Id | F1204-16 | F1204-10 | F1204-11 | F1518-10 | F1518-21 | F1553-03 |
| | | | | Depth: | 29 - 31 ft | 19 - 21 ft | 23 - 25 ft | 13 - 15 ft | 29 - 31 ft | 7 - 9 ft |
| | | | | Source: | CTECH | CTECH | CTECH | CTECH | CTECH | CTECH |
| | | NYSDEC Part 375 Unrestricted Soil Criteria | NYSDEC Part 375 Commercial Soil Criteria | SDG: | F1204 | F1204 | F1204 | F1518 | F1518 | F1553 |
| | | | | Matrix: | SOIL | SOIL | SOIL | SOIL | SOIL | SOIL |
| | | | | Sampled: | 1/21/2014 11:30 | 1/21/2014 9:00 | 1/21/2014 9:07 | 2/28/2014 13:43 | 2/28/2014 14:33 | 3/5/2014 12:54 |
| | | | | Validated: | 4/28/2014 | 4/28/2014 | 4/28/2014 | 5/21/2014 | 5/21/2014 | 4/29/2014 |
| CAS NO. | COMPOUND | | | UNITS: | | | | | | |
| | INORGANICS | | | | | | | | | |
| 7429-90-5 | ALUMINUM | -- | -- | mg/Kg | 5300 J | 3900 J | 11800 J | 9760 | 15400 | 1900 |
| 7440-36-0 | ANTIMONY | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND |
| 7440-38-2 | ARSENIC | 13 | 16 | mg/Kg | 3.93 | 5.45 | 7.4 | 5.11 | 10.6 | 2.71 J |
| 7440-39-3 | BARIUM | 350 | 400 | mg/Kg | 25.6 J | 74.2 J | 38.7 J | 70.5 J+ | 35.6 J+ | 25.1 J |
| 7440-41-7 | BERYLLIUM | 7.2 | 590 | mg/Kg | ND | 0.08 J | 0.148 J | ND | ND | ND |
| 7440-43-9 | CADMIUM | 2.5 | 9.3 | mg/Kg | 0.508 | 0.811 | 1.73 | 1.55 | 1.37 | 0.085 J |
| 7440-70-2 | CALCIUM | -- | -- | mg/Kg | 763 J | 6300 J | 5300 J | 6460 J | 7420 J | 5750 J |
| 7440-47-3 | CHROMIUM, TOTAL | 30 | 1500 | mg/Kg | 15.8 J | 19.1 J | 27.9 J | 24.3 | **32.3** | 5.22 J |
| 7440-48-4 | COBALT | -- | -- | mg/Kg | 5.5 | 5.3 | 11.9 | 8.47 J+ | 14.9 J+ | 4.46 |
| 7440-50-8 | COPPER | 50 | 270 | mg/Kg | 4.79 J | **58.9** J | 22.1 J | 26.1 J | 5.92 J | 14.3 J |
| 7439-89-6 | IRON | -- | -- | mg/Kg | 13700 J | 12300 | 32300 | 30000 | 42800 | 7570 |
| 7439-92-1 | LEAD | 63 | 1000 | mg/Kg | 3.61 J | **131** | 42.1 | **292** | 18.9 | 55.9 |
| 7439-95-4 | MAGNESIUM | -- | -- | mg/Kg | 3000 J | 2900 | 6400 | 4430 | 8560 | 2840 J |
| 7439-96-5 | MANGANESE | 1600 | 10000 | mg/Kg | 291 J | 112 J | 536 J | 283 J | 608 J | 64.5 J |
| 7439-97-6 | MERCURY | 0.18 | 2.8 | mg/Kg | 0.008 J | 0.095 | 0.034 | **0.213** | 0.014 J | 0.078 |
| 7440-02-0 | NICKEL | 30 | 310 | mg/Kg | 11.2 | 15.9 | 27 | 19.5 | **31.5** | 11.5 |
| 7440-09-7 | POTASSIUM | -- | -- | mg/Kg | 1500 J | 690 | 3000 | 1900 | 3870 | 234 |
| 7782-49-2 | SELENIUM | 3.9 | 1500 | mg/Kg | 0.754 J | 1.3 | 2.12 | 1.21 | 1.96 | ND |
| 7440-22-4 | SILVER | 2 | 1500 | mg/Kg | ND | ND | ND | 0.747 | 1.52 | ND |
| 7440-23-5 | SODIUM | -- | -- | mg/Kg | 1800 J | 574 | 1900 | 663 | 2400 | 65 J |
| 7440-28-0 | THALLIUM | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND |
| 7440-62-2 | VANADIUM | -- | -- | mg/Kg | 23.1 J | 19.4 J | 43.3 J | 33.7 | 39 | 12.5 J |
| 7440-66-6 | ZINC | 109 | 10000 | mg/Kg | 32.2 J | **128** | 95.1 | 98.7 | 91.4 | 21.2 |
| 57-12-5 | CYANIDE | 27 | 27 | mg/Kg | 0.166 J | 0.117 J | 0.071 J | 0.599 | 0.098 J | 0.454 |

Exceeds NYSDEC Part 375 Unrestricted Soil Criteria
Exceeds NYSDEC Commercial Soil Criteria

(1) NYSDEC 6 NYCRR Part 375 Environmental Remediation Program (December 2006)
(2) -- indicates no clean up objective or background level is available
(3) NA indicates compound was not analyzed for
(4) ND indicates compound was not detected
(5) J indicates an estimated concentration
(6) R indicates rejected data
(7) Grey shaded values exceed NYSDEC Part 375 Unrestricted Soil Criteria
(8) Orange shaded values exceed NYSDEC Part 375 Commercial Soil Criteria

Table 3
Farrington Street Former MGP Site
Summary of Soil Analytical Data
Consolidated Edison Company of New York

| Consolidated Edison<br>Farrington Street Remedial Investigation<br>2009-2015 Soil Analytical Data<br>Detected Compounds Only | | | | Location ID: | CSB-64 | CSB-65 | CSB-65 | CSB-65 | CSB-66 | CSB-66 | CSB-67 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Sample ID: | CSB-64 (29-31)-20140305 | CSB-65(15-17)-20140227 | CSB-65(29-31)-20140227 | CSB-65(37-39)-20140227 | SB-66(11-13)-20140226 | SB-66(29-31)-20140226 | CSB-67 (11-13)-20140303 |
| | | | | Lab Sample Id | F1553-04 | F1518-01 | F1518-02 | F1518-03 | F1518-19 | F1518-20 | F1553-02 |
| | | | | Depth: | 29 - 31 ft | 15 - 17 ft | 29 - 31 ft | 37 - 39 ft | 11 - 13 ft | 29 - 31 ft | 11 - 13 ft |
| | | | | Source: | CTECH | CTECH | CTECH | CTECH | CTECH | CTECH | CTECH |
| | | NYSDEC Part 375 Unrestricted Soil Criteria | NYSDEC Part 375 Commercial Soil Criteria | SDG: | F1553 | F1518 | F1518 | F1518 | F1518 | F1518 | F1553 |
| | | | | Matrix: | SOIL | SOIL | SOIL | SOIL | SOIL | SOIL | SOIL |
| | | | | Sampled: | 3/5/2014 13:38 | 2/27/2014 10:17 | 2/27/2014 10:40 | 2/27/2014 11:13 | 2/26/2014 13:02 | 2/26/2014 13:40 | 3/3/2014 12:45 |
| | | | | Validated: | 4/29/2014 | 5/21/2014 | 5/21/2014 | 5/21/2014 | 5/21/2014 | 5/21/2014 | 4/29/2014 |
| CAS NO. | COMPOUND | | | UNITS: | | | | | | | |
| | VOLATILES | | | | | | | | | | |
| 79-34-5 | 1,1,2,2-TETRACHLOROETHANE | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 120-82-1 | 1,2,4-TRICHLOROBENZENE | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 95-50-1 | 1,2-DICHLOROBENZENE | 1.1 | 500 | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 541-73-1 | 1,3-DICHLOROBENZENE | 2.4 | 280 | mg/Kg | ND | 0.0124 J | ND | ND | ND | ND | ND |
| 106-46-7 | 1,4-DICHLOROBENZENE | 1.8 | 130 | mg/Kg | ND | 0.0276 J | ND | ND | ND | ND | ND |
| 591-78-6 | 2-HEXANONE | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 67-64-1 | ACETONE | 0.05 | 500 | mg/Kg | **0.093** J | **0.19** J | ND | 0.0199 J | **0.23** | 0.043 J | **0.58** |
| 71-43-2 | BENZENE | 0.06 | 44 | mg/Kg | 0.0029 J | **0.24** J | 0.0085 J | ND | **0.12** J | 0.0069 J | **0.18** J |
| 75-15-0 | CARBON DISULFIDE | -- | -- | mg/Kg | 0.031 J | 0.0164 J | 0.0213 J | 0.0032 J | 0.0062 J | 0.016 J | 0.0112 |
| 108-90-7 | CHLOROBENZENE | 1.1 | 500 | mg/Kg | ND | 0.15 J | ND | ND | 0.84 J | 0.0352 J | 0.002 J |
| 67-66-3 | CHLOROFORM | 0.37 | 350 | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 156-59-2 | CIS-1,2-DICHLOROETHYLENE | 0.25 | 500 | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 110-82-7 | CYCLOHEXANE | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 100-41-4 | ETHYLBENZENE | 1 | 390 | mg/Kg | ND | 0.15 J | ND | ND | 0.0069 J | ND | 0.0369 |
| 98-82-8 | ISOPROPYLBENZENE (CUMENE) | -- | -- | mg/Kg | ND | 0.32 J | ND | ND | 0.0379 J | ND | 0.46 J |
| XYLMP | M,P-XYLENE (SUM OF ISOMERS) | 0.26 | 500 | mg/Kg | ND | **0.43** J | ND | ND | 0.007 J | ND | 0.0286 |
| 79-20-9 | METHYL ACETATE | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 78-93-3 | METHYL ETHYL KETONE (2-BUTANONE) | 0.12 | 500 | mg/Kg | 0.0203 J | 0.054 J | ND | ND | 0.0654 J | 0.0078 J | **0.19** |
| 108-10-1 | METHYL ISOBUTYL KETONE | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 108-87-2 | METHYLCYCLOHEXANE | -- | -- | mg/Kg | ND | ND | ND | ND | 0.0073 J | ND | 0.0755 |
| 75-09-2 | METHYLENE CHLORIDE | 0.05 | 500 | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 95-47-6 | O-XYLENE (1,2-DIMETHYLBENZENE) | 0.26 | 500 | mg/Kg | ND | 0.0796 J | ND | ND | 0.0032 J | ND | 0.0174 |
| 100-42-5 | STYRENE | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | 0.0197 |
| 1634-04-4 | TERT-BUTYL METHYL ETHER | 0.93 | 500 | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 127-18-4 | TETRACHLOROETHYLENE(PCE) | 1.3 | 150 | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 108-88-3 | TOLUENE | 0.7 | 500 | mg/Kg | ND | 0.0329 J | 0.0065 J | ND | 0.015 J | ND | 0.0186 |
| 79-01-6 | TRICHLOROETHYLENE (TCE) | 0.47 | 200 | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 95-63-6 | 1,2,4-TRIMETHYLBENZENE | 3.6 | 190 | mg/kg | | | | | | | |
| 108-67-8 | 1,3,5-TRIMETHYLBENZENE (MESITYLENE) | 8.4 | 190 | mg/kg | | | | | | | |
| 103-65-1 | N-PROPYLBENZENE | 3.9 | 500 | mg/kg | | | | | | | |
| 135-98-8 | SEC-BUTYLBENZENE | 11 | 500 | mg/kg | | | | | | | |
| | **TOTAL VOCS** | **--** | **--** | **mg/Kg** | **0.1472** | **1.7029** | **0.0363** | **0.0231** | **1.3389** | **0.1089** | **1.6199** |

Exceeds NYSDEC Part 375 Unrestricted Soil Criteria
Exceeds NYSDEC Commercial Soil Criteria
(1) NYSDEC 6 NYCRR Part 375 Environmental Remediation Program (December 2006)
(2) -- indicates no clean up objective or background level is available
(3) NA indicates compound was not analyzed for
(4) ND indicates compound was not detected
(5) J indicates an estimated concentration; J+ indicated an estimated concentration biased high.
(6) R indicates rejected data
(7) Grey shaded values exceed NYSDEC Part 375 Unrestricted Soil Criteria
(8) Orange shaded values exceed NYSDEC Part 375 Commercial Soil Criteria

Table 3
Farrington Street Former MGP Site
Summary of Soil Analytical Data
Consolidated Edison Company of New York

| Consolidated Edison<br>Farrington Street Remedial Investigation<br>2009-2015 Soil Analytical Data<br>Detected Compounds Only | | | | Location ID: | CSB-64 | CSB-65 | CSB-65 | CSB-65 | CSB-66 | CSB-66 | CSB-67 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Sample ID: | CSB-64 (29-31)-20140305 | CSB-65(15-17)-20140227 | CSB-65(29-31)-20140227 | CSB-65(37-39)-20140227 | SB-66(11-13)-20140226 | SB-66(29-31)-20140226 | CSB-67 (11-13)-20140303 |
| | | | | Lab Sample Id | F1553-04 | F1518-01 | F1518-02 | F1518-03 | F1518-19 | F1518-20 | F1553-02 |
| | | | | Depth: | 29 - 31 ft | 15 - 17 ft | 29 - 31 ft | 37 - 39 ft | 11 - 13 ft | 29 - 31 ft | 11 - 13 ft |
| | | | | Source: | CTECH | CTECH | CTECH | CTECH | CTECH | CTECH | CTECH |
| | | NYSDEC Part 375 Unrestricted Soil Criteria | NYSDEC Part 375 Commercial Soil Criteria | SDG: | F1553 | F1518 | F1518 | F1518 | F1518 | F1518 | F1553 |
| | | | | Matrix: | SOIL | SOIL | SOIL | SOIL | SOIL | SOIL | SOIL |
| | | | | Sampled: | 3/5/2014 13:38 | 2/27/2014 10:17 | 2/27/2014 10:40 | 2/27/2014 11:13 | 2/26/2014 13:02 | 2/26/2014 13:40 | 3/3/2014 12:45 |
| | | | | Validated: | 4/29/2014 | 5/21/2014 | 5/21/2014 | 5/21/2014 | 5/21/2014 | 5/21/2014 | 4/29/2014 |
| CAS NO. | COMPOUND | | | UNITS: | | | | | | | |
| | SEMIVOLATILES | | | | | | | | | | |
| 95-94-3 | 1,2,4,5-TETRACHLOROBENZENE | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 58-90-2 | 2,3,4,6-TETRACHLOROPHENOL | -- | -- | mg/kg | ND | ND | ND | ND | ND | ND | ND |
| 88-06-2 | 2,4,6-TRICHLOROPHENOL | -- | -- | mg/kg | ND | ND | ND | ND | ND | ND | ND |
| 105-67-9 | 2,4-DIMETHYLPHENOL | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 91-57-6 | 2-METHYLNAPHTHALENE | -- | -- | mg/Kg | ND | 1.9 J | ND | ND | ND | ND | ND |
| 95-48-7 | 2-METHYLPHENOL (O-CRESOL) | 0.33 | 500 | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| MEPH3MEPH | 3- AND 4- METHYLPHENOL (TOTAL) | 0.33 | 500 | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 83-32-9 | ACENAPHTHENE | 20 | 500 | mg/Kg | ND | 2.2 J | ND | ND | 0.17 J | ND | 0.47 |
| 208-96-8 | ACENAPHTHYLENE | 100 | 500 | mg/Kg | ND | 0.3 J | ND | ND | 0.25 J | ND | 1.5 |
| 98-86-2 | ACETOPHENONE | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | 0.19 J |
| 120-12-7 | ANTHRACENE | 100 | 500 | mg/Kg | ND | 0.99 J | ND | ND | 0.15 J | ND | 0.79 |
| 100-52-7 | BENZALDEHYDE | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 56-55-3 | BENZO(A)ANTHRACENE | 1 | 5.6 | mg/Kg | ND | 0.53 J | ND | ND | 0.17 J | ND | **1.6** |
| 50-32-8 | BENZO(A)PYRENE | 1 | 1 | mg/Kg | ND | 0.33 J | ND | ND | 0.18 J | ND | **1.5** |
| 205-99-2 | BENZO(B)FLUORANTHENE | 1 | 5.6 | mg/Kg | ND | 0.27 J | ND | ND | 0.16 J | ND | **2.9** |
| 191-24-2 | BENZO(G,H,I)PERYLENE | 100 | 500 | mg/Kg | ND | 0.13 J | ND | ND | ND | ND | 1.4 |
| 207-08-9 | BENZO(K)FLUORANTHENE | 0.8 | 56 | mg/Kg | ND | ND | ND | ND | ND | ND | 0.69 |
| 85-68-7 | BENZYL BUTYL PHTHALATE | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 92-52-4 | BIPHENYL (DIPHENYL) | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 117-81-7 | BIS(2-ETHYLHEXYL) PHTHALATE | -- | -- | mg/Kg | ND | ND | ND | 0.13 J | 0.14 J | ND | ND |
| 105-60-2 | CAPROLACTAM | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 86-74-8 | CARBAZOLE | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 218-01-9 | CHRYSENE | 1 | 56 | mg/Kg | ND | 0.39 J | ND | ND | 0.14 J | ND | **1.6** |
| 53-70-3 | DIBENZ(A,H)ANTHRACENE | 0.33 | 0.56 | mg/Kg | ND | ND | ND | ND | ND | ND | **0.4** J |
| 132-64-9 | DIBENZOFURAN | 7 | 350 | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 84-66-2 | DIETHYL PHTHALATE | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 131-11-3 | DIMETHYL PHTHALATE | -- | -- | mg/Kg | 1.1 J | 0.71 J | 0.8 J | 0.45 | 1.1 J | 0.92 J | 0.78 |
| 84-74-2 | DI-N-BUTYL PHTHALATE | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 117-84-0 | DI-N-OCTYLPHTHALATE | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 206-44-0 | FLUORANTHENE | 100 | 500 | mg/Kg | ND | 0.96 J | ND | ND | 0.2 J | ND | 1.7 |
| 86-73-7 | FLUORENE | 30 | 500 | mg/Kg | ND | 1.2 J | ND | ND | ND | ND | 0.34 J |
| 193-39-5 | INDENO(1,2,3-C,D)PYRENE | 0.5 | 5.6 | mg/Kg | ND | ND | ND | ND | ND | ND | **1.3** |
| 86-30-6 | N-NITROSODIPHENYLAMINE | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 91-20-3 | NAPHTHALENE | 12 | 500 | mg/Kg | ND | 2.2 J | ND | ND | ND | ND | 0.35 J |
| 87-86-5 | PENTACHLOROPHENOL | 0.8 | 6.7 | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 85-01-8 | PHENANTHRENE | 100 | 500 | mg/Kg | ND | 3.3 J | ND | ND | 0.27 J | ND | 0.83 |
| 108-95-2 | PHENOL | 0.33 | 500 | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 129-00-0 | PYRENE | 100 | 500 | mg/Kg | ND | 1.2 J | ND | ND | 0.32 J | ND | 2.4 |
| | **TOTAL SVOCS** | -- | -- | **mg/kg** | **1.1** | **16.61** | **0.8** | **0.58** | **3.25** | **0.92** | **20.74** |

Exceeds NYSDEC Part 375 Unrestricted Soil Criteria
Exceeds NYSDEC Commercial Soil Criteria
(1) NYSDEC 6 NYCRR Part 375 Environmental Remediation Program (December 2006)
(2) -- indicates no clean up objective or background level is available
(3) NA indicates compound was not analyzed for
(4) ND indicates compound was not detected
(5) J indicates an estimated concentration
(6) R indicates rejected data
(7) Grey shaded values exceed NYSDEC Part 375 Unrestricted Soil Criteria
(8) Orange shaded values exceed NYSDEC Part 375 Commercial Soil Criteria

Table 3
Farrington Street Former MGP Site
Summary of Soil Analytical Data
Consolidated Edison Company of New York

| Consolidated Edison<br>Farrington Street Remedial Investigation<br>2009-2015 Soil Analytical Data<br>Detected Compounds Only | | | | Location ID: | CSB-64 | CSB-65 | CSB-65 | CSB-65 | CSB-66 | CSB-66 | CSB-67 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Sample ID: | CSB-64 (29-31)-20140305 | CSB-65(15-17)-20140227 | CSB-65(29-31)-20140227 | CSB-65(37-39)-20140227 | SB-66(11-13)-20140226 | SB-66(29-31)-20140226 | CSB-67 (11-13)-20140303 |
| | | | | Lab Sample Id | F1553-04 | F1518-01 | F1518-02 | F1518-03 | F1518-19 | F1518-20 | F1553-02 |
| | | | | Depth: | 29 - 31 ft | 15 - 17 ft | 29 - 31 ft | 37 - 39 ft | 11 - 13 ft | 29 - 31 ft | 11 - 13 ft |
| | | | | Source: | CTECH | CTECH | CTECH | CTECH | CTECH | CTECH | CTECH |
| | | NYSDEC Part 375 Unrestricted Soil Criteria | NYSDEC Part 375 Commercial Soil Criteria | SDG: | F1553 | F1518 | F1518 | F1518 | F1518 | F1518 | F1553 |
| | | | | Matrix: | SOIL | SOIL | SOIL | SOIL | SOIL | SOIL | SOIL |
| | | | | Sampled: | 3/5/2014 13:38 | 2/27/2014 10:17 | 2/27/2014 10:40 | 2/27/2014 11:13 | 2/26/2014 13:02 | 2/26/2014 13:40 | 3/3/2014 12:45 |
| | | | | Validated: | 4/29/2014 | 5/21/2014 | 5/21/2014 | 5/21/2014 | 5/21/2014 | 5/21/2014 | 4/29/2014 |
| CAS NO. | COMPOUND | | | UNITS: | | | | | | | |
| | INORGANICS | | | | | | | | | | |
| 7429-90-5 | ALUMINUM | -- | -- | mg/Kg | 18300 | 4830 | 16100 | 6930 | 7940 | 17000 | 3180 |
| 7440-36-0 | ANTIMONY | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | 0.894 J |
| 7440-38-2 | ARSENIC | 13 | 16 | mg/Kg | 12 J | 7.36 | 10.62 | 4.15 | 12 | 10.41 | **16.4** J |
| 7440-39-3 | BARIUM | 350 | 400 | mg/Kg | 41.4 J | 66.8 J+ | 37.3 J+ | 46.4 J+ | 103 J+ | 39.1 J+ | 132 J |
| 7440-41-7 | BERYLLIUM | 7.2 | 590 | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 7440-43-9 | CADMIUM | 2.5 | 9.3 | mg/Kg | 1.95 | 0.823 | 1.63 | 0.809 | 1.17 | 1.58 | 0.446 |
| 7440-70-2 | CALCIUM | -- | -- | mg/Kg | 6990 J | 13200 J | 2950 J | 1440 J | 17600 J | 4590 J | 2830 J |
| 7440-47-3 | CHROMIUM, TOTAL | 30 | 1500 | mg/Kg | **34.8** J | 16.9 | **33.8** | 22.3 | 24.2 | **35.9** | 16.4 J |
| 7440-48-4 | COBALT | -- | -- | mg/Kg | 17 | 6.09 J+ | 16.2 J+ | 13.1 J+ | 6.62 J+ | 16.8 J+ | 7.33 |
| 7440-50-8 | COPPER | 50 | 270 | mg/Kg | 16.6 J | 27.2 J | 6.74 J | 14.2 J | **200** J | 6.4 J | **198** J |
| 7439-89-6 | IRON | -- | -- | mg/Kg | 48400 | 26300 | 42900 | 30100 | 33000 | 44600 | 41100 |
| 7439-92-1 | LEAD | 63 | 1000 | mg/Kg | 31.6 | **374** | 16.1 | 11.5 | **372** | 19 | **470** |
| 7439-95-4 | MAGNESIUM | -- | -- | mg/Kg | 8250 J | 2800 | 9610 | 3020 | 10500 | 9700 | 1270 J |
| 7439-96-5 | MANGANESE | 1600 | 10000 | mg/Kg | 598 J | 123 J | 586 J | 199 J | 165 J | 664 J | 139 J |
| 7439-97-6 | MERCURY | 0.18 | 2.8 | mg/Kg | 0.023 | **0.745** | 0.012 J | 0.008 J | 0.125 | 0.017 | **0.475** |
| 7440-02-0 | NICKEL | 30 | 310 | mg/Kg | **35.9** | 15 | **32.8** | 26.8 | 15.8 | **35.1** | 13.6 |
| 7440-09-7 | POTASSIUM | -- | -- | mg/Kg | 4110 | 738 | 4240 | 2140 | 1510 | 4450 | 394 |
| 7782-49-2 | SELENIUM | 3.9 | 1500 | mg/Kg | 1.67 | 1.91 | 2.18 | 1.41 | 2.58 | 1.9 | 1.04 J |
| 7440-22-4 | SILVER | 2 | 1500 | mg/Kg | 1.21 | 0.604 J | 1.43 | 1.15 | 0.808 | 1.55 | 1.08 |
| 7440-23-5 | SODIUM | -- | -- | mg/Kg | 1770 | 1400 | 6820 | 1610 | 978 | 3970 | 632 |
| 7440-28-0 | THALLIUM | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 7440-62-2 | VANADIUM | -- | -- | mg/Kg | 41.5 J | 20.1 | 42.5 | 27.7 | 29.8 | 42.3 | 33.7 J |
| 7440-66-6 | ZINC | 109 | 10000 | mg/Kg | **326** | **152** | 98.1 | 60.1 | **289** | 104 | 61.4 |
| 57-12-5 | CYANIDE | 27 | 27 | mg/Kg | 0.135 J | 0.408 J | 0.068 J | 0.09 J | 0.293 J | 0.083 J | 1.82 |

Exceeds NYSDEC Part 375 Unrestricted Soil Criteria
Exceeds NYSDEC Commercial Soil Criteria

(1) NYSDEC 6 NYCRR Part 375 Environmental Remediation Program (December 2006)
(2) -- indicates no clean up objective or background level is available
(3) NA indicates compound was not analyzed for
(4) ND indicates compound was not detected
(5) J indicates an estimated concentration
(6) R indicates rejected data
(7) Grey shaded values exceed NYSDEC Part 375 Unrestricted Soil Criteria
(8) Orange shaded values exceed NYSDEC Part 375 Commercial Soil Criteria

Table 3
Farrington Street Former MGP Site
Summary of Soil Analytical Data
Consolidated Edison Company of New York

| Consolidated Edison<br>Farrington Street Remedial Investigation<br>2009-2015 Soil Analytical Data<br>Detected Compounds Only | | | | Location ID: | CSB-67 | CSB-68 | CSB-68 | CSB-71 | CSB-71 | CSB-79 | CSB-79 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Sample ID: | CSB-67 (29-31)-20140303 | CSB-68 (17-19)-20140305 | CSB-68 (34-35)-20140305 | CSB-71(7-9)-20140306 | CSB-71(30-35)-20140306 | CSB-79(7-10)-20141215 | CSB-79(16-18)-20141215 |
| | | | | Lab Sample Id | F1553-01 | F1553-05 | F1553-06 | F1553-09 | F1553-10 | F5197-01 | F5197-04 |
| | | | | Depth: | 29 - 31 ft | 17 - 19 ft | 34 - 35 ft | 7 - 9 ft | 30 - 35 ft | 7 - 10 ft | 16 - 18 ft |
| | | | | Source: | CTECH | CTECH | CTECH | CTECH | CTECH | CTECH | CTECH |
| | | NYSDEC Part 375 Unrestricted Soil Criteria | NYSDEC Part 375 Commercial Soil Criteria | SDG: | F1553 | F1553 | F1553 | F1553 | F1553 | F5197 | F5197 |
| | | | | Matrix: | SOIL | SOIL | SOIL | SOIL | SOIL | SOIL | SOIL |
| | | | | Sampled: | 3/3/2014 13:24 | 3/5/2014 9:52 | 3/5/2014 10:33 | 3/6/2014 10:40 | 3/6/2014 11:38 | 12/15/2014 9:15 | 12/15/2014 9:25 |
| | | | | Validated: | 4/29/2014 | 4/29/2014 | 4/29/2014 | 4/29/2014 | 4/29/2014 | 2/25/2015 | 2/25/2015 |
| CAS NO. | COMPOUND | | | UNITS: | | | | | | | |
| | VOLATILES | | | | | | | | | | |
| 79-34-5 | 1,1,2,2-TETRACHLOROETHANE | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 120-82-1 | 1,2,4-TRICHLOROBENZENE | -- | -- | mg/Kg | ND | ND | ND | 0 R | ND | R | ND |
| 95-50-1 | 1,2-DICHLOROBENZENE | 1.1 | 500 | mg/Kg | ND | ND | ND | 0 R | ND | R | ND |
| 541-73-1 | 1,3-DICHLOROBENZENE | 2.4 | 280 | mg/Kg | ND | ND | ND | 0 R | ND | R | ND |
| 106-46-7 | 1,4-DICHLOROBENZENE | 1.8 | 130 | mg/Kg | ND | ND | ND | 0 R | ND | R | ND |
| 591-78-6 | 2-HEXANONE | -- | -- | mg/Kg | ND | ND | ND | ND | ND | 0.0123 J | ND |
| 67-64-1 | ACETONE | 0.05 | 500 | mg/Kg | 0.0426 J | **0.39** J | 0.0317 | **0.0754** | 0.046 | ND | **0.0507** |
| 71-43-2 | BENZENE | 0.06 | 44 | mg/Kg | ND | **7.4** J | ND | 0.013 J | ND | ND | ND |
| 75-15-0 | CARBON DISULFIDE | -- | -- | mg/Kg | 0.0214 J | 0.0141 J | ND | 0.0092 | 0.0132 | ND | 0.0062 J |
| 108-90-7 | CHLOROBENZENE | 1.1 | 500 | mg/Kg | ND | 0.0062 J | ND | 0.0753 J | ND | ND | ND |
| 67-66-3 | CHLOROFORM | 0.37 | 350 | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 156-59-2 | CIS-1,2-DICHLOROETHYLENE | 0.25 | 500 | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 110-82-7 | CYCLOHEXANE | -- | -- | mg/Kg | ND | 0.0037 J | ND | ND | ND | ND | ND |
| 100-41-4 | ETHYLBENZENE | 1 | 390 | mg/Kg | ND | **6.6** J | ND | ND | ND | ND | ND |
| 98-82-8 | ISOPROPYLBENZENE (CUMENE) | -- | -- | mg/Kg | ND | 2.3 J | 0.0012 J | ND | ND | 0.0023 J | ND |
| XYLMP | M,P-XYLENE (SUM OF ISOMERS) | 0.26 | 500 | mg/Kg | ND | 0.1 J | ND | ND | ND | 0.0022 J | ND |
| 79-20-9 | METHYL ACETATE | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 78-93-3 | METHYL ETHYL KETONE (2-BUTANONE) | 0.12 | 500 | mg/Kg | ND | 0.11 J | ND | 0.0105 J | ND | ND | 0.0129 J |
| 108-10-1 | METHYL ISOBUTYL KETONE | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 108-87-2 | METHYLCYCLOHEXANE | -- | -- | mg/Kg | ND | 0.0224 J | ND | ND | ND | ND | ND |
| 75-09-2 | METHYLENE CHLORIDE | 0.05 | 500 | mg/Kg | ND | ND | ND | 0.0135 | ND | 0.0023 J | 0.0044 J |
| 95-47-6 | O-XYLENE (1,2-DIMETHYLBENZENE) | 0.26 | 500 | mg/Kg | ND | 0.2 J | ND | ND | ND | ND | ND |
| 100-42-5 | STYRENE | -- | -- | mg/Kg | ND | 0.0166 J | ND | ND | ND | ND | ND |
| 1634-04-4 | TERT-BUTYL METHYL ETHER | 0.93 | 500 | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 127-18-4 | TETRACHLOROETHYLENE(PCE) | 1.3 | 150 | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 108-88-3 | TOLUENE | 0.7 | 500 | mg/Kg | ND | 0.16 J | ND | ND | ND | ND | ND |
| 79-01-6 | TRICHLOROETHYLENE (TCE) | 0.47 | 200 | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 95-63-6 | 1,2,4-TRIMETHYLBENZENE | 3.6 | 190 | mg/kg | | | | | | | |
| 108-67-8 | 1,3,5-TRIMETHYLBENZENE (MESITYLENE) | 8.4 | 190 | mg/kg | | | | | | | |
| 103-65-1 | N-PROPYLBENZENE | 3.9 | 500 | mg/kg | | | | | | | |
| 135-98-8 | SEC-BUTYLBENZENE | 11 | 500 | mg/kg | | | | | | | |
| | **TOTAL VOCS** | **--** | **--** | **mg/Kg** | **0.064** | **17.323** | **0.0329** | **0.1969** | **0.0592** | **0.0191** | **0.0742** |

Exceeds NYSDEC Part 375 Unrestricted Soil Criteria
Exceeds NYSDEC Commercial Soil Criteria
(1) NYSDEC 6 NYCRR Part 375 Environmental Remediation Program (December 2006)
(2) -- indicates no clean up objective or background level is available
(3) NA indicates compound was not analyzed for
(4) ND indicates compound was not detected
(5) J indicates an estimated concentration; J+ indicated an estimated concentration biased high.
(6) R indicates rejected data
(7) Grey shaded values exceed NYSDEC Part 375 Unrestricted Soil Criteria
(8) Orange shaded values exceed NYSDEC Part 375 Commercial Soil Criteria

Table 3
Farrington Street Former MGP Site
Summary of Soil Analytical Data
Consolidated Edison Company of New York

| Consolidated Edison<br>Farrington Street Remedial Investigation<br>2009-2015 Soil Analytical Data<br>Detected Compounds Only | | | | Location ID: | CSB-67 | CSB-68 | CSB-68 | CSB-71 | CSB-71 | CSB-79 | CSB-79 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Sample ID: | CSB-67 (29-31)-20140303 | CSB-68 (17-19)-20140305 | CSB-68 (34-35)-20140305 | CSB-71(7-9)-20140306 | CSB-71(30-35)-20140306 | CSB-79(7-10)-20141215 | CSB-79(16-18)-20141215 |
| | | | | Lab Sample Id | F1553-01 | F1553-05 | F1553-06 | F1553-09 | F1553-10 | F5197-01 | F5197-04 |
| | | | | Depth: | 29 - 31 ft | 17 - 19 ft | 34 - 35 ft | 7 - 9 ft | 30 - 35 ft | 7 - 10 ft | 16 - 18 ft |
| | | | | Source: | CTECH | CTECH | CTECH | CTECH | CTECH | CTECH | CTECH |
| | | NYSDEC Part 375 Unrestricted Soil Criteria | NYSDEC Part 375 Commercial Soil Criteria | SDG: | F1553 | F1553 | F1553 | F1553 | F1553 | F5197 | F5197 |
| | | | | Matrix: | SOIL | SOIL | SOIL | SOIL | SOIL | SOIL | SOIL |
| | | | | Sampled: | 3/3/2014 13:24 | 3/5/2014 9:52 | 3/5/2014 10:33 | 3/6/2014 10:40 | 3/6/2014 11:38 | 12/15/2014 9:15 | 12/15/2014 9:25 |
| | | | | Validated: | 4/29/2014 | 4/29/2014 | 4/29/2014 | 4/29/2014 | 4/29/2014 | 2/25/2015 | 2/25/2015 |
| CAS NO. | COMPOUND | | | UNITS: | | | | | | | |
| | SEMIVOLATILES | | | | | | | | | | |
| 95-94-3 | 1,2,4,5-TETRACHLOROBENZENE | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 58-90-2 | 2,3,4,6-TETRACHLOROPHENOL | -- | -- | mg/kg | ND | ND | ND | ND | ND | 0.22 J | ND |
| 88-06-2 | 2,4,6-TRICHLOROPHENOL | -- | -- | mg/kg | ND | ND | ND | ND | ND | ND | ND |
| 105-67-9 | 2,4-DIMETHYLPHENOL | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 91-57-6 | 2-METHYLNAPHTHALENE | -- | -- | mg/Kg | ND | 6.3 | ND | ND | ND | ND | ND |
| 95-48-7 | 2-METHYLPHENOL (O-CRESOL) | 0.33 | 500 | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| MEPH3MEPH | 3- AND 4- METHYLPHENOL (TOTAL) | 0.33 | 500 | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 83-32-9 | ACENAPHTHENE | 20 | 500 | mg/Kg | ND | 5.9 | ND | ND | ND | ND | ND |
| 208-96-8 | ACENAPHTHYLENE | 100 | 500 | mg/Kg | ND | 10.6 | ND | ND | ND | ND | ND |
| 98-86-2 | ACETOPHENONE | -- | -- | mg/Kg | ND | 0.45 J | ND | ND | ND | ND | ND |
| 120-12-7 | ANTHRACENE | 100 | 500 | mg/Kg | ND | 32.8 | ND | ND | ND | ND | ND |
| 100-52-7 | BENZALDEHYDE | -- | -- | mg/Kg | ND | ND | ND | ND | ND | R | R |
| 56-55-3 | BENZO(A)ANTHRACENE | 1 | 5.6 | mg/Kg | ND | **23.4** | ND | ND | ND | ND | ND |
| 50-32-8 | BENZO(A)PYRENE | 1 | 1 | mg/Kg | ND | **15.1** | ND | ND | ND | ND | ND |
| 205-99-2 | BENZO(B)FLUORANTHENE | 1 | 5.6 | mg/Kg | ND | **11.4** | ND | ND | ND | ND | ND |
| 191-24-2 | BENZO(G,H,I)PERYLENE | 100 | 500 | mg/Kg | ND | 6 | ND | ND | ND | ND | ND |
| 207-08-9 | BENZO(K)FLUORANTHENE | 0.8 | 56 | mg/Kg | ND | **5.1** | ND | ND | ND | ND | ND |
| 85-68-7 | BENZYL BUTYL PHTHALATE | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 92-52-4 | BIPHENYL (DIPHENYL) | -- | -- | mg/Kg | ND | 1.9 J | ND | ND | ND | ND | ND |
| 117-81-7 | BIS(2-ETHYLHEXYL) PHTHALATE | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 105-60-2 | CAPROLACTAM | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 86-74-8 | CARBAZOLE | -- | -- | mg/Kg | ND | 0.63 J | ND | ND | ND | ND | ND |
| 218-01-9 | CHRYSENE | 1 | 56 | mg/Kg | ND | **22** | ND | ND | ND | ND | ND |
| 53-70-3 | DIBENZ(A,H)ANTHRACENE | 0.33 | 0.56 | mg/Kg | ND | **1.9** J | ND | ND | ND | ND | ND |
| 132-64-9 | DIBENZOFURAN | 7 | 350 | mg/Kg | ND | 4 | ND | ND | ND | ND | ND |
| 84-66-2 | DIETHYL PHTHALATE | -- | -- | mg/Kg | 0.68 J | ND | ND | 0.78 | 0.14 J | ND | ND |
| 131-11-3 | DIMETHYL PHTHALATE | -- | -- | mg/Kg | 1 J | 0.89 J | 0.78 | 0.43 | 0.53 J | 0.93 | 0.2 J |
| 84-74-2 | DI-N-BUTYL PHTHALATE | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 117-84-0 | DI-N-OCTYLPHTHALATE | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 206-44-0 | FLUORANTHENE | 100 | 500 | mg/Kg | ND | 39.5 | ND | ND | ND | ND | ND |
| 86-73-7 | FLUORENE | 30 | 500 | mg/Kg | ND | **30.9** | ND | ND | ND | ND | ND |
| 193-39-5 | INDENO(1,2,3-C,D)PYRENE | 0.5 | 5.6 | mg/Kg | ND | **4.1** | ND | ND | ND | ND | ND |
| 86-30-6 | N-NITROSODIPHENYLAMINE | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 91-20-3 | NAPHTHALENE | 12 | 500 | mg/Kg | ND | **20.5** | ND | ND | ND | ND | ND |
| 87-86-5 | PENTACHLOROPHENOL | 0.8 | 6.7 | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 85-01-8 | PHENANTHRENE | 100 | 500 | mg/Kg | ND | 97.5 | ND | ND | ND | ND | 0.15 J |
| 108-95-2 | PHENOL | 0.33 | 500 | mg/Kg | ND | ND | ND | ND | ND | 0.14 J | 0.33 J |
| 129-00-0 | PYRENE | 100 | 500 | mg/Kg | ND | 55.2 | ND | ND | ND | ND | ND |
| | **TOTAL SVOCS** | -- | -- | **mg/kg** | **1.68** | **396.07** | **0.78** | **1.21** | **0.67** | **1.29** | **0.68** |

Exceeds NYSDEC Part 375 Unrestricted Soil Criteria
Exceeds NYSDEC Commercial Soil Criteria
(1) NYSDEC 6 NYCRR Part 375 Environmental Remediation Program (December 2006)
(2) -- indicates no clean up objective or background level is available
(3) NA indicates compound was not analyzed for
(4) ND indicates compound was not detected
(5) J indicates an estimated concentration
(6) R indicates rejected data
(7) Grey shaded values exceed NYSDEC Part 375 Unrestricted Soil Criteria
(8) Orange shaded values exceed NYSDEC Part 375 Commercial Soil Criteria

Table 3
Farrington Street Former MGP Site
Summary of Soil Analytical Data
Consolidated Edison Company of New York

| Consolidated Edison<br>Farrington Street Remedial Investigation<br>2009-2015 Soil Analytical Data<br>Detected Compounds Only | | | | Location ID: | CSB-67 | CSB-68 | CSB-68 | CSB-71 | CSB-71 | CSB-79 | CSB-79 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Sample ID: | CSB-67 (29-31)-20140303 | CSB-68 (17-19)-20140305 | CSB-68 (34-35)-20140305 | CSB-71(7-9)-20140306 | CSB-71(30-35)-20140306 | CSB-79(7-10)-20141215 | CSB-79(16-18)-20141215 |
| | | | | Lab Sample Id | F1553-01 | F1553-05 | F1553-06 | F1553-09 | F1553-10 | F5197-01 | F5197-04 |
| | | | | Depth: | 29 - 31 ft | 17 - 19 ft | 34 - 35 ft | 7 - 9 ft | 30 - 35 ft | 7 - 10 ft | 16 - 18 ft |
| | | | | Source: | CTECH | CTECH | CTECH | CTECH | CTECH | CTECH | CTECH |
| | | NYSDEC Part 375 Unrestricted Soil Criteria | NYSDEC Part 375 Commercial Soil Criteria | SDG: | F1553 | F1553 | F1553 | F1553 | F1553 | F5197 | F5197 |
| | | | | Matrix: | SOIL | SOIL | SOIL | SOIL | SOIL | SOIL | SOIL |
| | | | | Sampled: | 3/3/2014 13:24 | 3/5/2014 9:52 | 3/5/2014 10:33 | 3/6/2014 10:40 | 3/6/2014 11:38 | 12/15/2014 9:15 | 12/15/2014 9:25 |
| | | | | Validated: | 4/29/2014 | 4/29/2014 | 4/29/2014 | 4/29/2014 | 4/29/2014 | 2/25/2015 | 2/25/2015 |
| CAS NO. | COMPOUND | | | UNITS: | | | | | | | |
| | INORGANICS | | | | | | | | | | |
| 7429-90-5 | ALUMINUM | -- | -- | mg/Kg | 17300 | 6090 | 7160 | 10600 | 16400 | 1810 | 5040 J |
| 7440-36-0 | ANTIMONY | -- | -- | mg/Kg | ND | 1.35 J | ND | ND | ND | ND | ND |
| 7440-38-2 | ARSENIC | 13 | 16 | mg/Kg | 8.95 J | **13.3** J | 2.14 J | 4.17 J | 11.6 J | 8.67 | 8.77 |
| 7440-39-3 | BARIUM | 350 | 400 | mg/Kg | 36 J | 62.4 J | 16.9 J | 49.4 J | 37.7 J | 45.3 J+ | **692** |
| 7440-41-7 | BERYLLIUM | 7.2 | 590 | mg/Kg | ND | ND | ND | ND | ND | 0.268 J | 0.538 J |
| 7440-43-9 | CADMIUM | 2.5 | 9.3 | mg/Kg | 0.528 | 0.61 | ND | ND | 0.351 J | ND | 0.56 |
| 7440-70-2 | CALCIUM | -- | -- | mg/Kg | 2390 J | 6860 J | 442 J | 3650 J | 6400 J | 4120 | 5070 |
| 7440-47-3 | CHROMIUM, TOTAL | 30 | 1500 | mg/Kg | **32.2** J | 23.4 J | 16.4 J | 25.4 J | **32.7** J | 7.27 | 23.8 J |
| 7440-48-4 | COBALT | -- | -- | mg/Kg | 15.6 | 7.08 | 6.61 | 7.87 J | 15.4 J | 3.85 | 7.94 J |
| 7440-50-8 | COPPER | 50 | 270 | mg/Kg | 10.18 J | **147** J | 8.14 J | 17.2 J | 15.1 J | 16.2 | **111** J |
| 7439-89-6 | IRON | -- | -- | mg/Kg | 42100 | 45400 | 15200 | 22600 | 43000 | 7720 | 32600 J |
| 7439-92-1 | LEAD | 63 | 1000 | mg/Kg | 15.8 | **137** | 5.38 | 23.1 | 19.4 | 14.8 | **1240** J |
| 7439-95-4 | MAGNESIUM | -- | -- | mg/Kg | 8190 J | 3780 J | 2140 J | 3500 J | 7810 J | 1080 | 2670 J |
| 7439-96-5 | MANGANESE | 1600 | 10000 | mg/Kg | 601 J | 205 J | 152 J | 268 J | 591 J | 178 | 1050 |
| 7439-97-6 | MERCURY | 0.18 | 2.8 | mg/Kg | 0.014 J | **0.193** | 0.007 J | **0.224** | 0.023 | 0.025 | 0.133 |
| 7440-02-0 | NICKEL | 30 | 310 | mg/Kg | **33.3** | 15.4 | 10.81 | 26.3 | **32.9** | 11.3 | 24.8 |
| 7440-09-7 | POTASSIUM | -- | -- | mg/Kg | 3950 | 1390 | 1030 | 946 | 3970 | 247 | 1780 J |
| 7782-49-2 | SELENIUM | 3.9 | 1500 | mg/Kg | 1.39 J | 1.22 | 0.574 J | 1.15 | 2.3 | 0.588 J | 2.56 J |
| 7440-22-4 | SILVER | 2 | 1500 | mg/Kg | 1.12 | 0.342 J | 0.2 J | ND | ND | ND | 0.837 J |
| 7440-23-5 | SODIUM | -- | -- | mg/Kg | 4340 | 764 | 174 | 455 | 2180 | 164 | 2230 J |
| 7440-28-0 | THALLIUM | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 7440-62-2 | VANADIUM | -- | -- | mg/Kg | 39.1 J | 29.6 J | 17.8 J | 28.7 J | 38.6 J | 7.37 | 19.4 J |
| 7440-66-6 | ZINC | 109 | 10000 | mg/Kg | 94 | **114** | 27.9 | 45.2 | 101 | 24 | **537** J |
| 57-12-5 | CYANIDE | 27 | 27 | mg/Kg | 0.127 J | 4 | 0.08 J | 0.401 | ND | 0.172 J | 0.125 J |

Exceeds NYSDEC Part 375 Unrestricted Soil Criteria
Exceeds NYSDEC Commercial Soil Criteria

(1) NYSDEC 6 NYCRR Part 375 Environmental Remediation Program (December 2006)
(2) -- indicates no clean up objective or background level is available
(3) NA indicates compound was not analyzed for
(4) ND indicates compound was not detected
(5) J indicates an estimated concentration
(6) R indicates rejected data
(7) Grey shaded values exceed NYSDEC Part 375 Unrestricted Soil Criteria
(8) Orange shaded values exceed NYSDEC Part 375 Commercial Soil Criteria

Table 3
Farrington Street Former MGP Site
Summary of Soil Analytical Data
Consolidated Edison Company of New York

| Consolidated Edison<br>Farrington Street Remedial Investigation<br>2009-2015 Soil Analytical Data<br>Detected Compounds Only | | | | | Dup of CSB-79(16-18)-20141215 | | Dup of CSB-60(7-9)-20140228 | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Location ID: | CSB-79 | MW-CSB-60 | MW-CSB-60 | MW-CSB-60 | MW-13 | MW-13 | MW-14 |
| | | | | Sample ID: | CSB-179(16-18)-20141215 | CSB-60(7-9)-20140228 | CSB-160(7-9)-20140228 | CSB-60(29-31)-20140228 | MW-13(18-20) | MW-13(24-26) | MW-14(14-16) |
| | | | | Lab Sample Id | F5197-05 | F1518-05 | F1518-09 | F1518-06 | A2679-06 | A2679-05 | A2752-05 |
| | | | | Depth: | 16 - 18 ft | 7 - 9 ft | 7 - 9 ft | 29 - 31 ft | 18 - 20 ft | 24 - 26 ft | 14 - 16 ft |
| | | | | Source: | CTECH | CTECH | CTECH | CTECH | Chemtech | Chemtech | Chemtech |
| | | NYSDEC Part 375 Unrestricted Soil Criteria | NYSDEC Part 375 Commercial Soil Criteria | SDG: | F5197 | F1518 | F1518 | F1518 | A2679 | A2679 | A2752 |
| | | | | Matrix: | SOIL | SOIL | SOIL | SOIL | SOIL | SOIL | SOIL |
| | | | | Sampled: | 12/15/2014 9:25 | 2/28/2014 9:41 | 2/28/2014 10:00 | 2/28/2014 10:38 | 5/8/2009 0:00 | 5/8/2009 0:00 | 5/14/2009 0:00 |
| | | | | Validated: | 2/25/2015 | 5/21/2014 | 5/21/2014 | 5/21/2014 | 6/1/2009 | 6/1/2009 | 6/4/2009 |
| CAS NO. | COMPOUND | | | UNITS: | | | | | | | |
| | VOLATILES | | | | | | | | | | |
| 79-34-5 | 1,1,2,2-TETRACHLOROETHANE | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 120-82-1 | 1,2,4-TRICHLOROBENZENE | -- | -- | mg/Kg | R | ND | ND | ND | ND | ND | ND |
| 95-50-1 | 1,2-DICHLOROBENZENE | 1.1 | 500 | mg/Kg | R | ND | ND | ND | ND | ND | ND |
| 541-73-1 | 1,3-DICHLOROBENZENE | 2.4 | 280 | mg/Kg | R | ND | ND | ND | ND | ND | ND |
| 106-46-7 | 1,4-DICHLOROBENZENE | 1.8 | 130 | mg/Kg | R | ND | ND | ND | ND | ND | ND |
| 591-78-6 | 2-HEXANONE | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 67-64-1 | ACETONE | 0.05 | 500 | mg/Kg | 0.0363 J | 0.04 | **0.0594** J+ | 0.0093 J | ND | ND | ND |
| 71-43-2 | BENZENE | 0.06 | 44 | mg/Kg | ND | 0.002 J | 0.0182 J | ND | ND | ND | ND |
| 75-15-0 | CARBON DISULFIDE | -- | -- | mg/Kg | 0.0064 J | 0.0017 J | 0.0053 J | ND | ND | ND | ND |
| 108-90-7 | CHLOROBENZENE | 1.1 | 500 | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 67-66-3 | CHLOROFORM | 0.37 | 350 | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 156-59-2 | CIS-1,2-DICHLOROETHYLENE | 0.25 | 500 | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 110-82-7 | CYCLOHEXANE | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | 0.44 J |
| 100-41-4 | ETHYLBENZENE | 1 | 390 | mg/Kg | ND | ND | 0.0031 J | ND | ND | ND | **150** |
| 98-82-8 | ISOPROPYLBENZENE (CUMENE) | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | 17 |
| XYLMP | M,P-XYLENE (SUM OF ISOMERS) | 0.26 | 500 | mg/Kg | 0.0019 J | ND | 0.0033 J | ND | ND | ND | **2.4** |
| 79-20-9 | METHYL ACETATE | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 78-93-3 | METHYL ETHYL KETONE (2-BUTANONE) | 0.12 | 500 | mg/Kg | ND | ND | 0.0064 J | ND | ND | ND | ND |
| 108-10-1 | METHYL ISOBUTYL KETONE | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 108-87-2 | METHYLCYCLOHEXANE | -- | -- | mg/Kg | ND | ND | 0.0014 J | ND | ND | ND | 1.9 |
| 75-09-2 | METHYLENE CHLORIDE | 0.05 | 500 | mg/Kg | 0.0023 J | ND | ND | ND | ND | ND | ND |
| 95-47-6 | O-XYLENE (1,2-DIMETHYLBENZENE) | 0.26 | 500 | mg/Kg | ND | ND | 0.0015 J | ND | ND | ND | **19** |
| 100-42-5 | STYRENE | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 1634-04-4 | TERT-BUTYL METHYL ETHER | 0.93 | 500 | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 127-18-4 | TETRACHLOROETHYLENE(PCE) | 1.3 | 150 | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 108-88-3 | TOLUENE | 0.7 | 500 | mg/Kg | ND | ND | 0.0105 J | ND | 0.0064 J | ND | ND |
| 79-01-6 | TRICHLOROETHYLENE (TCE) | 0.47 | 200 | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 95-63-6 | 1,2,4-TRIMETHYLBENZENE | 3.6 | 190 | mg/kg | | | | | | | |
| 108-67-8 | 1,3,5-TRIMETHYLBENZENE (MESITYLENE) | 8.4 | 190 | mg/kg | | | | | | | |
| 103-65-1 | N-PROPYLBENZENE | 3.9 | 500 | mg/kg | | | | | | | |
| 135-98-8 | SEC-BUTYLBENZENE | 11 | 500 | mg/kg | | | | | | | |
| | **TOTAL VOCS** | **--** | **--** | **mg/Kg** | **0.0469** | **0.0437** | **0.1091** | **0.0093** | **0.0064** | **ND** | **190.74** |

Exceeds NYSDEC Part 375 Unrestricted Soil Criteria
Exceeds NYSDEC Commercial Soil Criteria
(1) NYSDEC 6 NYCRR Part 375 Environmental Remediation Program (December 2006)
(2) -- indicates no clean up objective or background level is available
(3) NA indicates compound was not analyzed for
(4) ND indicates compound was not detected
(5) J indicates an estimated concentration; J+ indicated an estimated concentration biased high.
(6) R indicates rejected data
(7) Grey shaded values exceed NYSDEC Part 375 Unrestricted Soil Criteria
(8) Orange shaded values exceed NYSDEC Part 375 Commercial Soil Criteria

Table 3
Farrington Street Former MGP Site
Summary of Soil Analytical Data
Consolidated Edison Company of New York

| Consolidated Edison<br>Farrington Street Remedial Investigation<br>2009-2015 Soil Analytical Data<br>Detected Compounds Only | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Location ID: | CSB-79 | MW-CSB-60 | MW-CSB-60 | MW-CSB-60 | MW-13 | MW-13 | MW-14 |
| | | | | Sample ID: | CSB-179(16-18)-20141215 | CSB-60(7-9)-20140228 | CSB-160(7-9)-20140228 | CSB-60(29-31)-20140228 | MW-13(18-20) | MW-13(24-26) | MW-14(14-16) |
| | | | | Lab Sample Id | F5197-05 | F1518-05 | F1518-09 | F1518-06 | A2679-06 | A2679-05 | A2752-05 |
| | | | | Depth: | 16 - 18 ft | 7 - 9 ft | 7 - 9 ft | 29 - 31 ft | 18 - 20 ft | 24 - 26 ft | 14 - 16 ft |
| | | | | Source: | CTECH | CTECH | CTECH | CTECH | Chemtech | Chemtech | Chemtech |
| | | NYSDEC | NYSDEC | SDG: | F5197 | F1518 | F1518 | F1518 | A2679 | A2679 | A2752 |
| | | Part 375 | Part 375 | Matrix: | SOIL | SOIL | SOIL | SOIL | SOIL | SOIL | SOIL |
| | | Unrestricted | Commercial | Sampled: | 12/15/2014 9:25 | 2/28/2014 9:41 | 2/28/2014 10:00 | 2/28/2014 10:38 | 5/8/2009 0:00 | 5/8/2009 0:00 | 5/14/2009 0:00 |
| | | Soil Criteria | Soil Criteria | Validated: | 2/25/2015 | 5/21/2014 | 5/21/2014 | 5/21/2014 | 6/1/2009 | 6/1/2009 | 6/4/2009 |
| CAS NO. | COMPOUND | | | UNITS: | | | | | | | |
| | SEMIVOLATILES | | | | | | | | | | |
| 95-94-3 | 1,2,4,5-TETRACHLOROBENZENE | -- | -- | mg/Kg | ND | ND | ND | ND | | | |
| 58-90-2 | 2,3,4,6-TETRACHLOROPHENOL | -- | -- | mg/kg | ND | ND | ND | ND | | | |
| 88-06-2 | 2,4,6-TRICHLOROPHENOL | -- | -- | mg/kg | ND | ND | ND | ND | ND | ND | ND |
| 105-67-9 | 2,4-DIMETHYLPHENOL | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 91-57-6 | 2-METHYLNAPHTHALENE | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | 260 |
| 95-48-7 | 2-METHYLPHENOL (O-CRESOL) | 0.33 | 500 | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| MEPH3MEPH | 3- AND 4- METHYLPHENOL (TOTAL) | 0.33 | 500 | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 83-32-9 | ACENAPHTHENE | 20 | 500 | mg/Kg | ND | ND | 1.3 J | ND | 0.59 | ND | **110** |
| 208-96-8 | ACENAPHTHYLENE | 100 | 500 | mg/Kg | ND | 0.85 J | 0.99 J | ND | 0.46 | ND | 12 |
| 98-86-2 | ACETOPHENONE | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 120-12-7 | ANTHRACENE | 100 | 500 | mg/Kg | ND | 1.1 J | 2.3 J | ND | 0.45 | 0.041 J | 46 |
| 100-52-7 | BENZALDEHYDE | -- | -- | mg/Kg | R | ND | ND | ND | ND | ND | ND |
| 56-55-3 | BENZO(A)ANTHRACENE | 1 | 5.6 | mg/Kg | ND | **3.9** J | **8.2** J | ND | **2.1** | 0.062 J | **35** |
| 50-32-8 | BENZO(A)PYRENE | 1 | 1 | mg/Kg | ND | **4.1** J | **7.5** J | ND | **1.3** | 0.039 J | **24** |
| 205-99-2 | BENZO(B)FLUORANTHENE | 1 | 5.6 | mg/Kg | ND | **5.8** J | **10** J | ND | 1 | ND | **21** |
| 191-24-2 | BENZO(G,H,I)PERYLENE | 100 | 500 | mg/Kg | ND | 2.7 J | 4.3 | ND | 0.48 | ND | 9.1 |
| 207-08-9 | BENZO(K)FLUORANTHENE | 0.8 | 56 | mg/Kg | ND | **1.2** J | **2.4** J | ND | 0.38 J | ND | **8.6** |
| 85-68-7 | BENZYL BUTYL PHTHALATE | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 92-52-4 | BIPHENYL (DIPHENYL) | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | 15 |
| 117-81-7 | BIS(2-ETHYLHEXYL) PHTHALATE | -- | -- | mg/Kg | ND | ND | ND | ND | 0.2 J | 0.15 J | ND |
| 105-60-2 | CAPROLACTAM | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 86-74-8 | CARBAZOLE | -- | -- | mg/Kg | ND | ND | 1.1 J | ND | ND | ND | ND |
| 218-01-9 | CHRYSENE | 1 | 56 | mg/Kg | ND | **3.7** J | **7.5** J | ND | **1.8** | 0.053 J | **33** |
| 53-70-3 | DIBENZ(A,H)ANTHRACENE | 0.33 | 0.56 | mg/Kg | ND | **0.88** J | **1.5** J | ND | 0.14 J | ND | **2.3** J |
| 132-64-9 | DIBENZOFURAN | 7 | 350 | mg/Kg | ND | ND | ND | ND | ND | ND | **9** |
| 84-66-2 | DIETHYL PHTHALATE | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 131-11-3 | DIMETHYL PHTHALATE | -- | -- | mg/Kg | 0.17 J | ND | ND | 0.55 | ND | ND | ND |
| 84-74-2 | DI-N-BUTYL PHTHALATE | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 117-84-0 | DI-N-OCTYLPHTHALATE | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 206-44-0 | FLUORANTHENE | 100 | 500 | mg/Kg | 0.11 J | 6.2 J | 13.2 J | ND | 3.9 | 0.092 J | 53 |
| 86-73-7 | FLUORENE | 30 | 500 | mg/Kg | ND | ND | 1.2 J | ND | ND | ND | **53** |
| 193-39-5 | INDENO(1,2,3-C,D)PYRENE | 0.5 | 5.6 | mg/Kg | ND | **3** J | **4.6** | ND | 0.37 J | ND | **6.2** J |
| 86-30-6 | N-NITROSODIPHENYLAMINE | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 91-20-3 | NAPHTHALENE | 12 | 500 | mg/Kg | ND | ND | 0.9 J | ND | 0.19 J | ND | **550** |
| 87-86-5 | PENTACHLOROPHENOL | 0.8 | 6.7 | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 85-01-8 | PHENANTHRENE | 100 | 500 | mg/Kg | ND | 3.2 J | 7.3 J | ND | 0.2 J | 0.07 J | **180** |
| 108-95-2 | PHENOL | 0.33 | 500 | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 129-00-0 | PYRENE | 100 | 500 | mg/Kg | ND | 5.7 J | 11.3 J | ND | 6.1 | 0.14 J | 78 |
| | **TOTAL SVOCS** | -- | -- | **mg/kg** | **0.28** | **42.33** | **85.59** | **0.55** | **19.66** | **0.647** | **1505.2** |

Exceeds NYSDEC Part 375 Unrestricted Soil Criteria
Exceeds NYSDEC Commercial Soil Criteria
(1) NYSDEC 6 NYCRR Part 375 Environmental Remediation Program (December 2006)
(2) -- indicates no clean up objective or background level is available
(3) NA indicates compound was not analyzed for
(4) ND indicates compound was not detected
(5) J indicates an estimated concentration
(6) R indicates rejected data
(7) Grey shaded values exceed NYSDEC Part 375 Unrestricted Soil Criteria
(8) Orange shaded values exceed NYSDEC Part 375 Commercial Soil Criteria

Table 3
Farrington Street Former MGP Site
Summary of Soil Analytical Data
Consolidated Edison Company of New York

| Consolidated Edison<br>Farrington Street Remedial Investigation<br>2009-2015 Soil Analytical Data<br>Detected Compounds Only | | | | | Dup of CSB-79(16-18)-20141215 | | Dup of CSB-60(7-9)-20140228 | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Location ID: | CSB-79 | MW-CSB-60 | MW-CSB-60 | MW-CSB-60 | MW-13 | MW-13 | MW-14 |
| | | | | Sample ID: | CSB-179(16-18)-20141215 | CSB-60(7-9)-20140228 | CSB-160(7-9)-20140228 | CSB-60(29-31)-20140228 | MW-13(18-20) | MW-13(24-26) | MW-14(14-16) |
| | | | | Lab Sample Id | F5197-05 | F1518-05 | F1518-09 | F1518-06 | A2679-06 | A2679-05 | A2752-05 |
| | | | | Depth: | 16 - 18 ft | 7 - 9 ft | 7 - 9 ft | 29 - 31 ft | 18 - 20 ft | 24 - 26 ft | 14 - 16 ft |
| | | | | Source: | CTECH | CTECH | CTECH | CTECH | Chemtech | Chemtech | Chemtech |
| | | NYSDEC Part 375 Unrestricted Soil Criteria | NYSDEC Part 375 Commercial Soil Criteria | SDG: | F5197 | F1518 | F1518 | F1518 | A2679 | A2679 | A2752 |
| | | | | Matrix: | SOIL | SOIL | SOIL | SOIL | SOIL | SOIL | SOIL |
| | | | | Sampled: | 12/15/2014 9:25 | 2/28/2014 9:41 | 2/28/2014 10:00 | 2/28/2014 10:38 | 5/8/2009 0:00 | 5/8/2009 0:00 | 5/14/2009 0:00 |
| | | | | Validated: | 2/25/2015 | 5/21/2014 | 5/21/2014 | 5/21/2014 | 6/1/2009 | 6/1/2009 | 6/4/2009 |
| CAS NO. | COMPOUND | | | UNITS: | | | | | | | |
| | INORGANICS | | | | | | | | | | |
| 7429-90-5 | ALUMINUM | -- | -- | mg/Kg | 2490 J | 6300 | 5850 | 6020 | 2820 | 2320 | 4750 |
| 7440-36-0 | ANTIMONY | -- | -- | mg/Kg | ND | ND | 31.5 J | ND | ND | ND | ND |
| 7440-38-2 | ARSENIC | 13 | 16 | mg/Kg | 5.41 | 9.26 | **33.8** | 3.17 | ND | ND | ND |
| 7440-39-3 | BARIUM | 350 | 400 | mg/Kg | **421** | 67.8 J | 30.4 J | 22.4 J+ | 28.1 | 48.2 | 60 |
| 7440-41-7 | BERYLLIUM | 7.2 | 590 | mg/Kg | 0.291 J | ND | 6.33 J | ND | 0.12 J | 0.12 J | 0.21 J |
| 7440-43-9 | CADMIUM | 2.5 | 9.3 | mg/Kg | 0.401 | 1.52 | **10.24** | 0.246 J | ND | ND | 0.35 |
| 7440-70-2 | CALCIUM | -- | -- | mg/Kg | 3470 | 17800 J | 510 J | 475 J | 715 | 1630 | 1830 |
| 7440-47-3 | CHROMIUM, TOTAL | 30 | 1500 | mg/Kg | 10.23 J | 22.1 | **30.9** | 14.5 | 10.9 | 16.2 | 17.1 |
| 7440-48-4 | COBALT | -- | -- | mg/Kg | 4.45 J | 10.71 J+ | 18.5 J+ | 9.02 J+ | 4.11 | 5.01 | 6.96 |
| 7440-50-8 | COPPER | 50 | 270 | mg/Kg | **53.4** J | **170** J | 23.4 J | 11.8 J | 9.81 | 11.2 | 12.8 |
| 7439-89-6 | IRON | -- | -- | mg/Kg | 12700 J | 24100 | 18400 | 18800 | 11400 | 14400 | 13700 |
| 7439-92-1 | LEAD | 63 | 1000 | mg/Kg | **731** J | **183** | 55.6 | 6.16 J+ | 2.61 | 1.82 | 4.31 |
| 7439-95-4 | MAGNESIUM | -- | -- | mg/Kg | 1150 J | 5080 J | 2280 J | 2220 | 1170 | 1630 | 2110 |
| 7439-96-5 | MANGANESE | 1600 | 10000 | mg/Kg | 680 | 183 J | 796 J | 827 J | 63.4 | 163 | 208 |
| 7439-97-6 | MERCURY | 0.18 | 2.8 | mg/Kg | 0.151 | **0.235** J | **0.474** J | ND | 0.007 J | 0.002 J | 0.013 |
| 7440-02-0 | NICKEL | 30 | 310 | mg/Kg | 15.1 | 24.6 | **38.1** | 13.3 | 8.41 | 11.6 | 19.4 |
| 7440-09-7 | POTASSIUM | -- | -- | mg/Kg | 887 J | 744 J | 1510 J | 1100 | 999 | 711 | 1960 |
| 7782-49-2 | SELENIUM | 3.9 | 1500 | mg/Kg | 1.21 J | 1.26 J | **78.1** J | 0.892 J | 0.72 J | 0.75 J | 0.91 |
| 7440-22-4 | SILVER | 2 | 1500 | mg/Kg | 0.325 J | 0.72 J | **3.71** J | 0.553 | ND | ND | ND |
| 7440-23-5 | SODIUM | -- | -- | mg/Kg | 1020 J | 383 | 297 | 166 | 147 | 152 | 145 |
| 7440-28-0 | THALLIUM | -- | -- | mg/Kg | ND | ND | 96.7 J | ND | ND | ND | ND |
| 7440-62-2 | VANADIUM | -- | -- | mg/Kg | 10.09 J | 31 | 31 | 19.6 | 13.4 | 11.9 | 19.2 |
| 7440-66-6 | ZINC | 109 | 10000 | mg/Kg | **304** J | **130** | 42.7 | 34.1 | 24.2 | 25.1 | 24 |
| 57-12-5 | CYANIDE | 27 | 27 | mg/Kg | ND | 0.711 | 0.511 | 0.074 J | ND | ND | ND |

Exceeds NYSDEC Part 375 Unrestricted Soil Criteria
Exceeds NYSDEC Commercial Soil Criteria

(1) NYSDEC 6 NYCRR Part 375 Environmental Remediation Program (December 2006)
(2) -- indicates no clean up objective or background level is available
(3) NA indicates compound was not analyzed for
(4) ND indicates compound was not detected
(5) J indicates an estimated concentration
(6) R indicates rejected data
(7) Grey shaded values exceed NYSDEC Part 375 Unrestricted Soil Criteria
(8) Orange shaded values exceed NYSDEC Part 375 Commercial Soil Criteria

Table 3
Farrington Street Former MGP Site
Summary of Soil Analytical Data
Consolidated Edison Company of New York

| Consolidated Edison<br>Farrington Street Remedial Investigation<br>2009-2015 Soil Analytical Data<br>Detected Compounds Only | | | | Location ID: | MW-14 | MW-15 | MW-15 | MW-16 | MW-16 | MW-16 | MW-16 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Sample ID: | MW-14(24-26) | MW-15(14-16) | MW-15-(28-30) | MW-16(6) | MW-16(8-10) | MW-16(14-16) | MW-16(28-30) |
| | | | | Lab Sample Id | A2752-08 | A2679-02 | A2679-03 | A2567-01 | A2710-06 | A2710-04 | A2710-05 |
| | | | | Depth: | 24 - 26 ft | 14 - 16 ft | 28 - 30 ft | 6 ft | 8 - 10 ft | 14 - 16 ft | 28 - 30 ft |
| | | | | Source: | Chemtech | Chemtech | Chemtech | Chemtech | Chemtech | Chemtech | Chemtech |
| | | NYSDEC Part 375 Unrestricted Soil Criteria | NYSDEC Part 375 Commercial Soil Criteria | SDG: | A2752 | A2679 | A2679 | A2567 | A2710 | A2710 | A2710 |
| | | | | Matrix: | SOIL | SOIL | SOIL | SOIL | SOIL | SOIL | SOIL |
| | | | | Sampled: | 5/14/2009 0:00 | 5/7/2009 0:00 | 5/7/2009 0:00 | 4/30/2009 0:00 | 5/12/2009 0:00 | 5/12/2009 0:00 | 5/12/2009 0:00 |
| | | | | Validated: | 6/4/2009 | 6/1/2009 | 6/1/2009 | 5/26/2009 | 6/3/2009 | 6/3/2009 | 6/3/2009 |
| CAS NO. | COMPOUND | | | UNITS: | | | | | | | |
| | VOLATILES | | | | | | | | | | |
| 79-34-5 | 1,1,2,2-TETRACHLOROETHANE | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 120-82-1 | 1,2,4-TRICHLOROBENZENE | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 95-50-1 | 1,2-DICHLOROBENZENE | 1.1 | 500 | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 541-73-1 | 1,3-DICHLOROBENZENE | 2.4 | 280 | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 106-46-7 | 1,4-DICHLOROBENZENE | 1.8 | 130 | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 591-78-6 | 2-HEXANONE | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 67-64-1 | ACETONE | 0.05 | 500 | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 71-43-2 | BENZENE | 0.06 | 44 | mg/Kg | ND | ND | ND | **39** | **9.3** | **1.1** | ND |
| 75-15-0 | CARBON DISULFIDE | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 108-90-7 | CHLOROBENZENE | 1.1 | 500 | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 67-66-3 | CHLOROFORM | 0.37 | 350 | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 156-59-2 | CIS-1,2-DICHLOROETHYLENE | 0.25 | 500 | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 110-82-7 | CYCLOHEXANE | -- | -- | mg/Kg | ND | ND | ND | 0.59 J | 0.45 J | 0.66 J | ND |
| 100-41-4 | ETHYLBENZENE | 1 | 390 | mg/Kg | ND | **9.6** | ND | **230** | **100** | **39** | ND |
| 98-82-8 | ISOPROPYLBENZENE (CUMENE) | -- | -- | mg/Kg | ND | 4.7 | ND | 19 | 13 | 15 | ND |
| XYLMP | M,P-XYLENE (SUM OF ISOMERS) | 0.26 | 500 | mg/Kg | ND | 0.25 J | ND | **280** | **100** | **8.9** | ND |
| 79-20-9 | METHYL ACETATE | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 78-93-3 | METHYL ETHYL KETONE (2-BUTANONE) | 0.12 | 500 | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 108-10-1 | METHYL ISOBUTYL KETONE | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 108-87-2 | METHYLCYCLOHEXANE | -- | -- | mg/Kg | ND | 0.9 J | ND | 2.4 | 1.8 J | 4.8 J | ND |
| 75-09-2 | METHYLENE CHLORIDE | 0.05 | 500 | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 95-47-6 | O-XYLENE (1,2-DIMETHYLBENZENE) | 0.26 | 500 | mg/Kg | ND | **1.3** | ND | **43** | **56** J | **12** J | ND |
| 100-42-5 | STYRENE | -- | -- | mg/Kg | ND | ND | ND | ND | 0.39 J | ND | ND |
| 1634-04-4 | TERT-BUTYL METHYL ETHER | 0.93 | 500 | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 127-18-4 | TETRACHLOROETHYLENE(PCE) | 1.3 | 150 | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 108-88-3 | TOLUENE | 0.7 | 500 | mg/Kg | ND | ND | ND | **2.7** | **1.8** | 0.5 J | ND |
| 79-01-6 | TRICHLOROETHYLENE (TCE) | 0.47 | 200 | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 95-63-6 | 1,2,4-TRIMETHYLBENZENE | 3.6 | 190 | mg/kg | | | | | | | |
| 108-67-8 | 1,3,5-TRIMETHYLBENZENE (MESITYLENE) | 8.4 | 190 | mg/kg | | | | | | | |
| 103-65-1 | N-PROPYLBENZENE | 3.9 | 500 | mg/kg | | | | | | | |
| 135-98-8 | SEC-BUTYLBENZENE | 11 | 500 | mg/kg | | | | | | | |
| | **TOTAL VOCS** | **--** | **--** | **mg/Kg** | **ND** | **16.75** | **ND** | **616.69** | **282.74** | **81.96** | **ND** |

Exceeds NYSDEC Part 375 Unrestricted Soil Criteria
Exceeds NYSDEC Commercial Soil Criteria
(1) NYSDEC 6 NYCRR Part 375 Environmental Remediation Program (December 2006)
(2) -- indicates no clean up objective or background level is available
(3) NA indicates compound was not analyzed for
(4) ND indicates compound was not detected
(5) J indicates an estimated concentration; J+ indicated an estimated concentration biased high.
(6) R indicates rejected data
(7) Grey shaded values exceed NYSDEC Part 375 Unrestricted Soil Criteria
(8) Orange shaded values exceed NYSDEC Part 375 Commercial Soil Criteria

Table 3
Farrington Street Former MGP Site
Summary of Soil Analytical Data
Consolidated Edison Company of New York

| Consolidated Edison<br>Farrington Street Remedial Investigation<br>2009-2015 Soil Analytical Data<br>Detected Compounds Only | | | | Location ID: | MW-14 | MW-15 | MW-15 | MW-16 | MW-16 | MW-16 | MW-16 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Sample ID: | MW-14(24-26) | MW-15(14-16) | MW-15-(28-30) | MW-16(6) | MW-16(8-10) | MW-16(14-16) | MW-16(28-30) |
| | | | | Lab Sample Id | A2752-08 | A2679-02 | A2679-03 | A2567-01 | A2710-06 | A2710-04 | A2710-05 |
| | | | | Depth: | 24 - 26 ft | 14 - 16 ft | 28 - 30 ft | 6 ft | 8 - 10 ft | 14 - 16 ft | 28 - 30 ft |
| | | | | Source: | Chemtech | Chemtech | Chemtech | Chemtech | Chemtech | Chemtech | Chemtech |
| | | NYSDEC Part 375 Unrestricted Soil Criteria | NYSDEC Part 375 Commercial Soil Criteria | SDG: | A2752 | A2679 | A2679 | A2567 | A2710 | A2710 | A2710 |
| | | | | Matrix: | SOIL | SOIL | SOIL | SOIL | SOIL | SOIL | SOIL |
| | | | | Sampled: | 5/14/2009 0:00 | 5/7/2009 0:00 | 5/7/2009 0:00 | 4/30/2009 0:00 | 5/12/2009 0:00 | 5/12/2009 0:00 | 5/12/2009 0:00 |
| | | | | Validated: | 6/4/2009 | 6/1/2009 | 6/1/2009 | 5/26/2009 | 6/3/2009 | 6/3/2009 | 6/3/2009 |
| CAS NO. | COMPOUND | | | UNITS: | | | | | | | |
| | SEMIVOLATILES | | | | | | | | | | |
| 95-94-3 | 1,2,4,5-TETRACHLOROBENZENE | -- | -- | mg/Kg | | | | | | | |
| 58-90-2 | 2,3,4,6-TETRACHLOROPHENOL | -- | -- | mg/kg | | | | | | | |
| 88-06-2 | 2,4,6-TRICHLOROPHENOL | -- | -- | mg/kg | ND | ND | ND | ND | ND | ND | ND |
| 105-67-9 | 2,4-DIMETHYLPHENOL | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 91-57-6 | 2-METHYLNAPHTHALENE | -- | -- | mg/Kg | ND | 50 | 0.27 J | 130 | 81 | 460 | 0.43 |
| 95-48-7 | 2-METHYLPHENOL (O-CRESOL) | 0.33 | 500 | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| MEPH3MEPH | 3- AND 4- METHYLPHENOL (TOTAL) | 0.33 | 500 | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 83-32-9 | ACENAPHTHENE | 20 | 500 | mg/Kg | 0.17 J | **33** | 0.49 | **37** | 3.7 J | **87** | 0.16 J |
| 208-96-8 | ACENAPHTHYLENE | 100 | 500 | mg/Kg | 0.049 J | 4.2 | 0.055 J | 8.4 | 3.7 J | 9.4 | ND |
| 98-86-2 | ACETOPHENONE | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 120-12-7 | ANTHRACENE | 100 | 500 | mg/Kg | 0.063 J | 19 | 0.27 J | 30 | 3.3 J | 40 | 0.089 J |
| 100-52-7 | BENZALDEHYDE | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 56-55-3 | BENZO(A)ANTHRACENE | 1 | 5.6 | mg/Kg | 0.23 J | **12** | 0.16 J | **19** | **2.2** J | **27** | 0.066 J |
| 50-32-8 | BENZO(A)PYRENE | 1 | 1 | mg/Kg | 0.15 J | **7.2** | 0.097 J | **12** | **1.5** J | **17** | 0.04 J |
| 205-99-2 | BENZO(B)FLUORANTHENE | 1 | 5.6 | mg/Kg | 0.12 J | **6.5** | 0.074 J | **17** | **1.6** J | **14** | ND |
| 191-24-2 | BENZO(G,H,I)PERYLENE | 100 | 500 | mg/Kg | 0.057 J | 3 J | ND | 2.3 J | 1 J | 6.9 | ND |
| 207-08-9 | BENZO(K)FLUORANTHENE | 0.8 | 56 | mg/Kg | 0.055 J | **1.9** J | ND | **3.9** J | ND | **4.6** | ND |
| 85-68-7 | BENZYL BUTYL PHTHALATE | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 92-52-4 | BIPHENYL (DIPHENYL) | -- | -- | mg/Kg | ND | 3.4 J | ND | 11 | 4.8 J | 21 | ND |
| 117-81-7 | BIS(2-ETHYLHEXYL) PHTHALATE | -- | -- | mg/Kg | ND | 0.43 J | 0.11 J | ND | ND | ND | 0.086 J |
| 105-60-2 | CAPROLACTAM | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 86-74-8 | CARBAZOLE | -- | -- | mg/Kg | ND | 0.74 J | ND | 2.3 J | ND | ND | ND |
| 218-01-9 | CHRYSENE | 1 | 56 | mg/Kg | 0.21 J | **11** | 0.14 J | **14** | **2.2** J | **23** | 0.056 J |
| 53-70-3 | DIBENZ(A,H)ANTHRACENE | 0.33 | 0.56 | mg/Kg | ND | **0.76** J | ND | **0.6** J | ND | **1.7** J | ND |
| 132-64-9 | DIBENZOFURAN | 7 | 350 | mg/Kg | ND | 2.5 J | ND | **13** | 1.5 J | ND | ND |
| 84-66-2 | DIETHYL PHTHALATE | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 131-11-3 | DIMETHYL PHTHALATE | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 84-74-2 | DI-N-BUTYL PHTHALATE | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 117-84-0 | DI-N-OCTYLPHTHALATE | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 206-44-0 | FLUORANTHENE | 100 | 500 | mg/Kg | 0.37 J | 20 | 0.28 J | 45 | 4.6 J | 51 | 0.12 J |
| 86-73-7 | FLUORENE | 30 | 500 | mg/Kg | 0.056 J | 19 | 0.15 J | 24 | 5.7 J | **50** | 0.095 J |
| 193-39-5 | INDENO(1,2,3-C,D)PYRENE | 0.5 | 5.6 | mg/Kg | ND | **2.4** J | ND | **2.7** J | **0.85** J | **5.9** | ND |
| 86-30-6 | N-NITROSODIPHENYLAMINE | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 91-20-3 | NAPHTHALENE | 12 | 500 | mg/Kg | ND | **100** | 0.31 J | **290** | **100** | **780** | 0.63 |
| 87-86-5 | PENTACHLOROPHENOL | 0.8 | 6.7 | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 85-01-8 | PHENANTHRENE | 100 | 500 | mg/Kg | 0.16 J | 54 | 0.71 | **130** | 14 | **200** | 0.31 J |
| 108-95-2 | PHENOL | 0.33 | 500 | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 129-00-0 | PYRENE | 100 | 500 | mg/Kg | 0.59 | 25 | 0.38 J | 55 | 5.9 J | 61 | 0.15 J |
| | **TOTAL SVOCS** | -- | -- | **mg/kg** | **2.28** | **376.03** | **3.496** | **847.2** | **237.55** | **1859.5** | **2.232** |

Exceeds NYSDEC Part 375 Unrestricted Soil Criteria
Exceeds NYSDEC Commercial Soil Criteria
(1) NYSDEC 6 NYCRR Part 375 Environmental Remediation Program (December 2006)
(2) -- indicates no clean up objective or background level is available
(3) NA indicates compound was not analyzed for
(4) ND indicates compound was not detected
(5) J indicates an estimated concentration
(6) R indicates rejected data
(7) Grey shaded values exceed NYSDEC Part 375 Unrestricted Soil Criteria
(8) Orange shaded values exceed NYSDEC Part 375 Commercial Soil Criteria

Table 3
Farrington Street Former MGP Site
Summary of Soil Analytical Data
Consolidated Edison Company of New York

| Consolidated Edison<br>Farrington Street Remedial Investigation<br>2009-2015 Soil Analytical Data<br>Detected Compounds Only | | | | Location ID: | MW-14 | MW-15 | MW-15 | MW-16 | MW-16 | MW-16 | MW-16 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Sample ID: | MW-14(24-26) | MW-15(14-16) | MW-15-(28-30) | MW-16(6) | MW-16(8-10) | MW-16(14-16) | MW-16(28-30) |
| | | | | Lab Sample Id | A2752-08 | A2679-02 | A2679-03 | A2567-01 | A2710-06 | A2710-04 | A2710-05 |
| | | | | Depth: | 24 - 26 ft | 14 - 16 ft | 28 - 30 ft | 6 ft | 8 - 10 ft | 14 - 16 ft | 28 - 30 ft |
| | | | | Source: | Chemtech | Chemtech | Chemtech | Chemtech | Chemtech | Chemtech | Chemtech |
| | | NYSDEC Part 375 Unrestricted Soil Criteria | NYSDEC Part 375 Commercial Soil Criteria | SDG: | A2752 | A2679 | A2679 | A2567 | A2710 | A2710 | A2710 |
| | | | | Matrix: | SOIL | SOIL | SOIL | SOIL | SOIL | SOIL | SOIL |
| | | | | Sampled: | 5/14/2009 0:00 | 5/7/2009 0:00 | 5/7/2009 0:00 | 4/30/2009 0:00 | 5/12/2009 0:00 | 5/12/2009 0:00 | 5/12/2009 0:00 |
| | | | | Validated: | 6/4/2009 | 6/1/2009 | 6/1/2009 | 5/26/2009 | 6/3/2009 | 6/3/2009 | 6/3/2009 |
| CAS NO. | COMPOUND | | | UNITS: | | | | | | | |
| | INORGANICS | | | | | | | | | | |
| 7429-90-5 | ALUMINUM | -- | -- | mg/Kg | 2440 | 3680 | 8920 | 6630 | 7110 | 3030 | 2820 |
| 7440-36-0 | ANTIMONY | -- | -- | mg/Kg | ND | ND | ND | 0.81 J | 0.87 J | ND | ND |
| 7440-38-2 | ARSENIC | 13 | 16 | mg/Kg | 0.39 J | 0.29 J | ND | **25.7** | **25.7** | 0.97 | ND |
| 7440-39-3 | BARIUM | 350 | 400 | mg/Kg | 22.6 | 41.3 | 120 | 82.7 | 109 | 27.8 | 32.3 |
| 7440-41-7 | BERYLLIUM | 7.2 | 590 | mg/Kg | 0.18 J | 0.16 J | 0.24 J | 0.32 | 0.32 | 0.11 J | 0.14 J |
| 7440-43-9 | CADMIUM | 2.5 | 9.3 | mg/Kg | 0.25 | ND | 0.14 J | **5.4** | 1.95 | 0.21 J | 0.2 J |
| 7440-70-2 | CALCIUM | -- | -- | mg/Kg | 958 | 1210 | 1540 | 1380 | 10200 | 1440 | 740 |
| 7440-47-3 | CHROMIUM, TOTAL | 30 | 1500 | mg/Kg | 12.5 | 15.3 | 27.3 | 23.6 | 24.5 | 10.9 | 13.7 |
| 7440-48-4 | COBALT | -- | -- | mg/Kg | 5.54 | 6.52 | 9.21 | 7.32 | 5.38 | 3.82 | 4.6 |
| 7440-50-8 | COPPER | 50 | 270 | mg/Kg | 26.3 | 23 | 15.1 | 32.7 | 36 | 10.3 | 10.4 |
| 7439-89-6 | IRON | -- | -- | mg/Kg | 15300 | 14400 | 18100 | 27200 | 38600 | 10500 | 12300 |
| 7439-92-1 | LEAD | 63 | 1000 | mg/Kg | 2.36 | 6.85 | 3.52 | **172** | **250** | 10.8 | 2.32 |
| 7439-95-4 | MAGNESIUM | -- | -- | mg/Kg | 963 | 1680 | 4080 | 2480 | 3090 | 1950 | 1420 |
| 7439-96-5 | MANGANESE | 1600 | 10000 | mg/Kg | 226 | 137 | 377 | 85.9 | 149 | 76.6 | 128 |
| 7439-97-6 | MERCURY | 0.18 | 2.8 | mg/Kg | 0.004 J | 0.022 | 0.007 J | 0.066 | 0.083 | 0.003 J | ND |
| 7440-02-0 | NICKEL | 30 | 310 | mg/Kg | 16.7 | 14.6 | 20.1 | 17.3 | 14.3 | 14.3 | 13.7 |
| 7440-09-7 | POTASSIUM | -- | -- | mg/Kg | 744 | 1250 | 4080 | 2190 | 2320 | 1040 | 1180 |
| 7782-49-2 | SELENIUM | 3.9 | 1500 | mg/Kg | 0.93 | 1.14 | 0.81 J | 1.58 | ND | ND | ND |
| 7440-22-4 | SILVER | 2 | 1500 | mg/Kg | ND | ND | ND | ND | 0.15 J | ND | ND |
| 7440-23-5 | SODIUM | -- | -- | mg/Kg | 170 | 180 | 422 | ND | 310 | 138 | 383 |
| 7440-28-0 | THALLIUM | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 7440-62-2 | VANADIUM | -- | -- | mg/Kg | 18.6 | 24 | 30.3 | 34 | 37.1 | 13.1 | 15 |
| 7440-66-6 | ZINC | 109 | 10000 | mg/Kg | 17.1 | 45 | 39.1 | **1990** | **179** | 30.3 | 18.3 |
| 57-12-5 | CYANIDE | 27 | 27 | mg/Kg | ND | ND | ND | 1.4 | 1.07 | ND | ND |

Exceeds NYSDEC Part 375 Unrestricted Soil Criteria
Exceeds NYSDEC Commercial Soil Criteria

(1) NYSDEC 6 NYCRR Part 375 Environmental Remediation Program (December 2006)
(2) -- indicates no clean up objective or background level is available
(3) NA indicates compound was not analyzed for
(4) ND indicates compound was not detected
(5) J indicates an estimated concentration
(6) R indicates rejected data
(7) Grey shaded values exceed NYSDEC Part 375 Unrestricted Soil Criteria
(8) Orange shaded values exceed NYSDEC Part 375 Commercial Soil Criteria

Table 3
Farrington Street Former MGP Site
Summary of Soil Analytical Data
Consolidated Edison Company of New York

| Consolidated Edison<br>Farrington Street Remedial Investigation<br>2009-2015 Soil Analytical Data<br>Detected Compounds Only | | | | Location ID: | MW-17 | MW-17 | MW-18 | MW-18 | MW-19 | MW-19 | MW-20 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Sample ID: | MW-17(14-16) | MW-17(22-24) | MW-18(14-16) | MW-18(22-24) | MW-19(16-18) | MW-19(28-30) | MW-20(14-16) |
| | | | | Lab Sample Id | A2710-01 | A2710-02 | A2710-09 | A2710-10 | A2819-01 | A2819-02 | A2752-01 |
| | | | | Depth: | 14 - 16 ft | 22 - 24 ft | 14 - 16 ft | 22 - 24 ft | 16 - 18 ft | 28 - 30 ft | 14 - 16 ft |
| | | | | Source: | Chemtech | Chemtech | Chemtech | Chemtech | Chemtech | Chemtech | Chemtech |
| | | NYSDEC Part 375 Unrestricted Soil Criteria | NYSDEC Part 375 Commercial Soil Criteria | SDG: | A2710 | A2710 | A2710 | A2710 | A2819 | A2819 | A2752 |
| | | | | Matrix: | SOIL | SOIL | SOIL | SOIL | SOIL | SOIL | SOIL |
| | | | | Sampled: | 5/11/2009 0:00 | 5/11/2009 0:00 | 5/12/2009 0:00 | 5/12/2009 0:00 | 5/18/2009 0:00 | 5/18/2009 0:00 | 5/13/2009 0:00 |
| | | | | Validated: | 6/3/2009 | 6/3/2009 | 6/3/2009 | 6/3/2009 | 6/11/2009 | 6/11/2009 | 6/4/2009 |
| CAS NO. | COMPOUND | | | UNITS: | | | | | | | |
| | VOLATILES | | | | | | | | | | |
| 79-34-5 | 1,1,2,2-TETRACHLOROETHANE | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 120-82-1 | 1,2,4-TRICHLOROBENZENE | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 95-50-1 | 1,2-DICHLOROBENZENE | 1.1 | 500 | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 541-73-1 | 1,3-DICHLOROBENZENE | 2.4 | 280 | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 106-46-7 | 1,4-DICHLOROBENZENE | 1.8 | 130 | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 591-78-6 | 2-HEXANONE | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 67-64-1 | ACETONE | 0.05 | 500 | mg/Kg | ND | ND | ND | ND | R | R | ND |
| 71-43-2 | BENZENE | 0.06 | 44 | mg/Kg | ND | ND | **0.92** J | ND | ND | ND | ND |
| 75-15-0 | CARBON DISULFIDE | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 108-90-7 | CHLOROBENZENE | 1.1 | 500 | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 67-66-3 | CHLOROFORM | 0.37 | 350 | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 156-59-2 | CIS-1,2-DICHLOROETHYLENE | 0.25 | 500 | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 110-82-7 | CYCLOHEXANE | -- | -- | mg/Kg | ND | ND | 0.81 J | ND | 2.5 J | ND | ND |
| 100-41-4 | ETHYLBENZENE | 1 | 390 | mg/Kg | 0.041 J | ND | **8.7** | ND | **94** | ND | ND |
| 98-82-8 | ISOPROPYLBENZENE (CUMENE) | -- | -- | mg/Kg | 0.041 J | ND | 1.6 | ND | 13 | ND | ND |
| XYLMP | M,P-XYLENE (SUM OF ISOMERS) | 0.26 | 500 | mg/Kg | 0.04 J | ND | **2.4** | ND | **13** | ND | ND |
| 79-20-9 | METHYL ACETATE | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 78-93-3 | METHYL ETHYL KETONE (2-BUTANONE) | 0.12 | 500 | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 108-10-1 | METHYL ISOBUTYL KETONE | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 108-87-2 | METHYLCYCLOHEXANE | -- | -- | mg/Kg | 0.31 J | ND | 6.2 J | ND | 13 J | 0.0089 J | ND |
| 75-09-2 | METHYLENE CHLORIDE | 0.05 | 500 | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 95-47-6 | O-XYLENE (1,2-DIMETHYLBENZENE) | 0.26 | 500 | mg/Kg | 0.031 J | ND | **2.9** | ND | **21** | ND | ND |
| 100-42-5 | STYRENE | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 1634-04-4 | TERT-BUTYL METHYL ETHER | 0.93 | 500 | mg/Kg | ND | 0.01 J | ND | ND | ND | ND | ND |
| 127-18-4 | TETRACHLOROETHYLENE(PCE) | 1.3 | 150 | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 108-88-3 | TOLUENE | 0.7 | 500 | mg/Kg | 0.027 J | ND | ND | ND | 0.59 J | ND | ND |
| 79-01-6 | TRICHLOROETHYLENE (TCE) | 0.47 | 200 | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 95-63-6 | 1,2,4-TRIMETHYLBENZENE | 3.6 | 190 | mg/kg | | | | | | | |
| 108-67-8 | 1,3,5-TRIMETHYLBENZENE (MESITYLENE) | 8.4 | 190 | mg/kg | | | | | | | |
| 103-65-1 | N-PROPYLBENZENE | 3.9 | 500 | mg/kg | | | | | | | |
| 135-98-8 | SEC-BUTYLBENZENE | 11 | 500 | mg/kg | | | | | | | |
| | **TOTAL VOCS** | **--** | **--** | **mg/Kg** | **0.49** | **0.01** | **23.53** | **ND** | **157.09** | **0.0089** | **ND** |

Exceeds NYSDEC Part 375 Unrestricted Soil Criteria
Exceeds NYSDEC Commercial Soil Criteria
(1) NYSDEC 6 NYCRR Part 375 Environmental Remediation Program (December 2006)
(2) -- indicates no clean up objective or background level is available
(3) NA indicates compound was not analyzed for
(4) ND indicates compound was not detected
(5) J indicates an estimated concentration; J+ indicated an estimated concentration biased high.
(6) R indicates rejected data
(7) Grey shaded values exceed NYSDEC Part 375 Unrestricted Soil Criteria
(8) Orange shaded values exceed NYSDEC Part 375 Commercial Soil Criteria

Table 3
Farrington Street Former MGP Site
Summary of Soil Analytical Data
Consolidated Edison Company of New York

| Consolidated Edison<br>Farrington Street Remedial Investigation<br>2009-2015 Soil Analytical Data<br>Detected Compounds Only | | | | Location ID: | MW-17 | MW-17 | MW-18 | MW-18 | MW-19 | MW-19 | MW-20 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Sample ID: | MW-17(14-16) | MW-17(22-24) | MW-18(14-16) | MW-18(22-24) | MW-19(16-18) | MW-19(28-30) | MW-20(14-16) |
| | | | | Lab Sample Id | A2710-01 | A2710-02 | A2710-09 | A2710-10 | A2819-01 | A2819-02 | A2752-01 |
| | | | | Depth: | 14 - 16 ft | 22 - 24 ft | 14 - 16 ft | 22 - 24 ft | 16 - 18 ft | 28 - 30 ft | 14 - 16 ft |
| | | | | Source: | Chemtech | Chemtech | Chemtech | Chemtech | Chemtech | Chemtech | Chemtech |
| | | NYSDEC Part 375 Unrestricted Soil Criteria | NYSDEC Part 375 Commercial Soil Criteria | SDG: | A2710 | A2710 | A2710 | A2710 | A2819 | A2819 | A2752 |
| | | | | Matrix: | SOIL | SOIL | SOIL | SOIL | SOIL | SOIL | SOIL |
| | | | | Sampled: | 5/11/2009 0:00 | 5/11/2009 0:00 | 5/12/2009 0:00 | 5/12/2009 0:00 | 5/18/2009 0:00 | 5/18/2009 0:00 | 5/13/2009 0:00 |
| | | | | Validated: | 6/3/2009 | 6/3/2009 | 6/3/2009 | 6/3/2009 | 6/11/2009 | 6/11/2009 | 6/4/2009 |
| CAS NO. | COMPOUND | | | UNITS: | | | | | | | |
| | SEMIVOLATILES | | | | | | | | | | |
| 95-94-3 | 1,2,4,5-TETRACHLOROBENZENE | -- | -- | mg/Kg | | | | | | | |
| 58-90-2 | 2,3,4,6-TETRACHLOROPHENOL | -- | -- | mg/kg | | | | | | | |
| 88-06-2 | 2,4,6-TRICHLOROPHENOL | -- | -- | mg/kg | ND | ND | ND | ND | ND | ND | ND |
| 105-67-9 | 2,4-DIMETHYLPHENOL | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 91-57-6 | 2-METHYLNAPHTHALENE | -- | -- | mg/Kg | ND | ND | 3.9 | 0.16 J | 200 | 0.3 J | ND |
| 95-48-7 | 2-METHYLPHENOL (O-CRESOL) | 0.33 | 500 | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| MEPH3MEPH | 3- AND 4- METHYLPHENOL (TOTAL) | 0.33 | 500 | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 83-32-9 | ACENAPHTHENE | 20 | 500 | mg/Kg | 2 | 0.15 J | 2.1 | 0.083 J | **110** | 0.26 J | ND |
| 208-96-8 | ACENAPHTHYLENE | 100 | 500 | mg/Kg | ND | 0.053 J | 0.33 J | ND | 8.5 | ND | ND |
| 98-86-2 | ACETOPHENONE | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 120-12-7 | ANTHRACENE | 100 | 500 | mg/Kg | 1.7 | 0.11 J | 3 | 0.048 J | 51 | 0.13 J | ND |
| 100-52-7 | BENZALDEHYDE | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 56-55-3 | BENZO(A)ANTHRACENE | 1 | 5.6 | mg/Kg | 0.96 | 0.12 J | **2.1** | ND | **35** | 0.06 J | ND |
| 50-32-8 | BENZO(A)PYRENE | 1 | 1 | mg/Kg | 0.61 | 0.073 J | 0.51 | ND | **22** | ND | ND |
| 205-99-2 | BENZO(B)FLUORANTHENE | 1 | 5.6 | mg/Kg | 0.62 | 0.089 J | 0.57 | ND | **19** | ND | ND |
| 191-24-2 | BENZO(G,H,I)PERYLENE | 100 | 500 | mg/Kg | 0.28 J | ND | 0.19 J | ND | 9.1 | ND | ND |
| 207-08-9 | BENZO(K)FLUORANTHENE | 0.8 | 56 | mg/Kg | 0.22 J | ND | 0.16 J | ND | **6.7** J | ND | ND |
| 85-68-7 | BENZYL BUTYL PHTHALATE | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 92-52-4 | BIPHENYL (DIPHENYL) | -- | -- | mg/Kg | ND | ND | 0.57 | ND | 21 | ND | ND |
| 117-81-7 | BIS(2-ETHYLHEXYL) PHTHALATE | -- | -- | mg/Kg | ND | 0.067 J | ND | ND | ND | 0.091 J | ND |
| 105-60-2 | CAPROLACTAM | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 86-74-8 | CARBAZOLE | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 218-01-9 | CHRYSENE | 1 | 56 | mg/Kg | 0.83 | 0.091 J | **1.8** | ND | **31** | 0.059 J | ND |
| 53-70-3 | DIBENZ(A,H)ANTHRACENE | 0.33 | 0.56 | mg/Kg | 0.097 J | ND | 0.068 J | ND | **2.5** J | ND | ND |
| 132-64-9 | DIBENZOFURAN | 7 | 350 | mg/Kg | ND | 0.047 J | ND | ND | **7.2** J | ND | ND |
| 84-66-2 | DIETHYL PHTHALATE | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 131-11-3 | DIMETHYL PHTHALATE | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 84-74-2 | DI-N-BUTYL PHTHALATE | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 117-84-0 | DI-N-OCTYLPHTHALATE | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 206-44-0 | FLUORANTHENE | 100 | 500 | mg/Kg | 1.6 | 0.17 J | 1.7 | ND | 48 | 0.12 J | ND |
| 86-73-7 | FLUORENE | 30 | 500 | mg/Kg | 2.4 J | 0.11 J | 1.4 | 0.048 J | **44** | 0.12 J | ND |
| 193-39-5 | INDENO(1,2,3-C,D)PYRENE | 0.5 | 5.6 | mg/Kg | 0.23 J | ND | 0.12 J | ND | **7** J | ND | ND |
| 86-30-6 | N-NITROSODIPHENYLAMINE | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 91-20-3 | NAPHTHALENE | 12 | 500 | mg/Kg | ND | 0.087 J | **15** | 0.31 J | **580** | 0.69 | ND |
| 87-86-5 | PENTACHLOROPHENOL | 0.8 | 6.7 | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 85-01-8 | PHENANTHRENE | 100 | 500 | mg/Kg | 4.1 | 0.26 J | 7.3 | 0.14 J | **160** | 0.35 J | ND |
| 108-95-2 | PHENOL | 0.33 | 500 | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 129-00-0 | PYRENE | 100 | 500 | mg/Kg | 2.2 | 0.22 J | 4 | 0.051 J | 74 | 0.16 J | ND |
| | **TOTAL SVOCS** | -- | -- | **mg/kg** | **17.847** | **1.647** | **44.818** | **0.84** | **1436** | **2.34** | **ND** |

Exceeds NYSDEC Part 375 Unrestricted Soil Criteria
Exceeds NYSDEC Commercial Soil Criteria
(1) NYSDEC 6 NYCRR Part 375 Environmental Remediation Program (December 2006)
(2) -- indicates no clean up objective or background level is available
(3) NA indicates compound was not analyzed for
(4) ND indicates compound was not detected
(5) J indicates an estimated concentration
(6) R indicates rejected data
(7) Grey shaded values exceed NYSDEC Part 375 Unrestricted Soil Criteria
(8) Orange shaded values exceed NYSDEC Part 375 Commercial Soil Criteria

Table 3
Farrington Street Former MGP Site
Summary of Soil Analytical Data
Consolidated Edison Company of New York

| Consolidated Edison<br>Farrington Street Remedial Investigation<br>2009-2015 Soil Analytical Data<br>Detected Compounds Only | | | | Location ID: | MW-17 | MW-17 | MW-18 | MW-18 | MW-19 | MW-19 | MW-20 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Sample ID: | MW-17(14-16) | MW-17(22-24) | MW-18(14-16) | MW-18(22-24) | MW-19(16-18) | MW-19(28-30) | MW-20(14-16) |
| | | | | Lab Sample Id | A2710-01 | A2710-02 | A2710-09 | A2710-10 | A2819-01 | A2819-02 | A2752-01 |
| | | | | Depth: | 14 - 16 ft | 22 - 24 ft | 14 - 16 ft | 22 - 24 ft | 16 - 18 ft | 28 - 30 ft | 14 - 16 ft |
| | | | | Source: | Chemtech | Chemtech | Chemtech | Chemtech | Chemtech | Chemtech | Chemtech |
| | | NYSDEC Part 375 Unrestricted Soil Criteria | NYSDEC Part 375 Commercial Soil Criteria | SDG: | A2710 | A2710 | A2710 | A2710 | A2819 | A2819 | A2752 |
| | | | | Matrix: | SOIL | SOIL | SOIL | SOIL | SOIL | SOIL | SOIL |
| | | | | Sampled: | 5/11/2009 0:00 | 5/11/2009 0:00 | 5/12/2009 0:00 | 5/12/2009 0:00 | 5/18/2009 0:00 | 5/18/2009 0:00 | 5/13/2009 0:00 |
| | | | | Validated: | 6/3/2009 | 6/3/2009 | 6/3/2009 | 6/3/2009 | 6/11/2009 | 6/11/2009 | 6/4/2009 |
| CAS NO. | COMPOUND | | | UNITS: | | | | | | | |
| | INORGANICS | | | | | | | | | | |
| 7429-90-5 | ALUMINUM | -- | -- | mg/Kg | 5840 | 6680 | 13400 | 2930 | 3840 | 2850 | 3360 |
| 7440-36-0 | ANTIMONY | -- | -- | mg/Kg | ND | ND | 0.54 J | ND | ND | ND | ND |
| 7440-38-2 | ARSENIC | 13 | 16 | mg/Kg | 0.99 | ND | 0.75 J | ND | ND | ND | ND |
| 7440-39-3 | BARIUM | 350 | 400 | mg/Kg | 50.1 | 76.7 | 169 | 22.8 | 35.1 | 29.5 | 46.7 |
| 7440-41-7 | BERYLLIUM | 7.2 | 590 | mg/Kg | 0.21 J | 0.28 | 0.46 | 0.18 J | 0.23 J | 0.11 J | 0.15 J |
| 7440-43-9 | CADMIUM | 2.5 | 9.3 | mg/Kg | 0.32 | 0.49 | 1.31 | ND | 0.31 | ND | 0.11 J |
| 7440-70-2 | CALCIUM | -- | -- | mg/Kg | 1630 | 1150 | 926 | 555 | 782 J | 553 J | 1070 |
| 7440-47-3 | CHROMIUM, TOTAL | 30 | 1500 | mg/Kg | 17.8 | 22.9 | **32** | 7.99 | 19.3 | 9.25 | 11.2 |
| 7440-48-4 | COBALT | -- | -- | mg/Kg | 11.7 | 6.93 | 10.6 | 3.81 | 8.54 | 4.34 | 4.32 |
| 7440-50-8 | COPPER | 50 | 270 | mg/Kg | 13 | 13.1 | 18.7 | 6.24 | 12.2 | 5.47 | 13.4 |
| 7439-89-6 | IRON | -- | -- | mg/Kg | 10300 | 18100 | 31700 | 7080 | 17800 J | 7630 J | 12100 |
| 7439-92-1 | LEAD | 63 | 1000 | mg/Kg | 15 | 3.24 | 4.48 | 1.05 | 6.56 | 1.66 | 2.26 |
| 7439-95-4 | MAGNESIUM | -- | -- | mg/Kg | 2430 | 2900 | 5460 | 1030 | 1790 J | 1480 J | 1550 |
| 7439-96-5 | MANGANESE | 1600 | 10000 | mg/Kg | 82.9 | 245 | 222 | 49.1 | 164 J | 67.6 J | 215 |
| 7439-97-6 | MERCURY | 0.18 | 2.8 | mg/Kg | 0.008 J | 0.007 J | ND | ND | 0.008 J | ND | ND |
| 7440-02-0 | NICKEL | 30 | 310 | mg/Kg | **35.8** | 22.4 | 25 | 11.8 | **56.1** | 12.8 | 9.09 |
| 7440-09-7 | POTASSIUM | -- | -- | mg/Kg | 1420 | 2470 | 6680 | 684 | 1150 | 948 | 1440 |
| 7782-49-2 | SELENIUM | 3.9 | 1500 | mg/Kg | ND | ND | ND | ND | 1.06 | 0.85 | ND |
| 7440-22-4 | SILVER | 2 | 1500 | mg/Kg | ND | ND | ND | ND | ND | ND | 0.15 J |
| 7440-23-5 | SODIUM | -- | -- | mg/Kg | 126 | 156 | 185 | 126 | 206 | 131 | 160 |
| 7440-28-0 | THALLIUM | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 7440-62-2 | VANADIUM | -- | -- | mg/Kg | 18.5 | 28.5 | 46 | 9.25 | 18.7 | 9.84 | 13.6 |
| 7440-66-6 | ZINC | 109 | 10000 | mg/Kg | **129** | 32.9 | 65.7 | 32.2 | 22.7 | 14.1 | 20.8 |
| 57-12-5 | CYANIDE | 27 | 27 | mg/Kg | ND | ND | ND | ND | ND | ND | ND |

Exceeds NYSDEC Part 375 Unrestricted Soil Criteria
Exceeds NYSDEC Commercial Soil Criteria

(1) NYSDEC 6 NYCRR Part 375 Environmental Remediation Program (December 2006)
(2) -- indicates no clean up objective or background level is available
(3) NA indicates compound was not analyzed for
(4) ND indicates compound was not detected
(5) J indicates an estimated concentration
(6) R indicates rejected data
(7) Grey shaded values exceed NYSDEC Part 375 Unrestricted Soil Criteria
(8) Orange shaded values exceed NYSDEC Part 375 Commercial Soil Criteria

Table 3
Farrington Street Former MGP Site
Summary of Soil Analytical Data
Consolidated Edison Company of New York

| Consolidated Edison<br>Farrington Street Remedial Investigation<br>2009-2015 Soil Analytical Data<br>Detected Compounds Only | | | | | Dup of MW-20(14-16) | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Location ID: | MW-20 | MW-20 | MW-21 | MW-21 | MW-22 | MW-22 | MW-23 |
| | | | | Sample ID: | MW-20(14-16)DUP | MW-20(22-24) | MW-21(12-14) | MW-21(20-22) | SB-22(9-11) | SB-22(17-19) | MW-23(21-23) |
| | | | | Lab Sample Id | A2752-02 | A2752-03 | A2819-04 | A2819-05 | D1616-05 | D1616-06 | C3584-07 |
| | | | | Depth: | 14 - 16 ft | 22 - 24 ft | 12 - 14 ft | 20 - 22 ft | 9 - 11 ft | 17 - 19 ft | 21 - 23 ft |
| | | | | Source: | Chemtech | Chemtech | Chemtech | Chemtech | CTECH | CTECH | CTECH |
| | | NYSDEC Part 375 Unrestricted Soil Criteria | NYSDEC Part 375 Commercial Soil Criteria | SDG: | A2752 | A2752 | A2819 | A2819 | D1616 | D1616 | C3584 |
| | | | | Matrix: | SOIL | SOIL | SOIL | SOIL | SOIL | SOIL | SOIL |
| | | | | Sampled: | 5/13/2009 0:00 | 5/13/2009 0:00 | 5/19/2009 0:00 | 5/19/2009 0:00 | 2/22/2012 13:40 | 2/22/2012 14:00 | 9/1/2011 11:00 |
| | | | | Validated: | 6/4/2009 | 6/4/2009 | 6/11/2009 | 6/11/2009 | 4/2/2012 | 4/2/2012 | 1/23/2012 |
| CAS NO. | COMPOUND | | | UNITS: | | | | | | | |
| | VOLATILES | | | | | | | | | | |
| 79-34-5 | 1,1,2,2-TETRACHLOROETHANE | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 120-82-1 | 1,2,4-TRICHLOROBENZENE | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 95-50-1 | 1,2-DICHLOROBENZENE | 1.1 | 500 | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 541-73-1 | 1,3-DICHLOROBENZENE | 2.4 | 280 | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 106-46-7 | 1,4-DICHLOROBENZENE | 1.8 | 130 | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 591-78-6 | 2-HEXANONE | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 67-64-1 | ACETONE | 0.05 | 500 | mg/Kg | ND | ND | R | R | ND | **0.46** J | ND |
| 71-43-2 | BENZENE | 0.06 | 44 | mg/Kg | ND | ND | ND | ND | **44** | **0.27** J | ND |
| 75-15-0 | CARBON DISULFIDE | -- | -- | mg/Kg | ND | ND | ND | ND | ND | 0.07 J | ND |
| 108-90-7 | CHLOROBENZENE | 1.1 | 500 | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 67-66-3 | CHLOROFORM | 0.37 | 350 | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 156-59-2 | CIS-1,2-DICHLOROETHYLENE | 0.25 | 500 | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 110-82-7 | CYCLOHEXANE | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 100-41-4 | ETHYLBENZENE | 1 | 390 | mg/Kg | ND | ND | ND | ND | **310** | **14** | **8.6** |
| 98-82-8 | ISOPROPYLBENZENE (CUMENE) | -- | -- | mg/Kg | ND | ND | ND | ND | 24 J | 0.7 J | 2.4 J |
| XYLMP | M,P-XYLENE (SUM OF ISOMERS) | 0.26 | 500 | mg/Kg | ND | ND | ND | ND | **110** | **2.1** J | **6** J |
| 79-20-9 | METHYL ACETATE | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 78-93-3 | METHYL ETHYL KETONE (2-BUTANONE) | 0.12 | 500 | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 108-10-1 | METHYL ISOBUTYL KETONE | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 108-87-2 | METHYLCYCLOHEXANE | -- | -- | mg/Kg | ND | ND | ND | ND | ND | 0.026 J | ND |
| 75-09-2 | METHYLENE CHLORIDE | 0.05 | 500 | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 95-47-6 | O-XYLENE (1,2-DIMETHYLBENZENE) | 0.26 | 500 | mg/Kg | ND | ND | ND | ND | ND | **1.7** J | **2.3** J |
| 100-42-5 | STYRENE | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 1634-04-4 | TERT-BUTYL METHYL ETHER | 0.93 | 500 | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 127-18-4 | TETRACHLOROETHYLENE(PCE) | 1.3 | 150 | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 108-88-3 | TOLUENE | 0.7 | 500 | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 79-01-6 | TRICHLOROETHYLENE (TCE) | 0.47 | 200 | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 95-63-6 | 1,2,4-TRIMETHYLBENZENE | 3.6 | 190 | mg/kg | | | | | **280** | **11** | |
| 108-67-8 | 1,3,5-TRIMETHYLBENZENE (MESITYLENE) | 8.4 | 190 | mg/kg | | | | | **48** | 1.6 J | |
| 103-65-1 | N-PROPYLBENZENE | 3.9 | 500 | mg/kg | | | | | **35** | 0.29 J | |
| 135-98-8 | SEC-BUTYLBENZENE | 11 | 500 | mg/kg | | | | | ND | 0.032 J | |
| | **TOTAL VOCS** | **--** | **--** | **mg/Kg** | **ND** | **ND** | **ND** | **ND** | **851** | **32.248** | **19.3** |

Exceeds NYSDEC Part 375 Unrestricted Soil Criteria
Exceeds NYSDEC Commercial Soil Criteria
(1) NYSDEC 6 NYCRR Part 375 Environmental Remediation Program (December 2006)
(2) -- indicates no clean up objective or background level is available
(3) NA indicates compound was not analyzed for
(4) ND indicates compound was not detected
(5) J indicates an estimated concentration; J+ indicated an estimated concentration biased high.
(6) R indicates rejected data
(7) Grey shaded values exceed NYSDEC Part 375 Unrestricted Soil Criteria
(8) Orange shaded values exceed NYSDEC Part 375 Commercial Soil Criteria

Table 3
Farrington Street Former MGP Site
Summary of Soil Analytical Data
Consolidated Edison Company of New York

| Consolidated Edison<br>Farrington Street Remedial Investigation<br>2009-2015 Soil Analytical Data<br>Detected Compounds Only | | | | Location ID: | Dup of MW-20(14-16) | MW-20 | MW-21 | MW-21 | MW-22 | MW-22 | MW-23 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Sample ID: | MW-20(14-16)DUP | MW-20(22-24) | MW-21(12-14) | MW-21(20-22) | SB-22(9-11) | SB-22(17-19) | MW-23(21-23) |
| | | | | Lab Sample Id | A2752-02 | A2752-03 | A2819-04 | A2819-05 | D1616-05 | D1616-06 | C3584-07 |
| | | | | Depth: | 14 - 16 ft | 22 - 24 ft | 12 - 14 ft | 20 - 22 ft | 9 - 11 ft | 17 - 19 ft | 21 - 23 ft |
| | | | | Source: | Chemtech | Chemtech | Chemtech | Chemtech | CTECH | CTECH | CTECH |
| | | NYSDEC Part 375 Unrestricted Soil Criteria | NYSDEC Part 375 Commercial Soil Criteria | SDG: | A2752 | A2752 | A2819 | A2819 | D1616 | D1616 | C3584 |
| | | | | Matrix: | SOIL | SOIL | SOIL | SOIL | SOIL | SOIL | SOIL |
| | | | | Sampled: | 5/13/2009 0:00 | 5/13/2009 0:00 | 5/19/2009 0:00 | 5/19/2009 0:00 | 2/22/2012 13:40 | 2/22/2012 14:00 | 9/1/2011 11:00 |
| | | | | Validated: | 6/4/2009 | 6/4/2009 | 6/11/2009 | 6/11/2009 | 4/2/2012 | 4/2/2012 | 1/23/2012 |
| CAS NO. | COMPOUND | | | UNITS: | | | | | | | |
| | SEMIVOLATILES | | | | | | | | | | |
| 95-94-3 | 1,2,4,5-TETRACHLOROBENZENE | -- | -- | mg/Kg | | | | | | | |
| 58-90-2 | 2,3,4,6-TETRACHLOROPHENOL | -- | -- | mg/kg | | | | | | | |
| 88-06-2 | 2,4,6-TRICHLOROPHENOL | -- | -- | mg/kg | ND | ND | ND | ND | ND | ND | ND |
| 105-67-9 | 2,4-DIMETHYLPHENOL | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 91-57-6 | 2-METHYLNAPHTHALENE | -- | -- | mg/Kg | ND | ND | ND | 0.29 J | 350 | 120 | 45 |
| 95-48-7 | 2-METHYLPHENOL (O-CRESOL) | 0.33 | 500 | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| MEPH3MEPH | 3- AND 4- METHYLPHENOL (TOTAL) | 0.33 | 500 | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 83-32-9 | ACENAPHTHENE | 20 | 500 | mg/Kg | ND | ND | ND | 0.2 J | **74** | **95** | **80** |
| 208-96-8 | ACENAPHTHYLENE | 100 | 500 | mg/Kg | ND | ND | ND | ND | 35 | 20 | 5.7 J |
| 98-86-2 | ACETOPHENONE | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 120-12-7 | ANTHRACENE | 100 | 500 | mg/Kg | ND | ND | ND | 0.096 J | **120** | 97 | 32 |
| 100-52-7 | BENZALDEHYDE | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 56-55-3 | BENZO(A)ANTHRACENE | 1 | 5.6 | mg/Kg | ND | ND | ND | 0.086 J | **62** | **52** | **28** |
| 50-32-8 | BENZO(A)PYRENE | 1 | 1 | mg/Kg | ND | ND | ND | 0.062 J | **38** | **38** | **19** |
| 205-99-2 | BENZO(B)FLUORANTHENE | 1 | 5.6 | mg/Kg | ND | ND | ND | 0.071 J | **32** | **32** | **16** |
| 191-24-2 | BENZO(G,H,I)PERYLENE | 100 | 500 | mg/Kg | ND | ND | ND | ND | 17 | 16 | 8.6 |
| 207-08-9 | BENZO(K)FLUORANTHENE | 0.8 | 56 | mg/Kg | ND | ND | ND | ND | **10** | **9.4** | **5.5** J |
| 85-68-7 | BENZYL BUTYL PHTHALATE | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 92-52-4 | BIPHENYL (DIPHENYL) | -- | -- | mg/Kg | ND | ND | ND | ND | 33 | 21 | 6.8 |
| 117-81-7 | BIS(2-ETHYLHEXYL) PHTHALATE | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 105-60-2 | CAPROLACTAM | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 86-74-8 | CARBAZOLE | -- | -- | mg/Kg | ND | ND | ND | ND | 3 J | 1.6 J | ND |
| 218-01-9 | CHRYSENE | 1 | 56 | mg/Kg | ND | ND | ND | 0.099 J | **59** | **46** | **24** |
| 53-70-3 | DIBENZ(A,H)ANTHRACENE | 0.33 | 0.56 | mg/Kg | ND | ND | ND | ND | **3.8** J | **3.1** | **2.4** J |
| 132-64-9 | DIBENZOFURAN | 7 | 350 | mg/Kg | ND | ND | ND | ND | **13** | 5.7 | 3.4 J |
| 84-66-2 | DIETHYL PHTHALATE | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 131-11-3 | DIMETHYL PHTHALATE | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 84-74-2 | DI-N-BUTYL PHTHALATE | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 117-84-0 | DI-N-OCTYLPHTHALATE | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 206-44-0 | FLUORANTHENE | 100 | 500 | mg/Kg | ND | ND | ND | 0.16 J | **110** | **110** | 39 |
| 86-73-7 | FLUORENE | 30 | 500 | mg/Kg | ND | ND | ND | 0.078 J | **120** | **71** | **34** |
| 193-39-5 | INDENO(1,2,3-C,D)PYRENE | 0.5 | 5.6 | mg/Kg | ND | ND | ND | ND | **14** | **13** | **7.3** |
| 86-30-6 | N-NITROSODIPHENYLAMINE | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 91-20-3 | NAPHTHALENE | 12 | 500 | mg/Kg | ND | ND | ND | 0.58 | **1000** | **250** | **120** |
| 87-86-5 | PENTACHLOROPHENOL | 0.8 | 6.7 | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 85-01-8 | PHENANTHRENE | 100 | 500 | mg/Kg | ND | ND | 0.048 J | 0.37 J | **440** | **320** | **120** |
| 108-95-2 | PHENOL | 0.33 | 500 | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 129-00-0 | PYRENE | 100 | 500 | mg/Kg | ND | ND | ND | 0.25 J | **190** | **180** | 56 |
| | **TOTAL SVOCS** | -- | -- | **mg/kg** | **ND** | **ND** | **0.048** | **2.342** | **2723.8** | **1500.8** | **652.7** |

Exceeds NYSDEC Part 375 Unrestricted Soil Criteria
Exceeds NYSDEC Commercial Soil Criteria
(1) NYSDEC 6 NYCRR Part 375 Environmental Remediation Program (December 2006)
(2) -- indicates no clean up objective or background level is available
(3) NA indicates compound was not analyzed for
(4) ND indicates compound was not detected
(5) J indicates an estimated concentration
(6) R indicates rejected data
(7) Grey shaded values exceed NYSDEC Part 375 Unrestricted Soil Criteria
(8) Orange shaded values exceed NYSDEC Part 375 Commercial Soil Criteria

Table 3
Farrington Street Former MGP Site
Summary of Soil Analytical Data
Consolidated Edison Company of New York

| Consolidated Edison<br>Farrington Street Remedial Investigation<br>2009-2015 Soil Analytical Data<br>Detected Compounds Only | | | | | Dup of MW-20(14-16) | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Location ID: | MW-20 | MW-20 | MW-21 | MW-21 | MW-22 | MW-22 | MW-23 |
| | | | | Sample ID: | MW-20(14-16)DUP | MW-20(22-24) | MW-21(12-14) | MW-21(20-22) | SB-22(9-11) | SB-22(17-19) | MW-23(21-23) |
| | | | | Lab Sample Id | A2752-02 | A2752-03 | A2819-04 | A2819-05 | D1616-05 | D1616-06 | C3584-07 |
| | | | | Depth: | 14 - 16 ft | 22 - 24 ft | 12 - 14 ft | 20 - 22 ft | 9 - 11 ft | 17 - 19 ft | 21 - 23 ft |
| | | | | Source: | Chemtech | Chemtech | Chemtech | Chemtech | CTECH | CTECH | CTECH |
| | | NYSDEC Part 375 Unrestricted Soil Criteria | NYSDEC Part 375 Commercial Soil Criteria | SDG: | A2752 | A2752 | A2819 | A2819 | D1616 | D1616 | C3584 |
| | | | | Matrix: | SOIL | SOIL | SOIL | SOIL | SOIL | SOIL | SOIL |
| | | | | Sampled: | 5/13/2009 0:00 | 5/13/2009 0:00 | 5/19/2009 0:00 | 5/19/2009 0:00 | 2/22/2012 13:40 | 2/22/2012 14:00 | 9/1/2011 11:00 |
| | | | | Validated: | 6/4/2009 | 6/4/2009 | 6/11/2009 | 6/11/2009 | 4/2/2012 | 4/2/2012 | 1/23/2012 |
| CAS NO. | COMPOUND | | | UNITS: | | | | | | | |
| | INORGANICS | | | | | | | | | | |
| 7429-90-5 | ALUMINUM | -- | -- | mg/Kg | 3650 | 2650 | 8630 | 5330 | 2430 | 6380 | 3740 |
| 7440-36-0 | ANTIMONY | -- | -- | mg/Kg | ND | ND | ND | ND | 2.9 | 0.96 J | ND |
| 7440-38-2 | ARSENIC | 13 | 16 | mg/Kg | ND | ND | 0.66 J | ND | 10.6 | 10.5 | 0.49 J |
| 7440-39-3 | BARIUM | 350 | 400 | mg/Kg | 49.3 | 34.3 | 51.5 | 55.4 | 45.8 | 47.9 | 38.3 |
| 7440-41-7 | BERYLLIUM | 7.2 | 590 | mg/Kg | 0.15 J | 0.11 J | 0.35 | 0.21 J | ND | 0.274 J | 0.17 J |
| 7440-43-9 | CADMIUM | 2.5 | 9.3 | mg/Kg | 0.13 J | 0.1 J | 0.2 J | 0.83 | 1.42 | 1.35 | ND |
| 7440-70-2 | CALCIUM | -- | -- | mg/Kg | 1040 | 777 | 620 J | 884 J | 13400 J | 9860 J | 680 |
| 7440-47-3 | CHROMIUM, TOTAL | 30 | 1500 | mg/Kg | 11.7 | 9.43 | 20 | 15.5 | 9.65 J | 16.3 J | 11.2 |
| 7440-48-4 | COBALT | -- | -- | mg/Kg | 4.62 | 3.45 | 5.62 | 5.29 | 5.67 | 6.81 | 4.07 |
| 7440-50-8 | COPPER | 50 | 270 | mg/Kg | 12.7 | 12.2 | 12.8 | 14 | **86.1** | **54.4** | 12.2 |
| 7439-89-6 | IRON | -- | -- | mg/Kg | 11800 | 9940 | 15700 J | 14400 J | 32900 | 29000 | 9440 |
| 7439-92-1 | LEAD | 63 | 1000 | mg/Kg | 2.77 | 10.2 | 5.87 | 14 | **598** | **145** | 1.7 J |
| 7439-95-4 | MAGNESIUM | -- | -- | mg/Kg | 1670 | 1200 | 2260 J | 1930 J | 1670 | 3280 | 1450 |
| 7439-96-5 | MANGANESE | 1600 | 10000 | mg/Kg | 230 | 136 | 92.8 J | 102 J | 128 | 214 | 90.8 |
| 7439-97-6 | MERCURY | 0.18 | 2.8 | mg/Kg | ND | 0.004 J | 0.052 | ND | **0.188** | **2.12** | 0.004 J |
| 7440-02-0 | NICKEL | 30 | 310 | mg/Kg | 9.17 | 8.68 | 11.5 | 11.4 | 15.3 | 15.2 | 11.1 |
| 7440-09-7 | POTASSIUM | -- | -- | mg/Kg | 1620 | 1070 | 799 | 1580 | ND | 1360 | 1290 |
| 7782-49-2 | SELENIUM | 3.9 | 1500 | mg/Kg | ND | ND | 0.88 | 0.93 | 2.76 | 2.89 | ND |
| 7440-22-4 | SILVER | 2 | 1500 | mg/Kg | ND | ND | ND | ND | 1.65 | 1.4 | 0.34 J |
| 7440-23-5 | SODIUM | -- | -- | mg/Kg | 194 | 147 | 254 | 243 | ND | 2200 | 189 |
| 7440-28-0 | THALLIUM | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 7440-62-2 | VANADIUM | -- | -- | mg/Kg | 14.3 | 11.1 | 24.9 | 21.2 | 14.3 | 21.6 | 11.9 |
| 7440-66-6 | ZINC | 109 | 10000 | mg/Kg | 21.5 | 21.4 | 28 | 28.2 | 72.9 | **125** | 21 |
| 57-12-5 | CYANIDE | 27 | 27 | mg/Kg | ND | ND | ND | ND | 7.2 | **33** | 0.103 J |

Exceeds NYSDEC Part 375 Unrestricted Soil Criteria
Exceeds NYSDEC Commercial Soil Criteria

(1) NYSDEC 6 NYCRR Part 375 Environmental Remediation Program (December 2006)
(2) -- indicates no clean up objective or background level is available
(3) NA indicates compound was not analyzed for
(4) ND indicates compound was not detected
(5) J indicates an estimated concentration
(6) R indicates rejected data
(7) Grey shaded values exceed NYSDEC Part 375 Unrestricted Soil Criteria
(8) Orange shaded values exceed NYSDEC Part 375 Commercial Soil Criteria

Table 3
Farrington Street Former MGP Site
Summary of Soil Analytical Data
Consolidated Edison Company of New York

| Consolidated Edison<br>Farrington Street Remedial Investigation<br>2009-2015 Soil Analytical Data<br>Detected Compounds Only | | | | Location ID: | MW-23 | MW-24 | MW-24 | MW-24 | MW-25 | MW-25 | MW-25 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Sample ID: | MW-23(39-41) | MW-24(17-19) | MW-24(38-40) | MW-24(41-42) | MW-25(13-15) | MW-25(31-33) | MW-25(43-45) |
| | | | | Lab Sample Id | C3584-08 | C3584-04 | C3584-05 | C3584-06 | C3816-01 | C3816-02 | C3816-03 |
| | | | | Depth: | 39 - 41 ft | 17 - 19 ft | 38 - 40 ft | 41 - 42 ft | 13 - 15 ft | 31 - 33 ft | 43 - 45 ft |
| | | | | Source: | CTECH | CTECH | CTECH | CTECH | CTECH | CTECH | CTECH |
| | | NYSDEC Part 375 Unrestricted Soil Criteria | NYSDEC Part 375 Commercial Soil Criteria | SDG: | C3584 | C3584 | C3584 | C3584 | C3816 | C3816 | C3816 |
| | | | | Matrix: | SOIL | SOIL | SOIL | SOIL | SOIL | SOIL | SOIL |
| | | | | Sampled: | 9/1/2011 1:45 | 8/30/2011 10:00 | 8/31/2011 11:30 | 8/31/2011 1:30 | 9/20/2011 11:00 | 9/20/2011 2:20 | 9/21/2011 11:35 |
| | | | | Validated: | 1/23/2012 | 1/23/2012 | 1/23/2012 | 1/23/2012 | 1/23/2012 | 1/23/2012 | 1/23/2012 |
| CAS NO. | COMPOUND | | | UNITS: | | | | | | | |
| | VOLATILES | | | | | | | | | | |
| 79-34-5 | 1,1,2,2-TETRACHLOROETHANE | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 120-82-1 | 1,2,4-TRICHLOROBENZENE | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 95-50-1 | 1,2-DICHLOROBENZENE | 1.1 | 500 | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 541-73-1 | 1,3-DICHLOROBENZENE | 2.4 | 280 | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 106-46-7 | 1,4-DICHLOROBENZENE | 1.8 | 130 | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 591-78-6 | 2-HEXANONE | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 67-64-1 | ACETONE | 0.05 | 500 | mg/Kg | R | R | ND | R | ND | ND | ND |
| 71-43-2 | BENZENE | 0.06 | 44 | mg/Kg | ND | 0.0014 J | ND | ND | ND | ND | ND |
| 75-15-0 | CARBON DISULFIDE | -- | -- | mg/Kg | ND | 0.0013 J | ND | ND | ND | ND | ND |
| 108-90-7 | CHLOROBENZENE | 1.1 | 500 | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 67-66-3 | CHLOROFORM | 0.37 | 350 | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 156-59-2 | CIS-1,2-DICHLOROETHYLENE | 0.25 | 500 | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 110-82-7 | CYCLOHEXANE | -- | -- | mg/Kg | ND | 0.0031 J | ND | ND | ND | ND | ND |
| 100-41-4 | ETHYLBENZENE | 1 | 390 | mg/Kg | 0.0017 J | 0.01 | **40** | ND | 0.54 J | **2.6** | 0.41 J |
| 98-82-8 | ISOPROPYLBENZENE (CUMENE) | -- | -- | mg/Kg | ND | 0.024 | 1.9 | ND | 0.4 J | 1.3 J | 0.29 J |
| XYLMP | M,P-XYLENE (SUM OF ISOMERS) | 0.26 | 500 | mg/Kg | ND | ND | **7.4** | ND | 0.034 J | **1.3** J | ND |
| 79-20-9 | METHYL ACETATE | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 78-93-3 | METHYL ETHYL KETONE (2-BUTANONE) | 0.12 | 500 | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 108-10-1 | METHYL ISOBUTYL KETONE | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 108-87-2 | METHYLCYCLOHEXANE | -- | -- | mg/Kg | ND | 0.015 | ND | ND | 0.12 J | ND | ND |
| 75-09-2 | METHYLENE CHLORIDE | 0.05 | 500 | mg/Kg | 0.0041 J | 0.0054 J | ND | 0.0036 J | ND | ND | ND |
| 95-47-6 | O-XYLENE (1,2-DIMETHYLBENZENE) | 0.26 | 500 | mg/Kg | ND | 0.0022 J | **5.9** | ND | 0.084 J | **2** J | 0.24 J |
| 100-42-5 | STYRENE | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 1634-04-4 | TERT-BUTYL METHYL ETHER | 0.93 | 500 | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 127-18-4 | TETRACHLOROETHYLENE(PCE) | 1.3 | 150 | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 108-88-3 | TOLUENE | 0.7 | 500 | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 79-01-6 | TRICHLOROETHYLENE (TCE) | 0.47 | 200 | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 95-63-6 | 1,2,4-TRIMETHYLBENZENE | 3.6 | 190 | mg/kg | | | | | | | |
| 108-67-8 | 1,3,5-TRIMETHYLBENZENE (MESITYLENE) | 8.4 | 190 | mg/kg | | | | | | | |
| 103-65-1 | N-PROPYLBENZENE | 3.9 | 500 | mg/kg | | | | | | | |
| 135-98-8 | SEC-BUTYLBENZENE | 11 | 500 | mg/kg | | | | | | | |
| | **TOTAL VOCS** | **--** | **--** | **mg/Kg** | **0.0058** | **0.0624** | **55.2** | **0.0036** | **1.178** | **7.2** | **0.94** |

Exceeds NYSDEC Part 375 Unrestricted Soil Criteria
Exceeds NYSDEC Commercial Soil Criteria
(1) NYSDEC 6 NYCRR Part 375 Environmental Remediation Program (December 2006)
(2) -- indicates no clean up objective or background level is available
(3) NA indicates compound was not analyzed for
(4) ND indicates compound was not detected
(5) J indicates an estimated concentration; J+ indicated an estimated concentration biased high.
(6) R indicates rejected data
(7) Grey shaded values exceed NYSDEC Part 375 Unrestricted Soil Criteria
(8) Orange shaded values exceed NYSDEC Part 375 Commercial Soil Criteria

Table 3
Farrington Street Former MGP Site
Summary of Soil Analytical Data
Consolidated Edison Company of New York

| Consolidated Edison<br>Farrington Street Remedial Investigation<br>2009-2015 Soil Analytical Data<br>Detected Compounds Only | | | | Location ID: | MW-23 | MW-24 | MW-24 | MW-24 | MW-25 | MW-25 | MW-25 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Sample ID: | MW-23(39-41) | MW-24(17-19) | MW-24(38-40) | MW-24(41-42) | MW-25(13-15) | MW-25(31-33) | MW-25(43-45) |
| | | | | Lab Sample Id | C3584-08 | C3584-04 | C3584-05 | C3584-06 | C3816-01 | C3816-02 | C3816-03 |
| | | | | Depth: | 39 - 41 ft | 17 - 19 ft | 38 - 40 ft | 41 - 42 ft | 13 - 15 ft | 31 - 33 ft | 43 - 45 ft |
| | | | | Source: | CTECH | CTECH | CTECH | CTECH | CTECH | CTECH | CTECH |
| | | NYSDEC Part 375 Unrestricted Soil Criteria | NYSDEC Part 375 Commercial Soil Criteria | SDG: | C3584 | C3584 | C3584 | C3584 | C3816 | C3816 | C3816 |
| | | | | Matrix: | SOIL | SOIL | SOIL | SOIL | SOIL | SOIL | SOIL |
| | | | | Sampled: | 9/1/2011 1:45 | 8/30/2011 10:00 | 8/31/2011 11:30 | 8/31/2011 1:30 | 9/20/2011 11:00 | 9/20/2011 2:20 | 9/21/2011 11:35 |
| | | | | Validated: | 1/23/2012 | 1/23/2012 | 1/23/2012 | 1/23/2012 | 1/23/2012 | 1/23/2012 | 1/23/2012 |
| CAS NO. | COMPOUND | | | UNITS: | | | | | | | |
| | SEMIVOLATILES | | | | | | | | | | |
| 95-94-3 | 1,2,4,5-TETRACHLOROBENZENE | -- | -- | mg/Kg | | | | | | | |
| 58-90-2 | 2,3,4,6-TETRACHLOROPHENOL | -- | -- | mg/kg | | | | | | | |
| 88-06-2 | 2,4,6-TRICHLOROPHENOL | -- | -- | mg/kg | ND | ND | ND | ND | ND | ND | ND |
| 105-67-9 | 2,4-DIMETHYLPHENOL | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 91-57-6 | 2-METHYLNAPHTHALENE | -- | -- | mg/Kg | ND | 0.81 | 2.5 | ND | 45 | 130 | 26 |
| 95-48-7 | 2-METHYLPHENOL (O-CRESOL) | 0.33 | 500 | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| MEPH3MEPH | 3- AND 4- METHYLPHENOL (TOTAL) | 0.33 | 500 | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 83-32-9 | ACENAPHTHENE | 20 | 500 | mg/Kg | ND | 1.5 | 2.2 | ND | **31** | **180** | **89** |
| 208-96-8 | ACENAPHTHYLENE | 100 | 500 | mg/Kg | ND | 0.12 J | 0.18 J | ND | 1.6 | 14 | 6.7 |
| 98-86-2 | ACETOPHENONE | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 120-12-7 | ANTHRACENE | 100 | 500 | mg/Kg | ND | 1.1 | 1 | ND | 16 | 73 | 33 |
| 100-52-7 | BENZALDEHYDE | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 56-55-3 | BENZO(A)ANTHRACENE | 1 | 5.6 | mg/Kg | ND | 0.75 | 0.83 | ND | **12** | **61** | **29** |
| 50-32-8 | BENZO(A)PYRENE | 1 | 1 | mg/Kg | ND | 0.49 | 0.61 | ND | **7.3** | **42** | **20** |
| 205-99-2 | BENZO(B)FLUORANTHENE | 1 | 5.6 | mg/Kg | ND | 0.34 J | 0.47 | ND | **7.1** | **36** | **17** |
| 191-24-2 | BENZO(G,H,I)PERYLENE | 100 | 500 | mg/Kg | ND | 0.19 J | 0.26 J | ND | 3.5 | 21 | 8.2 |
| 207-08-9 | BENZO(K)FLUORANTHENE | 0.8 | 56 | mg/Kg | ND | 0.17 J | 0.17 J | ND | **2** | **14** | **4.7** |
| 85-68-7 | BENZYL BUTYL PHTHALATE | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 92-52-4 | BIPHENYL (DIPHENYL) | -- | -- | mg/Kg | ND | ND | 0.44 | ND | 1.6 | 33 | 17 |
| 117-81-7 | BIS(2-ETHYLHEXYL) PHTHALATE | -- | -- | mg/Kg | 0.062 J | 0.088 J | 0.1 J | 0.052 J | ND | ND | 0.18 J |
| 105-60-2 | CAPROLACTAM | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 86-74-8 | CARBAZOLE | -- | -- | mg/Kg | ND | ND | ND | ND | 0.56 J | 1.5 J | 0.71 J |
| 218-01-9 | CHRYSENE | 1 | 56 | mg/Kg | ND | 0.75 | 0.81 | ND | **11** | **57** | **26** |
| 53-70-3 | DIBENZ(A,H)ANTHRACENE | 0.33 | 0.56 | mg/Kg | ND | ND | ND | ND | **0.8** J | **3.9** J | **1.9** |
| 132-64-9 | DIBENZOFURAN | 7 | 350 | mg/Kg | ND | 0.11 J | 0.1 J | ND | 2.8 | **7.1** | 5.2 |
| 84-66-2 | DIETHYL PHTHALATE | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 131-11-3 | DIMETHYL PHTHALATE | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 84-74-2 | DI-N-BUTYL PHTHALATE | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 117-84-0 | DI-N-OCTYLPHTHALATE | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 206-44-0 | FLUORANTHENE | 100 | 500 | mg/Kg | ND | 1.1 | 1.3 | ND | 19 | 100 | 44 |
| 86-73-7 | FLUORENE | 30 | 500 | mg/Kg | ND | 0.76 | 0.96 | ND | 14 | **74** | **35** |
| 193-39-5 | INDENO(1,2,3-C,D)PYRENE | 0.5 | 5.6 | mg/Kg | ND | 0.16 J | 0.21 J | ND | **3.5** | **17** | **8** |
| 86-30-6 | N-NITROSODIPHENYLAMINE | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 91-20-3 | NAPHTHALENE | 12 | 500 | mg/Kg | ND | 0.12 J | 9.5 | ND | **100** | **550** | **88** |
| 87-86-5 | PENTACHLOROPHENOL | 0.8 | 6.7 | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 85-01-8 | PHENANTHRENE | 100 | 500 | mg/Kg | ND | 2.9 | 3 | ND | 47 | **230** | **120** |
| 108-95-2 | PHENOL | 0.33 | 500 | mg/Kg | ND | ND | ND | 0.056 J | ND | ND | ND |
| 129-00-0 | PYRENE | 100 | 500 | mg/Kg | ND | 1.6 | 1.7 | ND | 25 | **130** | 64 |
| | **TOTAL SVOCS** | -- | -- | **mg/kg** | **0.062** | **13.058** | **26.34** | **0.108** | **350.76** | **1774.5** | **643.59** |

Exceeds NYSDEC Part 375 Unrestricted Soil Criteria
Exceeds NYSDEC Commercial Soil Criteria
(1) NYSDEC 6 NYCRR Part 375 Environmental Remediation Program (December 2006)
(2) -- indicates no clean up objective or background level is available
(3) NA indicates compound was not analyzed for
(4) ND indicates compound was not detected
(5) J indicates an estimated concentration
(6) R indicates rejected data
(7) Grey shaded values exceed NYSDEC Part 375 Unrestricted Soil Criteria
(8) Orange shaded values exceed NYSDEC Part 375 Commercial Soil Criteria

Table 3
Farrington Street Former MGP Site
Summary of Soil Analytical Data
Consolidated Edison Company of New York

| Consolidated Edison<br>Farrington Street Remedial Investigation<br>2009-2015 Soil Analytical Data<br>Detected Compounds Only | | | | Location ID: | MW-23 | MW-24 | MW-24 | MW-24 | MW-25 | MW-25 | MW-25 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Sample ID: | MW-23(39-41) | MW-24(17-19) | MW-24(38-40) | MW-24(41-42) | MW-25(13-15) | MW-25(31-33) | MW-25(43-45) |
| | | | | Lab Sample Id | C3584-08 | C3584-04 | C3584-05 | C3584-06 | C3816-01 | C3816-02 | C3816-03 |
| | | | | Depth: | 39 - 41 ft | 17 - 19 ft | 38 - 40 ft | 41 - 42 ft | 13 - 15 ft | 31 - 33 ft | 43 - 45 ft |
| | | | | Source: | CTECH | CTECH | CTECH | CTECH | CTECH | CTECH | CTECH |
| | | NYSDEC Part 375 Unrestricted Soil Criteria | NYSDEC Part 375 Commercial Soil Criteria | SDG: | C3584 | C3584 | C3584 | C3584 | C3816 | C3816 | C3816 |
| | | | | Matrix: | SOIL | SOIL | SOIL | SOIL | SOIL | SOIL | SOIL |
| | | | | Sampled: | 9/1/2011 1:45 | 8/30/2011 10:00 | 8/31/2011 11:30 | 8/31/2011 1:30 | 9/20/2011 11:00 | 9/20/2011 2:20 | 9/21/2011 11:35 |
| | | | | Validated: | 1/23/2012 | 1/23/2012 | 1/23/2012 | 1/23/2012 | 1/23/2012 | 1/23/2012 | 1/23/2012 |
| CAS NO. | COMPOUND | | | UNITS: | | | | | | | |
| | INORGANICS | | | | | | | | | | |
| 7429-90-5 | ALUMINUM | -- | -- | mg/Kg | 4170 | 2250 | 1740 | 3370 | 6310 | 6000 | 2080 |
| 7440-36-0 | ANTIMONY | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 7440-38-2 | ARSENIC | 13 | 16 | mg/Kg | 1.72 | 0.48 J | ND | 1.45 | 1.65 | 1.14 | 0.526 J |
| 7440-39-3 | BARIUM | 350 | 400 | mg/Kg | 53.3 | 25.4 | 19.2 | 37.2 | 68.3 | 67.2 | 12 |
| 7440-41-7 | BERYLLIUM | 7.2 | 590 | mg/Kg | 0.32 | ND | ND | 0.27 J | 0.22 J | 0.18 J | 0.14 J |
| 7440-43-9 | CADMIUM | 2.5 | 9.3 | mg/Kg | ND | ND | ND | ND | 0.881 | 0.845 | 0.282 |
| 7440-70-2 | CALCIUM | -- | -- | mg/Kg | 1070 | 552 | 1230 | 669 | 900 | 763 | 1050 |
| 7440-47-3 | CHROMIUM, TOTAL | 30 | 1500 | mg/Kg | 14.6 | 8.51 | 9.04 | 16 | 19.9 J | 19.2 J | 5.03 J |
| 7440-48-4 | COBALT | -- | -- | mg/Kg | 7.75 | 3.77 | 2.14 | 7.96 | 6.62 | 7.48 | 2.14 |
| 7440-50-8 | COPPER | 50 | 270 | mg/Kg | 16.8 | 8.15 | 5.99 | 10 | 10.6 J | 10.5 J | 4.11 J |
| 7439-89-6 | IRON | -- | -- | mg/Kg | 12600 | 9370 | 5950 | 11200 | 15900 | 15100 | 5090 |
| 7439-92-1 | LEAD | 63 | 1000 | mg/Kg | 5.99 J | 1 J | 1 J | 4.05 J | 5.95 | 5.92 | 1.13 |
| 7439-95-4 | MAGNESIUM | -- | -- | mg/Kg | 1960 | 884 | 775 | 1320 | 2740 | 2600 | 1000 |
| 7439-96-5 | MANGANESE | 1600 | 10000 | mg/Kg | 244 | 88.2 | 63.4 | 282 | 155 | 183 | 80.3 |
| 7439-97-6 | MERCURY | 0.18 | 2.8 | mg/Kg | 0.01 J | 0.002 J | 0.006 J | 0.008 J | 0.021 | 0.003 J | ND |
| 7440-02-0 | NICKEL | 30 | 310 | mg/Kg | 15.1 | 7.41 | 7.36 | 10.9 | 18.9 | 16.5 | 4.68 |
| 7440-09-7 | POTASSIUM | -- | -- | mg/Kg | 1460 | 967 | 711 | 1040 | 2740 | 2620 | 344 |
| 7782-49-2 | SELENIUM | 3.9 | 1500 | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 7440-22-4 | SILVER | 2 | 1500 | mg/Kg | 0.4 J | 0.32 J | 0.3 J | 0.33 J | ND | ND | ND |
| 7440-23-5 | SODIUM | -- | -- | mg/Kg | 167 | 140 | 191 | 298 | 195 J | 440 J | 145 J |
| 7440-28-0 | THALLIUM | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 7440-62-2 | VANADIUM | -- | -- | mg/Kg | 17.5 | 10.3 | 6.81 | 15.3 | 23.7 | 22.9 | 8.43 |
| 7440-66-6 | ZINC | 109 | 10000 | mg/Kg | 34.9 | 15.6 | 14.6 | 27.4 | 34.2 | 30.4 | 12 |
| 57-12-5 | CYANIDE | 27 | 27 | mg/Kg | 0.082 J | 0.181 J | 0.246 J | ND | 0.792 | 0.351 | ND |

Exceeds NYSDEC Part 375 Unrestricted Soil Criteria
Exceeds NYSDEC Commercial Soil Criteria

(1) NYSDEC 6 NYCRR Part 375 Environmental Remediation Program (December 2006)
(2) -- indicates no clean up objective or background level is available
(3) NA indicates compound was not analyzed for
(4) ND indicates compound was not detected
(5) J indicates an estimated concentration
(6) R indicates rejected data
(7) Grey shaded values exceed NYSDEC Part 375 Unrestricted Soil Criteria
(8) Orange shaded values exceed NYSDEC Part 375 Commercial Soil Criteria

Table 3
Farrington Street Former MGP Site
Summary of Soil Analytical Data
Consolidated Edison Company of New York

| Consolidated Edison<br>Farrington Street Remedial Investigation<br>2009-2015 Soil Analytical Data<br>Detected Compounds Only | | | | Location ID: | MW-25 | MW-26 | MW-26 | MW-26 | MW-27 | MW-27 | MW-28 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Sample ID: | MW-25(53-55) | MW-26(12-14) | MW-26(22-24) | MW-26(26-28) | MW-27(13-15) | MW-27(23-25) | MW-28(11-13) |
| | | | | Lab Sample Id | C3816-04 | C3584-01 | C3584-02 | C3584-03 | C3769-05 | C3769-06 | C3769-07 |
| | | | | Depth: | 53 - 55 ft | 12 - 14 ft | 22 - 24 ft | 26 - 28 ft | 13 - 15 ft | 23 - 25 ft | 11 - 13 ft |
| | | | | Source: | CTECH | CTECH | CTECH | CTECH | CTECH | CTECH | CTECH |
| | | NYSDEC Part 375 Unrestricted Soil Criteria | NYSDEC Part 375 Commercial Soil Criteria | SDG: | C3816 | C3584 | C3584 | C3584 | C3769 | C3769 | C3769 |
| | | | | Matrix: | SOIL | SOIL | SOIL | SOIL | SOIL | SOIL | SOIL |
| | | | | Sampled: | 9/21/2011 2:45 | 8/25/2011 11:20 | 8/25/2011 1:20 | 8/25/2011 2:45 | 9/15/2011 10:55 | 9/15/2011 12:00 | 9/16/2011 11:45 |
| | | | | Validated: | 1/23/2012 | 1/23/2012 | 1/23/2012 | 1/23/2012 | 1/23/2012 | 1/23/2012 | 1/23/2012 |
| CAS NO. | COMPOUND | | | UNITS: | | | | | | | |
| | VOLATILES | | | | | | | | | | |
| 79-34-5 | 1,1,2,2-TETRACHLOROETHANE | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 120-82-1 | 1,2,4-TRICHLOROBENZENE | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 95-50-1 | 1,2-DICHLOROBENZENE | 1.1 | 500 | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 541-73-1 | 1,3-DICHLOROBENZENE | 2.4 | 280 | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 106-46-7 | 1,4-DICHLOROBENZENE | 1.8 | 130 | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 591-78-6 | 2-HEXANONE | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 67-64-1 | ACETONE | 0.05 | 500 | mg/Kg | ND | ND | ND | R | ND | ND | ND |
| 71-43-2 | BENZENE | 0.06 | 44 | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 75-15-0 | CARBON DISULFIDE | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 108-90-7 | CHLOROBENZENE | 1.1 | 500 | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 67-66-3 | CHLOROFORM | 0.37 | 350 | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 156-59-2 | CIS-1,2-DICHLOROETHYLENE | 0.25 | 500 | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 110-82-7 | CYCLOHEXANE | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 100-41-4 | ETHYLBENZENE | 1 | 390 | mg/Kg | ND | ND | **4** J | ND | ND | ND | ND |
| 98-82-8 | ISOPROPYLBENZENE (CUMENE) | -- | -- | mg/Kg | ND | 0.45 J | 5.5 J | ND | ND | ND | ND |
| XYLMP | M,P-XYLENE (SUM OF ISOMERS) | 0.26 | 500 | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 79-20-9 | METHYL ACETATE | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 78-93-3 | METHYL ETHYL KETONE (2-BUTANONE) | 0.12 | 500 | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 108-10-1 | METHYL ISOBUTYL KETONE | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 108-87-2 | METHYLCYCLOHEXANE | -- | -- | mg/Kg | ND | 0.33 J | ND | ND | ND | ND | ND |
| 75-09-2 | METHYLENE CHLORIDE | 0.05 | 500 | mg/Kg | ND | ND | ND | 0.0036 J | 0.0052 J | 0.0049 J | ND |
| 95-47-6 | O-XYLENE (1,2-DIMETHYLBENZENE) | 0.26 | 500 | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 100-42-5 | STYRENE | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 1634-04-4 | TERT-BUTYL METHYL ETHER | 0.93 | 500 | mg/Kg | ND | ND | ND | 0.005 J | ND | ND | ND |
| 127-18-4 | TETRACHLOROETHYLENE(PCE) | 1.3 | 150 | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 108-88-3 | TOLUENE | 0.7 | 500 | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 79-01-6 | TRICHLOROETHYLENE (TCE) | 0.47 | 200 | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 95-63-6 | 1,2,4-TRIMETHYLBENZENE | 3.6 | 190 | mg/kg | | | | | | | |
| 108-67-8 | 1,3,5-TRIMETHYLBENZENE (MESITYLENE) | 8.4 | 190 | mg/kg | | | | | | | |
| 103-65-1 | N-PROPYLBENZENE | 3.9 | 500 | mg/kg | | | | | | | |
| 135-98-8 | SEC-BUTYLBENZENE | 11 | 500 | mg/kg | | | | | | | |
| | **TOTAL VOCS** | **--** | **--** | **mg/Kg** | **ND** | **0.78** | **9.5** | **0.0086** | **0.0052** | **0.0049** | **ND** |

Exceeds NYSDEC Part 375 Unrestricted Soil Criteria
Exceeds NYSDEC Commercial Soil Criteria
(1) NYSDEC 6 NYCRR Part 375 Environmental Remediation Program (December 2006)
(2) -- indicates no clean up objective or background level is available
(3) NA indicates compound was not analyzed for
(4) ND indicates compound was not detected
(5) J indicates an estimated concentration; J+ indicated an estimated concentration biased high.
(6) R indicates rejected data
(7) Grey shaded values exceed NYSDEC Part 375 Unrestricted Soil Criteria
(8) Orange shaded values exceed NYSDEC Part 375 Commercial Soil Criteria

Table 3
Farrington Street Former MGP Site
Summary of Soil Analytical Data
Consolidated Edison Company of New York

| Consolidated Edison<br>Farrington Street Remedial Investigation<br>2009-2015 Soil Analytical Data<br>Detected Compounds Only | | | | Location ID: | MW-25 | MW-26 | MW-26 | MW-26 | MW-27 | MW-27 | MW-28 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Sample ID: | MW-25(53-55) | MW-26(12-14) | MW-26(22-24) | MW-26(26-28) | MW-27(13-15) | MW-27(23-25) | MW-28(11-13) |
| | | | | Lab Sample Id | C3816-04 | C3584-01 | C3584-02 | C3584-03 | C3769-05 | C3769-06 | C3769-07 |
| | | | | Depth: | 53 - 55 ft | 12 - 14 ft | 22 - 24 ft | 26 - 28 ft | 13 - 15 ft | 23 - 25 ft | 11 - 13 ft |
| | | | | Source: | CTECH | CTECH | CTECH | CTECH | CTECH | CTECH | CTECH |
| | | NYSDEC Part 375 Unrestricted Soil Criteria | NYSDEC Part 375 Commercial Soil Criteria | SDG: | C3816 | C3584 | C3584 | C3584 | C3769 | C3769 | C3769 |
| | | | | Matrix: | SOIL | SOIL | SOIL | SOIL | SOIL | SOIL | SOIL |
| | | | | Sampled: | 9/21/2011 2:45 | 8/25/2011 11:20 | 8/25/2011 1:20 | 8/25/2011 2:45 | 9/15/2011 10:55 | 9/15/2011 12:00 | 9/16/2011 11:45 |
| | | | | Validated: | 1/23/2012 | 1/23/2012 | 1/23/2012 | 1/23/2012 | 1/23/2012 | 1/23/2012 | 1/23/2012 |
| CAS NO. | COMPOUND | | | UNITS: | | | | | | | |
| | SEMIVOLATILES | | | | | | | | | | |
| 95-94-3 | 1,2,4,5-TETRACHLOROBENZENE | -- | -- | mg/Kg | | | | | | | |
| 58-90-2 | 2,3,4,6-TETRACHLOROPHENOL | -- | -- | mg/kg | | | | | | | |
| 88-06-2 | 2,4,6-TRICHLOROPHENOL | -- | -- | mg/kg | ND | ND | ND | ND | ND | ND | ND |
| 105-67-9 | 2,4-DIMETHYLPHENOL | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 91-57-6 | 2-METHYLNAPHTHALENE | -- | -- | mg/Kg | ND | 1.5 | ND | ND | ND | ND | ND |
| 95-48-7 | 2-METHYLPHENOL (O-CRESOL) | 0.33 | 500 | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| MEPH3MEPH | 3- AND 4- METHYLPHENOL (TOTAL) | 0.33 | 500 | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 83-32-9 | ACENAPHTHENE | 20 | 500 | mg/Kg | ND | 19 | **87** | ND | ND | ND | ND |
| 208-96-8 | ACENAPHTHYLENE | 100 | 500 | mg/Kg | 0.046 J | 1.3 | 14 | ND | ND | ND | ND |
| 98-86-2 | ACETOPHENONE | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 120-12-7 | ANTHRACENE | 100 | 500 | mg/Kg | 0.073 J | 8.9 | 42 | 0.065 J | ND | ND | ND |
| 100-52-7 | BENZALDEHYDE | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 56-55-3 | BENZO(A)ANTHRACENE | 1 | 5.6 | mg/Kg | ND | **6.6** | **28** | ND | ND | ND | ND |
| 50-32-8 | BENZO(A)PYRENE | 1 | 1 | mg/Kg | ND | **4.4** | **18** | ND | ND | ND | ND |
| 205-99-2 | BENZO(B)FLUORANTHENE | 1 | 5.6 | mg/Kg | ND | **3.9** | **13** | ND | ND | ND | ND |
| 191-24-2 | BENZO(G,H,I)PERYLENE | 100 | 500 | mg/Kg | 0.085 J | 2.2 | 6.9 | ND | ND | ND | ND |
| 207-08-9 | BENZO(K)FLUORANTHENE | 0.8 | 56 | mg/Kg | ND | **1.2** J | **5.1** J | ND | ND | ND | ND |
| 85-68-7 | BENZYL BUTYL PHTHALATE | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 92-52-4 | BIPHENYL (DIPHENYL) | -- | -- | mg/Kg | ND | 0.23 J | 8.7 | ND | ND | ND | ND |
| 117-81-7 | BIS(2-ETHYLHEXYL) PHTHALATE | -- | -- | mg/Kg | ND | 0.27 J | ND | 0.055 J | ND | ND | ND |
| 105-60-2 | CAPROLACTAM | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 86-74-8 | CARBAZOLE | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 218-01-9 | CHRYSENE | 1 | 56 | mg/Kg | ND | **6.4** | **28** | 0.057 J | ND | ND | ND |
| 53-70-3 | DIBENZ(A,H)ANTHRACENE | 0.33 | 0.56 | mg/Kg | ND | **0.45** J | **2.1** J | ND | ND | ND | ND |
| 132-64-9 | DIBENZOFURAN | 7 | 350 | mg/Kg | ND | 1.6 | 4.5 J | ND | ND | ND | ND |
| 84-66-2 | DIETHYL PHTHALATE | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 131-11-3 | DIMETHYL PHTHALATE | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 84-74-2 | DI-N-BUTYL PHTHALATE | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 117-84-0 | DI-N-OCTYLPHTHALATE | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 206-44-0 | FLUORANTHENE | 100 | 500 | mg/Kg | ND | 10 | 39 | 0.073 J | ND | ND | ND |
| 86-73-7 | FLUORENE | 30 | 500 | mg/Kg | ND | 9 | 11 | ND | ND | ND | ND |
| 193-39-5 | INDENO(1,2,3-C,D)PYRENE | 0.5 | 5.6 | mg/Kg | ND | **1.6** | **6** | ND | ND | ND | ND |
| 86-30-6 | N-NITROSODIPHENYLAMINE | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 91-20-3 | NAPHTHALENE | 12 | 500 | mg/Kg | ND | ND | 0.74 J | ND | ND | ND | ND |
| 87-86-5 | PENTACHLOROPHENOL | 0.8 | 6.7 | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 85-01-8 | PHENANTHRENE | 100 | 500 | mg/Kg | ND | 27 | **150** | 0.19 J | ND | ND | ND |
| 108-95-2 | PHENOL | 0.33 | 500 | mg/Kg | ND | ND | ND | 0.053 J | ND | ND | ND |
| 129-00-0 | PYRENE | 100 | 500 | mg/Kg | ND | 13 | 66 | 0.11 J | ND | ND | ND |
| | **TOTAL SVOCS** | -- | -- | **mg/kg** | **0.204** | **118.55** | **530.04** | **0.603** | **ND** | **ND** | **ND** |

Exceeds NYSDEC Part 375 Unrestricted Soil Criteria
Exceeds NYSDEC Commercial Soil Criteria
(1) NYSDEC 6 NYCRR Part 375 Environmental Remediation Program (December 2006)
(2) -- indicates no clean up objective or background level is available
(3) NA indicates compound was not analyzed for
(4) ND indicates compound was not detected
(5) J indicates an estimated concentration
(6) R indicates rejected data
(7) Grey shaded values exceed NYSDEC Part 375 Unrestricted Soil Criteria
(8) Orange shaded values exceed NYSDEC Part 375 Commercial Soil Criteria

Table 3
Farrington Street Former MGP Site
Summary of Soil Analytical Data
Consolidated Edison Company of New York

| Consolidated Edison<br>Farrington Street Remedial Investigation<br>2009-2015 Soil Analytical Data<br>Detected Compounds Only | | | | Location ID: | MW-25 | MW-26 | MW-26 | MW-26 | MW-27 | MW-27 | MW-28 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Sample ID: | MW-25(53-55) | MW-26(12-14) | MW-26(22-24) | MW-26(26-28) | MW-27(13-15) | MW-27(23-25) | MW-28(11-13) |
| | | | | Lab Sample Id | C3816-04 | C3584-01 | C3584-02 | C3584-03 | C3769-05 | C3769-06 | C3769-07 |
| | | | | Depth: | 53 - 55 ft | 12 - 14 ft | 22 - 24 ft | 26 - 28 ft | 13 - 15 ft | 23 - 25 ft | 11 - 13 ft |
| | | | | Source: | CTECH | CTECH | CTECH | CTECH | CTECH | CTECH | CTECH |
| | | NYSDEC Part 375 Unrestricted Soil Criteria | NYSDEC Part 375 Commercial Soil Criteria | SDG: | C3816 | C3584 | C3584 | C3584 | C3769 | C3769 | C3769 |
| | | | | Matrix: | SOIL | SOIL | SOIL | SOIL | SOIL | SOIL | SOIL |
| | | | | Sampled: | 9/21/2011 2:45 | 8/25/2011 11:20 | 8/25/2011 1:20 | 8/25/2011 2:45 | 9/15/2011 10:55 | 9/15/2011 12:00 | 9/16/2011 11:45 |
| | | | | Validated: | 1/23/2012 | 1/23/2012 | 1/23/2012 | 1/23/2012 | 1/23/2012 | 1/23/2012 | 1/23/2012 |
| CAS NO. | COMPOUND | | | UNITS: | | | | | | | |
| | INORGANICS | | | | | | | | | | |
| 7429-90-5 | ALUMINUM | -- | -- | mg/Kg | 5730 | 2730 | 2170 | 4250 | 12900 | 5060 | 3270 |
| 7440-36-0 | ANTIMONY | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 7440-38-2 | ARSENIC | 13 | 16 | mg/Kg | 1.66 | 1.59 | 3.19 | ND | 0.851 J | 0.883 J | 0.906 |
| 7440-39-3 | BARIUM | 350 | 400 | mg/Kg | 41.2 | 24.8 | 24.4 | 48.4 | 171 J | 56.8 J | 35.4 J |
| 7440-41-7 | BERYLLIUM | 7.2 | 590 | mg/Kg | 0.378 | 0.14 J | 0.07 J | 0.1 J | 0.374 | 0.176 J | 0.119 J |
| 7440-43-9 | CADMIUM | 2.5 | 9.3 | mg/Kg | 0.742 | ND | ND | ND | 0.106 J | ND | ND |
| 7440-70-2 | CALCIUM | -- | -- | mg/Kg | 1330 | 12600 | 724 | 1130 | 1260 | 1060 | 596 |
| 7440-47-3 | CHROMIUM, TOTAL | 30 | 1500 | mg/Kg | 20.2 J | 9.27 | 7.54 | 13.2 | **33.3** | 18.2 | 9.43 |
| 7440-48-4 | COBALT | -- | -- | mg/Kg | 9.2 | 5.78 | 2.65 | 4.88 | 15.7 | 6.48 | 4 |
| 7440-50-8 | COPPER | 50 | 270 | mg/Kg | 15.4 J | 15.4 | 9.64 | 13.7 | 21 | 12.2 | 11.4 |
| 7439-89-6 | IRON | -- | -- | mg/Kg | 13400 | 8920 | 7390 | 9440 | 29700 | 13600 | 9770 |
| 7439-92-1 | LEAD | 63 | 1000 | mg/Kg | 4.3 | 2.58 J | 2.09 J | 1.44 J | 7.12 | 4.47 | 2.96 |
| 7439-95-4 | MAGNESIUM | -- | -- | mg/Kg | 1920 | 7230 | 996 | 1690 | 5610 | 2340 | 1170 |
| 7439-96-5 | MANGANESE | 1600 | 10000 | mg/Kg | 146 | 132 | 207 | 163 | 390 | 211 | 89.7 |
| 7439-97-6 | MERCURY | 0.18 | 2.8 | mg/Kg | ND | 0.003 J | 0.005 J | 0.007 J | ND | ND | ND |
| 7440-02-0 | NICKEL | 30 | 310 | mg/Kg | 16.5 | 8.91 | 8.25 | 12.1 | 28.2 | 18.9 | 8.4 |
| 7440-09-7 | POTASSIUM | -- | -- | mg/Kg | 1270 | 904 | 900 | 1700 | 7380 J | 2120 J | 1260 J |
| 7782-49-2 | SELENIUM | 3.9 | 1500 | mg/Kg | 0.439 J | ND | ND | ND | ND | ND | 0.561 J |
| 7440-22-4 | SILVER | 2 | 1500 | mg/Kg | ND | 0.3 J | 0.24 J | 0.3 J | ND | ND | ND |
| 7440-23-5 | SODIUM | -- | -- | mg/Kg | 179 J | 511 | 569 | 304 | 315 J | 352 J | 299 J |
| 7440-28-0 | THALLIUM | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 7440-62-2 | VANADIUM | -- | -- | mg/Kg | 33.4 | 13 | 8.37 | 16.7 | 45.8 | 20.6 | 12.3 |
| 7440-66-6 | ZINC | 109 | 10000 | mg/Kg | 31.3 | 18.8 | 13.9 | 19.4 | 70.5 | 26.9 | 18.3 |
| 57-12-5 | CYANIDE | 27 | 27 | mg/Kg | 0.051 J | 0.148 J | 0.058 J | ND | ND | ND | ND |

Exceeds NYSDEC Part 375 Unrestricted Soil Criteria
Exceeds NYSDEC Commercial Soil Criteria

(1) NYSDEC 6 NYCRR Part 375 Environmental Remediation Program (December 2006)
(2) -- indicates no clean up objective or background level is available
(3) NA indicates compound was not analyzed for
(4) ND indicates compound was not detected
(5) J indicates an estimated concentration
(6) R indicates rejected data
(7) Grey shaded values exceed NYSDEC Part 375 Unrestricted Soil Criteria
(8) Orange shaded values exceed NYSDEC Part 375 Commercial Soil Criteria

Table 3
Farrington Street Former MGP Site
Summary of Soil Analytical Data
Consolidated Edison Company of New York

| Consolidated Edison<br>Farrington Street Remedial Investigation<br>2009-2015 Soil Analytical Data<br>Detected Compounds Only | | | | Location ID: | MW-28 | MW-29 | MW-29 | MW-30 | Dup of MW-30(29-31) MW-30 | MW-30 | MW-41 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Sample ID: | MW-28(23-25) | MW-29(15-17) | MW-29(37-39) | MW-30(29-31) | MW-30A(29-31) | MW-30(33-35) | MW-41(12-14)-20150120 |
| | | | | Lab Sample Id | C3769-08 | C3584-09 | C3666-01 | C3666-02 | C3666-03 | C3666-04 | G1159-09 |
| | | | | Depth: | 23 - 25 ft | 15 - 17 ft | 37 - 39 ft | 29 - 31 ft | 29 - 31 ft | 33 - 35 ft | 12 - 14 ft |
| | | | | Source: | CTECH | CTECH | CTECH | CTECH | CTECH | CTECH | CTECH |
| | | NYSDEC Part 375 Unrestricted Soil Criteria | NYSDEC Part 375 Commercial Soil Criteria | SDG: | C3769 | C3584 | C3666 | C3666 | C3666 | C3666 | G1159 |
| | | | | Matrix: | SOIL | SOIL | SOIL | SOIL | SOIL | SOIL | SOIL |
| | | | | Sampled: | 9/16/2011 1:00 | 9/2/2011 11:40 | 9/6/2011 10:40 | 9/7/2011 2:00 | 9/7/2011 2:10 | 9/8/2011 10:00 | 1/20/2015 8:30 |
| | | | | Validated: | 1/23/2012 | 1/23/2012 | 1/23/2012 | 1/23/2012 | 1/23/2012 | 1/23/2012 | 2/25/2015 |
| CAS NO. | COMPOUND | | | UNITS: | | | | | | | |
| | VOLATILES | | | | | | | | | | |
| 79-34-5 | 1,1,2,2-TETRACHLOROETHANE | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 120-82-1 | 1,2,4-TRICHLOROBENZENE | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 95-50-1 | 1,2-DICHLOROBENZENE | 1.1 | 500 | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 541-73-1 | 1,3-DICHLOROBENZENE | 2.4 | 280 | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 106-46-7 | 1,4-DICHLOROBENZENE | 1.8 | 130 | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 591-78-6 | 2-HEXANONE | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 67-64-1 | ACETONE | 0.05 | 500 | mg/Kg | ND | ND | ND | ND | ND | ND | **0.14** |
| 71-43-2 | BENZENE | 0.06 | 44 | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 75-15-0 | CARBON DISULFIDE | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | 0.0049 J |
| 108-90-7 | CHLOROBENZENE | 1.1 | 500 | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 67-66-3 | CHLOROFORM | 0.37 | 350 | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 156-59-2 | CIS-1,2-DICHLOROETHYLENE | 0.25 | 500 | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 110-82-7 | CYCLOHEXANE | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 100-41-4 | ETHYLBENZENE | 1 | 390 | mg/Kg | ND | 0.27 J | ND | ND | ND | ND | ND |
| 98-82-8 | ISOPROPYLBENZENE (CUMENE) | -- | -- | mg/Kg | ND | 0.57 J | ND | ND | ND | ND | 0.004 J |
| XYLMP | M,P-XYLENE (SUM OF ISOMERS) | 0.26 | 500 | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 79-20-9 | METHYL ACETATE | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 78-93-3 | METHYL ETHYL KETONE (2-BUTANONE) | 0.12 | 500 | mg/Kg | ND | ND | ND | ND | ND | ND | 0.0332 J |
| 108-10-1 | METHYL ISOBUTYL KETONE | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 108-87-2 | METHYLCYCLOHEXANE | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 75-09-2 | METHYLENE CHLORIDE | 0.05 | 500 | mg/Kg | 0.0052 J | ND | ND | ND | ND | ND | 0.0109 |
| 95-47-6 | O-XYLENE (1,2-DIMETHYLBENZENE) | 0.26 | 500 | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 100-42-5 | STYRENE | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 1634-04-4 | TERT-BUTYL METHYL ETHER | 0.93 | 500 | mg/Kg | ND | ND | 0.0014 J | ND | ND | ND | ND |
| 127-18-4 | TETRACHLOROETHYLENE(PCE) | 1.3 | 150 | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 108-88-3 | TOLUENE | 0.7 | 500 | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 79-01-6 | TRICHLOROETHYLENE (TCE) | 0.47 | 200 | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 95-63-6 | 1,2,4-TRIMETHYLBENZENE | 3.6 | 190 | mg/kg | | | | | | | |
| 108-67-8 | 1,3,5-TRIMETHYLBENZENE (MESITYLENE) | 8.4 | 190 | mg/kg | | | | | | | |
| 103-65-1 | N-PROPYLBENZENE | 3.9 | 500 | mg/kg | | | | | | | |
| 135-98-8 | SEC-BUTYLBENZENE | 11 | 500 | mg/kg | | | | | | | |
| | **TOTAL VOCS** | **--** | **--** | **mg/Kg** | **0.0052** | **0.84** | **0.0014** | **ND** | **ND** | **ND** | **0.193** |

Exceeds NYSDEC Part 375 Unrestricted Soil Criteria
Exceeds NYSDEC Commercial Soil Criteria
(1) NYSDEC 6 NYCRR Part 375 Environmental Remediation Program (December 2006)
(2) -- indicates no clean up objective or background level is available
(3) NA indicates compound was not analyzed for
(4) ND indicates compound was not detected
(5) J indicates an estimated concentration; J+ indicated an estimated concentration biased high.
(6) R indicates rejected data
(7) Grey shaded values exceed NYSDEC Part 375 Unrestricted Soil Criteria
(8) Orange shaded values exceed NYSDEC Part 375 Commercial Soil Criteria

Table 3
Farrington Street Former MGP Site
Summary of Soil Analytical Data
Consolidated Edison Company of New York

| Consolidated Edison<br>Farrington Street Remedial Investigation<br>2009-2015 Soil Analytical Data<br>Detected Compounds Only | | | | Location ID: | MW-28 | MW-29 | MW-29 | MW-30 | Dup of MW-30(29-31)<br>MW-30 | MW-30 | MW-41 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Sample ID: | MW-28(23-25) | MW-29(15-17) | MW-29(37-39) | MW-30(29-31) | MW-30A(29-31) | MW-30(33-35) | MW-41(12-14)-20150120 |
| | | | | Lab Sample Id | C3769-08 | C3584-09 | C3666-01 | C3666-02 | C3666-03 | C3666-04 | G1159-09 |
| | | | | Depth: | 23 - 25 ft | 15 - 17 ft | 37 - 39 ft | 29 - 31 ft | 29 - 31 ft | 33 - 35 ft | 12 - 14 ft |
| | | | | Source: | CTECH | CTECH | CTECH | CTECH | CTECH | CTECH | CTECH |
| | | NYSDEC Part 375 Unrestricted Soil Criteria | NYSDEC Part 375 Commercial Soil Criteria | SDG: | C3769 | C3584 | C3666 | C3666 | C3666 | C3666 | G1159 |
| | | | | Matrix: | SOIL | SOIL | SOIL | SOIL | SOIL | SOIL | SOIL |
| | | | | Sampled: | 9/16/2011 1:00 | 9/2/2011 11:40 | 9/6/2011 10:40 | 9/7/2011 2:00 | 9/7/2011 2:10 | 9/8/2011 10:00 | 1/20/2015 8:30 |
| | | | | Validated: | 1/23/2012 | 1/23/2012 | 1/23/2012 | 1/23/2012 | 1/23/2012 | 1/23/2012 | 2/25/2015 |
| CAS NO. | COMPOUND | | | UNITS: | | | | | | | |
| | SEMIVOLATILES | | | | | | | | | | |
| 95-94-3 | 1,2,4,5-TETRACHLOROBENZENE | -- | -- | mg/Kg | | | | | | | |
| 58-90-2 | 2,3,4,6-TETRACHLOROPHENOL | -- | -- | mg/kg | | | | | | | |
| 88-06-2 | 2,4,6-TRICHLOROPHENOL | -- | -- | mg/kg | ND | ND | ND | ND | ND | ND | ND |
| 105-67-9 | 2,4-DIMETHYLPHENOL | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 91-57-6 | 2-METHYLNAPHTHALENE | -- | -- | mg/Kg | ND | 11 J | ND | ND | ND | ND | ND |
| 95-48-7 | 2-METHYLPHENOL (O-CRESOL) | 0.33 | 500 | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| MEPH3MEPH | 3- AND 4- METHYLPHENOL (TOTAL) | 0.33 | 500 | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 83-32-9 | ACENAPHTHENE | 20 | 500 | mg/Kg | ND | 3.2 | ND | ND | ND | ND | ND |
| 208-96-8 | ACENAPHTHYLENE | 100 | 500 | mg/Kg | ND | 0.24 J | ND | ND | ND | ND | ND |
| 98-86-2 | ACETOPHENONE | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 120-12-7 | ANTHRACENE | 100 | 500 | mg/Kg | ND | 1.7 | ND | ND | ND | ND | ND |
| 100-52-7 | BENZALDEHYDE | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 56-55-3 | BENZO(A)ANTHRACENE | 1 | 5.6 | mg/Kg | ND | 1 | ND | ND | ND | ND | ND |
| 50-32-8 | BENZO(A)PYRENE | 1 | 1 | mg/Kg | ND | 0.64 | ND | ND | ND | ND | ND |
| 205-99-2 | BENZO(B)FLUORANTHENE | 1 | 5.6 | mg/Kg | ND | 0.53 | ND | ND | ND | ND | ND |
| 191-24-2 | BENZO(G,H,I)PERYLENE | 100 | 500 | mg/Kg | ND | 0.29 J | ND | ND | ND | ND | ND |
| 207-08-9 | BENZO(K)FLUORANTHENE | 0.8 | 56 | mg/Kg | ND | 0.22 J | ND | ND | ND | ND | ND |
| 85-68-7 | BENZYL BUTYL PHTHALATE | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 92-52-4 | BIPHENYL (DIPHENYL) | -- | -- | mg/Kg | ND | 0.28 J | ND | ND | ND | ND | ND |
| 117-81-7 | BIS(2-ETHYLHEXYL) PHTHALATE | -- | -- | mg/Kg | ND | 0.34 J | ND | 0.093 J | 0.097 J | 0.15 J | ND |
| 105-60-2 | CAPROLACTAM | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 86-74-8 | CARBAZOLE | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 218-01-9 | CHRYSENE | 1 | 56 | mg/Kg | ND | 0.98 | ND | ND | ND | ND | ND |
| 53-70-3 | DIBENZ(A,H)ANTHRACENE | 0.33 | 0.56 | mg/Kg | ND | 0.077 J | ND | ND | ND | ND | ND |
| 132-64-9 | DIBENZOFURAN | 7 | 350 | mg/Kg | ND | 0.25 J | ND | ND | ND | ND | ND |
| 84-66-2 | DIETHYL PHTHALATE | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 131-11-3 | DIMETHYL PHTHALATE | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | 0.18 J |
| 84-74-2 | DI-N-BUTYL PHTHALATE | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 117-84-0 | DI-N-OCTYLPHTHALATE | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 206-44-0 | FLUORANTHENE | 100 | 500 | mg/Kg | ND | 1.7 | ND | ND | ND | ND | 0.19 J |
| 86-73-7 | FLUORENE | 30 | 500 | mg/Kg | ND | 1.9 | ND | ND | ND | ND | ND |
| 193-39-5 | INDENO(1,2,3-C,D)PYRENE | 0.5 | 5.6 | mg/Kg | ND | 0.23 J | ND | ND | ND | ND | ND |
| 86-30-6 | N-NITROSODIPHENYLAMINE | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 91-20-3 | NAPHTHALENE | 12 | 500 | mg/Kg | ND | 7.5 | ND | ND | ND | ND | ND |
| 87-86-5 | PENTACHLOROPHENOL | 0.8 | 6.7 | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 85-01-8 | PHENANTHRENE | 100 | 500 | mg/Kg | ND | 6.3 | ND | ND | ND | ND | ND |
| 108-95-2 | PHENOL | 0.33 | 500 | mg/Kg | ND | 0.054 J | ND | ND | ND | ND | 0.16 J |
| 129-00-0 | PYRENE | 100 | 500 | mg/Kg | ND | 2.2 | ND | ND | ND | ND | 0.15 J |
| | **TOTAL SVOCS** | -- | -- | **mg/kg** | **ND** | **40.631** | **ND** | **0.093** | **0.097** | **0.15** | **0.68** |

Exceeds NYSDEC Part 375 Unrestricted Soil Criteria
Exceeds NYSDEC Commercial Soil Criteria
(1) NYSDEC 6 NYCRR Part 375 Environmental Remediation Program (December 2006)
(2) -- indicates no clean up objective or background level is available
(3) NA indicates compound was not analyzed for
(4) ND indicates compound was not detected
(5) J indicates an estimated concentration
(6) R indicates rejected data
(7) Grey shaded values exceed NYSDEC Part 375 Unrestricted Soil Criteria
(8) Orange shaded values exceed NYSDEC Part 375 Commercial Soil Criteria

Table 3
Farrington Street Former MGP Site
Summary of Soil Analytical Data
Consolidated Edison Company of New York

| Consolidated Edison<br>Farrington Street Remedial Investigation<br>2009-2015 Soil Analytical Data<br>Detected Compounds Only | | | | Location ID: | MW-28 | MW-29 | MW-29 | MW-30 | Dup of MW-30(29-31) MW-30 | MW-30 | MW-41 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Sample ID: | MW-28(23-25) | MW-29(15-17) | MW-29(37-39) | MW-30(29-31) | MW-30A(29-31) | MW-30(33-35) | MW-41(12-14)-20150120 |
| | | | | Lab Sample Id | C3769-08 | C3584-09 | C3666-01 | C3666-02 | C3666-03 | C3666-04 | G1159-09 |
| | | | | Depth: | 23 - 25 ft | 15 - 17 ft | 37 - 39 ft | 29 - 31 ft | 29 - 31 ft | 33 - 35 ft | 12 - 14 ft |
| | | | | Source: | CTECH | CTECH | CTECH | CTECH | CTECH | CTECH | CTECH |
| | | NYSDEC Part 375 Unrestricted Soil Criteria | NYSDEC Part 375 Commercial Soil Criteria | SDG: | C3769 | C3584 | C3666 | C3666 | C3666 | C3666 | G1159 |
| | | | | Matrix: | SOIL | SOIL | SOIL | SOIL | SOIL | SOIL | SOIL |
| | | | | Sampled: | 9/16/2011 1:00 | 9/2/2011 11:40 | 9/6/2011 10:40 | 9/7/2011 2:00 | 9/7/2011 2:10 | 9/8/2011 10:00 | 1/20/2015 8:30 |
| | | | | Validated: | 1/23/2012 | 1/23/2012 | 1/23/2012 | 1/23/2012 | 1/23/2012 | 1/23/2012 | 2/25/2015 |
| CAS NO. | COMPOUND | | | UNITS: | | | | | | | |
| | INORGANICS | | | | | | | | | | |
| 7429-90-5 | ALUMINUM | -- | -- | mg/Kg | 4250 | 4710 | 5380 | 4210 | 4000 | 2170 | 7170 |
| 7440-36-0 | ANTIMONY | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 7440-38-2 | ARSENIC | 13 | 16 | mg/Kg | 1.51 | ND | 1.09 J | 0.745 J | 1.54 | 0.537 J | 5.95 |
| 7440-39-3 | BARIUM | 350 | 400 | mg/Kg | 46.7 J | 47.4 | 46.8 | 45.3 | 42.7 | 19.1 | 69.4 |
| 7440-41-7 | BERYLLIUM | 7.2 | 590 | mg/Kg | 0.168 J | 0.13 J | 0.249 J | 0.13 J | 0.11 J | 0.067 J | 0.483 |
| 7440-43-9 | CADMIUM | 2.5 | 9.3 | mg/Kg | 0.1 J | ND | ND | ND | ND | ND | ND |
| 7440-70-2 | CALCIUM | -- | -- | mg/Kg | 714 | 2960 | 606 | 750 | 755 | 1500 | 5860 |
| 7440-47-3 | CHROMIUM, TOTAL | 30 | 1500 | mg/Kg | 19.6 | 18.3 | 15.8 | 15.8 | 17 | 7.8 | 25.9 |
| 7440-48-4 | COBALT | -- | -- | mg/Kg | 6.94 | 5.59 | 8.42 | 5.26 | 4.98 | 2.8 | 5.32 |
| 7440-50-8 | COPPER | 50 | 270 | mg/Kg | 18 | 12 | 9.83 J | 8.47 J | 8.86 J | 4.44 J | 44.9 J+ |
| 7439-89-6 | IRON | -- | -- | mg/Kg | 17000 | 11000 | 14200 | 11800 | 11500 | 6530 | 14600 |
| 7439-92-1 | LEAD | 63 | 1000 | mg/Kg | 4.92 | 7.04 J | 3.63 | 3.56 | 7.95 | 2.41 | **383** |
| 7439-95-4 | MAGNESIUM | -- | -- | mg/Kg | 1590 | 3120 | 1980 | 1870 | 1760 | 938 | 3160 |
| 7439-96-5 | MANGANESE | 1600 | 10000 | mg/Kg | 302 | 121 | 214 | 113 | 108 | 61.7 | 183 J+ |
| 7439-97-6 | MERCURY | 0.18 | 2.8 | mg/Kg | ND | 0.056 | ND | ND | 0.002 J | 0.018 | 0.093 |
| 7440-02-0 | NICKEL | 30 | 310 | mg/Kg | 15.8 | 16.8 | 13.5 | 17 | 16.3 | 9.64 | 16.3 |
| 7440-09-7 | POTASSIUM | -- | -- | mg/Kg | 1550 J | 2130 | 1900 | 1740 | 1630 | 642 | 1390 |
| 7782-49-2 | SELENIUM | 3.9 | 1500 | mg/Kg | 0.764 J | ND | ND | ND | ND | ND | 0.704 J |
| 7440-22-4 | SILVER | 2 | 1500 | mg/Kg | ND | 0.36 J | ND | ND | ND | ND | ND |
| 7440-23-5 | SODIUM | -- | -- | mg/Kg | 384 J | 195 | ND | ND | ND | ND | 3100 |
| 7440-28-0 | THALLIUM | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 7440-62-2 | VANADIUM | -- | -- | mg/Kg | 20.6 | 17 | 18.7 | 16.2 | 15.9 | 9.18 | 30.3 |
| 7440-66-6 | ZINC | 109 | 10000 | mg/Kg | 26.9 | 32 | 28.7 | 24.4 | 22.3 | 16 | **176** |
| 57-12-5 | CYANIDE | 27 | 27 | mg/Kg | 0.069 J | 0.127 J | ND | 0.056 J | 0.081 J | 0.066 J | 0.128 J |

Exceeds NYSDEC Part 375 Unrestricted Soil Criteria
Exceeds NYSDEC Commercial Soil Criteria

(1) NYSDEC 6 NYCRR Part 375 Environmental Remediation Program (December 2006)
(2) -- indicates no clean up objective or background level is available
(3) NA indicates compound was not analyzed for
(4) ND indicates compound was not detected
(5) J indicates an estimated concentration
(6) R indicates rejected data
(7) Grey shaded values exceed NYSDEC Part 375 Unrestricted Soil Criteria
(8) Orange shaded values exceed NYSDEC Part 375 Commercial Soil Criteria

Table 3
Farrington Street Former MGP Site
Summary of Soil Analytical Data
Consolidated Edison Company of New York

| Consolidated Edison<br>Farrington Street Remedial Investigation<br>2009-2015 Soil Analytical Data<br>Detected Compounds Only | | | | Location ID: | MW-41 | SB-17 | SB-17 | SB-18 | SB-18 | Dup of SB-18(18-22) | SB-19 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Sample ID: | MW-41(28-30)-20150120 | SB-17(13-18) | SB-17(28-33) | SB-18(8-13) | SB-18(18-22) | SB-18(8-13)D | SB-19(13-18) |
| | | | | Lab Sample Id | G1159-10 | A2876-01 | A2876-04 | A2915-01 | A2915-03 | A2915-02 | A2876-05 |
| | | | | Depth: | 28 - 30 ft | 13 - 18 ft | 28 - 33 ft | 8 - 13 ft | 18 - 22 ft | 8 - 13 ft | 13 - 18 ft |
| | | | | Source: | CTECH | Chemtech | Chemtech | Chemtech | Chemtech | Chemtech | Chemtech |
| | | NYSDEC Part 375 Unrestricted Soil Criteria | NYSDEC Part 375 Commercial Soil Criteria | SDG: | G1159 | A2876 | A2876 | A2915 | A2915 | A2915 | A2876 |
| | | | | Matrix: | SOIL | SOIL | SOIL | SOIL | SOIL | SOIL | SOIL |
| | | | | Sampled: | 1/20/2015 11:00 | 5/21/2009 0:00 | 5/21/2009 0:00 | 5/26/2009 0:00 | 5/26/2009 0:00 | 5/26/2009 0:00 | 5/21/2009 0:00 |
| | | | | Validated: | 2/25/2015 | 6/24/2009 | 6/24/2009 | 6/25/2009 | 6/25/2009 | 6/25/2009 | 6/24/2009 |
| CAS NO. | COMPOUND | | | UNITS: | | | | | | | |
| | VOLATILES | | | | | | | | | | |
| 79-34-5 | 1,1,2,2-TETRACHLOROETHANE | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 120-82-1 | 1,2,4-TRICHLOROBENZENE | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 95-50-1 | 1,2-DICHLOROBENZENE | 1.1 | 500 | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 541-73-1 | 1,3-DICHLOROBENZENE | 2.4 | 280 | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 106-46-7 | 1,4-DICHLOROBENZENE | 1.8 | 130 | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 591-78-6 | 2-HEXANONE | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 67-64-1 | ACETONE | 0.05 | 500 | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 71-43-2 | BENZENE | 0.06 | 44 | mg/Kg | ND | **2** J | ND | ND | ND | ND | ND |
| 75-15-0 | CARBON DISULFIDE | -- | -- | mg/Kg | 0.005 J | ND | ND | ND | ND | ND | ND |
| 108-90-7 | CHLOROBENZENE | 1.1 | 500 | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 67-66-3 | CHLOROFORM | 0.37 | 350 | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 156-59-2 | CIS-1,2-DICHLOROETHYLENE | 0.25 | 500 | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 110-82-7 | CYCLOHEXANE | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | 0.53 J |
| 100-41-4 | ETHYLBENZENE | 1 | 390 | mg/Kg | ND | **38** | ND | ND | ND | ND | **78** |
| 98-82-8 | ISOPROPYLBENZENE (CUMENE) | -- | -- | mg/Kg | ND | 29 | ND | ND | ND | ND | 14 |
| XYLMP | M,P-XYLENE (SUM OF ISOMERS) | 0.26 | 500 | mg/Kg | ND | **6.5** J | ND | ND | ND | ND | **1.2** J |
| 79-20-9 | METHYL ACETATE | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 78-93-3 | METHYL ETHYL KETONE (2-BUTANONE) | 0.12 | 500 | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 108-10-1 | METHYL ISOBUTYL KETONE | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 108-87-2 | METHYLCYCLOHEXANE | -- | -- | mg/Kg | ND | 4.8 | ND | ND | ND | ND | 2.9 |
| 75-09-2 | METHYLENE CHLORIDE | 0.05 | 500 | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 95-47-6 | O-XYLENE (1,2-DIMETHYLBENZENE) | 0.26 | 500 | mg/Kg | ND | **12** | ND | ND | ND | ND | **9.3** |
| 100-42-5 | STYRENE | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 1634-04-4 | TERT-BUTYL METHYL ETHER | 0.93 | 500 | mg/Kg | ND | ND | 0.033 | ND | ND | ND | ND |
| 127-18-4 | TETRACHLOROETHYLENE(PCE) | 1.3 | 150 | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 108-88-3 | TOLUENE | 0.7 | 500 | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 79-01-6 | TRICHLOROETHYLENE (TCE) | 0.47 | 200 | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 95-63-6 | 1,2,4-TRIMETHYLBENZENE | 3.6 | 190 | mg/kg | | | | | | | |
| 108-67-8 | 1,3,5-TRIMETHYLBENZENE (MESITYLENE) | 8.4 | 190 | mg/kg | | | | | | | |
| 103-65-1 | N-PROPYLBENZENE | 3.9 | 500 | mg/kg | | | | | | | |
| 135-98-8 | SEC-BUTYLBENZENE | 11 | 500 | mg/kg | | | | | | | |
| | **TOTAL VOCS** | **--** | **--** | **mg/Kg** | **0.005** | **92.3** | **0.033** | **ND** | **ND** | **ND** | **105.93** |

Exceeds NYSDEC Part 375 Unrestricted Soil Criteria
Exceeds NYSDEC Commercial Soil Criteria
(1) NYSDEC 6 NYCRR Part 375 Environmental Remediation Program (December 2006)
(2) -- indicates no clean up objective or background level is available
(3) NA indicates compound was not analyzed for
(4) ND indicates compound was not detected
(5) J indicates an estimated concentration; J+ indicated an estimated concentration biased high.
(6) R indicates rejected data
(7) Grey shaded values exceed NYSDEC Part 375 Unrestricted Soil Criteria
(8) Orange shaded values exceed NYSDEC Part 375 Commercial Soil Criteria

Table 3
Farrington Street Former MGP Site
Summary of Soil Analytical Data
Consolidated Edison Company of New York

| Consolidated Edison<br>Farrington Street Remedial Investigation<br>2009-2015 Soil Analytical Data<br>Detected Compounds Only | | | | Location ID: | MW-41 | SB-17 | SB-17 | SB-18 | SB-18 | Dup of SB-18(18-22) | SB-18 | SB-19 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Sample ID: | MW-41(28-30)-20150120 | SB-17(13-18) | SB-17(28-33) | SB-18(8-13) | SB-18(18-22) | SB-18(8-13)D | SB-18(8-13)D | SB-19(13-18) |
| | | | | Lab Sample Id | G1159-10 | A2876-01 | A2876-04 | A2915-01 | A2915-03 | A2915-02 | A2915-02 | A2876-05 |
| | | | | Depth: | 28 - 30 ft | 13 - 18 ft | 28 - 33 ft | 8 - 13 ft | 18 - 22 ft | 8 - 13 ft | 8 - 13 ft | 13 - 18 ft |
| | | | | Source: | CTECH | Chemtech | Chemtech | Chemtech | Chemtech | Chemtech | Chemtech | Chemtech |
| | | NYSDEC Part 375 Unrestricted Soil Criteria | NYSDEC Part 375 Commercial Soil Criteria | SDG: | G1159 | A2876 | A2876 | A2915 | A2915 | A2915 | A2915 | A2876 |
| | | | | Matrix: | SOIL | SOIL | SOIL | SOIL | SOIL | SOIL | SOIL | SOIL |
| | | | | Sampled: | 1/20/2015 11:00 | 5/21/2009 0:00 | 5/21/2009 0:00 | 5/26/2009 0:00 | 5/26/2009 0:00 | 5/26/2009 0:00 | 5/26/2009 0:00 | 5/21/2009 0:00 |
| | | | | Validated: | 2/25/2015 | 6/24/2009 | 6/24/2009 | 6/25/2009 | 6/25/2009 | 6/25/2009 | 6/25/2009 | 6/24/2009 |
| CAS NO. | COMPOUND | | | UNITS: | | | | | | | | |
| | SEMIVOLATILES | | | | | | | | | | | |
| 95-94-3 | 1,2,4,5-TETRACHLOROBENZENE | -- | -- | mg/Kg | | | | | | | | |
| 58-90-2 | 2,3,4,6-TETRACHLOROPHENOL | -- | -- | mg/kg | | | | | | | | |
| 88-06-2 | 2,4,6-TRICHLOROPHENOL | -- | -- | mg/kg | ND | ND | ND | ND | ND | ND | ND | ND |
| 105-67-9 | 2,4-DIMETHYLPHENOL | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | ND | ND |
| 91-57-6 | 2-METHYLNAPHTHALENE | -- | -- | mg/Kg | ND | 280 | 1.1 | ND | ND | ND | ND | 150 |
| 95-48-7 | 2-METHYLPHENOL (O-CRESOL) | 0.33 | 500 | mg/Kg | ND | ND | ND | ND | ND | ND | ND | ND |
| MEPH3MEPH | 3- AND 4- METHYLPHENOL (TOTAL) | 0.33 | 500 | mg/Kg | ND | ND | ND | ND | ND | ND | ND | ND |
| 83-32-9 | ACENAPHTHENE | 20 | 500 | mg/Kg | ND | **44** | 0.19 J | ND | ND | ND | ND | **96** |
| 208-96-8 | ACENAPHTHYLENE | 100 | 500 | mg/Kg | ND | 7.9 | ND | ND | ND | ND | ND | ND |
| 98-86-2 | ACETOPHENONE | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | ND | ND |
| 120-12-7 | ANTHRACENE | 100 | 500 | mg/Kg | ND | 21 J | 0.092 J | ND | ND | ND | ND | 42 J |
| 100-52-7 | BENZALDEHYDE | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | ND | ND |
| 56-55-3 | BENZO(A)ANTHRACENE | 1 | 5.6 | mg/Kg | ND | **12** J | 0.061 J | ND | ND | ND | ND | **34** |
| 50-32-8 | BENZO(A)PYRENE | 1 | 1 | mg/Kg | ND | **8.3** J | ND | ND | ND | ND | ND | **24** |
| 205-99-2 | BENZO(B)FLUORANTHENE | 1 | 5.6 | mg/Kg | ND | **7.6** J | ND | ND | ND | ND | ND | **21** |
| 191-24-2 | BENZO(G,H,I)PERYLENE | 100 | 500 | mg/Kg | ND | 3.7 J | ND | 0.04 J | ND | ND | ND | 9.2 |
| 207-08-9 | BENZO(K)FLUORANTHENE | 0.8 | 56 | mg/Kg | ND | **1.9** J | ND | ND | ND | ND | ND | **6.1** J |
| 85-68-7 | BENZYL BUTYL PHTHALATE | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | ND | ND |
| 92-52-4 | BIPHENYL (DIPHENYL) | -- | -- | mg/Kg | ND | 16 | 0.069 J | ND | ND | ND | ND | 14 |
| 117-81-7 | BIS(2-ETHYLHEXYL) PHTHALATE | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | ND | ND |
| 105-60-2 | CAPROLACTAM | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | ND | ND |
| 86-74-8 | CARBAZOLE | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | ND | 1.6 J |
| 218-01-9 | CHRYSENE | 1 | 56 | mg/Kg | ND | **11** J | 0.056 J | ND | ND | ND | ND | **34** |
| 53-70-3 | DIBENZ(A,H)ANTHRACENE | 0.33 | 0.56 | mg/Kg | ND | **0.97** J | ND | ND | ND | ND | ND | **2.2** J |
| 132-64-9 | DIBENZOFURAN | 7 | 350 | mg/Kg | ND | 3.3 J | ND | ND | ND | ND | ND | 5 J |
| 84-66-2 | DIETHYL PHTHALATE | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | ND | ND |
| 131-11-3 | DIMETHYL PHTHALATE | -- | -- | mg/Kg | 0.15 J | ND | ND | ND | ND | ND | ND | ND |
| 84-74-2 | DI-N-BUTYL PHTHALATE | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | ND | ND |
| 117-84-0 | DI-N-OCTYLPHTHALATE | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | ND | ND |
| 206-44-0 | FLUORANTHENE | 100 | 500 | mg/Kg | ND | 21 J | 0.1 J | ND | ND | ND | ND | 57 J |
| 86-73-7 | FLUORENE | 30 | 500 | mg/Kg | ND | 25 | 0.11 J | ND | ND | ND | ND | **42** |
| 193-39-5 | INDENO(1,2,3-C,D)PYRENE | 0.5 | 5.6 | mg/Kg | ND | **2.7** J | ND | ND | ND | ND | ND | **7.1** J |
| 86-30-6 | N-NITROSODIPHENYLAMINE | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | ND | ND |
| 91-20-3 | NAPHTHALENE | 12 | 500 | mg/Kg | ND | **430** | 1.4 | ND | ND | ND | ND | **290** |
| 87-86-5 | PENTACHLOROPHENOL | 0.8 | 6.7 | mg/Kg | ND | ND | ND | ND | ND | ND | ND | ND |
| 85-01-8 | PHENANTHRENE | 100 | 500 | mg/Kg | ND | 67 | 0.35 J | ND | ND | ND | ND | **130** |
| 108-95-2 | PHENOL | 0.33 | 500 | mg/Kg | 0.19 J | ND | ND | ND | ND | ND | ND | ND |
| 129-00-0 | PYRENE | 100 | 500 | mg/Kg | ND | 30 J | 0.15 J | ND | ND | ND | ND | 70 |
| | **TOTAL SVOCS** | -- | -- | **mg/kg** | **0.34** | **993.37** | **3.678** | **0.04** | **ND** | **ND** | **ND** | **1035.2** |

Exceeds NYSDEC Part 375 Unrestricted Soil Criteria
Exceeds NYSDEC Commercial Soil Criteria
(1) NYSDEC 6 NYCRR Part 375 Environmental Remediation Program (December 2006)
(2) -- indicates no clean up objective or background level is available
(3) NA indicates compound was not analyzed for
(4) ND indicates compound was not detected
(5) J indicates an estimated concentration
(6) R indicates rejected data
(7) Grey shaded values exceed NYSDEC Part 375 Unrestricted Soil Criteria
(8) Orange shaded values exceed NYSDEC Part 375 Commercial Soil Criteria

Table 3
Farrington Street Former MGP Site
Summary of Soil Analytical Data
Consolidated Edison Company of New York

| Consolidated Edison<br>Farrington Street Remedial Investigation<br>2009-2015 Soil Analytical Data<br>Detected Compounds Only | | | | Location ID: | MW-41 | SB-17 | SB-17 | SB-18 | SB-18 | Dup of SB-18(18-22) SB-18 | SB-19 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Sample ID: | MW-41(28-30)-20150120 | SB-17(13-18) | SB-17(28-33) | SB-18(8-13) | SB-18(18-22) | SB-18(8-13)D | SB-19(13-18) |
| | | | | Lab Sample Id | G1159-10 | A2876-01 | A2876-04 | A2915-01 | A2915-03 | A2915-02 | A2876-05 |
| | | | | Depth: | 28 - 30 ft | 13 - 18 ft | 28 - 33 ft | 8 - 13 ft | 18 - 22 ft | 8 - 13 ft | 13 - 18 ft |
| | | | | Source: | CTECH | Chemtech | Chemtech | Chemtech | Chemtech | Chemtech | Chemtech |
| | | NYSDEC Part 375 Unrestricted Soil Criteria | NYSDEC Part 375 Commercial Soil Criteria | SDG: | G1159 | A2876 | A2876 | A2915 | A2915 | A2915 | A2876 |
| | | | | Matrix: | SOIL | SOIL | SOIL | SOIL | SOIL | SOIL | SOIL |
| | | | | Sampled: | 1/20/2015 11:00 | 5/21/2009 0:00 | 5/21/2009 0:00 | 5/26/2009 0:00 | 5/26/2009 0:00 | 5/26/2009 0:00 | 5/21/2009 0:00 |
| | | | | Validated: | 2/25/2015 | 6/24/2009 | 6/24/2009 | 6/25/2009 | 6/25/2009 | 6/25/2009 | 6/24/2009 |
| CAS NO. | COMPOUND | | | UNITS: | | | | | | | |
| | INORGANICS | | | | | | | | | | |
| 7429-90-5 | ALUMINUM | -- | -- | mg/Kg | 13900 | 5750 | 2330 | 4510 | 6740 | 4800 | 3350 |
| 7440-36-0 | ANTIMONY | -- | -- | mg/Kg | ND | 0.61 J | ND | ND | ND | ND | ND |
| 7440-38-2 | ARSENIC | 13 | 16 | mg/Kg | 9.63 | 0.67 J | ND | 0.56 J | 0.7 J | 0.7 J | ND |
| 7440-39-3 | BARIUM | 350 | 400 | mg/Kg | 31.7 | 69.9 | 32.7 | 40.3 | 83.9 | 38.5 | 36.1 |
| 7440-41-7 | BERYLLIUM | 7.2 | 590 | mg/Kg | 1.03 | 0.23 J | 0.08 J | 0.26 | 0.24 J | 0.28 | 0.15 J |
| 7440-43-9 | CADMIUM | 2.5 | 9.3 | mg/Kg | ND | 0.41 | ND | 0.41 | 0.42 | 0.36 | 0.05 J |
| 7440-70-2 | CALCIUM | -- | -- | mg/Kg | 2510 | 1530 J | 661 J | 877 | 918 | 686 | 4800 J |
| 7440-47-3 | CHROMIUM, TOTAL | 30 | 1500 | mg/Kg | 36 | 18.4 | 7.98 | 13.1 | 22.2 | 13.7 | 11.2 |
| 7440-48-4 | COBALT | -- | -- | mg/Kg | 12.8 | 7.51 | 3.96 | 4.22 | 9.33 | 4.98 | 4.61 |
| 7440-50-8 | COPPER | 50 | 270 | mg/Kg | 10.1 J+ | 14.5 | 12.3 | 17.1 | 14.3 | 15.9 | 15 |
| 7439-89-6 | IRON | -- | -- | mg/Kg | 36400 | 17900 J | 9290 J | 13200 J | 15600 J | 14700 J | 13700 J |
| 7439-92-1 | LEAD | 63 | 1000 | mg/Kg | 20.4 | 5.33 J | 1.14 J | 6.38 | 4.78 | 4.19 | 6.88 J |
| 7439-95-4 | MAGNESIUM | -- | -- | mg/Kg | 7710 | 2770 | 1010 | 1570 | 3440 | 1610 | 3270 |
| 7439-96-5 | MANGANESE | 1600 | 10000 | mg/Kg | 560 J+ | 196 J | 79.3 J | 116 | 366 | 119 | 204 J |
| 7439-97-6 | MERCURY | 0.18 | 2.8 | mg/Kg | 0.02 | 0.008 J | ND | 0.023 J | ND | 0.008 J | 0.003 J |
| 7440-02-0 | NICKEL | 30 | 310 | mg/Kg | 29.1 | 17.2 | 9.41 | 10.5 | 27.7 | 11 | 10.8 |
| 7440-09-7 | POTASSIUM | -- | -- | mg/Kg | 3660 | 2800 | 866 | 1640 | 3480 | 1600 | 1120 |
| 7782-49-2 | SELENIUM | 3.9 | 1500 | mg/Kg | 0.802 J | 0.73 J | 0.94 | ND | ND | ND | 0.79 |
| 7440-22-4 | SILVER | 2 | 1500 | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 7440-23-5 | SODIUM | -- | -- | mg/Kg | 5600 | 137 | 93.3 | 56.9 J | 191 | 54.3 J | 61.8 J |
| 7440-28-0 | THALLIUM | -- | -- | mg/Kg | ND | ND | ND | 0.26 J | 0.46 J | 0.62 J | ND |
| 7440-62-2 | VANADIUM | -- | -- | mg/Kg | 38.8 | 24.2 | 8.95 | 18.6 | 23.5 | 19.5 | 15.7 |
| 7440-66-6 | ZINC | 109 | 10000 | mg/Kg | 84.9 | 59.9 | 11.6 | 35 | 36.1 | 42.5 | 18 |
| 57-12-5 | CYANIDE | 27 | 27 | mg/Kg | ND | ND | ND | ND | ND | ND | ND |

Exceeds NYSDEC Part 375 Unrestricted Soil Criteria
Exceeds NYSDEC Commercial Soil Criteria

(1) NYSDEC 6 NYCRR Part 375 Environmental Remediation Program (December 2006)
(2) -- indicates no clean up objective or background level is available
(3) NA indicates compound was not analyzed for
(4) ND indicates compound was not detected
(5) J indicates an estimated concentration
(6) R indicates rejected data
(7) Grey shaded values exceed NYSDEC Part 375 Unrestricted Soil Criteria
(8) Orange shaded values exceed NYSDEC Part 375 Commercial Soil Criteria

Table 3
Farrington Street Former MGP Site
Summary of Soil Analytical Data
Consolidated Edison Company of New York

| Consolidated Edison<br>Farrington Street Remedial Investigation<br>2009-2015 Soil Analytical Data<br>Detected Compounds Only | | | | Location ID: | SB-19 | SB-21 | SB-21 | SB-21<br>Dup of SB-21(28-33) | SB-22 | SB-22 | SB-23 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Sample ID: | SB-19(28-33) | SB-21(13-18) | SB-21(28-33) | SB-21(28-33)DUP | SB-22(16-18) | SB-22(26-28) | SB-23(13-18) |
| | | | | Lab Sample Id | A2876-06 | A2876-10 | A2876-13 | A2876-14 | A2785-01 | A2785-02 | A2915-05 |
| | | | | Depth: | 28 - 33 ft | 13 - 18 ft | 28 - 33 ft | 28 - 33 ft | 16 - 18 ft | 26 - 28 ft | 13 - 18 ft |
| | | | | Source: | Chemtech | Chemtech | Chemtech | Chemtech | Chemtech | Chemtech | Chemtech |
| | | NYSDEC Part 375 Unrestricted Soil Criteria | NYSDEC Part 375 Commercial Soil Criteria | SDG: | A2876 | A2876 | A2876 | A2876 | A2785 | A2785 | A2915 |
| | | | | Matrix: | SOIL | SOIL | SOIL | SOIL | SOIL | SOIL | SOIL |
| | | | | Sampled: | 5/21/2009 0:00 | 5/22/2009 0:00 | 5/22/2009 0:00 | 5/22/2009 0:00 | 5/15/2009 0:00 | 5/15/2009 0:00 | 5/26/2009 0:00 |
| | | | | Validated: | 6/24/2009 | 6/24/2009 | 6/24/2009 | 6/24/2009 | 6/5/2009 | 6/5/2009 | 6/25/2009 |
| CAS NO. | COMPOUND | | | UNITS: | | | | | | | |
| | VOLATILES | | | | | | | | | | |
| 79-34-5 | 1,1,2,2-TETRACHLOROETHANE | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 120-82-1 | 1,2,4-TRICHLOROBENZENE | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 95-50-1 | 1,2-DICHLOROBENZENE | 1.1 | 500 | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 541-73-1 | 1,3-DICHLOROBENZENE | 2.4 | 280 | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 106-46-7 | 1,4-DICHLOROBENZENE | 1.8 | 130 | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 591-78-6 | 2-HEXANONE | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 67-64-1 | ACETONE | 0.05 | 500 | mg/Kg | ND | ND | ND | ND | R | R | ND |
| 71-43-2 | BENZENE | 0.06 | 44 | mg/Kg | 0.0083 J | ND | ND | ND | **33** | ND | 0.028 J |
| 75-15-0 | CARBON DISULFIDE | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 108-90-7 | CHLOROBENZENE | 1.1 | 500 | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 67-66-3 | CHLOROFORM | 0.37 | 350 | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 156-59-2 | CIS-1,2-DICHLOROETHYLENE | 0.25 | 500 | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 110-82-7 | CYCLOHEXANE | -- | -- | mg/Kg | ND | ND | ND | ND | 1.2 J | ND | ND |
| 100-41-4 | ETHYLBENZENE | 1 | 390 | mg/Kg | ND | ND | ND | ND | **160** | ND | 0.19 |
| 98-82-8 | ISOPROPYLBENZENE (CUMENE) | -- | -- | mg/Kg | ND | ND | ND | ND | 15 | ND | 0.012 J |
| XYLMP | M,P-XYLENE (SUM OF ISOMERS) | 0.26 | 500 | mg/Kg | ND | ND | ND | ND | **6.7** | ND | ND |
| 79-20-9 | METHYL ACETATE | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 78-93-3 | METHYL ETHYL KETONE (2-BUTANONE) | 0.12 | 500 | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 108-10-1 | METHYL ISOBUTYL KETONE | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 108-87-2 | METHYLCYCLOHEXANE | -- | -- | mg/Kg | ND | ND | ND | ND | 3.7 | ND | ND |
| 75-09-2 | METHYLENE CHLORIDE | 0.05 | 500 | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 95-47-6 | O-XYLENE (1,2-DIMETHYLBENZENE) | 0.26 | 500 | mg/Kg | ND | ND | ND | ND | **41** | ND | 0.065 |
| 100-42-5 | STYRENE | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 1634-04-4 | TERT-BUTYL METHYL ETHER | 0.93 | 500 | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 127-18-4 | TETRACHLOROETHYLENE(PCE) | 1.3 | 150 | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 108-88-3 | TOLUENE | 0.7 | 500 | mg/Kg | ND | ND | ND | ND | 0.34 J | ND | ND |
| 79-01-6 | TRICHLOROETHYLENE (TCE) | 0.47 | 200 | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 95-63-6 | 1,2,4-TRIMETHYLBENZENE | 3.6 | 190 | mg/kg | | | | | | | |
| 108-67-8 | 1,3,5-TRIMETHYLBENZENE (MESITYLENE) | 8.4 | 190 | mg/kg | | | | | | | |
| 103-65-1 | N-PROPYLBENZENE | 3.9 | 500 | mg/kg | | | | | | | |
| 135-98-8 | SEC-BUTYLBENZENE | 11 | 500 | mg/kg | | | | | | | |
| | **TOTAL VOCS** | **--** | **--** | **mg/Kg** | **0.0083** | **ND** | **ND** | **ND** | **260.94** | **ND** | **0.295** |

Exceeds NYSDEC Part 375 Unrestricted Soil Criteria
Exceeds NYSDEC Commercial Soil Criteria
(1) NYSDEC 6 NYCRR Part 375 Environmental Remediation Program (December 2006)
(2) -- indicates no clean up objective or background level is available
(3) NA indicates compound was not analyzed for
(4) ND indicates compound was not detected
(5) J indicates an estimated concentration; J+ indicated an estimated concentration biased high.
(6) R indicates rejected data
(7) Grey shaded values exceed NYSDEC Part 375 Unrestricted Soil Criteria
(8) Orange shaded values exceed NYSDEC Part 375 Commercial Soil Criteria

Table 3
Farrington Street Former MGP Site
Summary of Soil Analytical Data
Consolidated Edison Company of New York

| Consolidated Edison<br>Farrington Street Remedial Investigation<br>2009-2015 Soil Analytical Data<br>Detected Compounds Only | | | | Location ID: | SB-19 | SB-21 | SB-21 | SB-21<br>Dup of SB-21(28-33) | SB-22 | SB-22 | SB-23 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Sample ID: | SB-19(28-33) | SB-21(13-18) | SB-21(28-33) | SB-21(28-33)DUP | SB-22(16-18) | SB-22(26-28) | SB-23(13-18) |
| | | | | Lab Sample Id | A2876-06 | A2876-10 | A2876-13 | A2876-14 | A2785-01 | A2785-02 | A2915-05 |
| | | | | Depth: | 28 - 33 ft | 13 - 18 ft | 28 - 33 ft | 28 - 33 ft | 16 - 18 ft | 26 - 28 ft | 13 - 18 ft |
| | | | | Source: | Chemtech | Chemtech | Chemtech | Chemtech | Chemtech | Chemtech | Chemtech |
| | | NYSDEC Part 375 Unrestricted Soil Criteria | NYSDEC Part 375 Commercial Soil Criteria | SDG: | A2876 | A2876 | A2876 | A2876 | A2785 | A2785 | A2915 |
| | | | | Matrix: | SOIL | SOIL | SOIL | SOIL | SOIL | SOIL | SOIL |
| | | | | Sampled: | 5/21/2009 0:00 | 5/22/2009 0:00 | 5/22/2009 0:00 | 5/22/2009 0:00 | 5/15/2009 0:00 | 5/15/2009 0:00 | 5/26/2009 0:00 |
| | | | | Validated: | 6/24/2009 | 6/24/2009 | 6/24/2009 | 6/24/2009 | 6/5/2009 | 6/5/2009 | 6/25/2009 |
| CAS NO. | COMPOUND | | | UNITS: | | | | | | | |
| | SEMIVOLATILES | | | | | | | | | | |
| 95-94-3 | 1,2,4,5-TETRACHLOROBENZENE | -- | -- | mg/Kg | | | | | | | |
| 58-90-2 | 2,3,4,6-TETRACHLOROPHENOL | -- | -- | mg/kg | | | | | | | |
| 88-06-2 | 2,4,6-TRICHLOROPHENOL | -- | -- | mg/kg | ND | ND | ND | ND | ND | ND | ND |
| 105-67-9 | 2,4-DIMETHYLPHENOL | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 91-57-6 | 2-METHYLNAPHTHALENE | -- | -- | mg/Kg | 0.19 J | 0.22 J | 0.088 J | 0.94 J | 290 | ND | 90 |
| 95-48-7 | 2-METHYLPHENOL (O-CRESOL) | 0.33 | 500 | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| MEPH3MEPH | 3- AND 4- METHYLPHENOL (TOTAL) | 0.33 | 500 | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 83-32-9 | ACENAPHTHENE | 20 | 500 | mg/Kg | 0.13 J | 0.13 J | 0.075 J | 0.57 J | **100** | 0.12 J | **40** |
| 208-96-8 | ACENAPHTHYLENE | 100 | 500 | mg/Kg | ND | ND | ND | 0.065 J | 7.5 J | ND | 4.5 |
| 98-86-2 | ACETOPHENONE | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 120-12-7 | ANTHRACENE | 100 | 500 | mg/Kg | 0.075 J | 0.065 J | ND | 0.27 J | 36 | 0.045 J | 19 |
| 100-52-7 | BENZALDEHYDE | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 56-55-3 | BENZO(A)ANTHRACENE | 1 | 5.6 | mg/Kg | 0.086 J | 0.067 J | ND | 0.19 J | **20** | ND | **12** |
| 50-32-8 | BENZO(A)PYRENE | 1 | 1 | mg/Kg | 0.056 J | ND | ND | 0.12 J | **12** | ND | **8.1** |
| 205-99-2 | BENZO(B)FLUORANTHENE | 1 | 5.6 | mg/Kg | 0.05 J | ND | ND | 0.1 J | **11** | ND | **6.8** |
| 191-24-2 | BENZO(G,H,I)PERYLENE | 100 | 500 | mg/Kg | ND | ND | ND | 0.043 J | 3.9 J | ND | 4.3 |
| 207-08-9 | BENZO(K)FLUORANTHENE | 0.8 | 56 | mg/Kg | ND | ND | ND | ND | **4.1** J | ND | **2.2** J |
| 85-68-7 | BENZYL BUTYL PHTHALATE | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 92-52-4 | BIPHENYL (DIPHENYL) | -- | -- | mg/Kg | ND | ND | ND | 0.1 J | 24 | ND | 8.8 |
| 117-81-7 | BIS(2-ETHYLHEXYL) PHTHALATE | -- | -- | mg/Kg | ND | ND | ND | ND | ND | 0.04 J | ND |
| 105-60-2 | CAPROLACTAM | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 86-74-8 | CARBAZOLE | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | 0.86 J |
| 218-01-9 | CHRYSENE | 1 | 56 | mg/Kg | 0.083 J | 0.073 J | ND | 0.18 J | **18** | ND | **11** |
| 53-70-3 | DIBENZ(A,H)ANTHRACENE | 0.33 | 0.56 | mg/Kg | ND | ND | ND | ND | **1.1** J | ND | **1** J |
| 132-64-9 | DIBENZOFURAN | 7 | 350 | mg/Kg | ND | ND | ND | 0.045 J | 6.1 J | ND | 2.9 J |
| 84-66-2 | DIETHYL PHTHALATE | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 131-11-3 | DIMETHYL PHTHALATE | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 84-74-2 | DI-N-BUTYL PHTHALATE | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 117-84-0 | DI-N-OCTYLPHTHALATE | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 206-44-0 | FLUORANTHENE | 100 | 500 | mg/Kg | 0.13 J | 0.12 J | 0.051 J | 0.35 J | 29 | 0.054 J | 22 |
| 86-73-7 | FLUORENE | 30 | 500 | mg/Kg | 0.07 J | 0.071 J | ND | 0.31 J | **37** | 0.046 J | 22 |
| 193-39-5 | INDENO(1,2,3-C,D)PYRENE | 0.5 | 5.6 | mg/Kg | ND | ND | ND | ND | **3** J | ND | **3.3** J |
| 86-30-6 | N-NITROSODIPHENYLAMINE | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 91-20-3 | NAPHTHALENE | 12 | 500 | mg/Kg | 0.28 J | 0.67 | 0.12 J | 1.8 J | **610** | ND | **220** |
| 87-86-5 | PENTACHLOROPHENOL | 0.8 | 6.7 | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 85-01-8 | PHENANTHRENE | 100 | 500 | mg/Kg | 0.28 J | 0.22 J | 0.14 J | 1 J | **120** | 0.17 J | 61 |
| 108-95-2 | PHENOL | 0.33 | 500 | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 129-00-0 | PYRENE | 100 | 500 | mg/Kg | 0.17 J | 0.16 J | 0.069 J | 0.45 J | 56 | 0.079 J | 32 |
| | **TOTAL SVOCS** | -- | -- | **mg/kg** | **1.6** | **1.796** | **0.543** | **6.533** | **1388.7** | **0.554** | **571.76** |

Exceeds NYSDEC Part 375 Unrestricted Soil Criteria
Exceeds NYSDEC Commercial Soil Criteria
(1) NYSDEC 6 NYCRR Part 375 Environmental Remediation Program (December 2006)
(2) -- indicates no clean up objective or background level is available
(3) NA indicates compound was not analyzed for
(4) ND indicates compound was not detected
(5) J indicates an estimated concentration
(6) R indicates rejected data
(7) Grey shaded values exceed NYSDEC Part 375 Unrestricted Soil Criteria
(8) Orange shaded values exceed NYSDEC Part 375 Commercial Soil Criteria

Table 3
Farrington Street Former MGP Site
Summary of Soil Analytical Data
Consolidated Edison Company of New York

| Consolidated Edison<br>Farrington Street Remedial Investigation<br>2009-2015 Soil Analytical Data<br>Detected Compounds Only | | | | Location ID: | SB-19 | SB-21 | SB-21 | SB-21<br>Dup of<br>SB-21(28-33) | SB-22 | SB-22 | SB-23 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Sample ID: | SB-19(28-33) | SB-21(13-18) | SB-21(28-33) | SB-21(28-33)DUP | SB-22(16-18) | SB-22(26-28) | SB-23(13-18) |
| | | | | Lab Sample Id | A2876-06 | A2876-10 | A2876-13 | A2876-14 | A2785-01 | A2785-02 | A2915-05 |
| | | | | Depth: | 28 - 33 ft | 13 - 18 ft | 28 - 33 ft | 28 - 33 ft | 16 - 18 ft | 26 - 28 ft | 13 - 18 ft |
| | | | | Source: | Chemtech | Chemtech | Chemtech | Chemtech | Chemtech | Chemtech | Chemtech |
| | | NYSDEC Part 375 Unrestricted Soil Criteria | NYSDEC Part 375 Commercial Soil Criteria | SDG: | A2876 | A2876 | A2876 | A2876 | A2785 | A2785 | A2915 |
| | | | | Matrix: | SOIL | SOIL | SOIL | SOIL | SOIL | SOIL | SOIL |
| | | | | Sampled: | 5/21/2009 0:00 | 5/22/2009 0:00 | 5/22/2009 0:00 | 5/22/2009 0:00 | 5/15/2009 0:00 | 5/15/2009 0:00 | 5/26/2009 0:00 |
| | | | | Validated: | 6/24/2009 | 6/24/2009 | 6/24/2009 | 6/24/2009 | 6/5/2009 | 6/5/2009 | 6/25/2009 |
| CAS NO. | COMPOUND | | | UNITS: | | | | | | | |
| | INORGANICS | | | | | | | | | | |
| 7429-90-5 | ALUMINUM | -- | -- | mg/Kg | 6060 | 9910 | 2480 | 1960 | 2860 | 2320 | 5750 |
| 7440-36-0 | ANTIMONY | -- | -- | mg/Kg | 0.46 J | 0.55 J | ND | ND | ND | ND | ND |
| 7440-38-2 | ARSENIC | 13 | 16 | mg/Kg | 1.12 | ND | ND | ND | ND | 0.46 J | 0.44 J |
| 7440-39-3 | BARIUM | 350 | 400 | mg/Kg | 71 | 123 | 29.5 | 21.3 | 24.2 | 29.4 | 59.6 |
| 7440-41-7 | BERYLLIUM | 7.2 | 590 | mg/Kg | 0.59 | 0.34 | 0.13 J | 0.13 J | 0.12 J | 0.14 J | 0.24 J |
| 7440-43-9 | CADMIUM | 2.5 | 9.3 | mg/Kg | 0.28 | 0.42 | ND | ND | 0.06 J | 0.05 J | 0.34 |
| 7440-70-2 | CALCIUM | -- | -- | mg/Kg | 2190 J | ND | ND | ND | 1370 | 501 | 1140 |
| 7440-47-3 | CHROMIUM, TOTAL | 30 | 1500 | mg/Kg | 22.4 | 28.6 | 10.8 | 9.35 | 11.1 | 10.1 | 20.1 |
| 7440-48-4 | COBALT | -- | -- | mg/Kg | 11 | 10 | 3.2 | 2.82 | 4.34 | 3.31 | 6.64 |
| 7440-50-8 | COPPER | 50 | 270 | mg/Kg | 23.2 | 19.9 | 10.6 | 12 | 8.92 | 9.89 | 12.7 |
| 7439-89-6 | IRON | -- | -- | mg/Kg | 23200 J | 23300 J | 12400 J | 12000 J | 9200 | 14500 | 13300 J |
| 7439-92-1 | LEAD | 63 | 1000 | mg/Kg | 9.57 J | 16.9 J | 2.01 J | 1.84 J | 6.74 | 1.61 | 3.91 |
| 7439-95-4 | MAGNESIUM | -- | -- | mg/Kg | 4030 | 4490 | 1150 | 842 | 1570 | 1220 | 2640 |
| 7439-96-5 | MANGANESE | 1600 | 10000 | mg/Kg | 343 J | 276 J | 78.1 J | 63.7 J | 91.8 | 97.7 | 271 |
| 7439-97-6 | MERCURY | 0.18 | 2.8 | mg/Kg | 0.007 J | 0.005 J | ND | ND | ND | ND | ND |
| 7440-02-0 | NICKEL | 30 | 310 | mg/Kg | 24.6 | 27 | 9.83 | 8.33 | 17 | 8.36 | 23.5 |
| 7440-09-7 | POTASSIUM | -- | -- | mg/Kg | 2300 | 4870 | 1150 | 804 | 709 | 1060 | 2500 |
| 7782-49-2 | SELENIUM | 3.9 | 1500 | mg/Kg | 0.69 J | 0.67 J | 0.73 J | 0.64 J | 0.88 | 0.88 | ND |
| 7440-22-4 | SILVER | 2 | 1500 | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 7440-23-5 | SODIUM | -- | -- | mg/Kg | 137 | ND | ND | ND | ND | ND | 119 |
| 7440-28-0 | THALLIUM | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 7440-62-2 | VANADIUM | -- | -- | mg/Kg | 28.4 | 35.7 | 14.4 | 13.3 | 10.9 | 13.9 | 23.5 |
| 7440-66-6 | ZINC | 109 | 10000 | mg/Kg | 52.1 | 57.6 | 15.8 | 13.5 | 20.5 | 16 | 27.3 |
| 57-12-5 | CYANIDE | 27 | 27 | mg/Kg | ND | ND | ND | ND | ND | ND | ND |

Exceeds NYSDEC Part 375 Unrestricted Soil Criteria
Exceeds NYSDEC Commercial Soil Criteria

(1) NYSDEC 6 NYCRR Part 375 Environmental Remediation Program (December 2006)
(2) -- indicates no clean up objective or background level is available
(3) NA indicates compound was not analyzed for
(4) ND indicates compound was not detected
(5) J indicates an estimated concentration
(6) R indicates rejected data
(7) Grey shaded values exceed NYSDEC Part 375 Unrestricted Soil Criteria
(8) Orange shaded values exceed NYSDEC Part 375 Commercial Soil Criteria

Table 3
Farrington Street Former MGP Site
Summary of Soil Analytical Data
Consolidated Edison Company of New York

| Consolidated Edison<br>Farrington Street Remedial Investigation<br>2009-2015 Soil Analytical Data<br>Detected Compounds Only | | | | Location ID: | SB-23 | SB-24 | SB-24 | SB-25 | SB-25 | SB-25 | SB-26 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Sample ID: | SB-23(28-33) | SB-24(10-12) | SB-24(12-14) | SB-25(13-18) | SB-25(28-33) | SB-25(33-38) | SB-26(14-16) |
| | | | | Lab Sample Id | A2915-08 | A3062-01 | A3062-02 | A2876-07 | A2876-08 | A2876-09 | A3062-03 |
| | | | | Depth: | 28 - 33 ft | 10 - 12 ft | 12 - 14 ft | 13 - 18 ft | 28 - 33 ft | 33 - 38 ft | 14 - 16 ft |
| | | | | Source: | Chemtech | Chemtech | Chemtech | Chemtech | Chemtech | Chemtech | Chemtech |
| | | NYSDEC Part 375 Unrestricted Soil Criteria | NYSDEC Part 375 Commercial Soil Criteria | SDG: | A2915 | A3062 | A3062 | A2876 | A2876 | A2876 | A3062 |
| | | | | Matrix: | SOIL | SOIL | SOIL | SOIL | SOIL | SOIL | SOIL |
| | | | | Sampled: | 5/26/2009 0:00 | 6/5/2009 0:00 | 6/5/2009 0:00 | 5/22/2009 0:00 | 5/22/2009 0:00 | 5/22/2009 0:00 | 6/5/2009 0:00 |
| | | | | Validated: | 6/25/2009 | 6/29/2009 | 6/29/2009 | 6/24/2009 | 6/24/2009 | 6/24/2009 | 6/29/2009 |
| CAS NO. | COMPOUND | | | UNITS: | | | | | | | |
| | VOLATILES | | | | | | | | | | |
| 79-34-5 | 1,1,2,2-TETRACHLOROETHANE | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 120-82-1 | 1,2,4-TRICHLOROBENZENE | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 95-50-1 | 1,2-DICHLOROBENZENE | 1.1 | 500 | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 541-73-1 | 1,3-DICHLOROBENZENE | 2.4 | 280 | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 106-46-7 | 1,4-DICHLOROBENZENE | 1.8 | 130 | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 591-78-6 | 2-HEXANONE | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 67-64-1 | ACETONE | 0.05 | 500 | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 71-43-2 | BENZENE | 0.06 | 44 | mg/Kg | ND | ND | ND | **0.4** J | **40** | ND | **6.9** |
| 75-15-0 | CARBON DISULFIDE | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 108-90-7 | CHLOROBENZENE | 1.1 | 500 | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 67-66-3 | CHLOROFORM | 0.37 | 350 | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 156-59-2 | CIS-1,2-DICHLOROETHYLENE | 0.25 | 500 | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 110-82-7 | CYCLOHEXANE | -- | -- | mg/Kg | ND | ND | ND | 0.28 J | ND | ND | ND |
| 100-41-4 | ETHYLBENZENE | 1 | 390 | mg/Kg | ND | ND | 0.044 | **65** | **760** | ND | **48** |
| 98-82-8 | ISOPROPYLBENZENE (CUMENE) | -- | -- | mg/Kg | ND | ND | 0.02 J | 13 | 80 | ND | 6.3 |
| XYLMP | M,P-XYLENE (SUM OF ISOMERS) | 0.26 | 500 | mg/Kg | ND | ND | 0.014 J | **1.1** J | **230** | ND | **1.8** |
| 79-20-9 | METHYL ACETATE | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 78-93-3 | METHYL ETHYL KETONE (2-BUTANONE) | 0.12 | 500 | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 108-10-1 | METHYL ISOBUTYL KETONE | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 108-87-2 | METHYLCYCLOHEXANE | -- | -- | mg/Kg | ND | ND | 0.0091 J | 1.6 | 0.99 J | ND | 0.59 J |
| 75-09-2 | METHYLENE CHLORIDE | 0.05 | 500 | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 95-47-6 | O-XYLENE (1,2-DIMETHYLBENZENE) | 0.26 | 500 | mg/Kg | ND | ND | 0.024 J | **4.9** | **260** | ND | **16** |
| 100-42-5 | STYRENE | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 1634-04-4 | TERT-BUTYL METHYL ETHER | 0.93 | 500 | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 127-18-4 | TETRACHLOROETHYLENE(PCE) | 1.3 | 150 | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 108-88-3 | TOLUENE | 0.7 | 500 | mg/Kg | ND | ND | ND | ND | **4.7** | ND | 0.18 J |
| 79-01-6 | TRICHLOROETHYLENE (TCE) | 0.47 | 200 | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 95-63-6 | 1,2,4-TRIMETHYLBENZENE | 3.6 | 190 | mg/kg | | | | | | | |
| 108-67-8 | 1,3,5-TRIMETHYLBENZENE (MESITYLENE) | 8.4 | 190 | mg/kg | | | | | | | |
| 103-65-1 | N-PROPYLBENZENE | 3.9 | 500 | mg/kg | | | | | | | |
| 135-98-8 | SEC-BUTYLBENZENE | 11 | 500 | mg/kg | | | | | | | |
| | **TOTAL VOCS** | **--** | **--** | **mg/Kg** | **ND** | **ND** | **0.1111** | **86.28** | **1375.69** | **ND** | **79.77** |

Exceeds NYSDEC Part 375 Unrestricted Soil Criteria
Exceeds NYSDEC Commercial Soil Criteria
(1) NYSDEC 6 NYCRR Part 375 Environmental Remediation Program (December 2006)
(2) -- indicates no clean up objective or background level is available
(3) NA indicates compound was not analyzed for
(4) ND indicates compound was not detected
(5) J indicates an estimated concentration; J+ indicated an estimated concentration biased high.
(6) R indicates rejected data
(7) Grey shaded values exceed NYSDEC Part 375 Unrestricted Soil Criteria
(8) Orange shaded values exceed NYSDEC Part 375 Commercial Soil Criteria

Table 3
Farrington Street Former MGP Site
Summary of Soil Analytical Data
Consolidated Edison Company of New York

| Consolidated Edison<br>Farrington Street Remedial Investigation<br>2009-2015 Soil Analytical Data<br>Detected Compounds Only | | | | Location ID: | SB-23 | SB-24 | SB-24 | SB-25 | SB-25 | SB-25 | SB-26 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Sample ID: | SB-23(28-33) | SB-24(10-12) | SB-24(12-14) | SB-25(13-18) | SB-25(28-33) | SB-25(33-38) | SB-26(14-16) |
| | | | | Lab Sample Id | A2915-08 | A3062-01 | A3062-02 | A2876-07 | A2876-08 | A2876-09 | A3062-03 |
| | | | | Depth: | 28 - 33 ft | 10 - 12 ft | 12 - 14 ft | 13 - 18 ft | 28 - 33 ft | 33 - 38 ft | 14 - 16 ft |
| | | | | Source: | Chemtech | Chemtech | Chemtech | Chemtech | Chemtech | Chemtech | Chemtech |
| | | NYSDEC Part 375 Unrestricted Soil Criteria | NYSDEC Part 375 Commercial Soil Criteria | SDG: | A2915 | A3062 | A3062 | A2876 | A2876 | A2876 | A3062 |
| | | | | Matrix: | SOIL | SOIL | SOIL | SOIL | SOIL | SOIL | SOIL |
| | | | | Sampled: | 5/26/2009 0:00 | 6/5/2009 0:00 | 6/5/2009 0:00 | 5/22/2009 0:00 | 5/22/2009 0:00 | 5/22/2009 0:00 | 6/5/2009 0:00 |
| | | | | Validated: | 6/25/2009 | 6/29/2009 | 6/29/2009 | 6/24/2009 | 6/24/2009 | 6/24/2009 | 6/29/2009 |
| CAS NO. | COMPOUND | | | UNITS: | | | | | | | |
| | SEMIVOLATILES | | | | | | | | | | |
| 95-94-3 | 1,2,4,5-TETRACHLOROBENZENE | -- | -- | mg/Kg | | | | | | | |
| 58-90-2 | 2,3,4,6-TETRACHLOROPHENOL | -- | -- | mg/kg | | | | | | | |
| 88-06-2 | 2,4,6-TRICHLOROPHENOL | -- | -- | mg/kg | ND | ND | ND | ND | ND | ND | ND |
| 105-67-9 | 2,4-DIMETHYLPHENOL | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 91-57-6 | 2-METHYLNAPHTHALENE | -- | -- | mg/Kg | ND | ND | ND | 270 | 890 | 0.34 J | 530 J |
| 95-48-7 | 2-METHYLPHENOL (O-CRESOL) | 0.33 | 500 | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| MEPH3MEPH | 3- AND 4- METHYLPHENOL (TOTAL) | 0.33 | 500 | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 83-32-9 | ACENAPHTHENE | 20 | 500 | mg/Kg | ND | ND | ND | **140** | **650** | 0.25 J | **180** |
| 208-96-8 | ACENAPHTHYLENE | 100 | 500 | mg/Kg | ND | ND | 0.057 J | 12 | 85 | ND | 13 |
| 98-86-2 | ACETOPHENONE | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 120-12-7 | ANTHRACENE | 100 | 500 | mg/Kg | ND | ND | 0.052 J | 57 | **370** | 0.14 J | 72 |
| 100-52-7 | BENZALDEHYDE | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 56-55-3 | BENZO(A)ANTHRACENE | 1 | 5.6 | mg/Kg | ND | 0.055 J | 0.092 J | **34** | **230** | 0.1 J | **35** J |
| 50-32-8 | BENZO(A)PYRENE | 1 | 1 | mg/Kg | ND | 0.089 J | 0.13 J | **22** | **150** | 0.069 J | **22** J |
| 205-99-2 | BENZO(B)FLUORANTHENE | 1 | 5.6 | mg/Kg | ND | 0.087 J | 0.13 J | **20** | **140** | 0.058 J | **17** |
| 191-24-2 | BENZO(G,H,I)PERYLENE | 100 | 500 | mg/Kg | ND | 0.063 J | 0.09 J | 8.4 | 68 | ND | 9.2 |
| 207-08-9 | BENZO(K)FLUORANTHENE | 0.8 | 56 | mg/Kg | ND | ND | 0.059 J | **6** J | **37** J | ND | **6.8** J |
| 85-68-7 | BENZYL BUTYL PHTHALATE | -- | -- | mg/Kg | ND | ND | 0.041 J | ND | ND | ND | ND |
| 92-52-4 | BIPHENYL (DIPHENYL) | -- | -- | mg/Kg | ND | ND | ND | 19 | 130 | 0.044 J | 43 |
| 117-81-7 | BIS(2-ETHYLHEXYL) PHTHALATE | -- | -- | mg/Kg | ND | ND | 0.048 J | ND | ND | ND | ND |
| 105-60-2 | CAPROLACTAM | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 86-74-8 | CARBAZOLE | -- | -- | mg/Kg | ND | ND | ND | 4.2 J | 20 J | ND | 2.4 J |
| 218-01-9 | CHRYSENE | 1 | 56 | mg/Kg | ND | 0.075 J | 0.11 J | **33** | **230** | 0.1 J | **33** J |
| 53-70-3 | DIBENZ(A,H)ANTHRACENE | 0.33 | 0.56 | mg/Kg | ND | ND | 0.044 J | **1.9** J | **20** J | ND | **2.6** J |
| 132-64-9 | DIBENZOFURAN | 7 | 350 | mg/Kg | ND | ND | ND | ND | **59** | ND | **9.2** J |
| 84-66-2 | DIETHYL PHTHALATE | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 131-11-3 | DIMETHYL PHTHALATE | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 84-74-2 | DI-N-BUTYL PHTHALATE | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 117-84-0 | DI-N-OCTYLPHTHALATE | -- | -- | mg/Kg | ND | ND | 0.042 J | ND | ND | ND | ND |
| 206-44-0 | FLUORANTHENE | 100 | 500 | mg/Kg | ND | 0.048 J | 0.076 J | 59 | **360** | 0.19 J | 64 |
| 86-73-7 | FLUORENE | 30 | 500 | mg/Kg | ND | ND | ND | **61** | **360** | 0.15 J | **81** |
| 193-39-5 | INDENO(1,2,3-C,D)PYRENE | 0.5 | 5.6 | mg/Kg | ND | 0.048 J | 0.079 J | **6.4** J | **57** J | ND | **5.5** |
| 86-30-6 | N-NITROSODIPHENYLAMINE | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 91-20-3 | NAPHTHALENE | 12 | 500 | mg/Kg | ND | ND | ND | **680** | **2900** | 0.62 | **850** |
| 87-86-5 | PENTACHLOROPHENOL | 0.8 | 6.7 | mg/Kg | ND | ND | 0.68 J | ND | ND | ND | **8.9** |
| 85-01-8 | PHENANTHRENE | 100 | 500 | mg/Kg | ND | ND | 0.045 J | **180** | **1000** | 0.53 | **240** |
| 108-95-2 | PHENOL | 0.33 | 500 | mg/Kg | ND | ND | ND | ND | ND | ND | **0.4** J |
| 129-00-0 | PYRENE | 100 | 500 | mg/Kg | ND | 0.16 J | 0.18 J | 76 | **480** | 0.24 J | **110** |
| | **TOTAL SVOCS** | -- | -- | **mg/kg** | **ND** | **0.625** | **1.955** | **1689.9** | **8236** | **2.831** | **2335** |

Exceeds NYSDEC Part 375 Unrestricted Soil Criteria
Exceeds NYSDEC Commercial Soil Criteria
(1) NYSDEC 6 NYCRR Part 375 Environmental Remediation Program (December 2006)
(2) -- indicates no clean up objective or background level is available
(3) NA indicates compound was not analyzed for
(4) ND indicates compound was not detected
(5) J indicates an estimated concentration
(6) R indicates rejected data
(7) Grey shaded values exceed NYSDEC Part 375 Unrestricted Soil Criteria
(8) Orange shaded values exceed NYSDEC Part 375 Commercial Soil Criteria

Table 3
Farrington Street Former MGP Site
Summary of Soil Analytical Data
Consolidated Edison Company of New York

| Consolidated Edison<br>Farrington Street Remedial Investigation<br>2009-2015 Soil Analytical Data<br>Detected Compounds Only | | | | Location ID: | SB-23 | SB-24 | SB-24 | SB-25 | SB-25 | SB-25 | SB-26 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Sample ID: | SB-23(28-33) | SB-24(10-12) | SB-24(12-14) | SB-25(13-18) | SB-25(28-33) | SB-25(33-38) | SB-26(14-16) |
| | | | | Lab Sample Id | A2915-08 | A3062-01 | A3062-02 | A2876-07 | A2876-08 | A2876-09 | A3062-03 |
| | | | | Depth: | 28 - 33 ft | 10 - 12 ft | 12 - 14 ft | 13 - 18 ft | 28 - 33 ft | 33 - 38 ft | 14 - 16 ft |
| | | | | Source: | Chemtech | Chemtech | Chemtech | Chemtech | Chemtech | Chemtech | Chemtech |
| | | NYSDEC Part 375 Unrestricted Soil Criteria | NYSDEC Part 375 Commercial Soil Criteria | SDG: | A2915 | A3062 | A3062 | A2876 | A2876 | A2876 | A3062 |
| | | | | Matrix: | SOIL | SOIL | SOIL | SOIL | SOIL | SOIL | SOIL |
| | | | | Sampled: | 5/26/2009 0:00 | 6/5/2009 0:00 | 6/5/2009 0:00 | 5/22/2009 0:00 | 5/22/2009 0:00 | 5/22/2009 0:00 | 6/5/2009 0:00 |
| | | | | Validated: | 6/25/2009 | 6/29/2009 | 6/29/2009 | 6/24/2009 | 6/24/2009 | 6/24/2009 | 6/29/2009 |
| CAS NO. | COMPOUND | | | UNITS: | | | | | | | |
| | INORGANICS | | | | | | | | | | |
| 7429-90-5 | ALUMINUM | -- | -- | mg/Kg | 5640 | 8400 | 6710 | 2880 | 6200 | 2150 | 3240 |
| 7440-36-0 | ANTIMONY | -- | -- | mg/Kg | ND | 0.5 J | 0.62 J | ND | ND | ND | ND |
| 7440-38-2 | ARSENIC | 13 | 16 | mg/Kg | 0.4 J | 0.49 J | 2.25 | ND | ND | ND | ND |
| 7440-39-3 | BARIUM | 350 | 400 | mg/Kg | 81.6 | 73.3 | 66 | 27.4 | 81.9 | 23.5 | 32.1 |
| 7440-41-7 | BERYLLIUM | 7.2 | 590 | mg/Kg | 0.17 J | 0.29 | 0.44 | 0.13 J | 0.22 J | 0.16 J | 0.15 J |
| 7440-43-9 | CADMIUM | 2.5 | 9.3 | mg/Kg | 0.28 | 0.48 | 0.46 | ND | 0.19 J | 0.09 J | 0.15 J |
| 7440-70-2 | CALCIUM | -- | -- | mg/Kg | 804 | 1310 | 1840 | ND | ND | 15500 J | 957 |
| 7440-47-3 | CHROMIUM, TOTAL | 30 | 1500 | mg/Kg | 17.1 | 22.9 | 18 | 10 | 20.1 | 7.25 | 11.4 |
| 7440-48-4 | COBALT | -- | -- | mg/Kg | 5.68 | 7.74 | 6.99 | 3.2 | 8.08 | 3.14 | 4.67 |
| 7440-50-8 | COPPER | 50 | 270 | mg/Kg | 17.5 | 19.4 | 23.4 | 10.9 | 17.7 | 8.31 | 10.8 |
| 7439-89-6 | IRON | -- | -- | mg/Kg | 13600 J | 17900 | 14400 | 12500 J | 19600 J | 7210 J | 12600 |
| 7439-92-1 | LEAD | 63 | 1000 | mg/Kg | 3.45 | 27.5 | **73.4** | 1.85 J | 3.33 J | 1.76 J | 1.97 |
| 7439-95-4 | MAGNESIUM | -- | -- | mg/Kg | 2660 | 2960 | 2410 | 1170 | 3070 | 10500 | 1440 |
| 7439-96-5 | MANGANESE | 1600 | 10000 | mg/Kg | 119 | 225 | 142 | 195 J | 405 J | 195 J | 171 |
| 7439-97-6 | MERCURY | 0.18 | 2.8 | mg/Kg | ND | 0.045 | 0.067 | 0.007 J | ND | ND | 0.009 J |
| 7440-02-0 | NICKEL | 30 | 310 | mg/Kg | 14.9 | 18.1 | 17 | 10.9 | 18.4 | 6.92 | 16.6 |
| 7440-09-7 | POTASSIUM | -- | -- | mg/Kg | 2840 | 2750 | 1730 | 762 | 3170 | 691 | 1300 |
| 7782-49-2 | SELENIUM | 3.9 | 1500 | mg/Kg | ND | 0.38 J | 0.71 J | 0.98 | 0.82 J | 0.61 J | 0.52 J |
| 7440-22-4 | SILVER | 2 | 1500 | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 7440-23-5 | SODIUM | -- | -- | mg/Kg | 160 | 169 | 190 | ND | ND | 70.8 J | 71.4 J |
| 7440-28-0 | THALLIUM | -- | -- | mg/Kg | 0.73 J | ND | ND | ND | ND | ND | ND |
| 7440-62-2 | VANADIUM | -- | -- | mg/Kg | 20 | 31.5 | 27.4 | 11.2 | 27 | 8.44 | 14 |
| 7440-66-6 | ZINC | 109 | 10000 | mg/Kg | 24.8 | 54.1 | 67.3 | 13 | 32.7 | 14.8 | 22.9 |
| 57-12-5 | CYANIDE | 27 | 27 | mg/Kg | ND | ND | ND | 2.23 | ND | ND | ND |

Exceeds NYSDEC Part 375 Unrestricted Soil Criteria
Exceeds NYSDEC Commercial Soil Criteria

(1) NYSDEC 6 NYCRR Part 375 Environmental Remediation Program (December 2006)
(2) -- indicates no clean up objective or background level is available
(3) NA indicates compound was not analyzed for
(4) ND indicates compound was not detected
(5) J indicates an estimated concentration
(6) R indicates rejected data
(7) Grey shaded values exceed NYSDEC Part 375 Unrestricted Soil Criteria
(8) Orange shaded values exceed NYSDEC Part 375 Commercial Soil Criteria

Table 3
Farrington Street Former MGP Site
Summary of Soil Analytical Data
Consolidated Edison Company of New York

| Consolidated Edison<br>Farrington Street Remedial Investigation<br>2009-2015 Soil Analytical Data<br>Detected Compounds Only | | | | Location ID: | SB-26 | SB-27 | SB-27 | SB-28 | SB-28 | Dup of SB-28(23-28) | SB-29 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Sample ID: | SB-26(24-26) | SB-27(18-23) | SB-27(23-28) | SB-28(18-23) | SB-28(23-28) | SB-128(23-28) | SB-29(18-23) |
| | | | | Lab Sample Id | A3062-04 | A3439-07 | A3439-08 | A3439-02 | A3439-03 | A3439-06 | A3439-09 |
| | | | | Depth: | 24 - 26 ft | 18 - 23 ft | 23 - 28 ft | 18 - 23 ft | 23 - 28 ft | 23 - 38 ft | 18 - 23 ft |
| | | | | Source: | Chemtech | Chemtech | Chemtech | Chemtech | Chemtech | Chemtech | Chemtech |
| | | NYSDEC Part 375 Unrestricted Soil Criteria | NYSDEC Part 375 Commercial Soil Criteria | SDG: | A3062 | A3439 | A3439 | A3439 | A3439 | A3439 | A3439 |
| | | | | Matrix: | SOIL | SOIL | SOIL | SOIL | SOIL | SOIL | SOIL |
| | | | | Sampled: | 6/5/2009 0:00 | 7/6/2009 0:00 | 7/6/2009 0:00 | 7/6/2009 0:00 | 7/6/2009 0:00 | 7/6/2009 0:00 | 7/6/2009 0:00 |
| | | | | Validated: | 6/29/2009 | 7/31/2009 | 7/31/2009 | 7/31/2009 | 7/31/2009 | 7/31/2009 | 7/31/2009 |
| CAS NO. | COMPOUND | | | UNITS: | | | | | | | |
| | VOLATILES | | | | | | | | | | |
| 79-34-5 | 1,1,2,2-TETRACHLOROETHANE | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 120-82-1 | 1,2,4-TRICHLOROBENZENE | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 95-50-1 | 1,2-DICHLOROBENZENE | 1.1 | 500 | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 541-73-1 | 1,3-DICHLOROBENZENE | 2.4 | 280 | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 106-46-7 | 1,4-DICHLOROBENZENE | 1.8 | 130 | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 591-78-6 | 2-HEXANONE | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 67-64-1 | ACETONE | 0.05 | 500 | mg/Kg | ND | ND | ND | R | ND | ND | ND |
| 71-43-2 | BENZENE | 0.06 | 44 | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 75-15-0 | CARBON DISULFIDE | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 108-90-7 | CHLOROBENZENE | 1.1 | 500 | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 67-66-3 | CHLOROFORM | 0.37 | 350 | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 156-59-2 | CIS-1,2-DICHLOROETHYLENE | 0.25 | 500 | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 110-82-7 | CYCLOHEXANE | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 100-41-4 | ETHYLBENZENE | 1 | 390 | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 98-82-8 | ISOPROPYLBENZENE (CUMENE) | -- | -- | mg/Kg | ND | ND | ND | 0.095 J | ND | ND | ND |
| XYLMP | M,P-XYLENE (SUM OF ISOMERS) | 0.26 | 500 | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 79-20-9 | METHYL ACETATE | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 78-93-3 | METHYL ETHYL KETONE (2-BUTANONE) | 0.12 | 500 | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 108-10-1 | METHYL ISOBUTYL KETONE | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 108-87-2 | METHYLCYCLOHEXANE | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 75-09-2 | METHYLENE CHLORIDE | 0.05 | 500 | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 95-47-6 | O-XYLENE (1,2-DIMETHYLBENZENE) | 0.26 | 500 | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 100-42-5 | STYRENE | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 1634-04-4 | TERT-BUTYL METHYL ETHER | 0.93 | 500 | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 127-18-4 | TETRACHLOROETHYLENE(PCE) | 1.3 | 150 | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 108-88-3 | TOLUENE | 0.7 | 500 | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 79-01-6 | TRICHLOROETHYLENE (TCE) | 0.47 | 200 | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 95-63-6 | 1,2,4-TRIMETHYLBENZENE | 3.6 | 190 | mg/kg | | | | | | | |
| 108-67-8 | 1,3,5-TRIMETHYLBENZENE (MESITYLENE) | 8.4 | 190 | mg/kg | | | | | | | |
| 103-65-1 | N-PROPYLBENZENE | 3.9 | 500 | mg/kg | | | | | | | |
| 135-98-8 | SEC-BUTYLBENZENE | 11 | 500 | mg/kg | | | | | | | |
| | **TOTAL VOCS** | **--** | **--** | **mg/Kg** | **ND** | **ND** | **ND** | **0.095** | **ND** | **ND** | **ND** |

Exceeds NYSDEC Part 375 Unrestricted Soil Criteria
Exceeds NYSDEC Commercial Soil Criteria
(1) NYSDEC 6 NYCRR Part 375 Environmental Remediation Program (December 2006)
(2) -- indicates no clean up objective or background level is available
(3) NA indicates compound was not analyzed for
(4) ND indicates compound was not detected
(5) J indicates an estimated concentration; J+ indicated an estimated concentration biased high.
(6) R indicates rejected data
(7) Grey shaded values exceed NYSDEC Part 375 Unrestricted Soil Criteria
(8) Orange shaded values exceed NYSDEC Part 375 Commercial Soil Criteria

Table 3
Farrington Street Former MGP Site
Summary of Soil Analytical Data
Consolidated Edison Company of New York

| Consolidated Edison<br>Farrington Street Remedial Investigation<br>2009-2015 Soil Analytical Data<br>Detected Compounds Only | | | | Location ID: | SB-26 | SB-27 | SB-27 | SB-28 | SB-28 | Dup of SB-28(23-28) | SB-29 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Sample ID: | SB-26(24-26) | SB-27(18-23) | SB-27(23-28) | SB-28(18-23) | SB-28(23-28) | SB-128(23-28) | SB-29(18-23) |
| | | | | Lab Sample Id | A3062-04 | A3439-07 | A3439-08 | A3439-02 | A3439-03 | A3439-06 | A3439-09 |
| | | | | Depth: | 24 - 26 ft | 18 - 23 ft | 23 - 28 ft | 18 - 23 ft | 23 - 28 ft | 23 - 38 ft | 18 - 23 ft |
| | | | | Source: | Chemtech | Chemtech | Chemtech | Chemtech | Chemtech | Chemtech | Chemtech |
| | | NYSDEC Part 375 Unrestricted Soil Criteria | NYSDEC Part 375 Commercial Soil Criteria | SDG: | A3062 | A3439 | A3439 | A3439 | A3439 | A3439 | A3439 |
| | | | | Matrix: | SOIL | SOIL | SOIL | SOIL | SOIL | SOIL | SOIL |
| | | | | Sampled: | 6/5/2009 0:00 | 7/6/2009 0:00 | 7/6/2009 0:00 | 7/6/2009 0:00 | 7/6/2009 0:00 | 7/6/2009 0:00 | 7/6/2009 0:00 |
| | | | | Validated: | 6/29/2009 | 7/31/2009 | 7/31/2009 | 7/31/2009 | 7/31/2009 | 7/31/2009 | 7/31/2009 |
| CAS NO. | COMPOUND | | | UNITS: | | | | | | | |
| | SEMIVOLATILES | | | | | | | | | | |
| 95-94-3 | 1,2,4,5-TETRACHLOROBENZENE | -- | -- | mg/Kg | | | | | | | |
| 58-90-2 | 2,3,4,6-TETRACHLOROPHENOL | -- | -- | mg/kg | | | | | | | |
| 88-06-2 | 2,4,6-TRICHLOROPHENOL | -- | -- | mg/kg | ND | ND | ND | ND | ND | ND | ND |
| 105-67-9 | 2,4-DIMETHYLPHENOL | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 91-57-6 | 2-METHYLNAPHTHALENE | -- | -- | mg/Kg | 0.16 J | ND | ND | 0.29 J | ND | ND | ND |
| 95-48-7 | 2-METHYLPHENOL (O-CRESOL) | 0.33 | 500 | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| MEPH3MEPH | 3- AND 4- METHYLPHENOL (TOTAL) | 0.33 | 500 | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 83-32-9 | ACENAPHTHENE | 20 | 500 | mg/Kg | 0.1 J | ND | ND | 1.2 | ND | ND | ND |
| 208-96-8 | ACENAPHTHYLENE | 100 | 500 | mg/Kg | ND | ND | ND | 0.28 J | ND | ND | ND |
| 98-86-2 | ACETOPHENONE | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 120-12-7 | ANTHRACENE | 100 | 500 | mg/Kg | 0.043 J | ND | ND | 0.88 | ND | ND | ND |
| 100-52-7 | BENZALDEHYDE | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 56-55-3 | BENZO(A)ANTHRACENE | 1 | 5.6 | mg/Kg | ND | ND | ND | 0.57 | ND | ND | ND |
| 50-32-8 | BENZO(A)PYRENE | 1 | 1 | mg/Kg | ND | ND | ND | 0.36 J | ND | ND | ND |
| 205-99-2 | BENZO(B)FLUORANTHENE | 1 | 5.6 | mg/Kg | ND | ND | ND | 0.26 J | ND | ND | ND |
| 191-24-2 | BENZO(G,H,I)PERYLENE | 100 | 500 | mg/Kg | ND | ND | ND | 0.11 J | ND | ND | ND |
| 207-08-9 | BENZO(K)FLUORANTHENE | 0.8 | 56 | mg/Kg | ND | ND | ND | 0.12 J | ND | ND | ND |
| 85-68-7 | BENZYL BUTYL PHTHALATE | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 92-52-4 | BIPHENYL (DIPHENYL) | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 117-81-7 | BIS(2-ETHYLHEXYL) PHTHALATE | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 105-60-2 | CAPROLACTAM | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 86-74-8 | CARBAZOLE | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 218-01-9 | CHRYSENE | 1 | 56 | mg/Kg | ND | ND | ND | 0.53 | ND | ND | ND |
| 53-70-3 | DIBENZ(A,H)ANTHRACENE | 0.33 | 0.56 | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 132-64-9 | DIBENZOFURAN | 7 | 350 | mg/Kg | ND | ND | ND | 0.1 J | ND | ND | ND |
| 84-66-2 | DIETHYL PHTHALATE | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 131-11-3 | DIMETHYL PHTHALATE | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 84-74-2 | DI-N-BUTYL PHTHALATE | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 117-84-0 | DI-N-OCTYLPHTHALATE | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 206-44-0 | FLUORANTHENE | 100 | 500 | mg/Kg | ND | ND | ND | 1 | ND | ND | ND |
| 86-73-7 | FLUORENE | 30 | 500 | mg/Kg | 0.044 J | ND | ND | 0.56 | ND | ND | ND |
| 193-39-5 | INDENO(1,2,3-C,D)PYRENE | 0.5 | 5.6 | mg/Kg | ND | ND | ND | 0.12 J | ND | ND | ND |
| 86-30-6 | N-NITROSODIPHENYLAMINE | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 91-20-3 | NAPHTHALENE | 12 | 500 | mg/Kg | 0.24 J | ND | ND | 0.09 J | ND | ND | ND |
| 87-86-5 | PENTACHLOROPHENOL | 0.8 | 6.7 | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 85-01-8 | PHENANTHRENE | 100 | 500 | mg/Kg | 0.13 J | ND | ND | 2.1 | ND | 0.068 J | ND |
| 108-95-2 | PHENOL | 0.33 | 500 | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 129-00-0 | PYRENE | 100 | 500 | mg/Kg | 0.066 J | ND | ND | 1.2 | 0.054 J | 0.044 J | ND |
| | **TOTAL SVOCS** | -- | -- | **mg/kg** | **0.783** | **ND** | **ND** | **9.77** | **0.054** | **0.112** | **ND** |

Exceeds NYSDEC Part 375 Unrestricted Soil Criteria
Exceeds NYSDEC Commercial Soil Criteria
(1) NYSDEC 6 NYCRR Part 375 Environmental Remediation Program (December 2006)
(2) -- indicates no clean up objective or background level is available
(3) NA indicates compound was not analyzed for
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(7) Grey shaded values exceed NYSDEC Part 375 Unrestricted Soil Criteria
(8) Orange shaded values exceed NYSDEC Part 375 Commercial Soil Criteria

Table 3
Farrington Street Former MGP Site
Summary of Soil Analytical Data
Consolidated Edison Company of New York

| Consolidated Edison<br>Farrington Street Remedial Investigation<br>2009-2015 Soil Analytical Data<br>Detected Compounds Only | | | | Location ID: | SB-26 | SB-27 | SB-27 | SB-28 | SB-28 | Dup of SB-28(23-28) | SB-29 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Sample ID: | SB-26(24-26) | SB-27(18-23) | SB-27(23-28) | SB-28(18-23) | SB-28(23-28) | SB-28 | SB-29(18-23) |
| | | | | Lab Sample Id | A3062-04 | A3439-07 | A3439-08 | A3439-02 | A3439-03 | A3439-06 | A3439-09 |
| | | | | Depth: | 24 - 26 ft | 18 - 23 ft | 23 - 28 ft | 18 - 23 ft | 23 - 28 ft | 23 - 38 ft | 18 - 23 ft |
| | | | | Source: | Chemtech | Chemtech | Chemtech | Chemtech | Chemtech | Chemtech | Chemtech |
| | | NYSDEC Part 375 Unrestricted Soil Criteria | NYSDEC Part 375 Commercial Soil Criteria | SDG: | A3062 | A3439 | A3439 | A3439 | A3439 | A3439 | A3439 |
| | | | | Matrix: | SOIL | SOIL | SOIL | SOIL | SOIL | SOIL | SOIL |
| | | | | Sampled: | 6/5/2009 0:00 | 7/6/2009 0:00 | 7/6/2009 0:00 | 7/6/2009 0:00 | 7/6/2009 0:00 | 7/6/2009 0:00 | 7/6/2009 0:00 |
| | | | | Validated: | 6/29/2009 | 7/31/2009 | 7/31/2009 | 7/31/2009 | 7/31/2009 | 7/31/2009 | 7/31/2009 |
| CAS NO. | COMPOUND | | | UNITS: | | | | | | | |
| | INORGANICS | | | | | | | | | | |
| 7429-90-5 | ALUMINUM | -- | -- | mg/Kg | 4190 | 12800 | 18700 | 4630 | 1870 | 1730 | 6310 |
| 7440-36-0 | ANTIMONY | -- | -- | mg/Kg | ND | 0.59 J | ND | ND | ND | ND | ND |
| 7440-38-2 | ARSENIC | 13 | 16 | mg/Kg | 0.53 J | ND | ND | ND | ND | ND | ND |
| 7440-39-3 | BARIUM | 350 | 400 | mg/Kg | 52.8 | 108 J | 129 J | 49.2 J | 16.6 J | 14.1 J | 82.9 J |
| 7440-41-7 | BERYLLIUM | 7.2 | 590 | mg/Kg | 0.17 J | 0.51 | 0.91 | 0.32 | 0.08 J | 0.08 J | 0.31 |
| 7440-43-9 | CADMIUM | 2.5 | 9.3 | mg/Kg | 0.23 J | 1.07 | 1.82 | 0.78 | ND | ND | 0.68 |
| 7440-70-2 | CALCIUM | -- | -- | mg/Kg | 703 | 823 | 254 | 513 | 420 | 391 | 406 |
| 7440-47-3 | CHROMIUM, TOTAL | 30 | 1500 | mg/Kg | 15.6 | **34.3** | **54.3** | 16.2 | 7.35 | 6.48 | 20.3 |
| 7440-48-4 | COBALT | -- | -- | mg/Kg | 5.7 | 11.7 | 15.5 | 8.07 | 2.46 | 2.34 | 8.14 |
| 7440-50-8 | COPPER | 50 | 270 | mg/Kg | 10.3 | 22.6 | 32.1 | 20.6 | 5.79 | 5.7 | 16.5 |
| 7439-89-6 | IRON | -- | -- | mg/Kg | 15600 | 25200 | 35200 | 20000 | 5640 | 5370 | 20600 |
| 7439-92-1 | LEAD | 63 | 1000 | mg/Kg | 2.21 | 4.77 | 9.44 | 2.79 | 1.11 | 1 | 2.97 |
| 7439-95-4 | MAGNESIUM | -- | -- | mg/Kg | 2100 | 5730 | 8380 | 1600 | 1110 | 1010 | 2820 |
| 7439-96-5 | MANGANESE | 1600 | 10000 | mg/Kg | 106 | 226 J | 318 J | 182 J | 47.7 J | 43.3 J | 178 J |
| 7439-97-6 | MERCURY | 0.18 | 2.8 | mg/Kg | 0.006 J | 0.005 J | 0.013 | ND | 0.005 J | ND | 0.007 J |
| 7440-02-0 | NICKEL | 30 | 310 | mg/Kg | 16.7 | 25.5 | **43.1** | 16.3 | 8.19 | 8.11 | 18.9 |
| 7440-09-7 | POTASSIUM | -- | -- | mg/Kg | 2020 | 6380 | 7670 | 1580 | 472 | 402 | 3120 |
| 7782-49-2 | SELENIUM | 3.9 | 1500 | mg/Kg | 0.52 J | ND | ND | ND | ND | ND | ND |
| 7440-22-4 | SILVER | 2 | 1500 | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 7440-23-5 | SODIUM | -- | -- | mg/Kg | 277 | ND | ND | ND | ND | ND | ND |
| 7440-28-0 | THALLIUM | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 7440-62-2 | VANADIUM | -- | -- | mg/Kg | 21.3 | 43.9 | 59 | 20.2 | 6.53 | 6.93 | 27.7 |
| 7440-66-6 | ZINC | 109 | 10000 | mg/Kg | 23.4 | 54.6 | 78.9 | 24.3 | 10.9 | 10.1 | 34.3 |
| 57-12-5 | CYANIDE | 27 | 27 | mg/Kg | ND | ND | ND | ND | ND | ND | ND |

Exceeds NYSDEC Part 375 Unrestricted Soil Criteria
Exceeds NYSDEC Commercial Soil Criteria

(1) NYSDEC 6 NYCRR Part 375 Environmental Remediation Program (December 2006)
(2) -- indicates no clean up objective or background level is available
(3) NA indicates compound was not analyzed for
(4) ND indicates compound was not detected
(5) J indicates an estimated concentration
(6) R indicates rejected data
(7) Grey shaded values exceed NYSDEC Part 375 Unrestricted Soil Criteria
(8) Orange shaded values exceed NYSDEC Part 375 Commercial Soil Criteria

Table 3
Farrington Street Former MGP Site
Summary of Soil Analytical Data
Consolidated Edison Company of New York

| Consolidated Edison<br>Farrington Street Remedial Investigation<br>2009-2015 Soil Analytical Data<br>Detected Compounds Only | | | | Location ID:<br>Sample ID:<br>Lab Sample Id<br>Depth:<br>Source: | SB-29<br>SB-29(23-28)<br>A3439-10<br>23 - 28 ft<br>Chemtech | SB-30<br>SB-30(13-18)<br>A3439-12<br>13 - 18 ft<br>Chemtech | SB-30<br>SB-30(23-28)<br>A3439-13<br>23 - 28 ft<br>Chemtech | SB-31<br>SB-31 (8-13)<br>A3439-14<br>8 - 13 ft<br>Chemtech | SB-31<br>SB-31(23-28)<br>A3439-15<br>23 - 28 ft<br>Chemtech | SB-32<br>SB-32 (8-13)<br>A3439-16<br>8 - 13 ft<br>Chemtech | SB-32<br>SB-32(23-28)<br>A3439-17<br>23 - 28 ft<br>Chemtech |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | NYSDEC Part 375 Unrestricted Soil Criteria | NYSDEC Part 375 Commercial Soil Criteria | SDG:<br>Matrix:<br>Sampled:<br>Validated: | A3439<br>SOIL<br>7/6/2009 0:00<br>7/31/2009 | A3439<br>SOIL<br>7/7/2009 0:00<br>7/31/2009 | A3439<br>SOIL<br>7/7/2009 0:00<br>7/31/2009 | A3439<br>SOIL<br>7/7/2009 0:00<br>7/31/2009 | A3439<br>SOIL<br>7/7/2009 0:00<br>7/31/2009 | A3439<br>SOIL<br>7/7/2009 0:00<br>7/31/2009 | A3439<br>SOIL<br>7/7/2009 0:00<br>7/31/2009 |
| CAS NO. | COMPOUND | | | UNITS: | | | | | | | |
| | VOLATILES | | | | | | | | | | |
| 79-34-5 | 1,1,2,2-TETRACHLOROETHANE | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 120-82-1 | 1,2,4-TRICHLOROBENZENE | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 95-50-1 | 1,2-DICHLOROBENZENE | 1.1 | 500 | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 541-73-1 | 1,3-DICHLOROBENZENE | 2.4 | 280 | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 106-46-7 | 1,4-DICHLOROBENZENE | 1.8 | 130 | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 591-78-6 | 2-HEXANONE | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 67-64-1 | ACETONE | 0.05 | 500 | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 71-43-2 | BENZENE | 0.06 | 44 | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 75-15-0 | CARBON DISULFIDE | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 108-90-7 | CHLOROBENZENE | 1.1 | 500 | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 67-66-3 | CHLOROFORM | 0.37 | 350 | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 156-59-2 | CIS-1,2-DICHLOROETHYLENE | 0.25 | 500 | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 110-82-7 | CYCLOHEXANE | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 100-41-4 | ETHYLBENZENE | 1 | 390 | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 98-82-8 | ISOPROPYLBENZENE (CUMENE) | -- | -- | mg/Kg | ND | 0.029 J | ND | ND | ND | ND | ND |
| XYLMP | M,P-XYLENE (SUM OF ISOMERS) | 0.26 | 500 | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 79-20-9 | METHYL ACETATE | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 78-93-3 | METHYL ETHYL KETONE (2-BUTANONE) | 0.12 | 500 | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 108-10-1 | METHYL ISOBUTYL KETONE | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 108-87-2 | METHYLCYCLOHEXANE | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 75-09-2 | METHYLENE CHLORIDE | 0.05 | 500 | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 95-47-6 | O-XYLENE (1,2-DIMETHYLBENZENE) | 0.26 | 500 | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 100-42-5 | STYRENE | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 1634-04-4 | TERT-BUTYL METHYL ETHER | 0.93 | 500 | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 127-18-4 | TETRACHLOROETHYLENE(PCE) | 1.3 | 150 | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 108-88-3 | TOLUENE | 0.7 | 500 | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 79-01-6 | TRICHLOROETHYLENE (TCE) | 0.47 | 200 | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 95-63-6 | 1,2,4-TRIMETHYLBENZENE | 3.6 | 190 | mg/kg | | | | | | | |
| 108-67-8 | 1,3,5-TRIMETHYLBENZENE (MESITYLENE) | 8.4 | 190 | mg/kg | | | | | | | |
| 103-65-1 | N-PROPYLBENZENE | 3.9 | 500 | mg/kg | | | | | | | |
| 135-98-8 | SEC-BUTYLBENZENE | 11 | 500 | mg/kg | | | | | | | |
| | **TOTAL VOCS** | **--** | **--** | **mg/Kg** | **ND** | **0.029** | **ND** | **ND** | **ND** | **ND** | **ND** |

Exceeds NYSDEC Part 375 Unrestricted Soil Criteria
Exceeds NYSDEC Commercial Soil Criteria
(1) NYSDEC 6 NYCRR Part 375 Environmental Remediation Program (December 2006)
(2) -- indicates no clean up objective or background level is available
(3) NA indicates compound was not analyzed for
(4) ND indicates compound was not detected
(5) J indicates an estimated concentration; J+ indicated an estimated concentration biased high.
(6) R indicates rejected data
(7) Grey shaded values exceed NYSDEC Part 375 Unrestricted Soil Criteria
(8) Orange shaded values exceed NYSDEC Part 375 Commercial Soil Criteria

Table 3
Farrington Street Former MGP Site
Summary of Soil Analytical Data
Consolidated Edison Company of New York

| Consolidated Edison<br>Farrington Street Remedial Investigation<br>2009-2015 Soil Analytical Data<br>Detected Compounds Only | | | | Location ID: | SB-29 | SB-30 | SB-30 | SB-31 | SB-31 | SB-32 | SB-32 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Sample ID: | SB-29(23-28) | SB-30(13-18) | SB-30(23-28) | SB-31 (8-13) | SB-31(23-28) | SB-32 (8-13) | SB-32(23-28) |
| | | | | Lab Sample Id | A3439-10 | A3439-12 | A3439-13 | A3439-14 | A3439-15 | A3439-16 | A3439-17 |
| | | | | Depth: | 23 - 28 ft | 13 - 18 ft | 23 - 28 ft | 8 - 13 ft | 23 - 28 ft | 8 - 13 ft | 23 - 28 ft |
| | | | | Source: | Chemtech | Chemtech | Chemtech | Chemtech | Chemtech | Chemtech | Chemtech |
| | | NYSDEC Part 375 Unrestricted Soil Criteria | NYSDEC Part 375 Commercial Soil Criteria | SDG: | A3439 | A3439 | A3439 | A3439 | A3439 | A3439 | A3439 |
| | | | | Matrix: | SOIL | SOIL | SOIL | SOIL | SOIL | SOIL | SOIL |
| | | | | Sampled: | 7/6/2009 0:00 | 7/7/2009 0:00 | 7/7/2009 0:00 | 7/7/2009 0:00 | 7/7/2009 0:00 | 7/7/2009 0:00 | 7/7/2009 0:00 |
| | | | | Validated: | 7/31/2009 | 7/31/2009 | 7/31/2009 | 7/31/2009 | 7/31/2009 | 7/31/2009 | 7/31/2009 |
| CAS NO. | COMPOUND | | | UNITS: | | | | | | | |
| | SEMIVOLATILES | | | | | | | | | | |
| 95-94-3 | 1,2,4,5-TETRACHLOROBENZENE | -- | -- | mg/Kg | | | | | | | |
| 58-90-2 | 2,3,4,6-TETRACHLOROPHENOL | -- | -- | mg/kg | | | | | | | |
| 88-06-2 | 2,4,6-TRICHLOROPHENOL | -- | -- | mg/kg | ND | ND | ND | ND | ND | ND | ND |
| 105-67-9 | 2,4-DIMETHYLPHENOL | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 91-57-6 | 2-METHYLNAPHTHALENE | -- | -- | mg/Kg | ND | 0.15 J | ND | ND | ND | ND | ND |
| 95-48-7 | 2-METHYLPHENOL (O-CRESOL) | 0.33 | 500 | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| MEPH3MEPH | 3- AND 4- METHYLPHENOL (TOTAL) | 0.33 | 500 | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 83-32-9 | ACENAPHTHENE | 20 | 500 | mg/Kg | ND | 0.95 | ND | ND | ND | ND | ND |
| 208-96-8 | ACENAPHTHYLENE | 100 | 500 | mg/Kg | ND | 0.085 J | ND | ND | ND | ND | ND |
| 98-86-2 | ACETOPHENONE | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 120-12-7 | ANTHRACENE | 100 | 500 | mg/Kg | ND | 0.43 | ND | ND | ND | ND | ND |
| 100-52-7 | BENZALDEHYDE | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 56-55-3 | BENZO(A)ANTHRACENE | 1 | 5.6 | mg/Kg | ND | 0.22 J | ND | ND | ND | ND | ND |
| 50-32-8 | BENZO(A)PYRENE | 1 | 1 | mg/Kg | ND | 0.12 J | ND | ND | ND | ND | ND |
| 205-99-2 | BENZO(B)FLUORANTHENE | 1 | 5.6 | mg/Kg | ND | 0.091 J | ND | ND | ND | ND | ND |
| 191-24-2 | BENZO(G,H,I)PERYLENE | 100 | 500 | mg/Kg | ND | 0.046 J | ND | ND | ND | ND | ND |
| 207-08-9 | BENZO(K)FLUORANTHENE | 0.8 | 56 | mg/Kg | ND | 0.049 J | ND | ND | ND | ND | ND |
| 85-68-7 | BENZYL BUTYL PHTHALATE | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 92-52-4 | BIPHENYL (DIPHENYL) | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 117-81-7 | BIS(2-ETHYLHEXYL) PHTHALATE | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 105-60-2 | CAPROLACTAM | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 86-74-8 | CARBAZOLE | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 218-01-9 | CHRYSENE | 1 | 56 | mg/Kg | ND | 0.21 J | ND | ND | ND | ND | ND |
| 53-70-3 | DIBENZ(A,H)ANTHRACENE | 0.33 | 0.56 | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 132-64-9 | DIBENZOFURAN | 7 | 350 | mg/Kg | ND | 0.081 J | ND | ND | ND | ND | ND |
| 84-66-2 | DIETHYL PHTHALATE | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 131-11-3 | DIMETHYL PHTHALATE | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 84-74-2 | DI-N-BUTYL PHTHALATE | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 117-84-0 | DI-N-OCTYLPHTHALATE | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 206-44-0 | FLUORANTHENE | 100 | 500 | mg/Kg | ND | 0.43 | ND | ND | ND | ND | ND |
| 86-73-7 | FLUORENE | 30 | 500 | mg/Kg | ND | 0.19 J | ND | ND | ND | ND | ND |
| 193-39-5 | INDENO(1,2,3-C,D)PYRENE | 0.5 | 5.6 | mg/Kg | ND | 0.04 J | ND | ND | ND | ND | ND |
| 86-30-6 | N-NITROSODIPHENYLAMINE | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 91-20-3 | NAPHTHALENE | 12 | 500 | mg/Kg | ND | 0.19 J | ND | ND | ND | ND | ND |
| 87-86-5 | PENTACHLOROPHENOL | 0.8 | 6.7 | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 85-01-8 | PHENANTHRENE | 100 | 500 | mg/Kg | ND | 1.4 | ND | ND | ND | ND | ND |
| 108-95-2 | PHENOL | 0.33 | 500 | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 129-00-0 | PYRENE | 100 | 500 | mg/Kg | ND | 0.55 | ND | ND | ND | ND | ND |
| | **TOTAL SVOCS** | -- | -- | **mg/kg** | **ND** | **5.232** | **ND** | **ND** | **ND** | **ND** | **ND** |

Exceeds NYSDEC Part 375 Unrestricted Soil Criteria
Exceeds NYSDEC Commercial Soil Criteria
(1) NYSDEC 6 NYCRR Part 375 Environmental Remediation Program (December 2006)
(2) -- indicates no clean up objective or background level is available
(3) NA indicates compound was not analyzed for
(4) ND indicates compound was not detected
(5) J indicates an estimated concentration
(6) R indicates rejected data
(7) Grey shaded values exceed NYSDEC Part 375 Unrestricted Soil Criteria
(8) Orange shaded values exceed NYSDEC Part 375 Commercial Soil Criteria

Table 3
Farrington Street Former MGP Site
Summary of Soil Analytical Data
Consolidated Edison Company of New York

| Consolidated Edison<br>Farrington Street Remedial Investigation<br>2009-2015 Soil Analytical Data<br>Detected Compounds Only | | | | Location ID: | SB-29 | SB-30 | SB-30 | SB-31 | SB-31 | SB-32 | SB-32 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Sample ID: | SB-29(23-28) | SB-30(13-18) | SB-30(23-28) | SB-31 (8-13) | SB-31(23-28) | SB-32 (8-13) | SB-32(23-28) |
| | | | | Lab Sample Id | A3439-10 | A3439-12 | A3439-13 | A3439-14 | A3439-15 | A3439-16 | A3439-17 |
| | | | | Depth: | 23 - 28 ft | 13 - 18 ft | 23 - 28 ft | 8 - 13 ft | 23 - 28 ft | 8 - 13 ft | 23 - 28 ft |
| | | | | Source: | Chemtech | Chemtech | Chemtech | Chemtech | Chemtech | Chemtech | Chemtech |
| | | NYSDEC Part 375 Unrestricted Soil Criteria | NYSDEC Part 375 Commercial Soil Criteria | SDG: | A3439 | A3439 | A3439 | A3439 | A3439 | A3439 | A3439 |
| | | | | Matrix: | SOIL | SOIL | SOIL | SOIL | SOIL | SOIL | SOIL |
| | | | | Sampled: | 7/6/2009 0:00 | 7/7/2009 0:00 | 7/7/2009 0:00 | 7/7/2009 0:00 | 7/7/2009 0:00 | 7/7/2009 0:00 | 7/7/2009 0:00 |
| | | | | Validated: | 7/31/2009 | 7/31/2009 | 7/31/2009 | 7/31/2009 | 7/31/2009 | 7/31/2009 | 7/31/2009 |
| CAS NO. | COMPOUND | | | UNITS: | | | | | | | |
| | INORGANICS | | | | | | | | | | |
| 7429-90-5 | ALUMINUM | -- | -- | mg/Kg | 10800 | 2850 | 3420 | 3310 | 3030 | 5010 | 6090 |
| 7440-36-0 | ANTIMONY | -- | -- | mg/Kg | 0.63 J | ND | ND | ND | ND | ND | ND |
| 7440-38-2 | ARSENIC | 13 | 16 | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 7440-39-3 | BARIUM | 350 | 400 | mg/Kg | 142 J | 43.7 J | 53.2 J | 30 J | 44.2 J | 42.4 J | 77.8 J |
| 7440-41-7 | BERYLLIUM | 7.2 | 590 | mg/Kg | 0.42 | 0.15 J | 0.17 J | 0.19 J | 0.23 | 0.35 | 0.25 |
| 7440-43-9 | CADMIUM | 2.5 | 9.3 | mg/Kg | 1.18 | 0.24 | 0.29 | 0.28 | 0.53 | 0.56 | 0.43 |
| 7440-70-2 | CALCIUM | -- | -- | mg/Kg | 547 | 626 | 764 | 889 | 317 | 992 | 625 |
| 7440-47-3 | CHROMIUM, TOTAL | 30 | 1500 | mg/Kg | **32.1** | 11.3 | 13.6 | 15 | 11.3 | 15.1 | 18 |
| 7440-48-4 | COBALT | -- | -- | mg/Kg | 13 | 3.87 | 4.71 | 4.99 | 6.63 | 9.35 | 6.7 |
| 7440-50-8 | COPPER | 50 | 270 | mg/Kg | 17.7 | 12.7 | 15.3 | 24.6 | 13.8 | 24 | 18.7 |
| 7439-89-6 | IRON | -- | -- | mg/Kg | 25700 | 10600 | 12800 | 11500 | 16600 | 18800 | 13800 |
| 7439-92-1 | LEAD | 63 | 1000 | mg/Kg | 4.65 | 1.41 | 1.85 | 3.09 | 2.65 | 3.85 | 2.42 |
| 7439-95-4 | MAGNESIUM | -- | -- | mg/Kg | 5130 | 1300 | 1600 | 1360 | 1130 | 1530 | 2550 |
| 7439-96-5 | MANGANESE | 1600 | 10000 | mg/Kg | 243 J | 96.3 J | 118 J | 90.1 J | 477 J | 481 J | 279 J |
| 7439-97-6 | MERCURY | 0.18 | 2.8 | mg/Kg | ND | ND | 0.003 J | 0.003 J | ND | ND | ND |
| 7440-02-0 | NICKEL | 30 | 310 | mg/Kg | 29.2 | 11.3 | 13.8 | 12.9 | 15.2 | 24.9 | 14.9 |
| 7440-09-7 | POTASSIUM | -- | -- | mg/Kg | 5510 | 1250 | 1530 | 977 | 1140 | 1620 | 2550 |
| 7782-49-2 | SELENIUM | 3.9 | 1500 | mg/Kg | ND | 0.78 | 1.09 | 1.2 | 1.01 | 1.18 | 0.92 |
| 7440-22-4 | SILVER | 2 | 1500 | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 7440-23-5 | SODIUM | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 7440-28-0 | THALLIUM | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 7440-62-2 | VANADIUM | -- | -- | mg/Kg | 40 | 13.2 | 15.9 | 17.6 | 17.4 | 25.5 | 20.6 |
| 7440-66-6 | ZINC | 109 | 10000 | mg/Kg | 53.1 | 14.9 | 18.5 | 17.5 | 20.9 | 25.2 | 24.5 |
| 57-12-5 | CYANIDE | 27 | 27 | mg/Kg | ND | ND | ND | ND | ND | ND | ND |

Exceeds NYSDEC Part 375 Unrestricted Soil Criteria
Exceeds NYSDEC Commercial Soil Criteria

(1) NYSDEC 6 NYCRR Part 375 Environmental Remediation Program (December 2006)
(2) -- indicates no clean up objective or background level is available
(3) NA indicates compound was not analyzed for
(4) ND indicates compound was not detected
(5) J indicates an estimated concentration
(6) R indicates rejected data
(7) Grey shaded values exceed NYSDEC Part 375 Unrestricted Soil Criteria
(8) Orange shaded values exceed NYSDEC Part 375 Commercial Soil Criteria

Table 3
Farrington Street Former MGP Site
Summary of Soil Analytical Data
Consolidated Edison Company of New York

| Consolidated Edison<br>Farrington Street Remedial Investigation<br>2009-2015 Soil Analytical Data<br>Detected Compounds Only | | | | Location ID: | SB-33 | SB-33 | SB-34 | SB-34 | SB-36 | SB-36 | SB-37 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Sample ID: | SB-33(13-18) | SB-33(23-28) | SB-34 (8-13) | SB-34(23-28) | SB-36(12-14) | SB-36(28-30) | SB-37(38-40) |
| | | | | Lab Sample Id | A3439-19 | A3439-20 | A3439-21 | A3439-22 | D1577-01 | D1577-04 | D1616-01 |
| | | | | Depth: | 13 - 18 ft | 23 - 28 ft | 8 - 13 ft | 23 - 28 ft | 12 - 14 ft | 28 - 30 ft | 38 - 40 ft |
| | | | | Source: | Chemtech | Chemtech | Chemtech | Chemtech | CTECH | CTECH | CTECH |
| | | NYSDEC Part 375 Unrestricted Soil Criteria | NYSDEC Part 375 Commercial Soil Criteria | SDG: | A3439 | A3439 | A3439 | A3439 | D1577 | D1577 | D1616 |
| | | | | Matrix: | SOIL | SOIL | SOIL | SOIL | SOIL | SOIL | SOIL |
| | | | | Sampled: | 7/8/2009 0:00 | 7/8/2009 0:00 | 7/8/2009 0:00 | 7/8/2009 0:00 | 2/21/2012 10:05 | 2/21/2012 11:20 | 2/22/2012 9:45 |
| | | | | Validated: | 7/31/2009 | 7/31/2009 | 7/31/2009 | 7/31/2009 | 4/2/2012 | 4/2/2012 | 4/2/2012 |
| CAS NO. | COMPOUND | | | UNITS: | | | | | | | |
| | VOLATILES | | | | | | | | | | |
| 79-34-5 | 1,1,2,2-TETRACHLOROETHANE | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 120-82-1 | 1,2,4-TRICHLOROBENZENE | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 95-50-1 | 1,2-DICHLOROBENZENE | 1.1 | 500 | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 541-73-1 | 1,3-DICHLOROBENZENE | 2.4 | 280 | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 106-46-7 | 1,4-DICHLOROBENZENE | 1.8 | 130 | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 591-78-6 | 2-HEXANONE | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 67-64-1 | ACETONE | 0.05 | 500 | mg/Kg | ND | ND | R | ND | ND | ND | ND |
| 71-43-2 | BENZENE | 0.06 | 44 | mg/Kg | ND | ND | ND | ND | ND | ND | **12** J |
| 75-15-0 | CARBON DISULFIDE | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 108-90-7 | CHLOROBENZENE | 1.1 | 500 | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 67-66-3 | CHLOROFORM | 0.37 | 350 | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 156-59-2 | CIS-1,2-DICHLOROETHYLENE | 0.25 | 500 | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 110-82-7 | CYCLOHEXANE | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 100-41-4 | ETHYLBENZENE | 1 | 390 | mg/Kg | ND | ND | ND | ND | ND | ND | **230** |
| 98-82-8 | ISOPROPYLBENZENE (CUMENE) | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | 13 J |
| XYLMP | M,P-XYLENE (SUM OF ISOMERS) | 0.26 | 500 | mg/Kg | ND | ND | ND | ND | ND | ND | **100** |
| 79-20-9 | METHYL ACETATE | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 78-93-3 | METHYL ETHYL KETONE (2-BUTANONE) | 0.12 | 500 | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 108-10-1 | METHYL ISOBUTYL KETONE | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 108-87-2 | METHYLCYCLOHEXANE | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 75-09-2 | METHYLENE CHLORIDE | 0.05 | 500 | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 95-47-6 | O-XYLENE (1,2-DIMETHYLBENZENE) | 0.26 | 500 | mg/Kg | ND | ND | ND | ND | ND | ND | **63** |
| 100-42-5 | STYRENE | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 1634-04-4 | TERT-BUTYL METHYL ETHER | 0.93 | 500 | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 127-18-4 | TETRACHLOROETHYLENE(PCE) | 1.3 | 150 | mg/Kg | ND | ND | 0.016 J | ND | ND | ND | ND |
| 108-88-3 | TOLUENE | 0.7 | 500 | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 79-01-6 | TRICHLOROETHYLENE (TCE) | 0.47 | 200 | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 95-63-6 | 1,2,4-TRIMETHYLBENZENE | 3.6 | 190 | mg/kg | | | | | ND | ND | **66** |
| 108-67-8 | 1,3,5-TRIMETHYLBENZENE (MESITYLENE) | 8.4 | 190 | mg/kg | | | | | ND | ND | **23** J |
| 103-65-1 | N-PROPYLBENZENE | 3.9 | 500 | mg/kg | | | | | ND | ND | ND |
| 135-98-8 | SEC-BUTYLBENZENE | 11 | 500 | mg/kg | | | | | ND | ND | ND |
| | **TOTAL VOCS** | **--** | **--** | **mg/Kg** | **ND** | **ND** | **0.016** | **ND** | **ND** | **ND** | **507** |

Exceeds NYSDEC Part 375 Unrestricted Soil Criteria
Exceeds NYSDEC Commercial Soil Criteria
(1) NYSDEC 6 NYCRR Part 375 Environmental Remediation Program (December 2006)
(2) -- indicates no clean up objective or background level is available
(3) NA indicates compound was not analyzed for
(4) ND indicates compound was not detected
(5) J indicates an estimated concentration; J+ indicated an estimated concentration biased high.
(6) R indicates rejected data
(7) Grey shaded values exceed NYSDEC Part 375 Unrestricted Soil Criteria
(8) Orange shaded values exceed NYSDEC Part 375 Commercial Soil Criteria

Table 3
Farrington Street Former MGP Site
Summary of Soil Analytical Data
Consolidated Edison Company of New York

| Consolidated Edison<br>Farrington Street Remedial Investigation<br>2009-2015 Soil Analytical Data<br>Detected Compounds Only | | | | Location ID: | SB-33 | SB-33 | SB-34 | SB-34 | SB-36 | SB-36 | SB-37 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Sample ID: | SB-33(13-18) | SB-33(23-28) | SB-34 (8-13) | SB-34(23-28) | SB-36(12-14) | SB-36(28-30) | SB-37(38-40) |
| | | | | Lab Sample Id | A3439-19 | A3439-20 | A3439-21 | A3439-22 | D1577-01 | D1577-04 | D1616-01 |
| | | | | Depth: | 13 - 18 ft | 23 - 28 ft | 8 - 13 ft | 23 - 28 ft | 12 - 14 ft | 28 - 30 ft | 38 - 40 ft |
| | | | | Source: | Chemtech | Chemtech | Chemtech | Chemtech | CTECH | CTECH | CTECH |
| | | NYSDEC Part 375 Unrestricted Soil Criteria | NYSDEC Part 375 Commercial Soil Criteria | SDG: | A3439 | A3439 | A3439 | A3439 | D1577 | D1577 | D1616 |
| | | | | Matrix: | SOIL | SOIL | SOIL | SOIL | SOIL | SOIL | SOIL |
| | | | | Sampled: | 7/8/2009 0:00 | 7/8/2009 0:00 | 7/8/2009 0:00 | 7/8/2009 0:00 | 2/21/2012 10:05 | 2/21/2012 11:20 | 2/22/2012 9:45 |
| | | | | Validated: | 7/31/2009 | 7/31/2009 | 7/31/2009 | 7/31/2009 | 4/2/2012 | 4/2/2012 | 4/2/2012 |
| CAS NO. | COMPOUND | | | UNITS: | | | | | | | |
| | SEMIVOLATILES | | | | | | | | | | |
| 95-94-3 | 1,2,4,5-TETRACHLOROBENZENE | -- | -- | mg/Kg | | | | | | | |
| 58-90-2 | 2,3,4,6-TETRACHLOROPHENOL | -- | -- | mg/kg | | | | | | | |
| 88-06-2 | 2,4,6-TRICHLOROPHENOL | -- | -- | mg/kg | ND | ND | ND | ND | ND | ND | ND |
| 105-67-9 | 2,4-DIMETHYLPHENOL | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 91-57-6 | 2-METHYLNAPHTHALENE | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | 300 |
| 95-48-7 | 2-METHYLPHENOL (O-CRESOL) | 0.33 | 500 | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| MEPH3MEPH | 3- AND 4- METHYLPHENOL (TOTAL) | 0.33 | 500 | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 83-32-9 | ACENAPHTHENE | 20 | 500 | mg/Kg | ND | ND | 1.4 | ND | 0.4 | ND | **200** |
| 208-96-8 | ACENAPHTHYLENE | 100 | 500 | mg/Kg | ND | ND | 0.18 J | ND | ND | ND | 21 |
| 98-86-2 | ACETOPHENONE | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 120-12-7 | ANTHRACENE | 100 | 500 | mg/Kg | ND | ND | 1.1 | ND | 0.46 | ND | 90 |
| 100-52-7 | BENZALDEHYDE | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 56-55-3 | BENZO(A)ANTHRACENE | 1 | 5.6 | mg/Kg | ND | ND | 0.96 | ND | 0.31 J | ND | **72** |
| 50-32-8 | BENZO(A)PYRENE | 1 | 1 | mg/Kg | ND | ND | 0.56 | ND | ND | ND | **48** |
| 205-99-2 | BENZO(B)FLUORANTHENE | 1 | 5.6 | mg/Kg | ND | ND | 0.5 | ND | ND | ND | **39** |
| 191-24-2 | BENZO(G,H,I)PERYLENE | 100 | 500 | mg/Kg | ND | ND | 0.23 J | ND | ND | ND | 23 |
| 207-08-9 | BENZO(K)FLUORANTHENE | 0.8 | 56 | mg/Kg | ND | ND | 0.2 J | ND | ND | ND | **13** |
| 85-68-7 | BENZYL BUTYL PHTHALATE | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 92-52-4 | BIPHENYL (DIPHENYL) | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | 42 |
| 117-81-7 | BIS(2-ETHYLHEXYL) PHTHALATE | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 105-60-2 | CAPROLACTAM | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 86-74-8 | CARBAZOLE | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 218-01-9 | CHRYSENE | 1 | 56 | mg/Kg | ND | ND | 0.93 | ND | 0.41 | ND | **66** |
| 53-70-3 | DIBENZ(A,H)ANTHRACENE | 0.33 | 0.56 | mg/Kg | ND | ND | 0.049 J | ND | ND | ND | **5.3** J |
| 132-64-9 | DIBENZOFURAN | 7 | 350 | mg/Kg | ND | ND | 0.16 J | ND | 0.18 J | ND | **8.8** |
| 84-66-2 | DIETHYL PHTHALATE | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 131-11-3 | DIMETHYL PHTHALATE | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 84-74-2 | DI-N-BUTYL PHTHALATE | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 117-84-0 | DI-N-OCTYLPHTHALATE | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 206-44-0 | FLUORANTHENE | 100 | 500 | mg/Kg | ND | ND | 1.7 | ND | 0.33 J | ND | **110** |
| 86-73-7 | FLUORENE | 30 | 500 | mg/Kg | ND | ND | 0.43 | ND | 0.59 | ND | **85** |
| 193-39-5 | INDENO(1,2,3-C,D)PYRENE | 0.5 | 5.6 | mg/Kg | ND | ND | 0.22 J | ND | ND | ND | **18** |
| 86-30-6 | N-NITROSODIPHENYLAMINE | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 91-20-3 | NAPHTHALENE | 12 | 500 | mg/Kg | ND | ND | ND | ND | ND | ND | **1100** |
| 87-86-5 | PENTACHLOROPHENOL | 0.8 | 6.7 | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 85-01-8 | PHENANTHRENE | 100 | 500 | mg/Kg | ND | ND | 1.1 | ND | 1.8 | ND | **310** |
| 108-95-2 | PHENOL | 0.33 | 500 | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 129-00-0 | PYRENE | 100 | 500 | mg/Kg | ND | ND | 1.8 | ND | 0.75 | ND | **170** |
| | **TOTAL SVOCS** | -- | -- | **mg/kg** | **ND** | **ND** | **11.519** | **ND** | **5.23** | **ND** | **2721.1** |

Exceeds NYSDEC Part 375 Unrestricted Soil Criteria
Exceeds NYSDEC Commercial Soil Criteria
(1) NYSDEC 6 NYCRR Part 375 Environmental Remediation Program (December 2006)
(2) -- indicates no clean up objective or background level is available
(3) NA indicates compound was not analyzed for
(4) ND indicates compound was not detected
(5) J indicates an estimated concentration
(6) R indicates rejected data
(7) Grey shaded values exceed NYSDEC Part 375 Unrestricted Soil Criteria
(8) Orange shaded values exceed NYSDEC Part 375 Commercial Soil Criteria

Table 3
Farrington Street Former MGP Site
Summary of Soil Analytical Data
Consolidated Edison Company of New York

| Consolidated Edison<br>Farrington Street Remedial Investigation<br>2009-2015 Soil Analytical Data<br>Detected Compounds Only | | | | Location ID: | SB-33 | SB-33 | SB-34 | SB-34 | SB-36 | SB-36 | SB-37 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Sample ID: | SB-33(13-18) | SB-33(23-28) | SB-34 (8-13) | SB-34(23-28) | SB-36(12-14) | SB-36(28-30) | SB-37(38-40) |
| | | | | Lab Sample Id | A3439-19 | A3439-20 | A3439-21 | A3439-22 | D1577-01 | D1577-04 | D1616-01 |
| | | | | Depth: | 13 - 18 ft | 23 - 28 ft | 8 - 13 ft | 23 - 28 ft | 12 - 14 ft | 28 - 30 ft | 38 - 40 ft |
| | | | | Source: | Chemtech | Chemtech | Chemtech | Chemtech | CTECH | CTECH | CTECH |
| | | NYSDEC Part 375 Unrestricted Soil Criteria | NYSDEC Part 375 Commercial Soil Criteria | SDG: | A3439 | A3439 | A3439 | A3439 | D1577 | D1577 | D1616 |
| | | | | Matrix: | SOIL | SOIL | SOIL | SOIL | SOIL | SOIL | SOIL |
| | | | | Sampled: | 7/8/2009 0:00 | 7/8/2009 0:00 | 7/8/2009 0:00 | 7/8/2009 0:00 | 2/21/2012 10:05 | 2/21/2012 11:20 | 2/22/2012 9:45 |
| | | | | Validated: | 7/31/2009 | 7/31/2009 | 7/31/2009 | 7/31/2009 | 4/2/2012 | 4/2/2012 | 4/2/2012 |
| CAS NO. | COMPOUND | | | UNITS: | | | | | | | |
| | INORGANICS | | | | | | | | | | |
| 7429-90-5 | ALUMINUM | -- | -- | mg/Kg | 6330 | 6550 | 11300 | 8150 | 5090 | 2780 | 3110 |
| 7440-36-0 | ANTIMONY | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 7440-38-2 | ARSENIC | 13 | 16 | mg/Kg | ND | ND | 0.58 J | ND | ND | ND | 1.27 |
| 7440-39-3 | BARIUM | 350 | 400 | mg/Kg | 76.3 J | 70.4 J | 39.9 J | 104 J | 37 | 29.2 | 28.5 |
| 7440-41-7 | BERYLLIUM | 7.2 | 590 | mg/Kg | 0.39 | 0.65 | 0.36 | 0.27 | 0.23 J | 0.09 J | ND |
| 7440-43-9 | CADMIUM | 2.5 | 9.3 | mg/Kg | 0.56 | 0.79 | 0.45 | 0.59 | ND | ND | 0.38 |
| 7440-70-2 | CALCIUM | -- | -- | mg/Kg | 945 | 2240 | 1110 | 1130 | 1090 J | 756 J | 640 J |
| 7440-47-3 | CHROMIUM, TOTAL | 30 | 1500 | mg/Kg | 23.6 | 22.6 | 17.7 | 28 | 17.2 J | 10.6 J | 14 J |
| 7440-48-4 | COBALT | -- | -- | mg/Kg | 8.17 | 10.9 | 3.68 | 8.75 | 4.76 | 3.67 | 3.81 |
| 7440-50-8 | COPPER | 50 | 270 | mg/Kg | 17.7 | 27.3 | 12.4 | 17.1 | 20 J | 9.48 J | 8.33 |
| 7439-89-6 | IRON | -- | -- | mg/Kg | 17300 | 22200 | 16800 | 14700 | 16000 J | 10100 J | 10300 |
| 7439-92-1 | LEAD | 63 | 1000 | mg/Kg | 4.74 | 8.43 | 10.4 | 2.9 | 2.8 | 1.5 | 1.32 |
| 7439-95-4 | MAGNESIUM | -- | -- | mg/Kg | 2770 | 3980 | 2090 | 3910 | 1640 | 1160 | 1270 |
| 7439-96-5 | MANGANESE | 1600 | 10000 | mg/Kg | 288 J | 398 J | 127 J | 633 J | 109 | 71.2 | 92.8 |
| 7439-97-6 | MERCURY | 0.18 | 2.8 | mg/Kg | ND | 0.005 J | 0.013 | 0.008 J | ND | 0.012 J | ND |
| 7440-02-0 | NICKEL | 30 | 310 | mg/Kg | 20 | 22 | 8.81 | **52.3** | 14.4 | 10.7 | 9.03 |
| 7440-09-7 | POTASSIUM | -- | -- | mg/Kg | 2340 | 2260 | 562 | 3130 | 1230 | 943 | 937 |
| 7782-49-2 | SELENIUM | 3.9 | 1500 | mg/Kg | 0.98 | 1.12 | 1.4 | 0.98 | 1.86 | 1.12 | 0.968 J |
| 7440-22-4 | SILVER | 2 | 1500 | mg/Kg | ND | ND | ND | ND | ND | ND | 0.477 J |
| 7440-23-5 | SODIUM | -- | -- | mg/Kg | ND | ND | ND | 1210 J | 159 J | 93.5 J | ND |
| 7440-28-0 | THALLIUM | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 7440-62-2 | VANADIUM | -- | -- | mg/Kg | 25.9 | 28.1 | 26.7 | 25.7 | 19.1 | 12.9 | 9.97 |
| 7440-66-6 | ZINC | 109 | 10000 | mg/Kg | 34.5 | 48 | 28 | 31 | 31.4 | 18.2 | ND |
| 57-12-5 | CYANIDE | 27 | 27 | mg/Kg | ND | 4.17 | ND | ND | 0.195 J | ND | ND |

Exceeds NYSDEC Part 375 Unrestricted Soil Criteria
Exceeds NYSDEC Commercial Soil Criteria

(1) NYSDEC 6 NYCRR Part 375 Environmental Remediation Program (December 2006)
(2) -- indicates no clean up objective or background level is available
(3) NA indicates compound was not analyzed for
(4) ND indicates compound was not detected
(5) J indicates an estimated concentration
(6) R indicates rejected data
(7) Grey shaded values exceed NYSDEC Part 375 Unrestricted Soil Criteria
(8) Orange shaded values exceed NYSDEC Part 375 Commercial Soil Criteria

Table 3
Farrington Street Former MGP Site
Summary of Soil Analytical Data
Consolidated Edison Company of New York

| Consolidated Edison<br>Farrington Street Remedial Investigation<br>2009-2015 Soil Analytical Data<br>Detected Compounds Only | | | | | Dup of SB-37(38-40) | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Location ID: | SB-37 | SB-37 | SB-38 | SB-38 | SB-39 | SB-39 | SB-40 |
| | | | | Sample ID: | SB-37A(38-40) | SB-37(48-50) | SB-38(15-17) | SB-38(43-45) | SB-39(13-15) | SB-39(35-37) | SB-40(15-17) |
| | | | | Lab Sample Id | D1616-02 | D1616-03 | C3954-03 | C3954-04 | C3954-14 | C3954-15 | C3954-20 |
| | | | | Depth: | 38 - 40 ft | 48 - 50 ft | 15 - 17 ft | 43 - 45 ft | 13 - 15 ft | 35 - 37 ft | 15 - 17 ft |
| | | | | Source: | CTECH | CTECH | CTECH | CTECH | CTECH | CTECH | CTECH |
| | | NYSDEC Part 375 Unrestricted Soil Criteria | NYSDEC Part 375 Commercial Soil Criteria | SDG: | D1616 | D1616 | C3954 | C3954 | C3954 | C3954 | C3954 |
| | | | | Matrix: | SOIL | SOIL | SOIL | SOIL | SOIL | SOIL | SOIL |
| | | | | Sampled: | 2/22/2012 9:50 | 2/22/2012 10:45 | 9/30/2011 9:10 | 9/30/2011 2:30 | 9/26/2011 10:20 | 9/26/2011 2:30 | 9/29/2011 10:15 |
| | | | | Validated: | 4/2/2012 | 4/2/2012 | 1/23/2012 | 1/23/2012 | 1/23/2012 | 1/23/2012 | 1/23/2012 |
| CAS NO. | COMPOUND | | | UNITS: | | | | | | | |
| | VOLATILES | | | | | | | | | | |
| 79-34-5 | 1,1,2,2-TETRACHLOROETHANE | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 120-82-1 | 1,2,4-TRICHLOROBENZENE | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 95-50-1 | 1,2-DICHLOROBENZENE | 1.1 | 500 | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 541-73-1 | 1,3-DICHLOROBENZENE | 2.4 | 280 | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 106-46-7 | 1,4-DICHLOROBENZENE | 1.8 | 130 | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 591-78-6 | 2-HEXANONE | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 67-64-1 | ACETONE | 0.05 | 500 | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 71-43-2 | BENZENE | 0.06 | 44 | mg/Kg | **13** J | ND | **16** | ND | **13** | ND | ND |
| 75-15-0 | CARBON DISULFIDE | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 108-90-7 | CHLOROBENZENE | 1.1 | 500 | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 67-66-3 | CHLOROFORM | 0.37 | 350 | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 156-59-2 | CIS-1,2-DICHLOROETHYLENE | 0.25 | 500 | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 110-82-7 | CYCLOHEXANE | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 100-41-4 | ETHYLBENZENE | 1 | 390 | mg/Kg | **270** | ND | **23** | ND | **47** | ND | **1.2** |
| 98-82-8 | ISOPROPYLBENZENE (CUMENE) | -- | -- | mg/Kg | 15 J | ND | 2.7 J | ND | 6.2 J | ND | 0.35 J |
| XYLMP | M,P-XYLENE (SUM OF ISOMERS) | 0.26 | 500 | mg/Kg | **110** | ND | ND | ND | ND | ND | ND |
| 79-20-9 | METHYL ACETATE | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 78-93-3 | METHYL ETHYL KETONE (2-BUTANONE) | 0.12 | 500 | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 108-10-1 | METHYL ISOBUTYL KETONE | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 108-87-2 | METHYLCYCLOHEXANE | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 75-09-2 | METHYLENE CHLORIDE | 0.05 | 500 | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 95-47-6 | O-XYLENE (1,2-DIMETHYLBENZENE) | 0.26 | 500 | mg/Kg | **66** | ND | **8.9** | ND | **6.5** | ND | ND |
| 100-42-5 | STYRENE | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 1634-04-4 | TERT-BUTYL METHYL ETHER | 0.93 | 500 | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 127-18-4 | TETRACHLOROETHYLENE(PCE) | 1.3 | 150 | mg/Kg | ND | ND | ND | 0.0027 J | ND | ND | ND |
| 108-88-3 | TOLUENE | 0.7 | 500 | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 79-01-6 | TRICHLOROETHYLENE (TCE) | 0.47 | 200 | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 95-63-6 | 1,2,4-TRIMETHYLBENZENE | 3.6 | 190 | mg/kg | **71** | ND | | | | | |
| 108-67-8 | 1,3,5-TRIMETHYLBENZENE (MESITYLENE) | 8.4 | 190 | mg/kg | **27** J | ND | | | | | |
| 103-65-1 | N-PROPYLBENZENE | 3.9 | 500 | mg/kg | ND | ND | | | | | |
| 135-98-8 | SEC-BUTYLBENZENE | 11 | 500 | mg/kg | ND | ND | | | | | |
| | **TOTAL VOCS** | **--** | **--** | **mg/Kg** | **572** | **ND** | **50.6** | **0.0027** | **72.7** | **ND** | **1.55** |

Exceeds NYSDEC Part 375 Unrestricted Soil Criteria
Exceeds NYSDEC Commercial Soil Criteria
(1) NYSDEC 6 NYCRR Part 375 Environmental Remediation Program (December 2006)
(2) -- indicates no clean up objective or background level is available
(3) NA indicates compound was not analyzed for
(4) ND indicates compound was not detected
(5) J indicates an estimated concentration; J+ indicated an estimated concentration biased high.
(6) R indicates rejected data
(7) Grey shaded values exceed NYSDEC Part 375 Unrestricted Soil Criteria
(8) Orange shaded values exceed NYSDEC Part 375 Commercial Soil Criteria

Table 3
Farrington Street Former MGP Site
Summary of Soil Analytical Data
Consolidated Edison Company of New York

| Consolidated Edison<br>Farrington Street Remedial Investigation<br>2009-2015 Soil Analytical Data<br>Detected Compounds Only | | | | Location ID:<br>Sample ID:<br>Lab Sample Id<br>Depth:<br>Source:<br>SDG:<br>Matrix:<br>Sampled:<br>Validated: | SB-37<br>SB-37A(38-40)<br>D1616-02<br>38 - 40 ft<br>CTECH<br>D1616<br>SOIL<br>2/22/2012 9:50<br>4/2/2012 | Dup of SB-37(38-40)<br>SB-37<br>SB-37(48-50)<br>D1616-03<br>48 - 50 ft<br>CTECH<br>D1616<br>SOIL<br>2/22/2012 10:45<br>4/2/2012 | SB-38<br>SB-38(15-17)<br>C3954-03<br>15 - 17 ft<br>CTECH<br>C3954<br>SOIL<br>9/30/2011 9:10<br>1/23/2012 | SB-38<br>SB-38(43-45)<br>C3954-04<br>43 - 45 ft<br>CTECH<br>C3954<br>SOIL<br>9/30/2011 2:30<br>1/23/2012 | SB-39<br>SB-39(13-15)<br>C3954-14<br>13 - 15 ft<br>CTECH<br>C3954<br>SOIL<br>9/26/2011 10:20<br>1/23/2012 | SB-39<br>SB-39(35-37)<br>C3954-15<br>35 - 37 ft<br>CTECH<br>C3954<br>SOIL<br>9/26/2011 2:30<br>1/23/2012 | SB-40<br>SB-40(15-17)<br>C3954-20<br>15 - 17 ft<br>CTECH<br>C3954<br>SOIL<br>9/29/2011 10:15<br>1/23/2012 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| CAS NO. | COMPOUND | NYSDEC Part 375 Unrestricted Soil Criteria | NYSDEC Part 375 Commercial Soil Criteria | UNITS: | | | | | | | |
| | SEMIVOLATILES | | | | | | | | | | |
| 95-94-3 | 1,2,4,5-TETRACHLOROBENZENE | -- | -- | mg/Kg | | | | | | | |
| 58-90-2 | 2,3,4,6-TETRACHLOROPHENOL | -- | -- | mg/kg | | | | | | | |
| 88-06-2 | 2,4,6-TRICHLOROPHENOL | -- | -- | mg/kg | ND | ND | ND | ND | ND | ND | ND |
| 105-67-9 | 2,4-DIMETHYLPHENOL | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 91-57-6 | 2-METHYLNAPHTHALENE | -- | -- | mg/Kg | 370 | 0.32 J | 150 | ND | 180 | ND | 220 |
| 95-48-7 | 2-METHYLPHENOL (O-CRESOL) | 0.33 | 500 | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| MEPH3MEPH | 3- AND 4- METHYLPHENOL (TOTAL) | 0.33 | 500 | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 83-32-9 | ACENAPHTHENE | 20 | 500 | mg/Kg | **220** | 0.25 J | **120** | ND | **130** | ND | **170** |
| 208-96-8 | ACENAPHTHYLENE | 100 | 500 | mg/Kg | 21 | ND | 6.4 | ND | 7.7 | ND | 18 |
| 98-86-2 | ACETOPHENONE | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 120-12-7 | ANTHRACENE | 100 | 500 | mg/Kg | 100 | ND | 55 | ND | 50 | ND | 92 |
| 100-52-7 | BENZALDEHYDE | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 56-55-3 | BENZO(A)ANTHRACENE | 1 | 5.6 | mg/Kg | **80** | ND | **34** | ND | **29** | ND | **71** |
| 50-32-8 | BENZO(A)PYRENE | 1 | 1 | mg/Kg | **55** | ND | **21** | ND | **20** | ND | **48** |
| 205-99-2 | BENZO(B)FLUORANTHENE | 1 | 5.6 | mg/Kg | **39** | ND | **18** | ND | **17** | ND | **39** |
| 191-24-2 | BENZO(G,H,I)PERYLENE | 100 | 500 | mg/Kg | 24 | ND | 8.4 | ND | 7.7 | ND | 19 |
| 207-08-9 | BENZO(K)FLUORANTHENE | 0.8 | 56 | mg/Kg | **14** | ND | **4.5** J | ND | **4.2** J | ND | **16** |
| 85-68-7 | BENZYL BUTYL PHTHALATE | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 92-52-4 | BIPHENYL (DIPHENYL) | -- | -- | mg/Kg | 44 | ND | 24 | ND | 25 | ND | 16 |
| 117-81-7 | BIS(2-ETHYLHEXYL) PHTHALATE | -- | -- | mg/Kg | ND | ND | ND | 0.21 J | ND | ND | ND |
| 105-60-2 | CAPROLACTAM | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 86-74-8 | CARBAZOLE | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 218-01-9 | CHRYSENE | 1 | 56 | mg/Kg | **72** | ND | **29** | ND | **28** | ND | **65** |
| 53-70-3 | DIBENZ(A,H)ANTHRACENE | 0.33 | 0.56 | mg/Kg | **4.9** J | ND | ND | ND | ND | ND | ND |
| 132-64-9 | DIBENZOFURAN | 7 | 350 | mg/Kg | **9.2** | ND | **8.2** | ND | **8.9** | ND | **10** J |
| 84-66-2 | DIETHYL PHTHALATE | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 131-11-3 | DIMETHYL PHTHALATE | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 84-74-2 | DI-N-BUTYL PHTHALATE | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 117-84-0 | DI-N-OCTYLPHTHALATE | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 206-44-0 | FLUORANTHENE | 100 | 500 | mg/Kg | **120** | ND | 55 | ND | 48 | ND | **120** |
| 86-73-7 | FLUORENE | 30 | 500 | mg/Kg | **97** | ND | **53** | ND | **62** | ND | **91** |
| 193-39-5 | INDENO(1,2,3-C,D)PYRENE | 0.5 | 5.6 | mg/Kg | **20** | ND | **6.9** | ND | **6.3** | ND | **16** |
| 86-30-6 | N-NITROSODIPHENYLAMINE | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 91-20-3 | NAPHTHALENE | 12 | 500 | mg/Kg | **1300** | 1.4 | **600** | ND | **590** | ND | **800** |
| 87-86-5 | PENTACHLOROPHENOL | 0.8 | 6.7 | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 85-01-8 | PHENANTHRENE | 100 | 500 | mg/Kg | **360** | 0.42 | **160** | ND | **180** | ND | **340** |
| 108-95-2 | PHENOL | 0.33 | 500 | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 129-00-0 | PYRENE | 100 | 500 | mg/Kg | **180** | 0.24 J | 70 | ND | 74 | ND | **150** |
| | **TOTAL SVOCS** | -- | -- | **mg/kg** | **3130.1** | **2.63** | **1423.4** | **0.21** | **1467.8** | **ND** | **2301** |

Exceeds NYSDEC Part 375 Unrestricted Soil Criteria
Exceeds NYSDEC Commercial Soil Criteria
(1) NYSDEC 6 NYCRR Part 375 Environmental Remediation Program (December 2006)
(2) -- indicates no clean up objective or background level is available
(3) NA indicates compound was not analyzed for
(4) ND indicates compound was not detected
(5) J indicates an estimated concentration
(6) R indicates rejected data
(7) Grey shaded values exceed NYSDEC Part 375 Unrestricted Soil Criteria
(8) Orange shaded values exceed NYSDEC Part 375 Commercial Soil Criteria

Table 3
Farrington Street Former MGP Site
Summary of Soil Analytical Data
Consolidated Edison Company of New York

| Consolidated Edison<br>Farrington Street Remedial Investigation<br>2009-2015 Soil Analytical Data<br>Detected Compounds Only | | | | | Dup of SB-37(38-40) | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Location ID: | SB-37 | SB-37 | SB-38 | SB-38 | SB-39 | SB-39 | SB-40 |
| | | | | Sample ID: | SB-37A(38-40) | SB-37(48-50) | SB-38(15-17) | SB-38(43-45) | SB-39(13-15) | SB-39(35-37) | SB-40(15-17) |
| | | | | Lab Sample Id | D1616-02 | D1616-03 | C3954-03 | C3954-04 | C3954-14 | C3954-15 | C3954-20 |
| | | | | Depth: | 38 - 40 ft | 48 - 50 ft | 15 - 17 ft | 43 - 45 ft | 13 - 15 ft | 35 - 37 ft | 15 - 17 ft |
| | | | | Source: | CTECH | CTECH | CTECH | CTECH | CTECH | CTECH | CTECH |
| | | NYSDEC Part 375 Unrestricted Soil Criteria | NYSDEC Part 375 Commercial Soil Criteria | SDG: | D1616 | D1616 | C3954 | C3954 | C3954 | C3954 | C3954 |
| | | | | Matrix: | SOIL | SOIL | SOIL | SOIL | SOIL | SOIL | SOIL |
| | | | | Sampled: | 2/22/2012 9:50 | 2/22/2012 10:45 | 9/30/2011 9:10 | 9/30/2011 2:30 | 9/26/2011 10:20 | 9/26/2011 2:30 | 9/29/2011 10:15 |
| | | | | Validated: | 4/2/2012 | 4/2/2012 | 1/23/2012 | 1/23/2012 | 1/23/2012 | 1/23/2012 | 1/23/2012 |
| CAS NO. | COMPOUND | | | UNITS: | | | | | | | |
| | INORGANICS | | | | | | | | | | |
| 7429-90-5 | ALUMINUM | -- | -- | mg/Kg | 2960 | 4470 | 2860 | 3010 | 3740 | 4930 | 2820 |
| 7440-36-0 | ANTIMONY | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 7440-38-2 | ARSENIC | 13 | 16 | mg/Kg | 1.18 | 1.88 | ND | ND | 1.42 | 2.79 | 0.36 J |
| 7440-39-3 | BARIUM | 350 | 400 | mg/Kg | 26.5 | 32.8 | 32.4 J | 39 J | 44.3 J | 90.4 J | 27.2 J |
| 7440-41-7 | BERYLLIUM | 7.2 | 590 | mg/Kg | ND | 0.151 J | 0.1 J | 0.12 J | 0.15 J | 0.29 J | 0.1 J |
| 7440-43-9 | CADMIUM | 2.5 | 9.3 | mg/Kg | 0.373 | 0.616 | ND | ND | 0.2 J | 0.26 J | ND |
| 7440-70-2 | CALCIUM | -- | -- | mg/Kg | 636 J | 636 J | 876 J | 519 J | 8320 J | 1100 J | 839 J |
| 7440-47-3 | CHROMIUM, TOTAL | 30 | 1500 | mg/Kg | 12.8 J | 17.8 J | 8.55 J | 9.76 J | 9.68 J | 17.3 J | 10.4 J |
| 7440-48-4 | COBALT | -- | -- | mg/Kg | 3.51 | 6.45 | 3.13 | 2.9 | 4.6 | 10.9 | 3.79 |
| 7440-50-8 | COPPER | 50 | 270 | mg/Kg | 8.56 | 9.28 | 9.14 | 6.11 | 21.2 | 16.5 | 8.15 |
| 7439-89-6 | IRON | -- | -- | mg/Kg | 10200 | 16600 | 9820 | 8260 | 9050 | 22300 | 8640 |
| 7439-92-1 | LEAD | 63 | 1000 | mg/Kg | 1.1 | 1.92 | 2.14 | 1.95 | 60.1 | 5.28 | 1.58 |
| 7439-95-4 | MAGNESIUM | -- | -- | mg/Kg | 1290 | 1640 | 1110 | 1380 | 1850 | 1970 | 1050 |
| 7439-96-5 | MANGANESE | 1600 | 10000 | mg/Kg | 84.7 | 179 | 180 | 111 | 126 | 1210 | 139 |
| 7439-97-6 | MERCURY | 0.18 | 2.8 | mg/Kg | ND | ND | 0.009 J | 0.006 J | 0.113 | 0.009 J | 0.004 J |
| 7440-02-0 | NICKEL | 30 | 310 | mg/Kg | 9.48 | 11.4 | 8.07 | 8.19 | 10.2 | 17.6 | 12.9 |
| 7440-09-7 | POTASSIUM | -- | -- | mg/Kg | 917 | 1190 | 1250 J | 1280 J | 1230 J | 1660 J | 703 J |
| 7782-49-2 | SELENIUM | 3.9 | 1500 | mg/Kg | 1.04 | 1.8 | ND | ND | ND | ND | ND |
| 7440-22-4 | SILVER | 2 | 1500 | mg/Kg | 0.476 | 0.792 | 0.23 J | 0.21 J | 0.18 J | 0.45 J | 0.2 J |
| 7440-23-5 | SODIUM | -- | -- | mg/Kg | ND | ND | 102 | 125 | 90.1 | 131 | 95.3 |
| 7440-28-0 | THALLIUM | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 7440-62-2 | VANADIUM | -- | -- | mg/Kg | 9.27 | 18.2 | 11.6 | 11.1 | 12.4 | 19.4 | 11.1 |
| 7440-66-6 | ZINC | 109 | 10000 | mg/Kg | ND | 22.5 | 19.8 | 19.7 | 46.6 | 45.7 | 15.9 |
| 57-12-5 | CYANIDE | 27 | 27 | mg/Kg | ND | ND | ND | 0.051 J | 0.175 J | 0.055 J | 0.453 |

Exceeds NYSDEC Part 375 Unrestricted Soil Criteria
Exceeds NYSDEC Commercial Soil Criteria

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Table 3
Farrington Street Former MGP Site
Summary of Soil Analytical Data
Consolidated Edison Company of New York

| Consolidated Edison<br>Farrington Street Remedial Investigation<br>2009-2015 Soil Analytical Data<br>Detected Compounds Only | | | | Location ID: | SB-40 | SB-41 | Dup of SB-41(13-15) SB-41 | SB-41 | SB-42 | SB-42 | Dup of SB-42(14-16) SB-42 | SB-42 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Sample ID: | SB-40(39-41) | SB-41(13-15) | SB-41A(13-15) | SB-41(33-35) | SB-42(14-16) | SB-42A(14-16) | | SB-42(22-24) |
| | | | | Lab Sample Id | C3954-24 | C3954-11 | C3954-13 | C3954-12 | C3954-06 | C3954-07 | | C3954-08 |
| | | | | Depth: | 39 - 41 ft | 13 - 15 ft | 13 - 15 ft | 33 - 35 ft | 14 - 16 ft | 14 - 16 ft | | 22 - 24 ft |
| | | | | Source: | CTECH | CTECH | CTECH | CTECH | CTECH | CTECH | | CTECH |
| | | NYSDEC Part 375 Unrestricted Soil Criteria | NYSDEC Part 375 Commercial Soil Criteria | SDG: | C3954 | C3954 | C3954 | C3954 | C3954 | C3954 | | C3954 |
| | | | | Matrix: | SOIL | SOIL | SOIL | SOIL | SOIL | SOIL | | SOIL |
| | | | | Sampled: | 9/29/2011 2:00 | 9/26/2011 10:35 | 9/26/2011 10:35 | 9/26/2011 1:30 | 9/29/2011 2:50 | 9/29/2011 3:00 | | 9/30/2011 9:15 |
| | | | | Validated: | 1/23/2012 | 1/23/2012 | 1/23/2012 | 1/23/2012 | 1/23/2012 | 1/23/2012 | | 1/23/2012 |
| CAS NO. | COMPOUND | | | UNITS: | | | | | | | | |
| | VOLATILES | | | | | | | | | | | |
| 79-34-5 | 1,1,2,2-TETRACHLOROETHANE | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | | ND |
| 120-82-1 | 1,2,4-TRICHLOROBENZENE | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | | ND |
| 95-50-1 | 1,2-DICHLOROBENZENE | 1.1 | 500 | mg/Kg | ND | ND | ND | ND | ND | ND | | ND |
| 541-73-1 | 1,3-DICHLOROBENZENE | 2.4 | 280 | mg/Kg | ND | ND | ND | ND | ND | ND | | ND |
| 106-46-7 | 1,4-DICHLOROBENZENE | 1.8 | 130 | mg/Kg | ND | ND | ND | ND | ND | ND | | ND |
| 591-78-6 | 2-HEXANONE | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | | ND |
| 67-64-1 | ACETONE | 0.05 | 500 | mg/Kg | R | ND | ND | ND | ND | ND | | ND |
| 71-43-2 | BENZENE | 0.06 | 44 | mg/Kg | ND | **6.8** | **10** | ND | **1.5** J | ND | | **2.5** |
| 75-15-0 | CARBON DISULFIDE | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | | ND |
| 108-90-7 | CHLOROBENZENE | 1.1 | 500 | mg/Kg | ND | ND | ND | ND | ND | ND | | ND |
| 67-66-3 | CHLOROFORM | 0.37 | 350 | mg/Kg | ND | ND | ND | ND | ND | ND | | ND |
| 156-59-2 | CIS-1,2-DICHLOROETHYLENE | 0.25 | 500 | mg/Kg | ND | ND | ND | ND | ND | ND | | ND |
| 110-82-7 | CYCLOHEXANE | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | | ND |
| 100-41-4 | ETHYLBENZENE | 1 | 390 | mg/Kg | ND | **12** | **16** | ND | **31** | **46** | | **9** |
| 98-82-8 | ISOPROPYLBENZENE (CUMENE) | -- | -- | mg/Kg | ND | 4.9 J | 5.6 J | ND | 3.6 | 5.2 J | | 2.3 |
| XYLMP | M,P-XYLENE (SUM OF ISOMERS) | 0.26 | 500 | mg/Kg | ND | **2.8** J | **3.8** J | ND | ND | ND | | ND |
| 79-20-9 | METHYL ACETATE | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | | ND |
| 78-93-3 | METHYL ETHYL KETONE (2-BUTANONE) | 0.12 | 500 | mg/Kg | ND | ND | ND | ND | ND | ND | | ND |
| 108-10-1 | METHYL ISOBUTYL KETONE | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | | ND |
| 108-87-2 | METHYLCYCLOHEXANE | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | | ND |
| 75-09-2 | METHYLENE CHLORIDE | 0.05 | 500 | mg/Kg | ND | ND | ND | ND | ND | ND | | ND |
| 95-47-6 | O-XYLENE (1,2-DIMETHYLBENZENE) | 0.26 | 500 | mg/Kg | ND | **6.7** | **8** | ND | **2.6** J | **3.6** J | | **2.1** |
| 100-42-5 | STYRENE | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | | ND |
| 1634-04-4 | TERT-BUTYL METHYL ETHER | 0.93 | 500 | mg/Kg | ND | ND | ND | ND | ND | ND | | ND |
| 127-18-4 | TETRACHLOROETHYLENE(PCE) | 1.3 | 150 | mg/Kg | ND | ND | ND | ND | ND | ND | | ND |
| 108-88-3 | TOLUENE | 0.7 | 500 | mg/Kg | ND | ND | ND | ND | ND | ND | | ND |
| 79-01-6 | TRICHLOROETHYLENE (TCE) | 0.47 | 200 | mg/Kg | ND | ND | ND | ND | ND | ND | | ND |
| 95-63-6 | 1,2,4-TRIMETHYLBENZENE | 3.6 | 190 | mg/kg | | | | | | | | |
| 108-67-8 | 1,3,5-TRIMETHYLBENZENE (MESITYLENE) | 8.4 | 190 | mg/kg | | | | | | | | |
| 103-65-1 | N-PROPYLBENZENE | 3.9 | 500 | mg/kg | | | | | | | | |
| 135-98-8 | SEC-BUTYLBENZENE | 11 | 500 | mg/kg | | | | | | | | |
| | **TOTAL VOCS** | **--** | **--** | **mg/Kg** | **ND** | **33.2** | **43.4** | **ND** | **38.7** | **54.8** | | **15.9** |

Exceeds NYSDEC Part 375 Unrestricted Soil Criteria
Exceeds NYSDEC Commercial Soil Criteria
(1) NYSDEC 6 NYCRR Part 375 Environmental Remediation Program (December 2006)
(2) -- indicates no clean up objective or background level is available
(3) NA indicates compound was not analyzed for
(4) ND indicates compound was not detected
(5) J indicates an estimated concentration; J+ indicated an estimated concentration biased high.
(6) R indicates rejected data
(7) Grey shaded values exceed NYSDEC Part 375 Unrestricted Soil Criteria
(8) Orange shaded values exceed NYSDEC Part 375 Commercial Soil Criteria

Table 3
Farrington Street Former MGP Site
Summary of Soil Analytical Data
Consolidated Edison Company of New York

| Consolidated Edison<br>Farrington Street Remedial Investigation<br>2009-2015 Soil Analytical Data<br>Detected Compounds Only | | | | Location ID: | SB-40 | SB-41 | SB-41<br>Dup of<br>SB-41(13-15) | SB-41 | SB-42 | SB-42<br>Dup of<br>SB-42(14-16) | SB-42 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Sample ID: | SB-40(39-41) | SB-41(13-15) | SB-41A(13-15) | SB-41(33-35) | SB-42(14-16) | SB-42A(14-16) | SB-42(22-24) |
| | | | | Lab Sample Id | C3954-24 | C3954-11 | C3954-13 | C3954-12 | C3954-06 | C3954-07 | C3954-08 |
| | | | | Depth: | 39 - 41 ft | 13 - 15 ft | 13 - 15 ft | 33 - 35 ft | 14 - 16 ft | 14 - 16 ft | 22 - 24 ft |
| | | | | Source: | CTECH | CTECH | CTECH | CTECH | CTECH | CTECH | CTECH |
| | | NYSDEC Part 375 Unrestricted Soil Criteria | NYSDEC Part 375 Commercial Soil Criteria | SDG: | C3954 | C3954 | C3954 | C3954 | C3954 | C3954 | C3954 |
| | | | | Matrix: | SOIL | SOIL | SOIL | SOIL | SOIL | SOIL | SOIL |
| | | | | Sampled: | 9/29/2011 2:00 | 9/26/2011 10:35 | 9/26/2011 10:35 | 9/26/2011 1:30 | 9/29/2011 2:50 | 9/29/2011 3:00 | 9/30/2011 9:15 |
| | | | | Validated: | 1/23/2012 | 1/23/2012 | 1/23/2012 | 1/23/2012 | 1/23/2012 | 1/23/2012 | 1/23/2012 |
| CAS NO. | COMPOUND | | | UNITS: | | | | | | | |
| | SEMIVOLATILES | | | | | | | | | | |
| 95-94-3 | 1,2,4,5-TETRACHLOROBENZENE | -- | -- | mg/Kg | | | | | | | |
| 58-90-2 | 2,3,4,6-TETRACHLOROPHENOL | -- | -- | mg/kg | | | | | | | |
| 88-06-2 | 2,4,6-TRICHLOROPHENOL | -- | -- | mg/kg | ND | ND | ND | ND | ND | ND | ND |
| 105-67-9 | 2,4-DIMETHYLPHENOL | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 91-57-6 | 2-METHYLNAPHTHALENE | -- | -- | mg/Kg | ND | 120 | 150 | ND | 350 | 440 | 270 |
| 95-48-7 | 2-METHYLPHENOL (O-CRESOL) | 0.33 | 500 | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| MEPH3MEPH | 3- AND 4- METHYLPHENOL (TOTAL) | 0.33 | 500 | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 83-32-9 | ACENAPHTHENE | 20 | 500 | mg/Kg | ND | **42** | **56** | ND | **180** | **260** | **230** |
| 208-96-8 | ACENAPHTHYLENE | 100 | 500 | mg/Kg | ND | 3.4 | 4.1 | ND | 19 | 22 | 27 J |
| 98-86-2 | ACETOPHENONE | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 120-12-7 | ANTHRACENE | 100 | 500 | mg/Kg | ND | 21 | 24 | ND | 86 | **120** | 98 J |
| 100-52-7 | BENZALDEHYDE | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 56-55-3 | BENZO(A)ANTHRACENE | 1 | 5.6 | mg/Kg | ND | **14** | **17** | ND | **57** | **68** | **78** J |
| 50-32-8 | BENZO(A)PYRENE | 1 | 1 | mg/Kg | ND | **7.6** | **9.7** | ND | **39** | **47** | **51** J |
| 205-99-2 | BENZO(B)FLUORANTHENE | 1 | 5.6 | mg/Kg | ND | **5.9** | **8.2** | ND | **35** | **43** | **44** J |
| 191-24-2 | BENZO(G,H,I)PERYLENE | 100 | 500 | mg/Kg | ND | 3.1 | 3.8 | ND | 16 | 20 | 21 J |
| 207-08-9 | BENZO(K)FLUORANTHENE | 0.8 | 56 | mg/Kg | ND | **2.3** | **2** | ND | **9.1** | **10** J | **11** J |
| 85-68-7 | BENZYL BUTYL PHTHALATE | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 92-52-4 | BIPHENYL (DIPHENYL) | -- | -- | mg/Kg | ND | 12 | 15 | ND | 44 | 58 | 48 J |
| 117-81-7 | BIS(2-ETHYLHEXYL) PHTHALATE | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 105-60-2 | CAPROLACTAM | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 86-74-8 | CARBAZOLE | -- | -- | mg/Kg | ND | ND | ND | ND | 6.6 | 9.1 J | ND |
| 218-01-9 | CHRYSENE | 1 | 56 | mg/Kg | ND | **12** | **15** | ND | **57** | **64** | **72** J |
| 53-70-3 | DIBENZ(A,H)ANTHRACENE | 0.33 | 0.56 | mg/Kg | ND | **0.78** J | **0.9** J | ND | **3.3** J | ND | ND |
| 132-64-9 | DIBENZOFURAN | 7 | 350 | mg/Kg | ND | 2.9 | 3.6 | ND | **17** | **23** | **16** J |
| 84-66-2 | DIETHYL PHTHALATE | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 131-11-3 | DIMETHYL PHTHALATE | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 84-74-2 | DI-N-BUTYL PHTHALATE | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 117-84-0 | DI-N-OCTYLPHTHALATE | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 206-44-0 | FLUORANTHENE | 100 | 500 | mg/Kg | ND | 21 | 25 | ND | **110** | **140** | **140** |
| 86-73-7 | FLUORENE | 30 | 500 | mg/Kg | ND | 22 | 27 | ND | **98** | **140** | **120** |
| 193-39-5 | INDENO(1,2,3-C,D)PYRENE | 0.5 | 5.6 | mg/Kg | ND | **3** | **3.9** | ND | **14** | **17** | **16** J |
| 86-30-6 | N-NITROSODIPHENYLAMINE | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 91-20-3 | NAPHTHALENE | 12 | 500 | mg/Kg | ND | **210** | **330** | ND | **920** | **1500** | **920** |
| 87-86-5 | PENTACHLOROPHENOL | 0.8 | 6.7 | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 85-01-8 | PHENANTHRENE | 100 | 500 | mg/Kg | ND | 76 | 90 | ND | **330** | **410** | **400** |
| 108-95-2 | PHENOL | 0.33 | 500 | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 129-00-0 | PYRENE | 100 | 500 | mg/Kg | ND | 28 | 33 | ND | **130** | **180** | **180** |
| | **TOTAL SVOCS** | -- | -- | **mg/kg** | **ND** | **606.98** | **818.2** | **ND** | **2521** | **3571.1** | **2742** |

Exceeds NYSDEC Part 375 Unrestricted Soil Criteria
Exceeds NYSDEC Commercial Soil Criteria
(1) NYSDEC 6 NYCRR Part 375 Environmental Remediation Program (December 2006)
(2) -- indicates no clean up objective or background level is available
(3) NA indicates compound was not analyzed for
(4) ND indicates compound was not detected
(5) J indicates an estimated concentration
(6) R indicates rejected data
(7) Grey shaded values exceed NYSDEC Part 375 Unrestricted Soil Criteria
(8) Orange shaded values exceed NYSDEC Part 375 Commercial Soil Criteria

Table 3
Farrington Street Former MGP Site
Summary of Soil Analytical Data
Consolidated Edison Company of New York

| Consolidated Edison<br>Farrington Street Remedial Investigation<br>2009-2015 Soil Analytical Data<br>Detected Compounds Only | | | | Location ID: | SB-40 | SB-41 | SB-41<br>Dup of<br>SB-41(13-15) | SB-41 | SB-42 | SB-42<br>Dup of<br>SB-42(14-16) | SB-42 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Sample ID: | SB-40(39-41) | SB-41(13-15) | SB-41A(13-15) | SB-41(33-35) | SB-42(14-16) | SB-42A(14-16) | SB-42(22-24) |
| | | | | Lab Sample Id | C3954-24 | C3954-11 | C3954-13 | C3954-12 | C3954-06 | C3954-07 | C3954-08 |
| | | | | Depth: | 39 - 41 ft | 13 - 15 ft | 13 - 15 ft | 33 - 35 ft | 14 - 16 ft | 14 - 16 ft | 22 - 24 ft |
| | | | | Source: | CTECH | CTECH | CTECH | CTECH | CTECH | CTECH | CTECH |
| | | NYSDEC Part 375 Unrestricted Soil Criteria | NYSDEC Part 375 Commercial Soil Criteria | SDG: | C3954 | C3954 | C3954 | C3954 | C3954 | C3954 | C3954 |
| | | | | Matrix: | SOIL | SOIL | SOIL | SOIL | SOIL | SOIL | SOIL |
| | | | | Sampled: | 9/29/2011 2:00 | 9/26/2011 10:35 | 9/26/2011 10:35 | 9/26/2011 1:30 | 9/29/2011 2:50 | 9/29/2011 3:00 | 9/30/2011 9:15 |
| | | | | Validated: | 1/23/2012 | 1/23/2012 | 1/23/2012 | 1/23/2012 | 1/23/2012 | 1/23/2012 | 1/23/2012 |
| CAS NO. | COMPOUND | | | UNITS: | | | | | | | |
| | INORGANICS | | | | | | | | | | |
| 7429-90-5 | ALUMINUM | -- | -- | mg/Kg | 1980 | 1820 | 1690 | 6810 | 1970 | 3640 | 4020 |
| 7440-36-0 | ANTIMONY | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 7440-38-2 | ARSENIC | 13 | 16 | mg/Kg | 0.61 J | 0.42 J | 0.52 J | 0.56 J | 0.86 | 0.71 J | ND |
| 7440-39-3 | BARIUM | 350 | 400 | mg/Kg | 20 J | 16.2 J | 16.4 J | 94.7 J | 16.8 J | 33.2 J | 52.1 J |
| 7440-41-7 | BERYLLIUM | 7.2 | 590 | mg/Kg | 0.09 J | 0.05 J | ND | 0.19 J | 0.07 J | 0.11 J | 0.1 J |
| 7440-43-9 | CADMIUM | 2.5 | 9.3 | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 7440-70-2 | CALCIUM | -- | -- | mg/Kg | 460 J | 854 J | 599 J | 895 J | 3150 J | 4920 J | 1030 J |
| 7440-47-3 | CHROMIUM, TOTAL | 30 | 1500 | mg/Kg | 8.19 J | 7.64 J | 5.01 J | 20 J | 5.53 J | 10.1 J | 13.5 J |
| 7440-48-4 | COBALT | -- | -- | mg/Kg | 2.59 | 3.77 | 3.29 | 7.57 | 2.7 | 4.57 | 5.28 |
| 7440-50-8 | COPPER | 50 | 270 | mg/Kg | 3.89 | 7.7 | 6.5 | 9.68 | 7.05 | 13.1 | 12 |
| 7439-89-6 | IRON | -- | -- | mg/Kg | 5910 | 5490 | 4740 | 13800 | 6710 | 10500 | 12900 |
| 7439-92-1 | LEAD | 63 | 1000 | mg/Kg | 1.46 | 4.7 | 4.91 | 3.4 | 2.97 | 7.68 | 2.21 |
| 7439-95-4 | MAGNESIUM | -- | -- | mg/Kg | 762 | 1150 | 877 | 3040 | 1630 | 2600 | 1760 |
| 7439-96-5 | MANGANESE | 1600 | 10000 | mg/Kg | 116 | 84.1 | 57.1 | 293 | 124 | 188 | 200 |
| 7439-97-6 | MERCURY | 0.18 | 2.8 | mg/Kg | 0.003 J | 0.035 | 0.038 | 0.004 J | 0.09 | **0.207** | 0.006 J |
| 7440-02-0 | NICKEL | 30 | 310 | mg/Kg | 7.56 | 15.3 | 11.1 | 19 | 9.79 | 13.9 | 12.6 |
| 7440-09-7 | POTASSIUM | -- | -- | mg/Kg | 577 J | 386 J | 458 J | 3630 J | 482 J | 1010 J | 1990 J |
| 7782-49-2 | SELENIUM | 3.9 | 1500 | mg/Kg | ND | ND | 0.5 J | ND | ND | ND | ND |
| 7440-22-4 | SILVER | 2 | 1500 | mg/Kg | ND | 0.18 J | ND | 0.2 J | 0.17 J | 0.25 J | 0.31 J |
| 7440-23-5 | SODIUM | -- | -- | mg/Kg | 71.4 J | 114 | 117 | 431 | 131 | 155 | 506 |
| 7440-28-0 | THALLIUM | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 7440-62-2 | VANADIUM | -- | -- | mg/Kg | 7.09 | 9.32 | 6.08 | 22.6 | 6.64 | 11.5 | 16 |
| 7440-66-6 | ZINC | 109 | 10000 | mg/Kg | 14.4 | 19.1 | 18.1 | 37.2 | 13.7 | 23.4 | 26.2 |
| 57-12-5 | CYANIDE | 27 | 27 | mg/Kg | 0.201 J | 0.088 J | ND | 0.054 J | 0.211 J | 0.205 J | ND |

Exceeds NYSDEC Part 375 Unrestricted Soil Criteria
Exceeds NYSDEC Commercial Soil Criteria

(1) NYSDEC 6 NYCRR Part 375 Environmental Remediation Program (December 2006)
(2) -- indicates no clean up objective or background level is available
(3) NA indicates compound was not analyzed for
(4) ND indicates compound was not detected
(5) J indicates an estimated concentration
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(7) Grey shaded values exceed NYSDEC Part 375 Unrestricted Soil Criteria
(8) Orange shaded values exceed NYSDEC Part 375 Commercial Soil Criteria

Table 3
Farrington Street Former MGP Site
Summary of Soil Analytical Data
Consolidated Edison Company of New York

| Consolidated Edison<br>Farrington Street Remedial Investigation<br>2009-2015 Soil Analytical Data<br>Detected Compounds Only | | | | Location ID: | SB-42 | SB-43 | SB-43 | SB-44 | SB-44 | SB-45 | SB-45 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Sample ID: | SB-42(34-36) | SB-43(15-17) | SB-43(29-31) | SB-44(16.5-18) | SB-44(28-30) | SB-45(13-15) | SB-45(27-29) |
| | | | | Lab Sample Id | C3954-01 | C3954-19 | C3954-18 | C3954-21 | C3954-25 | C3954-23 | C3954-22 |
| | | | | Depth: | 34 - 36 ft | 15 - 17 ft | 29 - 31 ft | 16.5 - 18 ft | 28 - 30 ft | 13 - 15 ft | 27 - 29 ft |
| | | | | Source: | CTECH | CTECH | CTECH | CTECH | CTECH | CTECH | CTECH |
| | | NYSDEC Part 375 Unrestricted Soil Criteria | NYSDEC Part 375 Commercial Soil Criteria | SDG: | C3954 | C3954 | C3954 | C3954 | C3954 | C3954 | C3954 |
| | | | | Matrix: | SOIL | SOIL | SOIL | SOIL | SOIL | SOIL | SOIL |
| | | | | Sampled: | 9/30/2011 10:20 | 9/27/2011 12:05 | 9/27/2011 2:00 | 9/28/2011 10:30 | 9/28/2011 12:55 | 9/28/2011 10:15 | 9/28/2011 11:00 |
| | | | | Validated: | 1/23/2012 | 1/23/2012 | 1/23/2012 | 1/23/2012 | 1/23/2012 | 1/23/2012 | 1/23/2012 |
| CAS NO. | COMPOUND | | | UNITS: | | | | | | | |
| | VOLATILES | | | | | | | | | | |
| 79-34-5 | 1,1,2,2-TETRACHLOROETHANE | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 120-82-1 | 1,2,4-TRICHLOROBENZENE | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 95-50-1 | 1,2-DICHLOROBENZENE | 1.1 | 500 | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 541-73-1 | 1,3-DICHLOROBENZENE | 2.4 | 280 | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 106-46-7 | 1,4-DICHLOROBENZENE | 1.8 | 130 | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 591-78-6 | 2-HEXANONE | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 67-64-1 | ACETONE | 0.05 | 500 | mg/Kg | ND | ND | R | ND | R | ND | ND |
| 71-43-2 | BENZENE | 0.06 | 44 | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 75-15-0 | CARBON DISULFIDE | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 108-90-7 | CHLOROBENZENE | 1.1 | 500 | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 67-66-3 | CHLOROFORM | 0.37 | 350 | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 156-59-2 | CIS-1,2-DICHLOROETHYLENE | 0.25 | 500 | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 110-82-7 | CYCLOHEXANE | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 100-41-4 | ETHYLBENZENE | 1 | 390 | mg/Kg | ND | ND | ND | ND | ND | **4.6** J | **7.4** |
| 98-82-8 | ISOPROPYLBENZENE (CUMENE) | -- | -- | mg/Kg | ND | 1.5 J | ND | ND | ND | 6.3 | ND |
| XYLMP | M,P-XYLENE (SUM OF ISOMERS) | 0.26 | 500 | mg/Kg | ND | ND | ND | ND | ND | ND | **3.9** J |
| 79-20-9 | METHYL ACETATE | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 78-93-3 | METHYL ETHYL KETONE (2-BUTANONE) | 0.12 | 500 | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 108-10-1 | METHYL ISOBUTYL KETONE | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 108-87-2 | METHYLCYCLOHEXANE | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 75-09-2 | METHYLENE CHLORIDE | 0.05 | 500 | mg/Kg | ND | ND | ND | ND | 0.0031 J | ND | ND |
| 95-47-6 | O-XYLENE (1,2-DIMETHYLBENZENE) | 0.26 | 500 | mg/Kg | ND | ND | ND | ND | ND | ND | **4.5** J |
| 100-42-5 | STYRENE | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 1634-04-4 | TERT-BUTYL METHYL ETHER | 0.93 | 500 | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 127-18-4 | TETRACHLOROETHYLENE(PCE) | 1.3 | 150 | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 108-88-3 | TOLUENE | 0.7 | 500 | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 79-01-6 | TRICHLOROETHYLENE (TCE) | 0.47 | 200 | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 95-63-6 | 1,2,4-TRIMETHYLBENZENE | 3.6 | 190 | mg/kg | | | | | | | |
| 108-67-8 | 1,3,5-TRIMETHYLBENZENE (MESITYLENE) | 8.4 | 190 | mg/kg | | | | | | | |
| 103-65-1 | N-PROPYLBENZENE | 3.9 | 500 | mg/kg | | | | | | | |
| 135-98-8 | SEC-BUTYLBENZENE | 11 | 500 | mg/kg | | | | | | | |
| | **TOTAL VOCS** | **--** | **--** | **mg/Kg** | **ND** | **1.5** | **ND** | **ND** | **0.0031** | **10.9** | **15.8** |

Exceeds NYSDEC Part 375 Unrestricted Soil Criteria
Exceeds NYSDEC Commercial Soil Criteria
(1) NYSDEC 6 NYCRR Part 375 Environmental Remediation Program (December 2006)
(2) -- indicates no clean up objective or background level is available
(3) NA indicates compound was not analyzed for
(4) ND indicates compound was not detected
(5) J indicates an estimated concentration; J+ indicated an estimated concentration biased high.
(6) R indicates rejected data
(7) Grey shaded values exceed NYSDEC Part 375 Unrestricted Soil Criteria
(8) Orange shaded values exceed NYSDEC Part 375 Commercial Soil Criteria

Table 3
Farrington Street Former MGP Site
Summary of Soil Analytical Data
Consolidated Edison Company of New York

| Consolidated Edison<br>Farrington Street Remedial Investigation<br>2009-2015 Soil Analytical Data<br>Detected Compounds Only | | | | Location ID: | SB-42 | SB-43 | SB-43 | SB-44 | SB-44 | SB-45 | SB-45 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Sample ID: | SB-42(34-36) | SB-43(15-17) | SB-43(29-31) | SB-44(16.5-18) | SB-44(28-30) | SB-45(13-15) | SB-45(27-29) |
| | | | | Lab Sample Id | C3954-01 | C3954-19 | C3954-18 | C3954-21 | C3954-25 | C3954-23 | C3954-22 |
| | | | | Depth: | 34 - 36 ft | 15 - 17 ft | 29 - 31 ft | 16.5 - 18 ft | 28 - 30 ft | 13 - 15 ft | 27 - 29 ft |
| | | | | Source: | CTECH | CTECH | CTECH | CTECH | CTECH | CTECH | CTECH |
| | | NYSDEC Part 375 Unrestricted Soil Criteria | NYSDEC Part 375 Commercial Soil Criteria | SDG: | C3954 | C3954 | C3954 | C3954 | C3954 | C3954 | C3954 |
| | | | | Matrix: | SOIL | SOIL | SOIL | SOIL | SOIL | SOIL | SOIL |
| | | | | Sampled: | 9/30/2011 10:20 | 9/27/2011 12:05 | 9/27/2011 2:00 | 9/28/2011 10:30 | 9/28/2011 12:55 | 9/28/2011 10:15 | 9/28/2011 11:00 |
| | | | | Validated: | 1/23/2012 | 1/23/2012 | 1/23/2012 | 1/23/2012 | 1/23/2012 | 1/23/2012 | 1/23/2012 |
| CAS NO. | COMPOUND | | | UNITS: | | | | | | | |
| | SEMIVOLATILES | | | | | | | | | | |
| 95-94-3 | 1,2,4,5-TETRACHLOROBENZENE | -- | -- | mg/Kg | | | | | | | |
| 58-90-2 | 2,3,4,6-TETRACHLOROPHENOL | -- | -- | mg/kg | | | | | | | |
| 88-06-2 | 2,4,6-TRICHLOROPHENOL | -- | -- | mg/kg | ND | ND | ND | ND | ND | ND | ND |
| 105-67-9 | 2,4-DIMETHYLPHENOL | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 91-57-6 | 2-METHYLNAPHTHALENE | -- | -- | mg/Kg | ND | 78 | ND | 10 | ND | 100 | 180 |
| 95-48-7 | 2-METHYLPHENOL (O-CRESOL) | 0.33 | 500 | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| MEPH3MEPH | 3- AND 4- METHYLPHENOL (TOTAL) | 0.33 | 500 | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 83-32-9 | ACENAPHTHENE | 20 | 500 | mg/Kg | ND | 20 | ND | **60** | ND | **24** | **180** |
| 208-96-8 | ACENAPHTHYLENE | 100 | 500 | mg/Kg | ND | 0.77 | ND | 7.1 | ND | 1.1 | 23 |
| 98-86-2 | ACETOPHENONE | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 120-12-7 | ANTHRACENE | 100 | 500 | mg/Kg | ND | 10 | ND | 26 | ND | 11 | 75 |
| 100-52-7 | BENZALDEHYDE | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 56-55-3 | BENZO(A)ANTHRACENE | 1 | 5.6 | mg/Kg | ND | **5.1** | ND | **20** | ND | **7.2** | **56** |
| 50-32-8 | BENZO(A)PYRENE | 1 | 1 | mg/Kg | ND | **2.7** | ND | **14** | ND | **4.2** | **39** |
| 205-99-2 | BENZO(B)FLUORANTHENE | 1 | 5.6 | mg/Kg | ND | **2.3** | ND | **12** | ND | **3.3** J | **34** |
| 191-24-2 | BENZO(G,H,I)PERYLENE | 100 | 500 | mg/Kg | ND | 1.1 | ND | 5.8 J | ND | 0.94 | 14 |
| 207-08-9 | BENZO(K)FLUORANTHENE | 0.8 | 56 | mg/Kg | ND | 0.68 | ND | **4.1** J | ND | 0.79 | **8.7** J |
| 85-68-7 | BENZYL BUTYL PHTHALATE | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 92-52-4 | BIPHENYL (DIPHENYL) | -- | -- | mg/Kg | ND | 3.7 J | ND | ND | ND | 1.8 | 40 |
| 117-81-7 | BIS(2-ETHYLHEXYL) PHTHALATE | -- | -- | mg/Kg | ND | ND | ND | ND | ND | 0.19 J | ND |
| 105-60-2 | CAPROLACTAM | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 86-74-8 | CARBAZOLE | -- | -- | mg/Kg | ND | ND | ND | ND | ND | 0.33 J | ND |
| 218-01-9 | CHRYSENE | 1 | 56 | mg/Kg | ND | **5** | ND | **19** | ND | **6.7** | **50** |
| 53-70-3 | DIBENZ(A,H)ANTHRACENE | 0.33 | 0.56 | mg/Kg | ND | 0.28 J | ND | ND | ND | **0.49** | ND |
| 132-64-9 | DIBENZOFURAN | 7 | 350 | mg/Kg | ND | 1.4 | ND | 3.4 J | ND | 1.3 | **10** J |
| 84-66-2 | DIETHYL PHTHALATE | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 131-11-3 | DIMETHYL PHTHALATE | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 84-74-2 | DI-N-BUTYL PHTHALATE | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 117-84-0 | DI-N-OCTYLPHTHALATE | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 206-44-0 | FLUORANTHENE | 100 | 500 | mg/Kg | ND | 8.1 | ND | 35 | ND | 12 | 88 |
| 86-73-7 | FLUORENE | 30 | 500 | mg/Kg | ND | 9.5 | ND | 22 | ND | 12 | **83** |
| 193-39-5 | INDENO(1,2,3-C,D)PYRENE | 0.5 | 5.6 | mg/Kg | ND | **1.1** | ND | **4.6** J | ND | **1.9** | **12** J |
| 86-30-6 | N-NITROSODIPHENYLAMINE | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 91-20-3 | NAPHTHALENE | 12 | 500 | mg/Kg | ND | **170** | ND | **73** | ND | **200** | **490** |
| 87-86-5 | PENTACHLOROPHENOL | 0.8 | 6.7 | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 85-01-8 | PHENANTHRENE | 100 | 500 | mg/Kg | ND | 31 | ND | 75 | ND | 38 | **310** |
| 108-95-2 | PHENOL | 0.33 | 500 | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 129-00-0 | PYRENE | 100 | 500 | mg/Kg | ND | 13 | ND | 45 | ND | 18 | **140** |
| | **TOTAL SVOCS** | -- | -- | **mg/kg** | **ND** | **363.73** | **ND** | **436** | **ND** | **445.24** | **1832.7** |

Exceeds NYSDEC Part 375 Unrestricted Soil Criteria
Exceeds NYSDEC Commercial Soil Criteria
(1) NYSDEC 6 NYCRR Part 375 Environmental Remediation Program (December 2006)
(2) -- indicates no clean up objective or background level is available
(3) NA indicates compound was not analyzed for
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(7) Grey shaded values exceed NYSDEC Part 375 Unrestricted Soil Criteria
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Table 3
Farrington Street Former MGP Site
Summary of Soil Analytical Data
Consolidated Edison Company of New York

| Consolidated Edison<br>Farrington Street Remedial Investigation<br>2009-2015 Soil Analytical Data<br>Detected Compounds Only | | | | Location ID: | SB-42 | SB-43 | SB-43 | SB-44 | SB-44 | SB-45 | SB-45 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Sample ID: | SB-42(34-36) | SB-43(15-17) | SB-43(29-31) | SB-44(16.5-18) | SB-44(28-30) | SB-45(13-15) | SB-45(27-29) |
| | | | | Lab Sample Id | C3954-01 | C3954-19 | C3954-18 | C3954-21 | C3954-25 | C3954-23 | C3954-22 |
| | | | | Depth: | 34 - 36 ft | 15 - 17 ft | 29 - 31 ft | 16.5 - 18 ft | 28 - 30 ft | 13 - 15 ft | 27 - 29 ft |
| | | | | Source: | CTECH | CTECH | CTECH | CTECH | CTECH | CTECH | CTECH |
| | | NYSDEC Part 375 Unrestricted Soil Criteria | NYSDEC Part 375 Commercial Soil Criteria | SDG: | C3954 | C3954 | C3954 | C3954 | C3954 | C3954 | C3954 |
| | | | | Matrix: | SOIL | SOIL | SOIL | SOIL | SOIL | SOIL | SOIL |
| | | | | Sampled: | 9/30/2011 10:20 | 9/27/2011 12:05 | 9/27/2011 2:00 | 9/28/2011 10:30 | 9/28/2011 12:55 | 9/28/2011 10:15 | 9/28/2011 11:00 |
| | | | | Validated: | 1/23/2012 | 1/23/2012 | 1/23/2012 | 1/23/2012 | 1/23/2012 | 1/23/2012 | 1/23/2012 |
| CAS NO. | COMPOUND | | | UNITS: | | | | | | | |
| | INORGANICS | | | | | | | | | | |
| 7429-90-5 | ALUMINUM | -- | -- | mg/Kg | 5970 | 3100 | 3800 | 3210 | 6550 | 4550 | 1950 |
| 7440-36-0 | ANTIMONY | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 7440-38-2 | ARSENIC | 13 | 16 | mg/Kg | 0.85 J | ND | ND | 0.51 J | ND | ND | ND |
| 7440-39-3 | BARIUM | 350 | 400 | mg/Kg | 47.4 J | 30.3 J | 49.1 J | 30.8 J | 97 J | 56.1 J | 22.7 J |
| 7440-41-7 | BERYLLIUM | 7.2 | 590 | mg/Kg | 0.37 | 0.09 J | 0.11 J | 0.1 J | 0.1 J | 0.15 J | ND |
| 7440-43-9 | CADMIUM | 2.5 | 9.3 | mg/Kg | ND | ND | ND | ND | ND | 0.12 J | ND |
| 7440-70-2 | CALCIUM | -- | -- | mg/Kg | 865 J | 731 J | 618 J | 763 J | 912 J | 696 J | 581 J |
| 7440-47-3 | CHROMIUM, TOTAL | 30 | 1500 | mg/Kg | 19.6 J | 11.6 J | 12.1 J | 12.6 J | 17.9 J | 14.1 J | 8.11 J |
| 7440-48-4 | COBALT | -- | -- | mg/Kg | 5.43 | 3.24 | 4.7 | 4.89 | 6.61 | 6.07 | 2.98 |
| 7440-50-8 | COPPER | 50 | 270 | mg/Kg | 11.9 | 6.21 | 8.1 | 16.4 | 13.3 | 10.2 | 6.88 |
| 7439-89-6 | IRON | -- | -- | mg/Kg | 13000 | 6750 | 10700 | 12500 | 13100 | 13000 | 7610 |
| 7439-92-1 | LEAD | 63 | 1000 | mg/Kg | 5.61 | 1.5 | 2.8 | 6.17 | 2.48 | 2.32 | 1.26 |
| 7439-95-4 | MAGNESIUM | -- | -- | mg/Kg | 2040 | 1360 | 1740 | 1210 | 3000 | 1870 | 818 |
| 7439-96-5 | MANGANESE | 1600 | 10000 | mg/Kg | 166 | 102 | 101 | 128 | 189 | 154 | 63.8 |
| 7439-97-6 | MERCURY | 0.18 | 2.8 | mg/Kg | 0.021 | 0.003 J | 0.011 | 0.008 J | 0.003 J | 0.003 J | 0.004 J |
| 7440-02-0 | NICKEL | 30 | 310 | mg/Kg | 14.6 | 14.2 | 13.2 | 12.1 | 14.9 | 14.3 | 7.34 |
| 7440-09-7 | POTASSIUM | -- | -- | mg/Kg | 1510 J | 1110 J | 2100 J | 1090 J | 3860 J | 2460 J | 943 J |
| 7782-49-2 | SELENIUM | 3.9 | 1500 | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 7440-22-4 | SILVER | 2 | 1500 | mg/Kg | 0.28 J | 0.14 J | 0.22 J | 0.26 J | 0.3 J | 0.27 J | 0.2 J |
| 7440-23-5 | SODIUM | -- | -- | mg/Kg | 160 | 84.2 | 124 | 244 | 312 | 124 | 134 |
| 7440-28-0 | THALLIUM | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 7440-62-2 | VANADIUM | -- | -- | mg/Kg | 18.6 | 11.2 | 14.6 | 16.1 | 18.9 | 17.7 | 10.5 |
| 7440-66-6 | ZINC | 109 | 10000 | mg/Kg | 34.3 | 19.7 | 28.8 | 19.5 | 34.3 | 37.4 | 16.7 |
| 57-12-5 | CYANIDE | 27 | 27 | mg/Kg | ND | 0.057 J | ND | 0.209 J | 0.093 J | ND | ND |

Exceeds NYSDEC Part 375 Unrestricted Soil Criteria
Exceeds NYSDEC Commercial Soil Criteria

(1) NYSDEC 6 NYCRR Part 375 Environmental Remediation Program (December 2006)
(2) -- indicates no clean up objective or background level is available
(3) NA indicates compound was not analyzed for
(4) ND indicates compound was not detected
(5) J indicates an estimated concentration
(6) R indicates rejected data
(7) Grey shaded values exceed NYSDEC Part 375 Unrestricted Soil Criteria
(8) Orange shaded values exceed NYSDEC Part 375 Commercial Soil Criteria

Table 3
Farrington Street Former MGP Site
Summary of Soil Analytical Data
Consolidated Edison Company of New York

| Consolidated Edison<br>Farrington Street Remedial Investigation<br>2009-2015 Soil Analytical Data<br>Detected Compounds Only | | | | Location ID: | SB-45 | SB-46 | SB-46 | SB-47 | SB-47 | Dup of SB-47(29-31) SB-47 | SB-49 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Sample ID: | SB-45(43-45) | SB-46(11-12) | SB-46(39-40) | SB-47(15-17) | SB-47(29-31) | SB-147(29-31) | SB-49(11-13) |
| | | | | Lab Sample Id | C3954-05 | C4313-01 | C4313-02 | F1028-07 | F1028-04 | F1028-06 | F1028-10 |
| | | | | Depth: | 43 - 45 ft | 11 - 12 ft | 39 - 40 ft | 15 - 17 ft | 29 - 31 ft | 29 - 31 ft | 11 - 13 ft |
| | | | | Source: | CTECH | CTECH | CTECH | CTECH | CTECH | CTECH | CTECH |
| | | NYSDEC Part 375 Unrestricted Soil Criteria | NYSDEC Part 375 Commercial Soil Criteria | SDG: | C3954 | C4313 | C4313 | F1028 | F1028 | F1028 | F1028 |
| | | | | Matrix: | SOIL | SOIL | SOIL | SOIL | SOIL | SOIL | SOIL |
| | | | | Sampled: | 9/29/2011 10:05 | 10/24/2011 9:50 | 10/24/2011 11:20 | 1/2/2014 9:00 | 1/2/2014 9:38 | 1/2/2014 9:45 | 1/8/2014 9:50 |
| | | | | Validated: | 1/23/2012 | 1/23/2012 | 1/23/2012 | 5/21/2014 | 5/21/2014 | 5/21/2014 | 5/21/2014 |
| CAS NO. | COMPOUND | | | UNITS: | | | | | | | |
| | VOLATILES | | | | | | | | | | |
| 79-34-5 | 1,1,2,2-TETRACHLOROETHANE | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 120-82-1 | 1,2,4-TRICHLOROBENZENE | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 95-50-1 | 1,2-DICHLOROBENZENE | 1.1 | 500 | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 541-73-1 | 1,3-DICHLOROBENZENE | 2.4 | 280 | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 106-46-7 | 1,4-DICHLOROBENZENE | 1.8 | 130 | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 591-78-6 | 2-HEXANONE | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 67-64-1 | ACETONE | 0.05 | 500 | mg/Kg | ND | ND | 0.011 J | ND | 0.0059 J | 0.0067 J | ND |
| 71-43-2 | BENZENE | 0.06 | 44 | mg/Kg | ND | ND | ND | **13.5** J | 0.0094 | 0.0083 | **6.8** |
| 75-15-0 | CARBON DISULFIDE | -- | -- | mg/Kg | ND | ND | ND | 0.21 J | ND | 0.0016 J | 0.15 J |
| 108-90-7 | CHLOROBENZENE | 1.1 | 500 | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 67-66-3 | CHLOROFORM | 0.37 | 350 | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 156-59-2 | CIS-1,2-DICHLOROETHYLENE | 0.25 | 500 | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 110-82-7 | CYCLOHEXANE | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 100-41-4 | ETHYLBENZENE | 1 | 390 | mg/Kg | ND | ND | ND | **23.8** J | 0.0417 J | 0.0145 J | **7** |
| 98-82-8 | ISOPROPYLBENZENE (CUMENE) | -- | -- | mg/Kg | ND | ND | ND | 5.7 J | 0.0092 J | 0.0024 J | 3.3 |
| XYLMP | M,P-XYLENE (SUM OF ISOMERS) | 0.26 | 500 | mg/Kg | ND | ND | ND | **13.5** J | 0.0246 J | 0.0086 J | **5.3** |
| 79-20-9 | METHYL ACETATE | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | 0.69 |
| 78-93-3 | METHYL ETHYL KETONE (2-BUTANONE) | 0.12 | 500 | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 108-10-1 | METHYL ISOBUTYL KETONE | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 108-87-2 | METHYLCYCLOHEXANE | -- | -- | mg/Kg | ND | ND | ND | 0.18 J | ND | ND | 0.15 J |
| 75-09-2 | METHYLENE CHLORIDE | 0.05 | 500 | mg/Kg | 0.003 J | ND | 0.003 J | ND | ND | ND | ND |
| 95-47-6 | O-XYLENE (1,2-DIMETHYLBENZENE) | 0.26 | 500 | mg/Kg | ND | ND | ND | **6.3** J | 0.0074 J | 0.0022 J | **0.97** |
| 100-42-5 | STYRENE | -- | -- | mg/Kg | ND | ND | ND | 0.27 J | ND | ND | 0.44 J |
| 1634-04-4 | TERT-BUTYL METHYL ETHER | 0.93 | 500 | mg/Kg | ND | ND | 0.027 | ND | 0.0015 J | 0.0018 J | ND |
| 127-18-4 | TETRACHLOROETHYLENE(PCE) | 1.3 | 150 | mg/Kg | 0.0063 | ND | ND | ND | ND | ND | ND |
| 108-88-3 | TOLUENE | 0.7 | 500 | mg/Kg | ND | ND | ND | **1.4** J | ND | ND | **5.9** |
| 79-01-6 | TRICHLOROETHYLENE (TCE) | 0.47 | 200 | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 95-63-6 | 1,2,4-TRIMETHYLBENZENE | 3.6 | 190 | mg/kg | | | | | | | |
| 108-67-8 | 1,3,5-TRIMETHYLBENZENE (MESITYLENE) | 8.4 | 190 | mg/kg | | | | | | | |
| 103-65-1 | N-PROPYLBENZENE | 3.9 | 500 | mg/kg | | | | | | | |
| 135-98-8 | SEC-BUTYLBENZENE | 11 | 500 | mg/kg | | | | | | | |
| | **TOTAL VOCS** | **--** | **--** | **mg/Kg** | **0.0093** | **ND** | **0.041** | **64.86** | **0.0997** | **0.0461** | **30.7** |

Exceeds NYSDEC Part 375 Unrestricted Soil Criteria
Exceeds NYSDEC Commercial Soil Criteria
(1) NYSDEC 6 NYCRR Part 375 Environmental Remediation Program (December 2006)
(2) -- indicates no clean up objective or background level is available
(3) NA indicates compound was not analyzed for
(4) ND indicates compound was not detected
(5) J indicates an estimated concentration; J+ indicated an estimated concentration biased high.
(6) R indicates rejected data
(7) Grey shaded values exceed NYSDEC Part 375 Unrestricted Soil Criteria
(8) Orange shaded values exceed NYSDEC Part 375 Commercial Soil Criteria

Table 3
Farrington Street Former MGP Site
Summary of Soil Analytical Data
Consolidated Edison Company of New York

| Consolidated Edison<br>Farrington Street Remedial Investigation<br>2009-2015 Soil Analytical Data<br>Detected Compounds Only | | | | Location ID: | SB-45 | SB-46 | SB-46 | SB-47 | SB-47 | Dup of SB-47(29-31) SB-47 | SB-49 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Sample ID: | SB-45(43-45) | SB-46(11-12) | SB-46(39-40) | SB-47(15-17) | SB-47(29-31) | SB-147(29-31) | SB-49(11-13) |
| | | | | Lab Sample Id | C3954-05 | C4313-01 | C4313-02 | F1028-07 | F1028-04 | F1028-06 | F1028-10 |
| | | | | Depth: | 43 - 45 ft | 11 - 12 ft | 39 - 40 ft | 15 - 17 ft | 29 - 31 ft | 29 - 31 ft | 11 - 13 ft |
| | | | | Source: | CTECH | CTECH | CTECH | CTECH | CTECH | CTECH | CTECH |
| | | NYSDEC Part 375 Unrestricted Soil Criteria | NYSDEC Part 375 Commercial Soil Criteria | SDG: | C3954 | C4313 | C4313 | F1028 | F1028 | F1028 | F1028 |
| | | | | Matrix: | SOIL | SOIL | SOIL | SOIL | SOIL | SOIL | SOIL |
| | | | | Sampled: | 9/29/2011 10:05 | 10/24/2011 9:50 | 10/24/2011 11:20 | 1/2/2014 9:00 | 1/2/2014 9:38 | 1/2/2014 9:45 | 1/8/2014 9:50 |
| | | | | Validated: | 1/23/2012 | 1/23/2012 | 1/23/2012 | 5/21/2014 | 5/21/2014 | 5/21/2014 | 5/21/2014 |
| CAS NO. | COMPOUND | | | UNITS: | | | | | | | |
| | SEMIVOLATILES | | | | | | | | | | |
| 95-94-3 | 1,2,4,5-TETRACHLOROBENZENE | -- | -- | mg/Kg | | | | ND | ND | ND | ND |
| 58-90-2 | 2,3,4,6-TETRACHLOROPHENOL | -- | -- | mg/kg | | | | ND | ND | ND | ND |
| 88-06-2 | 2,4,6-TRICHLOROPHENOL | -- | -- | mg/kg | ND | ND | ND | ND | ND | ND | ND |
| 105-67-9 | 2,4-DIMETHYLPHENOL | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 91-57-6 | 2-METHYLNAPHTHALENE | -- | -- | mg/Kg | ND | ND | ND | 65.3 J | 0.28 J | 1.1 J | 27.4 |
| 95-48-7 | 2-METHYLPHENOL (O-CRESOL) | 0.33 | 500 | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| MEPH3MEPH | 3- AND 4- METHYLPHENOL (TOTAL) | 0.33 | 500 | mg/Kg | ND | ND | ND | ND | ND | ND | **0.64** J |
| 83-32-9 | ACENAPHTHENE | 20 | 500 | mg/Kg | ND | ND | ND | **24.4** J | 0.12 J | 0.35 J | 7.9 |
| 208-96-8 | ACENAPHTHYLENE | 100 | 500 | mg/Kg | ND | ND | ND | 10.2 J | 0.0932 J | 0.15 J | 2.1 |
| 98-86-2 | ACETOPHENONE | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 120-12-7 | ANTHRACENE | 100 | 500 | mg/Kg | ND | ND | ND | 32.5 J | 0.15 J | 0.28 J | 7 |
| 100-52-7 | BENZALDEHYDE | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 56-55-3 | BENZO(A)ANTHRACENE | 1 | 5.6 | mg/Kg | ND | ND | ND | **24.4** J | 0.12 J | 0.19 J | **8.1** |
| 50-32-8 | BENZO(A)PYRENE | 1 | 1 | mg/Kg | ND | ND | ND | **13.9** J | ND | 0.11 J | **5.5** |
| 205-99-2 | BENZO(B)FLUORANTHENE | 1 | 5.6 | mg/Kg | ND | ND | ND | **14.2** J | ND | 0.11 J | **6.8** |
| 191-24-2 | BENZO(G,H,I)PERYLENE | 100 | 500 | mg/Kg | ND | ND | ND | 5 J | ND | ND | 2.6 |
| 207-08-9 | BENZO(K)FLUORANTHENE | 0.8 | 56 | mg/Kg | ND | ND | ND | **4.4** J | ND | ND | **1.7** J |
| 85-68-7 | BENZYL BUTYL PHTHALATE | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 92-52-4 | BIPHENYL (DIPHENYL) | -- | -- | mg/Kg | ND | ND | ND | 5.2 J | ND | 0.0911 J | 0.83 J |
| 117-81-7 | BIS(2-ETHYLHEXYL) PHTHALATE | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | 0.65 J |
| 105-60-2 | CAPROLACTAM | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 86-74-8 | CARBAZOLE | -- | -- | mg/Kg | ND | ND | ND | 1.5 J | ND | ND | 0.5 J |
| 218-01-9 | CHRYSENE | 1 | 56 | mg/Kg | ND | ND | ND | **23.2** J | 0.0939 J | 0.15 J | **6.7** |
| 53-70-3 | DIBENZ(A,H)ANTHRACENE | 0.33 | 0.56 | mg/Kg | ND | ND | ND | **2** J | ND | ND | **0.87** J |
| 132-64-9 | DIBENZOFURAN | 7 | 350 | mg/Kg | ND | ND | ND | 4.2 J | ND | ND | 1.2 J |
| 84-66-2 | DIETHYL PHTHALATE | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 131-11-3 | DIMETHYL PHTHALATE | -- | -- | mg/Kg | ND | ND | ND | ND | 0.61 | 0.72 | 0.46 J |
| 84-74-2 | DI-N-BUTYL PHTHALATE | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 117-84-0 | DI-N-OCTYLPHTHALATE | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 206-44-0 | FLUORANTHENE | 100 | 500 | mg/Kg | ND | ND | ND | 33.6 J | 0.18 J | 0.31 J | 10.5 |
| 86-73-7 | FLUORENE | 30 | 500 | mg/Kg | ND | ND | ND | **34.8** J | 0.2 J | 0.36 J | 6.9 |
| 193-39-5 | INDENO(1,2,3-C,D)PYRENE | 0.5 | 5.6 | mg/Kg | ND | ND | ND | **3.6** J | ND | ND | **1.6** J |
| 86-30-6 | N-NITROSODIPHENYLAMINE | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 91-20-3 | NAPHTHALENE | 12 | 500 | mg/Kg | ND | ND | ND | **85.4** J | 0.22 J | 1.4 J | **31.4** |
| 87-86-5 | PENTACHLOROPHENOL | 0.8 | 6.7 | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 85-01-8 | PHENANTHRENE | 100 | 500 | mg/Kg | ND | ND | ND | 93.5 J | 0.61 | 1 | 28.6 |
| 108-95-2 | PHENOL | 0.33 | 500 | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 129-00-0 | PYRENE | 100 | 500 | mg/Kg | ND | ND | ND | 54.3 J | 0.28 J | 0.46 | 14.8 |
| | **TOTAL SVOCS** | -- | -- | **mg/kg** | **ND** | **ND** | **ND** | **535.6** | **2.9571** | **6.7811** | **174.75** |

Exceeds NYSDEC Part 375 Unrestricted Soil Criteria
Exceeds NYSDEC Commercial Soil Criteria
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(4) ND indicates compound was not detected
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(7) Grey shaded values exceed NYSDEC Part 375 Unrestricted Soil Criteria
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|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Sample ID: | SB-45(43-45) | SB-46(11-12) | SB-46(39-40) | SB-47(15-17) | SB-47(29-31) | SB-147(29-31) | SB-49(11-13) |
| | | | | Lab Sample Id | C3954-05 | C4313-01 | C4313-02 | F1028-07 | F1028-04 | F1028-06 | F1028-10 |
| | | | | Depth: | 43 - 45 ft | 11 - 12 ft | 39 - 40 ft | 15 - 17 ft | 29 - 31 ft | 29 - 31 ft | 11 - 13 ft |
| | | | | Source: | CTECH | CTECH | CTECH | CTECH | CTECH | CTECH | CTECH |
| | | NYSDEC Part 375 Unrestricted Soil Criteria | NYSDEC Part 375 Commercial Soil Criteria | SDG: | C3954 | C4313 | C4313 | F1028 | F1028 | F1028 | F1028 |
| | | | | Matrix: | SOIL | SOIL | SOIL | SOIL | SOIL | SOIL | SOIL |
| | | | | Sampled: | 9/29/2011 10:05 | 10/24/2011 9:50 | 10/24/2011 11:20 | 1/2/2014 9:00 | 1/2/2014 9:38 | 1/2/2014 9:45 | 1/8/2014 9:50 |
| | | | | Validated: | 1/23/2012 | 1/23/2012 | 1/23/2012 | 5/21/2014 | 5/21/2014 | 5/21/2014 | 5/21/2014 |
| CAS NO. | COMPOUND | | | UNITS: | | | | | | | |
| | INORGANICS | | | | | | | | | | |
| 7429-90-5 | ALUMINUM | -- | -- | mg/Kg | 7060 | 4040 J | 7090 J | 4800 J | 2500 | 3400 | 2300 |
| 7440-36-0 | ANTIMONY | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 7440-38-2 | ARSENIC | 13 | 16 | mg/Kg | ND | 1.57 | 6.64 | 4.66 J | 0.746 J | 0.814 J | 5.49 |
| 7440-39-3 | BARIUM | 350 | 400 | mg/Kg | 95.8 J | 30.3 | 94.7 | 57.3 J | 9.79 | 10.38 | 63.1 J- |
| 7440-41-7 | BERYLLIUM | 7.2 | 590 | mg/Kg | 0.18 J | 0.184 J | 0.624 | 0.186 J | 0.099 J | 0.141 J | 0.236 J |
| 7440-43-9 | CADMIUM | 2.5 | 9.3 | mg/Kg | 0.09 J | 0.594 | 1.77 | 1.97 J | 0.812 | 1.17 | **2.86** |
| 7440-70-2 | CALCIUM | -- | -- | mg/Kg | 915 J | 578 | 1870 | 24600 J | 1500 | 1300 | 75600 |
| 7440-47-3 | CHROMIUM, TOTAL | 30 | 1500 | mg/Kg | 20.8 J | 12.8 | 24.6 | 11.9 J | 8.83 | 11.9 | 8.97 |
| 7440-48-4 | COBALT | -- | -- | mg/Kg | 7.93 | 5.39 | 9.7 | 6.06 J | 3.47 | 4.38 | 5.56 |
| 7440-50-8 | COPPER | 50 | 270 | mg/Kg | 13.1 | 20 | 20.5 | 45.4 J | 15 | 13 | 29.1 |
| 7439-89-6 | IRON | -- | -- | mg/Kg | 17000 | 11200 | 23100 | 19200 J | 10500 | 14400 | 12300 |
| 7439-92-1 | LEAD | 63 | 1000 | mg/Kg | 3.31 | 10.1 | 9.23 | **917** J | 8.49 | 2.35 | **413** |
| 7439-95-4 | MAGNESIUM | -- | -- | mg/Kg | 3090 | 1810 J | 3540 J | 3500 J | 991 | 1300 | 42900 |
| 7439-96-5 | MANGANESE | 1600 | 10000 | mg/Kg | 220 | 125 | 696 | 136 J | 466 | 625 | 224 |
| 7439-97-6 | MERCURY | 0.18 | 2.8 | mg/Kg | 0.009 J | ND | ND | 0.051 | ND | ND | 0.049 |
| 7440-02-0 | NICKEL | 30 | 310 | mg/Kg | 16.1 | 15.4 | 20.5 | 17.3 J | 7.48 | 9.39 | 16.3 |
| 7440-09-7 | POTASSIUM | -- | -- | mg/Kg | 4160 J | 1080 J | 2060 J | 672 J | 421 | 683 | 263 |
| 7782-49-2 | SELENIUM | 3.9 | 1500 | mg/Kg | ND | ND | ND | 1.66 J | 0.693 J | 0.755 J | 0.948 J |
| 7440-22-4 | SILVER | 2 | 1500 | mg/Kg | 0.29 J | ND | ND | 0.942 J | 0.563 | 0.786 | 0.423 J |
| 7440-23-5 | SODIUM | -- | -- | mg/Kg | 201 | 157 J | 263 J | 505 J | 237 | 359 | 310 |
| 7440-28-0 | THALLIUM | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 7440-62-2 | VANADIUM | -- | -- | mg/Kg | 26.9 | 16.7 | 28.3 | 17.6 J | 24.5 | 29 | 23.1 |
| 7440-66-6 | ZINC | 109 | 10000 | mg/Kg | 41.4 | 21.8 | 51.2 | **137** J | 14.2 | 18.4 | **251** |
| 57-12-5 | CYANIDE | 27 | 27 | mg/Kg | ND | ND | ND | 2.99 J | 0.054 J | 0.086 J | 0.423 |

Exceeds NYSDEC Part 375 Unrestricted Soil Criteria
Exceeds NYSDEC Commercial Soil Criteria

(1) NYSDEC 6 NYCRR Part 375 Environmental Remediation Program (December 2006)
(2) -- indicates no clean up objective or background level is available
(3) NA indicates compound was not analyzed for
(4) ND indicates compound was not detected
(5) J indicates an estimated concentration
(6) R indicates rejected data
(7) Grey shaded values exceed NYSDEC Part 375 Unrestricted Soil Criteria
(8) Orange shaded values exceed NYSDEC Part 375 Commercial Soil Criteria

Table 3
Farrington Street Former MGP Site
Summary of Soil Analytical Data
Consolidated Edison Company of New York

| Consolidated Edison<br>Farrington Street Remedial Investigation<br>2009-2015 Soil Analytical Data<br>Detected Compounds Only | | | | Location ID: | SB-49 | SB-50 | SB-50 | SB-52 | SB-52 | SB-53 | SB-53 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Sample ID: | SB-49(29-31) | SB-50(15-16) | SB-50(25-30) | SB-52(7-9) | SB-52(48-50) | SB-53(11-13) | SB-53(29-31) |
| | | | | Lab Sample Id | F1028-11 | F1028-12 | F1028-13 | F1028-03 | F1028-01 | F1028-02 | F1028-08 |
| | | | | Depth: | 29 - 31 ft | 15 - 16 ft | 25 - 30 ft | 7 - 9 ft | 48 - 50 ft | 11 - 13 FT | 29 - 31 FT |
| | | | | Source: | CTECH | CTECH | CTECH | CTECH | CTECH | CTECH | CTECH |
| | | NYSDEC Part 375 Unrestricted Soil Criteria | NYSDEC Part 375 Commercial Soil Criteria | SDG: | F1028 | F1028 | F1028 | F1028 | F1028 | F1028 | F1028 |
| | | | | Matrix: | SOIL | SOIL | SOIL | SOIL | SOIL | SOIL | SOIL |
| | | | | Sampled: | 1/8/2014 10:52 | 1/8/2014 13:45 | 1/8/2014 14:05 | 1/6/2014 8:35 | 1/6/2014 11:25 | 12/31/2013 9:45 | 12/31/2013 10:50 |
| | | | | Validated: | 5/21/2014 | 5/21/2014 | 5/21/2014 | 5/21/2014 | 5/21/2014 | 5/21/2014 | 5/21/2014 |
| CAS NO. | COMPOUND | | | UNITS: | | | | | | | |
| | VOLATILES | | | | | | | | | | |
| 79-34-5 | 1,1,2,2-TETRACHLOROETHANE | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 120-82-1 | 1,2,4-TRICHLOROBENZENE | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 95-50-1 | 1,2-DICHLOROBENZENE | 1.1 | 500 | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 541-73-1 | 1,3-DICHLOROBENZENE | 2.4 | 280 | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 106-46-7 | 1,4-DICHLOROBENZENE | 1.8 | 130 | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 591-78-6 | 2-HEXANONE | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 67-64-1 | ACETONE | 0.05 | 500 | mg/Kg | 0.0071 J | 0.0104 J | 0.0064 J | 0.0059 J | 0.0098 J | ND | ND |
| 71-43-2 | BENZENE | 0.06 | 44 | mg/Kg | 0.0014 J | 0.0069 | ND | 0.0049 J | 0.011 | **47.6** | 0.0068 |
| 75-15-0 | CARBON DISULFIDE | -- | -- | mg/Kg | ND | ND | ND | ND | ND | 0.11 J | ND |
| 108-90-7 | CHLOROBENZENE | 1.1 | 500 | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 67-66-3 | CHLOROFORM | 0.37 | 350 | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 156-59-2 | CIS-1,2-DICHLOROETHYLENE | 0.25 | 500 | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 110-82-7 | CYCLOHEXANE | -- | -- | mg/Kg | ND | ND | ND | ND | ND | 0.13 J | ND |
| 100-41-4 | ETHYLBENZENE | 1 | 390 | mg/Kg | 0.0016 J | 0.0199 | ND | 0.0028 J | 0.0055 J | **204.6** | 0.0145 |
| 98-82-8 | ISOPROPYLBENZENE (CUMENE) | -- | -- | mg/Kg | ND | 0.0046 J | ND | ND | 0.0021 J | 11.9 | 0.0014 J |
| XYLMP | M,P-XYLENE (SUM OF ISOMERS) | 0.26 | 500 | mg/Kg | ND | 0.0091 J | ND | 0.0022 J | 0.0059 J | **66** | 0.0132 |
| 79-20-9 | METHYL ACETATE | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 78-93-3 | METHYL ETHYL KETONE (2-BUTANONE) | 0.12 | 500 | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 108-10-1 | METHYL ISOBUTYL KETONE | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 108-87-2 | METHYLCYCLOHEXANE | -- | -- | mg/Kg | ND | ND | ND | ND | ND | 0.59 J | ND |
| 75-09-2 | METHYLENE CHLORIDE | 0.05 | 500 | mg/Kg | 0.0034 J | ND | ND | ND | 0.0022 J | ND | ND |
| 95-47-6 | O-XYLENE (1,2-DIMETHYLBENZENE) | 0.26 | 500 | mg/Kg | ND | 0.0017 J | ND | ND | 0.0094 | **3.3** | 0.0032 J |
| 100-42-5 | STYRENE | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 1634-04-4 | TERT-BUTYL METHYL ETHER | 0.93 | 500 | mg/Kg | ND | ND | ND | ND | 0.0018 J | ND | 0.0012 J |
| 127-18-4 | TETRACHLOROETHYLENE(PCE) | 1.3 | 150 | mg/Kg | ND | ND | 0.002 J | 0.0016 J | ND | ND | ND |
| 108-88-3 | TOLUENE | 0.7 | 500 | mg/Kg | ND | ND | ND | ND | 0.0017 J | **1.7** | ND |
| 79-01-6 | TRICHLOROETHYLENE (TCE) | 0.47 | 200 | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 95-63-6 | 1,2,4-TRIMETHYLBENZENE | 3.6 | 190 | mg/kg | | | | | | ND | ND |
| 108-67-8 | 1,3,5-TRIMETHYLBENZENE (MESITYLENE) | 8.4 | 190 | mg/kg | | | | | | | |
| 103-65-1 | N-PROPYLBENZENE | 3.9 | 500 | mg/kg | | | | | | | |
| 135-98-8 | SEC-BUTYLBENZENE | 11 | 500 | mg/kg | | | | | | | |
| | **TOTAL VOCS** | **--** | **--** | **mg/Kg** | **0.0135** | **0.0526** | **0.0084** | **0.0174** | **0.0494** | **335.93** | **0.0403** |

Exceeds NYSDEC Part 375 Unrestricted Soil Criteria
Exceeds NYSDEC Commercial Soil Criteria
(1) NYSDEC 6 NYCRR Part 375 Environmental Remediation Program (December 2006)
(2) -- indicates no clean up objective or background level is available
(3) NA indicates compound was not analyzed for
(4) ND indicates compound was not detected
(5) J indicates an estimated concentration; J+ indicated an estimated concentration biased high.
(6) R indicates rejected data
(7) Grey shaded values exceed NYSDEC Part 375 Unrestricted Soil Criteria
(8) Orange shaded values exceed NYSDEC Part 375 Commercial Soil Criteria

Table 3
Farrington Street Former MGP Site
Summary of Soil Analytical Data
Consolidated Edison Company of New York

| Consolidated Edison<br>Farrington Street Remedial Investigation<br>2009-2015 Soil Analytical Data<br>Detected Compounds Only | | | | Location ID: | SB-49 | SB-50 | SB-50 | SB-52 | SB-52 | SB-53 | SB-53 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Sample ID: | SB-49(29-31) | SB-50(15-16) | SB-50(25-30) | SB-52(7-9) | SB-52(48-50) | SB-53(11-13) | SB-53(29-31) |
| | | | | Lab Sample Id | F1028-11 | F1028-12 | F1028-13 | F1028-03 | F1028-01 | F1028-02 | F1028-08 |
| | | | | Depth: | 29 - 31 ft | 15 - 16 ft | 25 - 30 ft | 7 - 9 ft | 48 - 50 ft | 11 - 13 FT | 29 - 31 FT |
| | | | | Source: | CTECH | CTECH | CTECH | CTECH | CTECH | CTECH | CTECH |
| | | NYSDEC Part 375 Unrestricted Soil Criteria | NYSDEC Part 375 Commercial Soil Criteria | SDG: | F1028 | F1028 | F1028 | F1028 | F1028 | F1028 | F1028 |
| | | | | Matrix: | SOIL | SOIL | SOIL | SOIL | SOIL | SOIL | SOIL |
| | | | | Sampled: | 1/8/2014 10:52 | 1/8/2014 13:45 | 1/8/2014 14:05 | 1/6/2014 8:35 | 1/6/2014 11:25 | 12/31/2013 9:45 | 12/31/2013 10:50 |
| | | | | Validated: | 5/21/2014 | 5/21/2014 | 5/21/2014 | 5/21/2014 | 5/21/2014 | 5/21/2014 | 5/21/2014 |
| CAS NO. | COMPOUND | | | UNITS: | | | | | | | |
| | SEMIVOLATILES | | | | | | | | | | |
| 95-94-3 | 1,2,4,5-TETRACHLOROBENZENE | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 58-90-2 | 2,3,4,6-TETRACHLOROPHENOL | -- | -- | mg/kg | ND | ND | ND | ND | ND | ND | ND |
| 88-06-2 | 2,4,6-TRICHLOROPHENOL | -- | -- | mg/kg | ND | ND | ND | ND | ND | ND | ND |
| 105-67-9 | 2,4-DIMETHYLPHENOL | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 91-57-6 | 2-METHYLNAPHTHALENE | -- | -- | mg/Kg | 0.11 J | 0.31 J | ND | ND | ND | 654.3 | 0.18 J |
| 95-48-7 | 2-METHYLPHENOL (O-CRESOL) | 0.33 | 500 | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| MEPH3MEPH | 3- AND 4- METHYLPHENOL (TOTAL) | 0.33 | 500 | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 83-32-9 | ACENAPHTHENE | 20 | 500 | mg/Kg | ND | 0.12 J | ND | ND | ND | **32.5** | ND |
| 208-96-8 | ACENAPHTHYLENE | 100 | 500 | mg/Kg | ND | ND | ND | ND | ND | 35.5 | ND |
| 98-86-2 | ACETOPHENONE | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 120-12-7 | ANTHRACENE | 100 | 500 | mg/Kg | ND | 0.0889 J | ND | ND | ND | 63.4 | ND |
| 100-52-7 | BENZALDEHYDE | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 56-55-3 | BENZO(A)ANTHRACENE | 1 | 5.6 | mg/Kg | ND | 0.14 J | ND | 0.13 J | ND | **30.3** | ND |
| 50-32-8 | BENZO(A)PYRENE | 1 | 1 | mg/Kg | ND | 0.11 J | ND | 0.13 J | ND | **14.4** | ND |
| 205-99-2 | BENZO(B)FLUORANTHENE | 1 | 5.6 | mg/Kg | ND | 0.12 J | ND | 0.17 J | ND | **13.4** | ND |
| 191-24-2 | BENZO(G,H,I)PERYLENE | 100 | 500 | mg/Kg | ND | ND | ND | 0.0964 J | ND | 4.7 | ND |
| 207-08-9 | BENZO(K)FLUORANTHENE | 0.8 | 56 | mg/Kg | ND | ND | ND | ND | ND | **4.4** | ND |
| 85-68-7 | BENZYL BUTYL PHTHALATE | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 92-52-4 | BIPHENYL (DIPHENYL) | -- | -- | mg/Kg | ND | ND | ND | ND | ND | 12.4 | ND |
| 117-81-7 | BIS(2-ETHYLHEXYL) PHTHALATE | -- | -- | mg/Kg | ND | ND | ND | 0.14 J | ND | 0.54 J | ND |
| 105-60-2 | CAPROLACTAM | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 86-74-8 | CARBAZOLE | -- | -- | mg/Kg | ND | ND | ND | ND | ND | 2.3 | ND |
| 218-01-9 | CHRYSENE | 1 | 56 | mg/Kg | ND | 0.12 J | ND | 0.11 J | ND | **23.2** | ND |
| 53-70-3 | DIBENZ(A,H)ANTHRACENE | 0.33 | 0.56 | mg/Kg | ND | ND | ND | ND | ND | **1.7** J | ND |
| 132-64-9 | DIBENZOFURAN | 7 | 350 | mg/Kg | ND | ND | ND | ND | ND | **7.5** | ND |
| 84-66-2 | DIETHYL PHTHALATE | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 131-11-3 | DIMETHYL PHTHALATE | -- | -- | mg/Kg | 0.39 | 0.59 | 0.38 | 0.59 | 0.71 | ND | 0.15 J |
| 84-74-2 | DI-N-BUTYL PHTHALATE | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 117-84-0 | DI-N-OCTYLPHTHALATE | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 206-44-0 | FLUORANTHENE | 100 | 500 | mg/Kg | ND | 0.18 J | ND | 0.17 J | ND | 44.8 | ND |
| 86-73-7 | FLUORENE | 30 | 500 | mg/Kg | ND | 0.1 J | ND | ND | ND | **78.9** | ND |
| 193-39-5 | INDENO(1,2,3-C,D)PYRENE | 0.5 | 5.6 | mg/Kg | ND | ND | ND | ND | ND | **3.6** | ND |
| 86-30-6 | N-NITROSODIPHENYLAMINE | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 91-20-3 | NAPHTHALENE | 12 | 500 | mg/Kg | 0.0963 J | 0.38 J | ND | ND | 0.13 J | **1079.6** | 0.33 J |
| 87-86-5 | PENTACHLOROPHENOL | 0.8 | 6.7 | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 85-01-8 | PHENANTHRENE | 100 | 500 | mg/Kg | 0.11 J | 0.27 J | ND | 0.13 J | ND | **283** | 0.0879 J |
| 108-95-2 | PHENOL | 0.33 | 500 | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 129-00-0 | PYRENE | 100 | 500 | mg/Kg | ND | 0.25 J | ND | 0.17 J | ND | 72 | ND |
| | **TOTAL SVOCS** | -- | -- | **mg/kg** | **0.7063** | **2.7789** | **0.38** | **1.8364** | **0.84** | **2462.44** | **0.7479** |

Exceeds NYSDEC Part 375 Unrestricted Soil Criteria
Exceeds NYSDEC Commercial Soil Criteria
(1) NYSDEC 6 NYCRR Part 375 Environmental Remediation Program (December 2006)
(2) -- indicates no clean up objective or background level is available
(3) NA indicates compound was not analyzed for
(4) ND indicates compound was not detected
(5) J indicates an estimated concentration
(6) R indicates rejected data
(7) Grey shaded values exceed NYSDEC Part 375 Unrestricted Soil Criteria
(8) Orange shaded values exceed NYSDEC Part 375 Commercial Soil Criteria

Table 3
Farrington Street Former MGP Site
Summary of Soil Analytical Data
Consolidated Edison Company of New York

| Consolidated Edison<br>Farrington Street Remedial Investigation<br>2009-2015 Soil Analytical Data<br>Detected Compounds Only | | | | Location ID: | SB-49 | SB-50 | SB-50 | SB-52 | SB-52 | SB-53 | SB-53 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Sample ID: | SB-49(29-31) | SB-50(15-16) | SB-50(25-30) | SB-52(7-9) | SB-52(48-50) | SB-53(11-13) | SB-53(29-31) |
| | | | | Lab Sample Id | F1028-11 | F1028-12 | F1028-13 | F1028-03 | F1028-01 | F1028-02 | F1028-08 |
| | | | | Depth: | 29 - 31 ft | 15 - 16 ft | 25 - 30 ft | 7 - 9 ft | 48 - 50 ft | 11 - 13 FT | 29 - 31 FT |
| | | | | Source: | CTECH | CTECH | CTECH | CTECH | CTECH | CTECH | CTECH |
| | | NYSDEC Part 375 Unrestricted Soil Criteria | NYSDEC Part 375 Commercial Soil Criteria | SDG: | F1028 | F1028 | F1028 | F1028 | F1028 | F1028 | F1028 |
| | | | | Matrix: | SOIL | SOIL | SOIL | SOIL | SOIL | SOIL | SOIL |
| | | | | Sampled: | 1/8/2014 10:52 | 1/8/2014 13:45 | 1/8/2014 14:05 | 1/6/2014 8:35 | 1/6/2014 11:25 | 12/31/2013 9:45 | 12/31/2013 10:50 |
| | | | | Validated: | 5/21/2014 | 5/21/2014 | 5/21/2014 | 5/21/2014 | 5/21/2014 | 5/21/2014 | 5/21/2014 |
| CAS NO. | COMPOUND | | | UNITS: | | | | | | | |
| | INORGANICS | | | | | | | | | | |
| 7429-90-5 | ALUMINUM | -- | -- | mg/Kg | 7400 | 3000 | 4100 J | 9600 | 7300 J | 2300 | 2800 |
| 7440-36-0 | ANTIMONY | -- | -- | mg/Kg | ND | ND | ND | ND | ND | 0.609 J | ND |
| 7440-38-2 | ARSENIC | 13 | 16 | mg/Kg | 1.64 | 4.05 | 1.49 J | 4.26 | 1.55 | 7.92 | 0.513 J |
| 7440-39-3 | BARIUM | 350 | 400 | mg/Kg | 43.4 J- | 35.5 J- | 20.4 J | 48.8 | 52.2 J | 30.7 | 22.5 |
| 7440-41-7 | BERYLLIUM | 7.2 | 590 | mg/Kg | 0.246 J | 0.145 J | 0.084 J | 0.254 J | 0.242 J | ND | 0.115 J |
| 7440-43-9 | CADMIUM | 2.5 | 9.3 | mg/Kg | 1.79 | 0.764 | 1.4 J | 2.08 | 2.1 | **3.15** | 0.628 |
| 7440-70-2 | CALCIUM | -- | -- | mg/Kg | 692 | 6600 | 566 J | 7000 | 1200 J | 16000 | 855 |
| 7440-47-3 | CHROMIUM, TOTAL | 30 | 1500 | mg/Kg | 22 | 6.65 | 14.3 J | 19.7 | 23.9 | 9.53 | 8.58 |
| 7440-48-4 | COBALT | -- | -- | mg/Kg | 11.7 | 4.82 | 5.57 J | 7.93 | 9.12 | 5.55 | 3.6 |
| 7440-50-8 | COPPER | 50 | 270 | mg/Kg | 19.1 | 19.5 | 18.5 J | 31.4 | 22.5 J | **82.2** | 9.28 |
| 7439-89-6 | IRON | -- | -- | mg/Kg | 25400 | 11100 | 23200 J | 20000 | 23500 J | 30300 | 8000 |
| 7439-92-1 | LEAD | 63 | 1000 | mg/Kg | 5.26 | 43.6 | 0.533 J | **1500** | 4.42 | 38.4 | 1.82 |
| 7439-95-4 | MAGNESIUM | -- | -- | mg/Kg | 4600 | 1300 | 1400 J | 4800 | 2700 | 7600 | 1100 |
| 7439-96-5 | MANGANESE | 1600 | 10000 | mg/Kg | 116 | 156 | 206 J | 245 | 168 J | 103 | 63.8 |
| 7439-97-6 | MERCURY | 0.18 | 2.8 | mg/Kg | 0.006 J | 0.035 | ND | 0.159 | ND | 0.034 | ND |
| 7440-02-0 | NICKEL | 30 | 310 | mg/Kg | **41.2** | 10.46 | 13.1 J | 16.5 | 19.9 J | 18.4 | 7.79 |
| 7440-09-7 | POTASSIUM | -- | -- | mg/Kg | 1900 | 374 | 1000 J | 641 | 2000 J | 340 | 540 |
| 7782-49-2 | SELENIUM | 3.9 | 1500 | mg/Kg | 2 | 1.23 | 1.79 J | 1.59 | 1.59 | 2.57 | 0.651 J |
| 7440-22-4 | SILVER | 2 | 1500 | mg/Kg | 0.997 | 0.437 J | 0.853 J | 0.989 | 1.05 J | 1.49 | 0.357 J |
| 7440-23-5 | SODIUM | -- | -- | mg/Kg | 750 | 381 | 122 J | 550 | 182 J | 373 | 244 |
| 7440-28-0 | THALLIUM | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 7440-62-2 | VANADIUM | -- | -- | mg/Kg | 26.8 | 15.9 | 20.5 J | 29.7 | 30.4 | 17.7 | 11.9 |
| 7440-66-6 | ZINC | 109 | 10000 | mg/Kg | 41 | 33.4 | 16.8 J | 76.5 | 41.3 J | 53.1 | 14 |
| 57-12-5 | CYANIDE | 27 | 27 | mg/Kg | 0.07 J | 0.282 J | ND | 0.414 | 0.119 J | 17.5 | 0.206 J |

Exceeds NYSDEC Part 375 Unrestricted Soil Criteria
Exceeds NYSDEC Commercial Soil Criteria

(1) NYSDEC 6 NYCRR Part 375 Environmental Remediation Program (December 2006)
(2) -- indicates no clean up objective or background level is available
(3) NA indicates compound was not analyzed for
(4) ND indicates compound was not detected
(5) J indicates an estimated concentration
(6) R indicates rejected data
(7) Grey shaded values exceed NYSDEC Part 375 Unrestricted Soil Criteria
(8) Orange shaded values exceed NYSDEC Part 375 Commercial Soil Criteria

Table 3
Farrington Street Former MGP Site
Summary of Soil Analytical Data
Consolidated Edison Company of New York

| Consolidated Edison<br>Farrington Street Remedial Investigation<br>2009-2015 Soil Analytical Data<br>Detected Compounds Only | | | | Location ID: | SB-54 | SB-54 | SB-55 | SB-55 | SB-55D | SB-55D | SB-56 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Sample ID: | SB-54(19-21)-20140117 | SB-54(28-30)-20140117 | SB-55(15-17)-20140117 | SB-55(17-19)-20140117 | SB-55D(25-26)-20140221 | SB-55D(40-42)-20140221 | SB-56(7-9)-20140120 |
| | | | | Lab Sample Id | F1204-01 | F1204-02 | F1204-03 | F1204-04 | F1466-02 | F1466-01 | F1204-05 |
| | | | | Depth: | 19 - 21 ft | 28 - 30 ft | 15 - 17 ft | 17 - 19 ft | 25 - 26 ft | 40 - 42 ft | 7 - 9 ft |
| | | | | Source: | CTECH | CTECH | CTECH | CTECH | CTECH | CTECH | CTECH |
| | | NYSDEC Part 375 Unrestricted Soil Criteria | NYSDEC Part 375 Commercial Soil Criteria | SDG: | F1204 | F1204 | F1204 | F1204 | F1466 | F1466 | F1204 |
| | | | | Matrix: | SOIL | SOIL | SOIL | SOIL | SOIL | SOIL | SOIL |
| | | | | Sampled: | 1/17/2014 9:25 | 1/17/2014 10:00 | 1/17/2014 12:30 | 1/17/2014 12:55 | 2/21/2014 9:50 | 2/21/2014 11:00 | 1/20/2014 8:50 |
| | | | | Validated: | 4/28/2014 | 4/28/2014 | 4/28/2014 | 4/28/2014 | 4/29/2014 | 4/29/2014 | 4/28/2014 |
| CAS NO. | COMPOUND | | | UNITS: | | | | | | | |
| | VOLATILES | | | | | | | | | | |
| 79-34-5 | 1,1,2,2-TETRACHLOROETHANE | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 120-82-1 | 1,2,4-TRICHLOROBENZENE | -- | -- | mg/Kg | 0.18 J | 0.0018 J | ND | ND | ND | ND | ND |
| 95-50-1 | 1,2-DICHLOROBENZENE | 1.1 | 500 | mg/Kg | 0.48 J | ND | ND | ND | ND | ND | ND |
| 541-73-1 | 1,3-DICHLOROBENZENE | 2.4 | 280 | mg/Kg | 0.99 | 0.0137 | ND | ND | ND | ND | ND |
| 106-46-7 | 1,4-DICHLOROBENZENE | 1.8 | 130 | mg/Kg | **12** | 0.0045 J | ND | ND | ND | ND | ND |
| 591-78-6 | 2-HEXANONE | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 67-64-1 | ACETONE | 0.05 | 500 | mg/Kg | ND | ND | ND | 0.0385 J | ND | ND | **0.0977** |
| 71-43-2 | BENZENE | 0.06 | 44 | mg/Kg | **2.8** | ND | **30.1** | 0.0186 | ND | 0.0149 | ND |
| 75-15-0 | CARBON DISULFIDE | -- | -- | mg/Kg | ND | ND | ND | 0.0652 | ND | ND | ND |
| 108-90-7 | CHLOROBENZENE | 1.1 | 500 | mg/Kg | **8.6** | ND | ND | ND | ND | ND | ND |
| 67-66-3 | CHLOROFORM | 0.37 | 350 | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 156-59-2 | CIS-1,2-DICHLOROETHYLENE | 0.25 | 500 | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 110-82-7 | CYCLOHEXANE | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 100-41-4 | ETHYLBENZENE | 1 | 390 | mg/Kg | **13.7** | ND | **287.8** | 0.0984 | 0.0048 J | 0.0682 | ND |
| 98-82-8 | ISOPROPYLBENZENE (CUMENE) | -- | -- | mg/Kg | 3.5 | ND | ND | 0.0179 | ND | 0.0066 | ND |
| XYLMP | M,P-XYLENE (SUM OF ISOMERS) | 0.26 | 500 | mg/Kg | **3.7** | ND | **32.4** | 0.0075 J | 0.0028 J | 0.0363 | ND |
| 79-20-9 | METHYL ACETATE | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 78-93-3 | METHYL ETHYL KETONE (2-BUTANONE) | 0.12 | 500 | mg/Kg | ND | ND | ND | ND | ND | ND | 0.0118 J |
| 108-10-1 | METHYL ISOBUTYL KETONE | -- | -- | mg/Kg | ND | ND | ND | ND | ND | 0.0038 J | 0.0052 J |
| 108-87-2 | METHYLCYCLOHEXANE | -- | -- | mg/Kg | ND | ND | 0.22 J | ND | ND | ND | ND |
| 75-09-2 | METHYLENE CHLORIDE | 0.05 | 500 | mg/Kg | ND | 0.0065 | ND | 0.0155 | ND | ND | ND |
| 95-47-6 | O-XYLENE (1,2-DIMETHYLBENZENE) | 0.26 | 500 | mg/Kg | **0.55** J | ND | **11** | 0.0038 J | ND | 0.0036 J | ND |
| 100-42-5 | STYRENE | -- | -- | mg/Kg | ND | ND | ND | ND | ND | 0.0041 J | ND |
| 1634-04-4 | TERT-BUTYL METHYL ETHER | 0.93 | 500 | mg/Kg | ND | 0.0018 J | ND | ND | ND | 0.0015 J | ND |
| 127-18-4 | TETRACHLOROETHYLENE(PCE) | 1.3 | 150 | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 108-88-3 | TOLUENE | 0.7 | 500 | mg/Kg | 0.14 J | ND | **0.99** | ND | 0.0015 J | 0.0039 J | ND |
| 79-01-6 | TRICHLOROETHYLENE (TCE) | 0.47 | 200 | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 95-63-6 | 1,2,4-TRIMETHYLBENZENE | 3.6 | 190 | mg/kg | | | | | | | |
| 108-67-8 | 1,3,5-TRIMETHYLBENZENE (MESITYLENE) | 8.4 | 190 | mg/kg | | | | | | | |
| 103-65-1 | N-PROPYLBENZENE | 3.9 | 500 | mg/kg | | | | | | | |
| 135-98-8 | SEC-BUTYLBENZENE | 11 | 500 | mg/kg | | | | | | | |
| | **TOTAL VOCS** | **--** | **--** | **mg/Kg** | **46.64** | **0.0283** | **362.51** | **0.2654** | **0.0091** | **0.1429** | **0.1147** |

Exceeds NYSDEC Part 375 Unrestricted Soil Criteria
Exceeds NYSDEC Commercial Soil Criteria
(1) NYSDEC 6 NYCRR Part 375 Environmental Remediation Program (December 2006)
(2) -- indicates no clean up objective or background level is available
(3) NA indicates compound was not analyzed for
(4) ND indicates compound was not detected
(5) J indicates an estimated concentration; J+ indicated an estimated concentration biased high.
(6) R indicates rejected data
(7) Grey shaded values exceed NYSDEC Part 375 Unrestricted Soil Criteria
(8) Orange shaded values exceed NYSDEC Part 375 Commercial Soil Criteria

Table 3
Farrington Street Former MGP Site
Summary of Soil Analytical Data
Consolidated Edison Company of New York

| Consolidated Edison<br>Farrington Street Remedial Investigation<br>2009-2015 Soil Analytical Data<br>Detected Compounds Only | | | | Location ID: | SB-54 | SB-54 | SB-55 | SB-55 | SB-55D | SB-55D | SB-56 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Sample ID: | SB-54(19-21)-20140117 | SB-54(28-30)-20140117 | SB-55(15-17)-20140117 | SB-55(17-19)-20140117 | SB-55D(25-26)-20140221 | SB-55D(40-42)-20140221 | SB-56(7-9)-20140120 |
| | | | | Lab Sample Id | F1204-01 | F1204-02 | F1204-03 | F1204-04 | F1466-02 | F1466-01 | F1204-05 |
| | | | | Depth: | 19 - 21 ft | 28 - 30 ft | 15 - 17 ft | 17 - 19 ft | 25 - 26 ft | 40 - 42 ft | 7 - 9 ft |
| | | | | Source: | CTECH | CTECH | CTECH | CTECH | CTECH | CTECH | CTECH |
| | | NYSDEC Part 375 Unrestricted Soil Criteria | NYSDEC Part 375 Commercial Soil Criteria | SDG: | F1204 | F1204 | F1204 | F1204 | F1466 | F1466 | F1204 |
| | | | | Matrix: | SOIL | SOIL | SOIL | SOIL | SOIL | SOIL | SOIL |
| | | | | Sampled: | 1/17/2014 9:25 | 1/17/2014 10:00 | 1/17/2014 12:30 | 1/17/2014 12:55 | 2/21/2014 9:50 | 2/21/2014 11:00 | 1/20/2014 8:50 |
| | | | | Validated: | 4/28/2014 | 4/28/2014 | 4/28/2014 | 4/28/2014 | 4/29/2014 | 4/29/2014 | 4/28/2014 |
| CAS NO. | COMPOUND | | | UNITS: | | | | | | | |
| | SEMIVOLATILES | | | | | | | | | | |
| 95-94-3 | 1,2,4,5-TETRACHLOROBENZENE | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 58-90-2 | 2,3,4,6-TETRACHLOROPHENOL | -- | -- | mg/kg | ND | ND | ND | ND | ND | ND | ND |
| 88-06-2 | 2,4,6-TRICHLOROPHENOL | -- | -- | mg/kg | ND | ND | ND | ND | ND | ND | ND |
| 105-67-9 | 2,4-DIMETHYLPHENOL | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 91-57-6 | 2-METHYLNAPHTHALENE | -- | -- | mg/Kg | 350.1 J | ND | 300.5 | 0.21 J | ND | ND | 0.62 J |
| 95-48-7 | 2-METHYLPHENOL (O-CRESOL) | 0.33 | 500 | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| MEPH3MEPH | 3- AND 4- METHYLPHENOL (TOTAL) | 0.33 | 500 | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 83-32-9 | ACENAPHTHENE | 20 | 500 | mg/Kg | **71** J | ND | **122.5** | ND | ND | ND | ND |
| 208-96-8 | ACENAPHTHYLENE | 100 | 500 | mg/Kg | 15.5 J | ND | 10.5 | ND | ND | ND | ND |
| 98-86-2 | ACETOPHENONE | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 120-12-7 | ANTHRACENE | 100 | 500 | mg/Kg | 50 J | ND | 42 | ND | ND | ND | ND |
| 100-52-7 | BENZALDEHYDE | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 56-55-3 | BENZO(A)ANTHRACENE | 1 | 5.6 | mg/Kg | **25.7** J | ND | **19.1** | ND | ND | ND | ND |
| 50-32-8 | BENZO(A)PYRENE | 1 | 1 | mg/Kg | **14.8** J | ND | **12.2** | ND | ND | ND | ND |
| 205-99-2 | BENZO(B)FLUORANTHENE | 1 | 5.6 | mg/Kg | **10.4** J | ND | **9** | ND | ND | ND | ND |
| 191-24-2 | BENZO(G,H,I)PERYLENE | 100 | 500 | mg/Kg | 5.5 J | ND | 3.9 | ND | ND | ND | ND |
| 207-08-9 | BENZO(K)FLUORANTHENE | 0.8 | 56 | mg/Kg | **6.2** J | ND | **3.5** | ND | ND | ND | ND |
| 85-68-7 | BENZYL BUTYL PHTHALATE | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 92-52-4 | BIPHENYL (DIPHENYL) | -- | -- | mg/Kg | 1.9 J | ND | 20.3 | ND | ND | ND | ND |
| 117-81-7 | BIS(2-ETHYLHEXYL) PHTHALATE | -- | -- | mg/Kg | ND | ND | ND | ND | ND | 0.11 J | ND |
| 105-60-2 | CAPROLACTAM | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | 0.57 J |
| 86-74-8 | CARBAZOLE | -- | -- | mg/Kg | ND | ND | 0.81 J | ND | ND | ND | ND |
| 218-01-9 | CHRYSENE | 1 | 56 | mg/Kg | **20.9** J | ND | **17.6** | ND | ND | ND | ND |
| 53-70-3 | DIBENZ(A,H)ANTHRACENE | 0.33 | 0.56 | mg/Kg | ND | ND | **1.4** J | ND | ND | ND | ND |
| 132-64-9 | DIBENZOFURAN | 7 | 350 | mg/Kg | 6.7 J | ND | 6.4 | ND | ND | ND | ND |
| 84-66-2 | DIETHYL PHTHALATE | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 131-11-3 | DIMETHYL PHTHALATE | -- | -- | mg/Kg | ND | 0.32 J | ND | 0.46 J | 1.3 | 1 | ND |
| 84-74-2 | DI-N-BUTYL PHTHALATE | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 117-84-0 | DI-N-OCTYLPHTHALATE | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 206-44-0 | FLUORANTHENE | 100 | 500 | mg/Kg | 41.4 J | ND | 32.9 | ND | ND | ND | 0.56 J |
| 86-73-7 | FLUORENE | 30 | 500 | mg/Kg | **62** J | ND | **66.5** | ND | ND | ND | ND |
| 193-39-5 | INDENO(1,2,3-C,D)PYRENE | 0.5 | 5.6 | mg/Kg | **5** J | ND | **3.5** | ND | ND | ND | ND |
| 86-30-6 | N-NITROSODIPHENYLAMINE | -- | -- | mg/Kg | ND | ND | 7.3 | ND | ND | ND | ND |
| 91-20-3 | NAPHTHALENE | 12 | 500 | mg/Kg | **435.3** J | ND | **372.7** | 0.31 J | ND | ND | 0.73 J |
| 87-86-5 | PENTACHLOROPHENOL | 0.8 | 6.7 | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 85-01-8 | PHENANTHRENE | 100 | 500 | mg/Kg | **162.5** J | ND | **143** | ND | ND | ND | 0.64 J |
| 108-95-2 | PHENOL | 0.33 | 500 | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 129-00-0 | PYRENE | 100 | 500 | mg/Kg | 61.2 J | ND | 47.4 | ND | ND | ND | 0.59 J |
| | **TOTAL SVOCS** | -- | -- | **mg/kg** | **1346.1** | **0.32** | **1243.01** | **0.98** | **1.3** | **1.11** | **3.71** |

Exceeds NYSDEC Part 375 Unrestricted Soil Criteria
Exceeds NYSDEC Commercial Soil Criteria
(1) NYSDEC 6 NYCRR Part 375 Environmental Remediation Program (December 2006)
(2) -- indicates no clean up objective or background level is available
(3) NA indicates compound was not analyzed for
(4) ND indicates compound was not detected
(5) J indicates an estimated concentration
(6) R indicates rejected data
(7) Grey shaded values exceed NYSDEC Part 375 Unrestricted Soil Criteria
(8) Orange shaded values exceed NYSDEC Part 375 Commercial Soil Criteria

Table 3
Farrington Street Former MGP Site
Summary of Soil Analytical Data
Consolidated Edison Company of New York

| Consolidated Edison<br>Farrington Street Remedial Investigation<br>2009-2015 Soil Analytical Data<br>Detected Compounds Only | | | | Location ID: | SB-54 | SB-54 | SB-55 | SB-55 | SB-55D | SB-55D | SB-56 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Sample ID: | SB-54(19-21)-20140117 | SB-54(28-30)-20140117 | SB-55(15-17)-20140117 | SB-55(17-19)-20140117 | SB-55D(25-26)-20140221 | SB-55D(40-42)-20140221 | SB-56(7-9)-20140120 |
| | | | | Lab Sample Id | F1204-01 | F1204-02 | F1204-03 | F1204-04 | F1466-02 | F1466-01 | F1204-05 |
| | | | | Depth: | 19 - 21 ft | 28 - 30 ft | 15 - 17 ft | 17 - 19 ft | 25 - 26 ft | 40 - 42 ft | 7 - 9 ft |
| | | | | Source: | CTECH | CTECH | CTECH | CTECH | CTECH | CTECH | CTECH |
| | | NYSDEC Part 375 Unrestricted Soil Criteria | NYSDEC Part 375 Commercial Soil Criteria | SDG: | F1204 | F1204 | F1204 | F1204 | F1466 | F1466 | F1204 |
| | | | | Matrix: | SOIL | SOIL | SOIL | SOIL | SOIL | SOIL | SOIL |
| | | | | Sampled: | 1/17/2014 9:25 | 1/17/2014 10:00 | 1/17/2014 12:30 | 1/17/2014 12:55 | 2/21/2014 9:50 | 2/21/2014 11:00 | 1/20/2014 8:50 |
| | | | | Validated: | 4/28/2014 | 4/28/2014 | 4/28/2014 | 4/28/2014 | 4/29/2014 | 4/29/2014 | 4/28/2014 |
| CAS NO. | COMPOUND | | | UNITS: | | | | | | | |
| | INORGANICS | | | | | | | | | | |
| 7429-90-5 | ALUMINUM | -- | -- | mg/Kg | 13200 J | 2200 J | 4000 J | 15200 J | 7910 | 3340 | 5900 J |
| 7440-36-0 | ANTIMONY | -- | -- | mg/Kg | ND | ND | 2.09 J | ND | ND | ND | ND |
| 7440-38-2 | ARSENIC | 13 | 16 | mg/Kg | 2.7 | 0.581 J | 5.96 | 10.45 | 4.3 | 1.53 | 6.87 |
| 7440-39-3 | BARIUM | 350 | 400 | mg/Kg | 83.3 J | 11.2 J | 53.9 J | 32.7 J | 49 J+ | 22.1 J+ | 54.2 J |
| 7440-41-7 | BERYLLIUM | 7.2 | 590 | mg/Kg | 0.115 J | ND | ND | 0.205 J | ND | ND | ND |
| 7440-43-9 | CADMIUM | 2.5 | 9.3 | mg/Kg | 1.24 | 0.208 J | 0.737 | 2 | 0.39 | 0.089 J | 1.79 |
| 7440-70-2 | CALCIUM | -- | -- | mg/Kg | 3900 J | 458 J | 5800 J | 1900 J | 504 | 531 | 13500 J |
| 7440-47-3 | CHROMIUM, TOTAL | 30 | 1500 | mg/Kg | **34** J | 17.2 J | **62.2** J | **34.7** J | 21.1 | 14.4 | 26.5 J |
| 7440-48-4 | COBALT | -- | -- | mg/Kg | 11.8 | 2.29 | 3.6 | 15.4 | 11.8 J+ | 5.94 J+ | 7.38 |
| 7440-50-8 | COPPER | 50 | 270 | mg/Kg | 20.2 J | 2.68 J | 22.9 J | 10.27 J | 36.7 J | 7.03 J | 28.8 J |
| 7439-89-6 | IRON | -- | -- | mg/Kg | 22500 | 6500 | 13900 | 41200 | 29600 | 14700 | 22800 |
| 7439-92-1 | LEAD | 63 | 1000 | mg/Kg | 53.6 | 2.37 | **183** | 14.4 | 5.22 | 1.52 | **111** |
| 7439-95-4 | MAGNESIUM | -- | -- | mg/Kg | 5200 | 1200 | 2100 | 8100 | 2740 | 1380 | 4600 |
| 7439-96-5 | MANGANESE | 1600 | 10000 | mg/Kg | 208 J | 170 J | 109 J | 498 J | 131 J | 438 J | 212 J |
| 7439-97-6 | MERCURY | 0.18 | 2.8 | mg/Kg | 0.036 | ND | 0.058 | 0.018 | ND | ND | 0.17 |
| 7440-02-0 | NICKEL | 30 | 310 | mg/Kg | 27.7 | 7.35 | **36.5** | **32.8** | 21.8 | 14.1 | 18.8 |
| 7440-09-7 | POTASSIUM | -- | -- | mg/Kg | 3500 | 614 | 728 | 3900 | 1680 | 1240 | 760 |
| 7782-49-2 | SELENIUM | 3.9 | 1500 | mg/Kg | 1.84 | 0.556 J | 2.25 | 2.86 | 0.928 J | ND | 1.73 |
| 7440-22-4 | SILVER | 2 | 1500 | mg/Kg | ND | ND | ND | ND | 0.253 J | ND | ND |
| 7440-23-5 | SODIUM | -- | -- | mg/Kg | 1700 | 365 | 1500 | 2000 | 320 | 89.5 J | 177 |
| 7440-28-0 | THALLIUM | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 7440-62-2 | VANADIUM | -- | -- | mg/Kg | 39.7 J | 12.2 J | 19.8 J | 52.6 J | 23.3 | 14.2 | 32 J |
| 7440-66-6 | ZINC | 109 | 10000 | mg/Kg | 87.4 | 12.9 | **177** | 100 | 31.7 | 14.1 | **322** |
| 57-12-5 | CYANIDE | 27 | 27 | mg/Kg | 0.21 J | ND | ND | 0.24 J | 0.161 J | 0.2 J | 0.788 |

Exceeds NYSDEC Part 375 Unrestricted Soil Criteria
Exceeds NYSDEC Commercial Soil Criteria

(1) NYSDEC 6 NYCRR Part 375 Environmental Remediation Program (December 2006)
(2) -- indicates no clean up objective or background level is available
(3) NA indicates compound was not analyzed for
(4) ND indicates compound was not detected
(5) J indicates an estimated concentration
(6) R indicates rejected data
(7) Grey shaded values exceed NYSDEC Part 375 Unrestricted Soil Criteria
(8) Orange shaded values exceed NYSDEC Part 375 Commercial Soil Criteria

Table 3
Farrington Street Former MGP Site
Summary of Soil Analytical Data
Consolidated Edison Company of New York

| Consolidated Edison<br>Farrington Street Remedial Investigation<br>2009-2015 Soil Analytical Data<br>Detected Compounds Only | | | | Location ID: | SB-56 | SB-61 | SB-61 | SB-62 | SB-62 | SB-69 | SB-69 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Sample ID: | SB-56(29-31)-20140120 | SB-61(13-15)-20140224 | SB-61(32-34)-20140224 | SB-62(17-19)-20140225 | SB-62(29-31)-20140225 | SB-69(9-11)-20140226 | SB-69(29-31)-20140226 |
| | | | | Lab Sample Id | F1204-06 | F1518-11 | F1518-12 | F1518-15 | F1518-16 | F1518-17 | F1518-18 |
| | | | | Depth: | 29 - 31 ft | 13 - 15 ft | 32 - 34 ft | 17 - 19 ft | 29 - 31 ft | 9 - 11 ft | 29 - 31 ft |
| | | | | Source: | CTECH | CTECH | CTECH | CTECH | CTECH | CTECH | CTECH |
| | | NYSDEC | NYSDEC | SDG: | F1204 | F1518 | F1518 | F1518 | F1518 | F1518 | F1518 |
| | | Part 375 | Part 375 | Matrix: | SOIL | SOIL | SOIL | SOIL | SOIL | SOIL | SOIL |
| | | Unrestricted | Commercial | Sampled: | 1/20/2014 9:27 | 2/24/2014 10:15 | 2/24/2014 11:15 | 2/25/2014 9:42 | 2/25/2014 10:30 | 2/26/2014 9:19 | 2/26/2014 10:04 |
| | | Soil Criteria | Soil Criteria | Validated: | 4/28/2014 | 5/21/2014 | 5/21/2014 | 5/21/2014 | 5/21/2014 | 5/21/2014 | 5/21/2014 |
| CAS NO. | COMPOUND | | | UNITS: | | | | | | | |
| | VOLATILES | | | | | | | | | | |
| 79-34-5 | 1,1,2,2-TETRACHLOROETHANE | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 120-82-1 | 1,2,4-TRICHLOROBENZENE | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 95-50-1 | 1,2-DICHLOROBENZENE | 1.1 | 500 | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 541-73-1 | 1,3-DICHLOROBENZENE | 2.4 | 280 | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 106-46-7 | 1,4-DICHLOROBENZENE | 1.8 | 130 | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 591-78-6 | 2-HEXANONE | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 67-64-1 | ACETONE | 0.05 | 500 | mg/Kg | ND | **41.8** J | 0.0256 J | 0.0372 J | 0.0342 J | **0.0509** J+ | ND |
| 71-43-2 | BENZENE | 0.06 | 44 | mg/Kg | ND | **92.6** | **0.0817** J | **2.6** J | **0.25** J | **2.4** | 0.0025 J |
| 75-15-0 | CARBON DISULFIDE | -- | -- | mg/Kg | ND | ND | 0.0696 J | 0.0147 J | 0.0076 J | 0.0043 J | ND |
| 108-90-7 | CHLOROBENZENE | 1.1 | 500 | mg/Kg | ND | ND | ND | 0.0153 J | ND | ND | ND |
| 67-66-3 | CHLOROFORM | 0.37 | 350 | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 156-59-2 | CIS-1,2-DICHLOROETHYLENE | 0.25 | 500 | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 110-82-7 | CYCLOHEXANE | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 100-41-4 | ETHYLBENZENE | 1 | 390 | mg/Kg | ND | **393.8** | 0.23 J | **2.3** J | 0.0332 J | 0.0405 | ND |
| 98-82-8 | ISOPROPYLBENZENE (CUMENE) | -- | -- | mg/Kg | ND | 17.6 | 0.0281 J | 0.077 J | ND | ND | ND |
| XYLMP | M,P-XYLENE (SUM OF ISOMERS) | 0.26 | 500 | mg/Kg | ND | **313.3** | **0.27** J | **0.48** J | 0.0196 J | 0.0255 | ND |
| 79-20-9 | METHYL ACETATE | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 78-93-3 | METHYL ETHYL KETONE (2-BUTANONE) | 0.12 | 500 | mg/Kg | ND | ND | ND | ND | ND | 0.0095 J | ND |
| 108-10-1 | METHYL ISOBUTYL KETONE | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 108-87-2 | METHYLCYCLOHEXANE | -- | -- | mg/Kg | ND | ND | ND | 0.0114 J | ND | ND | ND |
| 75-09-2 | METHYLENE CHLORIDE | 0.05 | 500 | mg/Kg | ND | ND | ND | 0.0097 J | ND | ND | ND |
| 95-47-6 | O-XYLENE (1,2-DIMETHYLBENZENE) | 0.26 | 500 | mg/Kg | ND | **152** | 0.14 J | 0.19 J | 0.013 J | 0.0078 | ND |
| 100-42-5 | STYRENE | -- | -- | mg/Kg | ND | 32.1 | 0.0084 J | 0.0151 J | ND | ND | ND |
| 1634-04-4 | TERT-BUTYL METHYL ETHER | 0.93 | 500 | mg/Kg | 0.0026 J | ND | ND | ND | ND | ND | ND |
| 127-18-4 | TETRACHLOROETHYLENE(PCE) | 1.3 | 150 | mg/Kg | 0.0023 J | ND | ND | ND | ND | ND | ND |
| 108-88-3 | TOLUENE | 0.7 | 500 | mg/Kg | ND | **262.6** | 0.14 J | 0.22 J | 0.004 J | 0.01 | ND |
| 79-01-6 | TRICHLOROETHYLENE (TCE) | 0.47 | 200 | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 95-63-6 | 1,2,4-TRIMETHYLBENZENE | 3.6 | 190 | mg/kg | | | | | | | |
| 108-67-8 | 1,3,5-TRIMETHYLBENZENE (MESITYLENE) | 8.4 | 190 | mg/kg | | | | | | | |
| 103-65-1 | N-PROPYLBENZENE | 3.9 | 500 | mg/kg | | | | | | | |
| 135-98-8 | SEC-BUTYLBENZENE | 11 | 500 | mg/kg | | | | | | | |
| | **TOTAL VOCS** | **--** | **--** | **mg/Kg** | **0.0049** | **1305.8** | **0.9934** | **5.9704** | **0.3616** | **2.5485** | **0.0025** |

Exceeds NYSDEC Part 375 Unrestricted Soil Criteria
Exceeds NYSDEC Commercial Soil Criteria
(1) NYSDEC 6 NYCRR Part 375 Environmental Remediation Program (December 2006)
(2) -- indicates no clean up objective or background level is available
(3) NA indicates compound was not analyzed for
(4) ND indicates compound was not detected
(5) J indicates an estimated concentration; J+ indicated an estimated concentration biased high.
(6) R indicates rejected data
(7) Grey shaded values exceed NYSDEC Part 375 Unrestricted Soil Criteria
(8) Orange shaded values exceed NYSDEC Part 375 Commercial Soil Criteria

Table 3
Farrington Street Former MGP Site
Summary of Soil Analytical Data
Consolidated Edison Company of New York

| Consolidated Edison<br>Farrington Street Remedial Investigation<br>2009-2015 Soil Analytical Data<br>Detected Compounds Only | | | | Location ID: | SB-56 | SB-61 | SB-61 | SB-62 | SB-62 | SB-69 | SB-69 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Sample ID: | SB-56(29-31)-20140120 | SB-61(13-15)-20140224 | SB-61(32-34)-20140224 | SB-62(17-19)-20140225 | SB-62(29-31)-20140225 | SB-69(9-11)-20140226 | SB-69(29-31)-20140226 |
| | | | | Lab Sample Id | F1204-06 | F1518-11 | F1518-12 | F1518-15 | F1518-16 | F1518-17 | F1518-18 |
| | | | | Depth: | 29 - 31 ft | 13 - 15 ft | 32 - 34 ft | 17 - 19 ft | 29 - 31 ft | 9 - 11 ft | 29 - 31 ft |
| | | | | Source: | CTECH | CTECH | CTECH | CTECH | CTECH | CTECH | CTECH |
| | | NYSDEC | NYSDEC | SDG: | F1204 | F1518 | F1518 | F1518 | F1518 | F1518 | F1518 |
| | | Part 375 | Part 375 | Matrix: | SOIL | SOIL | SOIL | SOIL | SOIL | SOIL | SOIL |
| | | Unrestricted | Commercial | Sampled: | 1/20/2014 9:27 | 2/24/2014 10:15 | 2/24/2014 11:15 | 2/25/2014 9:42 | 2/25/2014 10:30 | 2/26/2014 9:19 | 2/26/2014 10:04 |
| | | Soil Criteria | Soil Criteria | Validated: | 4/28/2014 | 5/21/2014 | 5/21/2014 | 5/21/2014 | 5/21/2014 | 5/21/2014 | 5/21/2014 |
| CAS NO. | COMPOUND | | | UNITS: | | | | | | | |
| | SEMIVOLATILES | | | | | | | | | | |
| 95-94-3 | 1,2,4,5-TETRACHLOROBENZENE | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 58-90-2 | 2,3,4,6-TETRACHLOROPHENOL | -- | -- | mg/kg | ND | ND | ND | ND | ND | ND | ND |
| 88-06-2 | 2,4,6-TRICHLOROPHENOL | -- | -- | mg/kg | ND | ND | ND | ND | ND | ND | ND |
| 105-67-9 | 2,4-DIMETHYLPHENOL | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 91-57-6 | 2-METHYLNAPHTHALENE | -- | -- | mg/Kg | ND | 1726.5 | ND | 0.27 J | 0.15 J | ND | ND |
| 95-48-7 | 2-METHYLPHENOL (O-CRESOL) | 0.33 | 500 | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| MEPH3MEPH | 3- AND 4- METHYLPHENOL (TOTAL) | 0.33 | 500 | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 83-32-9 | ACENAPHTHENE | 20 | 500 | mg/Kg | ND | **314.5** | ND | ND | ND | ND | ND |
| 208-96-8 | ACENAPHTHYLENE | 100 | 500 | mg/Kg | ND | **343.3** | ND | 0.21 J | ND | ND | ND |
| 98-86-2 | ACETOPHENONE | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 120-12-7 | ANTHRACENE | 100 | 500 | mg/Kg | ND | **228.5** | ND | ND | ND | 0.0895 J | ND |
| 100-52-7 | BENZALDEHYDE | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 56-55-3 | BENZO(A)ANTHRACENE | 1 | 5.6 | mg/Kg | ND | **153.3** | ND | ND | ND | 0.23 J | ND |
| 50-32-8 | BENZO(A)PYRENE | 1 | 1 | mg/Kg | ND | **117.5** | ND | ND | ND | 0.19 J | ND |
| 205-99-2 | BENZO(B)FLUORANTHENE | 1 | 5.6 | mg/Kg | ND | **93.6** | ND | ND | ND | 0.21 J | ND |
| 191-24-2 | BENZO(G,H,I)PERYLENE | 100 | 500 | mg/Kg | ND | 37.8 | ND | ND | ND | 0.12 J | ND |
| 207-08-9 | BENZO(K)FLUORANTHENE | 0.8 | 56 | mg/Kg | ND | **16.4** | ND | ND | ND | ND | ND |
| 85-68-7 | BENZYL BUTYL PHTHALATE | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 92-52-4 | BIPHENYL (DIPHENYL) | -- | -- | mg/Kg | ND | 145 | ND | ND | ND | ND | ND |
| 117-81-7 | BIS(2-ETHYLHEXYL) PHTHALATE | -- | -- | mg/Kg | ND | ND | 0.11 J | 0.15 J | ND | 0.12 J | 0.088 J |
| 105-60-2 | CAPROLACTAM | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 86-74-8 | CARBAZOLE | -- | -- | mg/Kg | ND | 10.3 J | ND | ND | ND | ND | ND |
| 218-01-9 | CHRYSENE | 1 | 56 | mg/Kg | ND | **131** | ND | ND | ND | 0.18 J | ND |
| 53-70-3 | DIBENZ(A,H)ANTHRACENE | 0.33 | 0.56 | mg/Kg | ND | **13.2** J | ND | ND | ND | ND | ND |
| 132-64-9 | DIBENZOFURAN | 7 | 350 | mg/Kg | ND | **43.2** | ND | ND | ND | ND | ND |
| 84-66-2 | DIETHYL PHTHALATE | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 131-11-3 | DIMETHYL PHTHALATE | -- | -- | mg/Kg | 0.38 J | ND | 0.45 J | 1.5 J | 1.3 J | 1.8 | 0.62 |
| 84-74-2 | DI-N-BUTYL PHTHALATE | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 117-84-0 | DI-N-OCTYLPHTHALATE | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 206-44-0 | FLUORANTHENE | 100 | 500 | mg/Kg | ND | **265.3** | ND | ND | ND | 0.55 | ND |
| 86-73-7 | FLUORENE | 30 | 500 | mg/Kg | ND | **447** | ND | ND | ND | ND | ND |
| 193-39-5 | INDENO(1,2,3-C,D)PYRENE | 0.5 | 5.6 | mg/Kg | ND | **31** | ND | ND | ND | 0.1 J | ND |
| 86-30-6 | N-NITROSODIPHENYLAMINE | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 91-20-3 | NAPHTHALENE | 12 | 500 | mg/Kg | ND | **3169.9** | 0.14 J | 0.98 J | 0.35 J | 0.12 J | ND |
| 87-86-5 | PENTACHLOROPHENOL | 0.8 | 6.7 | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 85-01-8 | PHENANTHRENE | 100 | 500 | mg/Kg | ND | **843.5** J | ND | ND | ND | 0.35 J | ND |
| 108-95-2 | PHENOL | 0.33 | 500 | mg/Kg | ND | ND | ND | 0.17 J | ND | ND | ND |
| 129-00-0 | PYRENE | 100 | 500 | mg/Kg | ND | **396.7** | ND | ND | ND | 0.37 J | ND |
| | **TOTAL SVOCS** | -- | -- | **mg/kg** | **0.38** | **8527.5** | **0.7** | **3.28** | **1.8** | **4.4295** | **0.708** |

Exceeds NYSDEC Part 375 Unrestricted Soil Criteria
Exceeds NYSDEC Commercial Soil Criteria
(1) NYSDEC 6 NYCRR Part 375 Environmental Remediation Program (December 2006)
(2) -- indicates no clean up objective or background level is available
(3) NA indicates compound was not analyzed for
(4) ND indicates compound was not detected
(5) J indicates an estimated concentration
(6) R indicates rejected data
(7) Grey shaded values exceed NYSDEC Part 375 Unrestricted Soil Criteria
(8) Orange shaded values exceed NYSDEC Part 375 Commercial Soil Criteria

Table 3
Farrington Street Former MGP Site
Summary of Soil Analytical Data
Consolidated Edison Company of New York

| Consolidated Edison<br>Farrington Street Remedial Investigation<br>2009-2015 Soil Analytical Data<br>Detected Compounds Only | | | | Location ID: | SB-56 | SB-61 | SB-61 | SB-62 | SB-62 | SB-69 | SB-69 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Sample ID: | SB-56(29-31)-20140120 | SB-61(13-15)-20140224 | SB-61(32-34)-20140224 | SB-62(17-19)-20140225 | SB-62(29-31)-20140225 | SB-69(9-11)-20140226 | SB-69(29-31)-20140226 |
| | | | | Lab Sample Id | F1204-06 | F1518-11 | F1518-12 | F1518-15 | F1518-16 | F1518-17 | F1518-18 |
| | | | | Depth: | 29 - 31 ft | 13 - 15 ft | 32 - 34 ft | 17 - 19 ft | 29 - 31 ft | 9 - 11 ft | 29 - 31 ft |
| | | | | Source: | CTECH | CTECH | CTECH | CTECH | CTECH | CTECH | CTECH |
| | | NYSDEC | NYSDEC | SDG: | F1204 | F1518 | F1518 | F1518 | F1518 | F1518 | F1518 |
| | | Part 375 | Part 375 | Matrix: | SOIL | SOIL | SOIL | SOIL | SOIL | SOIL | SOIL |
| | | Unrestricted | Commercial | Sampled: | 1/20/2014 9:27 | 2/24/2014 10:15 | 2/24/2014 11:15 | 2/25/2014 9:42 | 2/25/2014 10:30 | 2/26/2014 9:19 | 2/26/2014 10:04 |
| | | Soil Criteria | Soil Criteria | Validated: | 4/28/2014 | 5/21/2014 | 5/21/2014 | 5/21/2014 | 5/21/2014 | 5/21/2014 | 5/21/2014 |
| CAS NO. | COMPOUND | | | UNITS: | | | | | | | |
| | INORGANICS | | | | | | | | | | |
| 7429-90-5 | ALUMINUM | -- | -- | mg/Kg | 6100 J | 3010 | 15000 | 17600 J | 15700 | 3320 | 6590 |
| 7440-36-0 | ANTIMONY | -- | -- | mg/Kg | ND | ND | ND | ND | ND | 2.28 J | ND |
| 7440-38-2 | ARSENIC | 13 | 16 | mg/Kg | 1.24 | 11.7 | 9.04 | 6.41 J | 9.84 | 3.55 | 2.41 |
| 7440-39-3 | BARIUM | 350 | 400 | mg/Kg | 40.1 J | 68.5 J+ | 39.9 J+ | 42 J | 57.7 J+ | 53.9 J+ | 41.3 J+ |
| 7440-41-7 | BERYLLIUM | 7.2 | 590 | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 7440-43-9 | CADMIUM | 2.5 | 9.3 | mg/Kg | 0.876 | 1.04 | 1.17 | 0.947 J | 1.33 | 0.175 J | 0.331 |
| 7440-70-2 | CALCIUM | -- | -- | mg/Kg | 801 J | 2930 J | 1730 J | 4990 J | 6310 J | 7220 J | 542 J |
| 7440-47-3 | CHROMIUM, TOTAL | 30 | 1500 | mg/Kg | 23.5 J | 10.91 | **34.2** | **36.3** J | **33.2** | 7.84 | 16.4 |
| 7440-48-4 | COBALT | -- | -- | mg/Kg | 9.63 | 7.55 J+ | 15.8 J+ | 13.9 J | 15.7 J+ | 3.04 J+ | 8.69 J+ |
| 7440-50-8 | COPPER | 50 | 270 | mg/Kg | 14.7 J | **78.4** J | 6.44 J | 7.22 J | 6.38 J | 21.6 J | 15.2 J |
| 7439-89-6 | IRON | -- | -- | mg/Kg | 20600 | 21700 | 40400 | 39300 J | 42400 | 7090 | 20500 |
| 7439-92-1 | LEAD | 63 | 1000 | mg/Kg | 2.83 | **406** | 14.2 | 26.2 J | 40.4 | **100** | 5.82 |
| 7439-95-4 | MAGNESIUM | -- | -- | mg/Kg | 2500 | 847 | 9170 | 9510 J | 8840 | 1870 | 2590 |
| 7439-96-5 | MANGANESE | 1600 | 10000 | mg/Kg | 325 J | 84.8 J | 634 J | 410 J | 613 J | 49.6 J | 352 J |
| 7439-97-6 | MERCURY | 0.18 | 2.8 | mg/Kg | ND | **0.283** | 0.009 J | ND | **0.197** | 0.108 | ND |
| 7440-02-0 | NICKEL | 30 | 310 | mg/Kg | 23.4 | 23 | **30.5** | **31.9** J | **32.1** | 9.2 | 17.3 |
| 7440-09-7 | POTASSIUM | -- | -- | mg/Kg | 2100 | 431 | 4190 | 4540 J | 3930 | 724 | 1810 |
| 7782-49-2 | SELENIUM | 3.9 | 1500 | mg/Kg | 1.36 | 3.24 | 1.94 | 1.91 J | 2.08 | 1.79 | 0.728 J |
| 7440-22-4 | SILVER | 2 | 1500 | mg/Kg | ND | 0.734 | 1.44 | 1.42 J | 1.56 | 0.194 J | 0.594 |
| 7440-23-5 | SODIUM | -- | -- | mg/Kg | 131 | 603 | 6220 | 3960 J | 3480 | 1770 | 169 |
| 7440-28-0 | THALLIUM | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 7440-62-2 | VANADIUM | -- | -- | mg/Kg | 33.3 J | 21.5 | 42 | 48.6 J | 39.5 | 13 | 20.9 |
| 7440-66-6 | ZINC | 109 | 10000 | mg/Kg | 31.4 | **355** | 83.8 | 90.1 J | **117** | 74.2 | 34.2 |
| 57-12-5 | CYANIDE | 27 | 27 | mg/Kg | 0.092 J | **28.6** | 0.064 J | 0.143 J | ND | 0.364 | 4.48 |

Exceeds NYSDEC Part 375 Unrestricted Soil Criteria
Exceeds NYSDEC Commercial Soil Criteria

(1) NYSDEC 6 NYCRR Part 375 Environmental Remediation Program (December 2006)
(2) -- indicates no clean up objective or background level is available
(3) NA indicates compound was not analyzed for
(4) ND indicates compound was not detected
(5) J indicates an estimated concentration
(6) R indicates rejected data
(7) Grey shaded values exceed NYSDEC Part 375 Unrestricted Soil Criteria
(8) Orange shaded values exceed NYSDEC Part 375 Commercial Soil Criteria

Table 3
Farrington Street Former MGP Site
Summary of Soil Analytical Data
Consolidated Edison Company of New York

| Consolidated Edison<br>Farrington Street Remedial Investigation<br>2009-2015 Soil Analytical Data<br>Detected Compounds Only | | | | Location ID: | SB-70 | SB-70 | SB-72 | SB-72 | SB-73 | SB-73 | SB-74 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Sample ID: | SB-70(7-9)-20140224 | SB-70(29-31)-20140224 | SB-72(7-9)-20141215 | SB-72(15-17)-20141215 | SB-73(14-16)-20150113 | SB-73(28-30)-20150113 | SB-74(7-9)-20141110 |
| | | | | Lab Sample Id | F1518-13 | F1518-14 | F5197-06 | F5197-07 | G1159-01 | G1159-02 | F4695-06 |
| | | | | Depth: | 7 - 9 ft | 29 - 31 ft | 7 - 9 ft | 15 - 17 ft | 14 - 16 ft | 28 - 30 ft | 7 - 9 ft |
| | | | | Source: | CTECH | CTECH | CTECH | CTECH | CTECH | CTECH | CTECH |
| | | NYSDEC Part 375 Unrestricted Soil Criteria | NYSDEC Part 375 Commercial Soil Criteria | SDG: | F1518 | F1518 | F5197 | F5197 | G1159 | G1159 | F4695 |
| | | | | Matrix: | SOIL | SOIL | SOIL | SOIL | SOIL | SOIL | SOIL |
| | | | | Sampled: | 2/24/2014 13:50 | 2/24/2014 14:45 | 12/15/2014 11:50 | 12/15/2014 13:35 | 1/13/2015 10:00 | 1/13/2015 12:00 | 11/10/2014 12:55 |
| | | | | Validated: | 5/21/2014 | 5/21/2014 | 2/25/2015 | 2/25/2015 | 2/25/2015 | 2/25/2015 | 2/25/2015 |
| CAS NO. | COMPOUND | | | UNITS: | | | | | | | |
| | VOLATILES | | | | | | | | | | |
| 79-34-5 | 1,1,2,2-TETRACHLOROETHANE | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 120-82-1 | 1,2,4-TRICHLOROBENZENE | -- | -- | mg/Kg | ND | ND | R | ND | ND | ND | R |
| 95-50-1 | 1,2-DICHLOROBENZENE | 1.1 | 500 | mg/Kg | ND | ND | R | ND | ND | ND | R |
| 541-73-1 | 1,3-DICHLOROBENZENE | 2.4 | 280 | mg/Kg | ND | ND | R | ND | ND | ND | R |
| 106-46-7 | 1,4-DICHLOROBENZENE | 1.8 | 130 | mg/Kg | ND | ND | R | ND | ND | ND | R |
| 591-78-6 | 2-HEXANONE | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 67-64-1 | ACETONE | 0.05 | 500 | mg/Kg | 0.0456 | ND | 0.0266 J | ND | ND | ND | 0.031 |
| 71-43-2 | BENZENE | 0.06 | 44 | mg/Kg | 0.0128 | 0.011 | ND | ND | ND | ND | ND |
| 75-15-0 | CARBON DISULFIDE | -- | -- | mg/Kg | ND | ND | ND | ND | ND | 0.0063 | ND |
| 108-90-7 | CHLOROBENZENE | 1.1 | 500 | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 67-66-3 | CHLOROFORM | 0.37 | 350 | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 156-59-2 | CIS-1,2-DICHLOROETHYLENE | 0.25 | 500 | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 110-82-7 | CYCLOHEXANE | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 100-41-4 | ETHYLBENZENE | 1 | 390 | mg/Kg | 0.018 | 0.0018 J | ND | ND | ND | ND | ND |
| 98-82-8 | ISOPROPYLBENZENE (CUMENE) | -- | -- | mg/Kg | 0.0014 J | ND | ND | ND | ND | ND | ND |
| XYLMP | M,P-XYLENE (SUM OF ISOMERS) | 0.26 | 500 | mg/Kg | 0.0226 | 0.0014 J | ND | ND | ND | ND | ND |
| 79-20-9 | METHYL ACETATE | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 78-93-3 | METHYL ETHYL KETONE (2-BUTANONE) | 0.12 | 500 | mg/Kg | 0.0043 J | ND | ND | ND | ND | ND | ND |
| 108-10-1 | METHYL ISOBUTYL KETONE | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 108-87-2 | METHYLCYCLOHEXANE | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | 0.005 J |
| 75-09-2 | METHYLENE CHLORIDE | 0.05 | 500 | mg/Kg | ND | ND | 0.0024 J | 0.0027 J | ND | 0.0032 J | ND |
| 95-47-6 | O-XYLENE (1,2-DIMETHYLBENZENE) | 0.26 | 500 | mg/Kg | 0.0148 | ND | ND | ND | ND | ND | ND |
| 100-42-5 | STYRENE | -- | -- | mg/Kg | 0.0021 J | ND | ND | ND | ND | ND | ND |
| 1634-04-4 | TERT-BUTYL METHYL ETHER | 0.93 | 500 | mg/Kg | ND | 0.0026 J | ND | ND | ND | ND | ND |
| 127-18-4 | TETRACHLOROETHYLENE(PCE) | 1.3 | 150 | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 108-88-3 | TOLUENE | 0.7 | 500 | mg/Kg | 0.0197 | 0.0057 J | ND | ND | ND | ND | ND |
| 79-01-6 | TRICHLOROETHYLENE (TCE) | 0.47 | 200 | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 95-63-6 | 1,2,4-TRIMETHYLBENZENE | 3.6 | 190 | mg/kg | | | | | | | |
| 108-67-8 | 1,3,5-TRIMETHYLBENZENE (MESITYLENE) | 8.4 | 190 | mg/kg | | | | | | | |
| 103-65-1 | N-PROPYLBENZENE | 3.9 | 500 | mg/kg | | | | | | | |
| 135-98-8 | SEC-BUTYLBENZENE | 11 | 500 | mg/kg | | | | | | | |
| | **TOTAL VOCS** | **--** | **--** | **mg/Kg** | **0.1413** | **0.0225** | **0.029** | **0.0027** | **ND** | **0.0095** | **0.036** |

Exceeds NYSDEC Part 375 Unrestricted Soil Criteria
Exceeds NYSDEC Commercial Soil Criteria
(1) NYSDEC 6 NYCRR Part 375 Environmental Remediation Program (December 2006)
(2) -- indicates no clean up objective or background level is available
(3) NA indicates compound was not analyzed for
(4) ND indicates compound was not detected
(5) J indicates an estimated concentration; J+ indicated an estimated concentration biased high.
(6) R indicates rejected data
(7) Grey shaded values exceed NYSDEC Part 375 Unrestricted Soil Criteria
(8) Orange shaded values exceed NYSDEC Part 375 Commercial Soil Criteria

Table 3
Farrington Street Former MGP Site
Summary of Soil Analytical Data
Consolidated Edison Company of New York

| Consolidated Edison<br>Farrington Street Remedial Investigation<br>2009-2015 Soil Analytical Data<br>Detected Compounds Only | | | | Location ID: | SB-70 | SB-70 | SB-72 | SB-72 | SB-73 | SB-73 | SB-74 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Sample ID: | SB-70(7-9)-20140224 | SB-70(29-31)-20140224 | SB-72(7-9)-20141215 | SB-72(15-17)-20141215 | SB-73(14-16)-20150113 | SB-73(28-30)-20150113 | SB-74(7-9)-20141110 |
| | | | | Lab Sample Id | F1518-13 | F1518-14 | F5197-06 | F5197-07 | G1159-01 | G1159-02 | F4695-06 |
| | | | | Depth: | 7 - 9 ft | 29 - 31 ft | 7 - 9 ft | 15 - 17 ft | 14 - 16 ft | 28 - 30 ft | 7 - 9 ft |
| | | | | Source: | CTECH | CTECH | CTECH | CTECH | CTECH | CTECH | CTECH |
| | | NYSDEC Part 375 Unrestricted Soil Criteria | NYSDEC Part 375 Commercial Soil Criteria | SDG: | F1518 | F1518 | F5197 | F5197 | G1159 | G1159 | F4695 |
| | | | | Matrix: | SOIL | SOIL | SOIL | SOIL | SOIL | SOIL | SOIL |
| | | | | Sampled: | 2/24/2014 13:50 | 2/24/2014 14:45 | 12/15/2014 11:50 | 12/15/2014 13:35 | 1/13/2015 10:00 | 1/13/2015 12:00 | 11/10/2014 12:55 |
| | | | | Validated: | 5/21/2014 | 5/21/2014 | 2/25/2015 | 2/25/2015 | 2/25/2015 | 2/25/2015 | 2/25/2015 |
| CAS NO. | COMPOUND | | | UNITS: | | | | | | | |
| | SEMIVOLATILES | | | | | | | | | | |
| 95-94-3 | 1,2,4,5-TETRACHLOROBENZENE | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 58-90-2 | 2,3,4,6-TETRACHLOROPHENOL | -- | -- | mg/kg | ND | ND | ND | ND | ND | ND | ND |
| 88-06-2 | 2,4,6-TRICHLOROPHENOL | -- | -- | mg/kg | ND | ND | ND | ND | ND | ND | ND |
| 105-67-9 | 2,4-DIMETHYLPHENOL | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 91-57-6 | 2-METHYLNAPHTHALENE | -- | -- | mg/Kg | 3.3 J | ND | ND | ND | ND | ND | 0.22 J |
| 95-48-7 | 2-METHYLPHENOL (O-CRESOL) | 0.33 | 500 | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| MEPH3MEPH | 3- AND 4- METHYLPHENOL (TOTAL) | 0.33 | 500 | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 83-32-9 | ACENAPHTHENE | 20 | 500 | mg/Kg | ND | ND | ND | ND | ND | ND | 0.21 J |
| 208-96-8 | ACENAPHTHYLENE | 100 | 500 | mg/Kg | 0.79 J | ND | ND | ND | ND | ND | ND |
| 98-86-2 | ACETOPHENONE | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 120-12-7 | ANTHRACENE | 100 | 500 | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 100-52-7 | BENZALDEHYDE | -- | -- | mg/Kg | ND | ND | R | R | ND | ND | R |
| 56-55-3 | BENZO(A)ANTHRACENE | 1 | 5.6 | mg/Kg | **1.1** J | ND | ND | ND | ND | ND | ND |
| 50-32-8 | BENZO(A)PYRENE | 1 | 1 | mg/Kg | 0.76 J | ND | ND | ND | ND | ND | ND |
| 205-99-2 | BENZO(B)FLUORANTHENE | 1 | 5.6 | mg/Kg | 0.89 J | ND | ND | ND | 0.0833 J | ND | ND |
| 191-24-2 | BENZO(G,H,I)PERYLENE | 100 | 500 | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 207-08-9 | BENZO(K)FLUORANTHENE | 0.8 | 56 | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 85-68-7 | BENZYL BUTYL PHTHALATE | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 92-52-4 | BIPHENYL (DIPHENYL) | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 117-81-7 | BIS(2-ETHYLHEXYL) PHTHALATE | -- | -- | mg/Kg | 0.76 J | ND | ND | ND | ND | ND | ND |
| 105-60-2 | CAPROLACTAM | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 86-74-8 | CARBAZOLE | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 218-01-9 | CHRYSENE | 1 | 56 | mg/Kg | 1 J | ND | ND | ND | ND | ND | ND |
| 53-70-3 | DIBENZ(A,H)ANTHRACENE | 0.33 | 0.56 | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 132-64-9 | DIBENZOFURAN | 7 | 350 | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 84-66-2 | DIETHYL PHTHALATE | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 131-11-3 | DIMETHYL PHTHALATE | -- | -- | mg/Kg | ND | 0.96 | 0.67 | 0.16 J | 0.11 J | 0.14 J | 0.28 J |
| 84-74-2 | DI-N-BUTYL PHTHALATE | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 117-84-0 | DI-N-OCTYLPHTHALATE | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 206-44-0 | FLUORANTHENE | 100 | 500 | mg/Kg | 3.2 J | ND | ND | ND | 0.14 J | ND | 0.14 J |
| 86-73-7 | FLUORENE | 30 | 500 | mg/Kg | 0.81 J | ND | ND | ND | ND | ND | 0.21 J |
| 193-39-5 | INDENO(1,2,3-C,D)PYRENE | 0.5 | 5.6 | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 86-30-6 | N-NITROSODIPHENYLAMINE | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 91-20-3 | NAPHTHALENE | 12 | 500 | mg/Kg | 4.7 | ND | ND | ND | ND | ND | 0.6 |
| 87-86-5 | PENTACHLOROPHENOL | 0.8 | 6.7 | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 85-01-8 | PHENANTHRENE | 100 | 500 | mg/Kg | 2.7 J | ND | ND | ND | ND | ND | ND |
| 108-95-2 | PHENOL | 0.33 | 500 | mg/Kg | ND | ND | ND | 0.16 J | 0.15 J | 0.19 J | 0.0831 J |
| 129-00-0 | PYRENE | 100 | 500 | mg/Kg | 1.9 J | ND | ND | ND | 0.12 J | ND | 0.12 J |
| | **TOTAL SVOCS** | -- | -- | **mg/kg** | **21.91** | **0.96** | **0.67** | **0.32** | **0.6033** | **0.33** | **1.8631** |

Exceeds NYSDEC Part 375 Unrestricted Soil Criteria
Exceeds NYSDEC Commercial Soil Criteria
(1) NYSDEC 6 NYCRR Part 375 Environmental Remediation Program (December 2006)
(2) -- indicates no clean up objective or background level is available
(3) NA indicates compound was not analyzed for
(4) ND indicates compound was not detected
(5) J indicates an estimated concentration
(6) R indicates rejected data
(7) Grey shaded values exceed NYSDEC Part 375 Unrestricted Soil Criteria
(8) Orange shaded values exceed NYSDEC Part 375 Commercial Soil Criteria

Table 3
Farrington Street Former MGP Site
Summary of Soil Analytical Data
Consolidated Edison Company of New York

| Consolidated Edison<br>Farrington Street Remedial Investigation<br>2009-2015 Soil Analytical Data<br>Detected Compounds Only | | | | Location ID: | SB-70 | SB-70 | SB-72 | SB-72 | SB-73 | SB-73 | SB-74 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Sample ID: | SB-70(7-9)-20140224 | SB-70(29-31)-20140224 | SB-72(7-9)-20141215 | SB-72(15-17)-20141215 | SB-73(14-16)-20150113 | SB-73(28-30)-20150113 | SB-74(7-9)-20141110 |
| | | | | Lab Sample Id | F1518-13 | F1518-14 | F5197-06 | F5197-07 | G1159-01 | G1159-02 | F4695-06 |
| | | | | Depth: | 7 - 9 ft | 29 - 31 ft | 7 - 9 ft | 15 - 17 ft | 14 - 16 ft | 28 - 30 ft | 7 - 9 ft |
| | | | | Source: | CTECH | CTECH | CTECH | CTECH | CTECH | CTECH | CTECH |
| | | NYSDEC Part 375 Unrestricted Soil Criteria | NYSDEC Part 375 Commercial Soil Criteria | SDG: | F1518 | F1518 | F5197 | F5197 | G1159 | G1159 | F4695 |
| | | | | Matrix: | SOIL | SOIL | SOIL | SOIL | SOIL | SOIL | SOIL |
| | | | | Sampled: | 2/24/2014 13:50 | 2/24/2014 14:45 | 12/15/2014 11:50 | 12/15/2014 13:35 | 1/13/2015 10:00 | 1/13/2015 12:00 | 11/10/2014 12:55 |
| | | | | Validated: | 5/21/2014 | 5/21/2014 | 2/25/2015 | 2/25/2015 | 2/25/2015 | 2/25/2015 | 2/25/2015 |
| CAS NO. | COMPOUND | | | UNITS: | | | | | | | |
| | INORGANICS | | | | | | | | | | |
| 7429-90-5 | ALUMINUM | -- | -- | mg/Kg | 6160 | 9070 | 7880 | 4610 | 5530 | 5420 | 3740 |
| 7440-36-0 | ANTIMONY | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 7440-38-2 | ARSENIC | 13 | 16 | mg/Kg | 5.25 | 1.11 | 3.98 | 2.45 | 2.61 | 1.99 | 5.32 |
| 7440-39-3 | BARIUM | 350 | 400 | mg/Kg | 53.5 J+ | 86.9 J+ | 105 | 23.5 | 37.3 | 37.8 | 35.9 |
| 7440-41-7 | BERYLLIUM | 7.2 | 590 | mg/Kg | ND | ND | 0.512 | 0.36 | 0.395 | 0.475 | 0.329 |
| 7440-43-9 | CADMIUM | 2.5 | 9.3 | mg/Kg | 1.09 | 0.503 | ND | ND | ND | ND | ND |
| 7440-70-2 | CALCIUM | -- | -- | mg/Kg | 11700 J | 448 J | 1440 | 629 | 2950 | 2450 | 1780 |
| 7440-47-3 | CHROMIUM, TOTAL | 30 | 1500 | mg/Kg | 13.4 | 24.9 | 19.7 | 16.3 | 14.7 | 23.6 | 11.5 |
| 7440-48-4 | COBALT | -- | -- | mg/Kg | 6.83 J+ | 12.3 J+ | 10.71 | 6.58 | 8.24 | 9.58 | 6.78 |
| 7440-50-8 | COPPER | 50 | 270 | mg/Kg | 29.6 J | 10.36 J | **129** | 16.3 | 41.1 J+ | 13.7 J+ | 30.5 J+ |
| 7439-89-6 | IRON | -- | -- | mg/Kg | 19100 | 24800 | 23300 | 12400 | 15400 | 17200 | 11800 |
| 7439-92-1 | LEAD | 63 | 1000 | mg/Kg | **94.9** | 3.48 | 39 | 21.4 | 23.5 | 4.65 | 44.9 |
| 7439-95-4 | MAGNESIUM | -- | -- | mg/Kg | 1890 | 4500 | 2630 | 1650 | 2580 | 3050 | 1690 |
| 7439-96-5 | MANGANESE | 1600 | 10000 | mg/Kg | 212 J | 257 J | 554 | 521 | 171 J+ | 1550 J+ | 173 J+ |
| 7439-97-6 | MERCURY | 0.18 | 2.8 | mg/Kg | 0.102 | ND | 0.061 | 0.037 | 0.106 | 0.005 J | 0.091 |
| 7440-02-0 | NICKEL | 30 | 310 | mg/Kg | 17.7 | 19.3 | 21.8 | 16.8 | 29.3 | 29.9 | 18.4 |
| 7440-09-7 | POTASSIUM | -- | -- | mg/Kg | 581 | 5550 | 2980 | 1170 | 1180 | 1560 | 664 |
| 7782-49-2 | SELENIUM | 3.9 | 1500 | mg/Kg | 1.01 | 0.738 J | 1.14 | 0.641 J | 0.577 J | 0.707 J | 0.808 J |
| 7440-22-4 | SILVER | 2 | 1500 | mg/Kg | 0.489 J | 0.529 J | 0.163 J | 0.155 J | ND | ND | ND |
| 7440-23-5 | SODIUM | -- | -- | mg/Kg | 482 | 151 | 234 | 672 | 238 | 1150 | 190 |
| 7440-28-0 | THALLIUM | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 7440-62-2 | VANADIUM | -- | -- | mg/Kg | 25.6 | 33.3 | 27.6 | 18.1 | 17.7 | 25.7 | 14.9 |
| 7440-66-6 | ZINC | 109 | 10000 | mg/Kg | 88.2 | 47.4 | **156** | 35.2 | 48.4 | 34.4 | 43.9 |
| 57-12-5 | CYANIDE | 27 | 27 | mg/Kg | 0.262 J | 0.069 J | ND | ND | ND | ND | ND |

Exceeds NYSDEC Part 375 Unrestricted Soil Criteria
Exceeds NYSDEC Commercial Soil Criteria

(1) NYSDEC 6 NYCRR Part 375 Environmental Remediation Program (December 2006)
(2) -- indicates no clean up objective or background level is available
(3) NA indicates compound was not analyzed for
(4) ND indicates compound was not detected
(5) J indicates an estimated concentration
(6) R indicates rejected data
(7) Grey shaded values exceed NYSDEC Part 375 Unrestricted Soil Criteria
(8) Orange shaded values exceed NYSDEC Part 375 Commercial Soil Criteria

Table 3
Farrington Street Former MGP Site
Summary of Soil Analytical Data
Consolidated Edison Company of New York

| Consolidated Edison<br>Farrington Street Remedial Investigation<br>2009-2015 Soil Analytical Data<br>Detected Compounds Only | | | | Location ID: | SB-74 | SB-75 | Dup of SB-75(5-7)-20141110<br>SB-75 | SB-75 | SB-76 | SB-76 | Dup of SB-76(11-13)-20150623<br>SB-76 | SB-76 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Sample ID: | SB-74(13-15)-20141110 | SB-75(5-7)-20141110 | SB-175(5-7)-20141110 | SB-75(15-20)-20141110 | SB-76(11-13)-20150623 | SB-176(11-13)-20150623 | SB-176(11-13)-20150623 | SB-76(8-10)-20150623 |
| | | | | Lab Sample Id | F4695-07 | F4695-01 | F4695-05 | F4695-02 | G2747-02 | G2747-05 | G2747-05 | G2747-01 |
| | | | | Depth: | 13 - 15 ft | 5 - 7 ft | 5 - 7 ft | 15 - 20 ft | 11 - 13 ft | 11 - 13 ft | 11 - 13 ft | 8 - 10 ft |
| | | | | Source: | CTECH | CTECH | CTECH | CTECH | CTECH | CTECH | CTECH | CTECH |
| | | NYSDEC Part 375 Unrestricted Soil Criteria | NYSDEC Part 375 Commercial Soil Criteria | SDG: | F4695 | F4695 | F4695 | F4695 | G2747 | G2747 | G2747 | G2747 |
| | | | | Matrix: | SOIL | SOIL | SOIL | SOIL | SOIL | SOIL | SOIL | SOIL |
| | | | | Sampled: | 11/10/2014 13:15 | 11/10/2014 9:00 | 11/10/2014 9:00 | 11/10/2014 10:05 | 6/23/2015 11:00 | 6/23/2015 11:00 | 6/23/2015 11:00 | 6/23/2015 10:50 |
| | | | | Validated: | 2/25/2015 | 2/25/2015 | 2/25/2015 | 2/25/2015 | 7/28/2015 | 7/28/2015 | 7/28/2015 | 7/28/2015 |
| CAS NO. | COMPOUND | | | UNITS: | | | | | | | | |
| | VOLATILES | | | | | | | | | | | |
| 79-34-5 | 1,1,2,2-TETRACHLOROETHANE | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | ND | ND |
| 120-82-1 | 1,2,4-TRICHLOROBENZENE | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | ND | ND |
| 95-50-1 | 1,2-DICHLOROBENZENE | 1.1 | 500 | mg/Kg | ND | ND | ND | ND | ND | ND | ND | ND |
| 541-73-1 | 1,3-DICHLOROBENZENE | 2.4 | 280 | mg/Kg | ND | ND | ND | ND | ND | ND | ND | ND |
| 106-46-7 | 1,4-DICHLOROBENZENE | 1.8 | 130 | mg/Kg | ND | ND | ND | ND | ND | ND | ND | ND |
| 591-78-6 | 2-HEXANONE | -- | -- | mg/Kg | ND | ND | ND | 0.012 J | ND | ND | ND | ND |
| 67-64-1 | ACETONE | 0.05 | 500 | mg/Kg | **0.0672** | ND | ND | ND | **0.21** J | **0.0612** J | **0.0612** J | 0.0177 J |
| 71-43-2 | BENZENE | 0.06 | 44 | mg/Kg | ND | ND | ND | ND | ND | ND | ND | ND |
| 75-15-0 | CARBON DISULFIDE | -- | -- | mg/Kg | 0.0021 J | ND | ND | ND | ND | ND | ND | ND |
| 108-90-7 | CHLOROBENZENE | 1.1 | 500 | mg/Kg | ND | ND | ND | ND | ND | ND | ND | ND |
| 67-66-3 | CHLOROFORM | 0.37 | 350 | mg/Kg | ND | ND | ND | ND | ND | ND | ND | ND |
| 156-59-2 | CIS-1,2-DICHLOROETHYLENE | 0.25 | 500 | mg/Kg | ND | ND | ND | ND | ND | ND | ND | ND |
| 110-82-7 | CYCLOHEXANE | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | ND | ND |
| 100-41-4 | ETHYLBENZENE | 1 | 390 | mg/Kg | ND | ND | ND | ND | ND | ND | ND | ND |
| 98-82-8 | ISOPROPYLBENZENE (CUMENE) | -- | -- | mg/Kg | ND | 0.0016 J | 0.003 J | ND | ND | 0.0041 J | ND | ND |
| XYLMP | M,P-XYLENE (SUM OF ISOMERS) | 0.26 | 500 | mg/Kg | ND | ND | ND | ND | ND | ND | ND | ND |
| 79-20-9 | METHYL ACETATE | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | ND | ND |
| 78-93-3 | METHYL ETHYL KETONE (2-BUTANONE) | 0.12 | 500 | mg/Kg | 0.0136 J | ND | ND | ND | 0.0554 J | 0.0152 J | ND | ND |
| 108-10-1 | METHYL ISOBUTYL KETONE | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | ND | ND |
| 108-87-2 | METHYLCYCLOHEXANE | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | ND | ND |
| 75-09-2 | METHYLENE CHLORIDE | 0.05 | 500 | mg/Kg | ND | 0.0037 J | ND | ND | 0.0017 J | 0.0022 J | 0.0014 J | 0.0014 J |
| 95-47-6 | O-XYLENE (1,2-DIMETHYLBENZENE) | 0.26 | 500 | mg/Kg | ND | 0.0017 J | 0.0026 J | ND | ND | ND | ND | ND |
| 100-42-5 | STYRENE | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | ND | ND |
| 1634-04-4 | TERT-BUTYL METHYL ETHER | 0.93 | 500 | mg/Kg | ND | ND | ND | ND | ND | ND | ND | ND |
| 127-18-4 | TETRACHLOROETHYLENE(PCE) | 1.3 | 150 | mg/Kg | ND | ND | ND | ND | ND | ND | ND | ND |
| 108-88-3 | TOLUENE | 0.7 | 500 | mg/Kg | ND | ND | ND | ND | ND | ND | ND | ND |
| 79-01-6 | TRICHLOROETHYLENE (TCE) | 0.47 | 200 | mg/Kg | ND | ND | ND | ND | ND | ND | ND | ND |
| 95-63-6 | 1,2,4-TRIMETHYLBENZENE | 3.6 | 190 | mg/kg | | | | | | | | |
| 108-67-8 | 1,3,5-TRIMETHYLBENZENE (MESITYLENE) | 8.4 | 190 | mg/kg | | | | | | | | |
| 103-65-1 | N-PROPYLBENZENE | 3.9 | 500 | mg/kg | | | | | | | | |
| 135-98-8 | SEC-BUTYLBENZENE | 11 | 500 | mg/kg | | | | | | | | |
| | **TOTAL VOCS** | **--** | **--** | **mg/Kg** | **0.0829** | **0.007** | **0.0056** | **0.012** | **0.2671** | **0.0827** | **0.0827** | **0.0191** |

Exceeds NYSDEC Part 375 Unrestricted Soil Criteria
Exceeds NYSDEC Commercial Soil Criteria
(1) NYSDEC 6 NYCRR Part 375 Environmental Remediation Program (December 2006)
(2) -- indicates no clean up objective or background level is available
(3) NA indicates compound was not analyzed for
(4) ND indicates compound was not detected
(5) J indicates an estimated concentration; J+ indicated an estimated concentration biased high.
(6) R indicates rejected data
(7) Grey shaded values exceed NYSDEC Part 375 Unrestricted Soil Criteria
(8) Orange shaded values exceed NYSDEC Part 375 Commercial Soil Criteria

Table 3
Farrington Street Former MGP Site
Summary of Soil Analytical Data
Consolidated Edison Company of New York

| Consolidated Edison<br>Farrington Street Remedial Investigation<br>2009-2015 Soil Analytical Data<br>Detected Compounds Only | | | | Location ID: | SB-74 | SB-75 | SB-75<br>Dup of<br>SB-75(5-7)-20141110 | SB-75 | SB-76 | SB-76<br>Dup of<br>SB-76(11-13)-20150623 | SB-76 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Sample ID: | SB-74(13-15)-20141110 | SB-75(5-7)-20141110 | SB-175(5-7)-20141110 | SB-75(15-20)-20141110 | SB-76(11-13)-20150623 | SB-176(11-13)-20150623 | SB-76(8-10)-20150623 |
| | | | | Lab Sample Id | F4695-07 | F4695-01 | F4695-05 | F4695-02 | G2747-02 | G2747-05 | G2747-01 |
| | | | | Depth: | 13 - 15 ft | 5 - 7 ft | 5 - 7 ft | 15 - 20 ft | 11 - 13 ft | 11 - 13 ft | 8 - 10 ft |
| | | | | Source: | CTECH | CTECH | CTECH | CTECH | CTECH | CTECH | CTECH |
| | | NYSDEC Part 375 Unrestricted Soil Criteria | NYSDEC Part 375 Commercial Soil Criteria | SDG: | F4695 | F4695 | F4695 | F4695 | G2747 | G2747 | G2747 |
| | | | | Matrix: | SOIL | SOIL | SOIL | SOIL | SOIL | SOIL | SOIL |
| | | | | Sampled: | 11/10/2014 13:15 | 11/10/2014 9:00 | 11/10/2014 9:00 | 11/10/2014 10:05 | 6/23/2015 11:00 | 6/23/2015 11:00 | 6/23/2015 10:50 |
| | | | | Validated: | 2/25/2015 | 2/25/2015 | 2/25/2015 | 2/25/2015 | 7/28/2015 | 7/28/2015 | 7/28/2015 |
| CAS NO. | COMPOUND | | | UNITS: | | | | | | | |
| | SEMIVOLATILES | | | | | | | | | | |
| 95-94-3 | 1,2,4,5-TETRACHLOROBENZENE | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 58-90-2 | 2,3,4,6-TETRACHLOROPHENOL | -- | -- | mg/kg | ND | ND | ND | ND | ND | ND | ND |
| 88-06-2 | 2,4,6-TRICHLOROPHENOL | -- | -- | mg/kg | ND | ND | ND | ND | ND | ND | ND |
| 105-67-9 | 2,4-DIMETHYLPHENOL | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 91-57-6 | 2-METHYLNAPHTHALENE | -- | -- | mg/Kg | ND | 1.1 | 1.6 | ND | ND | ND | ND |
| 95-48-7 | 2-METHYLPHENOL (O-CRESOL) | 0.33 | 500 | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| MEPH3MEPH | 3- AND 4- METHYLPHENOL (TOTAL) | 0.33 | 500 | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 83-32-9 | ACENAPHTHENE | 20 | 500 | mg/Kg | ND | ND | 0.0803 J | ND | ND | ND | ND |
| 208-96-8 | ACENAPHTHYLENE | 100 | 500 | mg/Kg | ND | 0.14 J | 0.31 J | ND | 0.11 J | 0.27 J | 0.25 J |
| 98-86-2 | ACETOPHENONE | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 120-12-7 | ANTHRACENE | 100 | 500 | mg/Kg | ND | 0.14 J | 0.25 J | ND | 0.0934 J | 0.17 J | 0.1 J |
| 100-52-7 | BENZALDEHYDE | -- | -- | mg/Kg | R | R | R | R | ND | ND | ND |
| 56-55-3 | BENZO(A)ANTHRACENE | 1 | 5.6 | mg/Kg | ND | 0.39 | 0.65 | ND | 0.26 J | 0.33 J | 0.3 J |
| 50-32-8 | BENZO(A)PYRENE | 1 | 1 | mg/Kg | ND | 0.3 J | 0.49 | ND | 0.3 J | 0.41 J | 0.37 J |
| 205-99-2 | BENZO(B)FLUORANTHENE | 1 | 5.6 | mg/Kg | ND | 0.45 | 0.6 | ND | 0.37 J | 0.46 J | 0.4 |
| 191-24-2 | BENZO(G,H,I)PERYLENE | 100 | 500 | mg/Kg | ND | 0.2 J | 0.31 J | ND | 0.23 J | 0.35 J | 0.35 J |
| 207-08-9 | BENZO(K)FLUORANTHENE | 0.8 | 56 | mg/Kg | ND | 0.0787 J | 0.28 J | ND | 0.0964 J | 0.11 J | 0.16 J |
| 85-68-7 | BENZYL BUTYL PHTHALATE | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 92-52-4 | BIPHENYL (DIPHENYL) | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 117-81-7 | BIS(2-ETHYLHEXYL) PHTHALATE | -- | -- | mg/Kg | ND | 0.34 J | 0.44 | ND | ND | ND | ND |
| 105-60-2 | CAPROLACTAM | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 86-74-8 | CARBAZOLE | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 218-01-9 | CHRYSENE | 1 | 56 | mg/Kg | ND | 0.44 | 0.62 | ND | 0.26 J | 0.3 J | 0.37 J |
| 53-70-3 | DIBENZ(A,H)ANTHRACENE | 0.33 | 0.56 | mg/Kg | ND | ND | 0.0848 J | ND | 0.0938 J | 0.17 J | 0.14 J |
| 132-64-9 | DIBENZOFURAN | 7 | 350 | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 84-66-2 | DIETHYL PHTHALATE | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 131-11-3 | DIMETHYL PHTHALATE | -- | -- | mg/Kg | 1 | 0.29 J | 0.27 J | 0.38 J | 0.47 | 0.59 | 0.26 J |
| 84-74-2 | DI-N-BUTYL PHTHALATE | -- | -- | mg/Kg | ND | 0.75 | 0.53 | ND | ND | ND | ND |
| 117-84-0 | DI-N-OCTYLPHTHALATE | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 206-44-0 | FLUORANTHENE | 100 | 500 | mg/Kg | ND | 0.54 | 0.75 | ND | 0.29 J | 0.26 J | 0.25 J |
| 86-73-7 | FLUORENE | 30 | 500 | mg/Kg | ND | ND | 0.14 J | ND | ND | ND | ND |
| 193-39-5 | INDENO(1,2,3-C,D)PYRENE | 0.5 | 5.6 | mg/Kg | ND | 0.18 J | 0.25 J | ND | 0.19 J | 0.3 J | 0.28 J |
| 86-30-6 | N-NITROSODIPHENYLAMINE | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 91-20-3 | NAPHTHALENE | 12 | 500 | mg/Kg | ND | 3.5 J+ | 5 | 0.15 J | ND | 0.14 J | ND |
| 87-86-5 | PENTACHLOROPHENOL | 0.8 | 6.7 | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 85-01-8 | PHENANTHRENE | 100 | 500 | mg/Kg | ND | 0.5 | 0.66 | ND | 0.17 J | 0.14 J | 0.12 J |
| 108-95-2 | PHENOL | 0.33 | 500 | mg/Kg | ND | ND | 0.0922 J | ND | ND | ND | ND |
| 129-00-0 | PYRENE | 100 | 500 | mg/Kg | ND | 0.7 | 1 | ND | 0.35 J | 0.38 J | 0.4 |
| | **TOTAL SVOCS** | -- | -- | **mg/kg** | **1** | **10.0387** | **14.4073** | **0.53** | **3.2836** | **4.38** | **3.75** |

Exceeds NYSDEC Part 375 Unrestricted Soil Criteria
Exceeds NYSDEC Commercial Soil Criteria
(1) NYSDEC 6 NYCRR Part 375 Environmental Remediation Program (December 2006)
(2) -- indicates no clean up objective or background level is available
(3) NA indicates compound was not analyzed for
(4) ND indicates compound was not detected
(5) J indicates an estimated concentration
(6) R indicates rejected data
(7) Grey shaded values exceed NYSDEC Part 375 Unrestricted Soil Criteria
(8) Orange shaded values exceed NYSDEC Part 375 Commercial Soil Criteria

Table 3
Farrington Street Former MGP Site
Summary of Soil Analytical Data
Consolidated Edison Company of New York

| Consolidated Edison<br>Farrington Street Remedial Investigation<br>2009-2015 Soil Analytical Data<br>Detected Compounds Only | | | | Location ID: | SB-74 | SB-75 | SB-75<br>Dup of<br>SB-75(5-7)-20141110 | SB-75 | SB-76 | SB-76<br>Dup of<br>SB-76(11-13)-20150623 | SB-76 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Sample ID: | SB-74(13-15)-20141110 | SB-75(5-7)-20141110 | SB-175(5-7)-20141110 | SB-75(15-20)-20141110 | SB-76(11-13)-20150623 | SB-176(11-13)-20150623 | SB-76(8-10)-20150623 |
| | | | | Lab Sample Id | F4695-07 | F4695-01 | F4695-05 | F4695-02 | G2747-02 | G2747-05 | G2747-01 |
| | | | | Depth: | 13 - 15 ft | 5 - 7 ft | 5 - 7 ft | 15 - 20 ft | 11 - 13 ft | 11 - 13 ft | 8 - 10 ft |
| | | | | Source: | CTECH | CTECH | CTECH | CTECH | CTECH | CTECH | CTECH |
| | | NYSDEC Part 375 Unrestricted Soil Criteria | NYSDEC Part 375 Commercial Soil Criteria | SDG: | F4695 | F4695 | F4695 | F4695 | G2747 | G2747 | G2747 |
| | | | | Matrix: | SOIL | SOIL | SOIL | SOIL | SOIL | SOIL | SOIL |
| | | | | Sampled: | 11/10/2014 13:15 | 11/10/2014 9:00 | 11/10/2014 9:00 | 11/10/2014 10:05 | 6/23/2015 11:00 | 6/23/2015 11:00 | 6/23/2015 10:50 |
| | | | | Validated: | 2/25/2015 | 2/25/2015 | 2/25/2015 | 2/25/2015 | 7/28/2015 | 7/28/2015 | 7/28/2015 |
| CAS NO. | COMPOUND | | | UNITS: | | | | | | | |
| | INORGANICS | | | | | | | | | | |
| 7429-90-5 | ALUMINUM | -- | -- | mg/Kg | 6770 | 5850 | 4850 | 8390 J | 6570 | 6780 | 7890 |
| 7440-36-0 | ANTIMONY | -- | -- | mg/Kg | ND | 0.667 J | ND | ND | ND | ND | ND |
| 7440-38-2 | ARSENIC | 13 | 16 | mg/Kg | 2.32 | 8.91 | 8.06 | 3.53 | 8.22 | **13.5** | 3.02 |
| 7440-39-3 | BARIUM | 350 | 400 | mg/Kg | 53.6 | 119 | 122 | 23.5 | 57.3 J | 75.5 J | 60 |
| 7440-41-7 | BERYLLIUM | 7.2 | 590 | mg/Kg | 0.536 | 0.462 | 0.401 | 0.542 | 0.451 | 0.662 | 0.467 |
| 7440-43-9 | CADMIUM | 2.5 | 9.3 | mg/Kg | ND | ND | ND | ND | 0.537 | 0.764 | 0.752 |
| 7440-70-2 | CALCIUM | -- | -- | mg/Kg | 1190 | 30600 J | 19900 J | 1580 J | 2610 J | 12400 J | 5890 |
| 7440-47-3 | CHROMIUM, TOTAL | 30 | 1500 | mg/Kg | 16.8 | 16.1 | 13.9 | 20.8 J | 14.7 J- | 14 | 15.2 |
| 7440-48-4 | COBALT | -- | -- | mg/Kg | 8.55 | 8 | 6.62 | 8.43 | 6.66 | 7.51 | 8.48 |
| 7440-50-8 | COPPER | 50 | 270 | mg/Kg | 14 J+ | **52.6** J+ | **55.2** J+ | 13.6 J | 26.9 | 32 | 23.2 |
| 7439-89-6 | IRON | -- | -- | mg/Kg | 18500 | 18600 | 15700 | 17800 | 15700 | 16100 | 18200 |
| 7439-92-1 | LEAD | 63 | 1000 | mg/Kg | 22.1 | **235** | **269** | 19.7 | **63.1** | **83.9** | **131** |
| 7439-95-4 | MAGNESIUM | -- | -- | mg/Kg | 2590 | 12800 J | 7980 J | 2590 J | 1960 J | 6330 J | 2580 |
| 7439-96-5 | MANGANESE | 1600 | 10000 | mg/Kg | 274 J+ | 211 J+ | 177 J+ | 82.1 J | 102 J | 132 J | 193 |
| 7439-97-6 | MERCURY | 0.18 | 2.8 | mg/Kg | 0.039 | 0.166 | 0.157 | 0.017 | 0.08 | 0.113 | 0.177 |
| 7440-02-0 | NICKEL | 30 | 310 | mg/Kg | 19.4 | 22.8 | 18 | 18.2 | 17.1 | 20.6 | 16.8 |
| 7440-09-7 | POTASSIUM | -- | -- | mg/Kg | 1460 | 748 | 637 | 1670 J | 881 | 902 | 1370 |
| 7782-49-2 | SELENIUM | 3.9 | 1500 | mg/Kg | 0.547 J | 0.589 J | 0.616 J | 0.868 J | ND | ND | ND |
| 7440-22-4 | SILVER | 2 | 1500 | mg/Kg | ND | ND | ND | ND | 1.12 J- | 1.17 | 1.25 |
| 7440-23-5 | SODIUM | -- | -- | mg/Kg | 543 | 275 | 239 | 413 | 298 | 445 | 154 |
| 7440-28-0 | THALLIUM | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND | ND |
| 7440-62-2 | VANADIUM | -- | -- | mg/Kg | 20.5 | 20.8 | 19 | 28.2 J | 21.6 J | 25.1 J | 23.5 |
| 7440-66-6 | ZINC | 109 | 10000 | mg/Kg | 41.4 | **197** | **187** | 38.7 J+ | 57.5 | 87.9 | 74 |
| 57-12-5 | CYANIDE | 27 | 27 | mg/Kg | ND | 0.645 J | 0.088 J | ND | 0.094 J | 0.267 J | 0.194 J |

Exceeds NYSDEC Part 375 Unrestricted Soil Criteria
Exceeds NYSDEC Commercial Soil Criteria

(1) NYSDEC 6 NYCRR Part 375 Environmental Remediation Program (December 2006)
(2) -- indicates no clean up objective or background level is available
(3) NA indicates compound was not analyzed for
(4) ND indicates compound was not detected
(5) J indicates an estimated concentration
(6) R indicates rejected data
(7) Grey shaded values exceed NYSDEC Part 375 Unrestricted Soil Criteria
(8) Orange shaded values exceed NYSDEC Part 375 Commercial Soil Criteria

Table 3
Farrington Street Former MGP Site
Summary of Soil Analytical Data
Consolidated Edison Company of New York

| Consolidated Edison<br>Farrington Street Remedial Investigation<br>2009-2015 Soil Analytical Data<br>Detected Compounds Only | | | | Location ID: | SB-77 | SB-77 | SB-84 | SB-84 | SB-85 | SB-85 |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Sample ID: | SB-77(7-9)-20141216 | SB-77(15-17)-20141216 | SB-84(7-9)-20150114 | SB-84(17-19)-20150114 | SB-85(7-9)-20150115 | SB-85(29-31)-20150115 |
| | | | | Lab Sample Id | F5197-08 | F5197-09 | G1159-03 | G1159-04 | G1159-07 | G1159-08 |
| | | | | Depth: | 7 - 9 ft | 15 - 17 ft | 7 - 9 ft | 17 - 19 ft | 7 - 9 ft | 29 - 31 ft |
| | | | | Source: | CTECH | CTECH | CTECH | CTECH | CTECH | CTECH |
| | | NYSDEC | NYSDEC | SDG: | F5197 | F5197 | G1159 | G1159 | G1159 | G1159 |
| | | Part 375 | Part 375 | Matrix: | SOIL | SOIL | SOIL | SOIL | SOIL | SOIL |
| | | Unrestricted | Commercial | Sampled: | 12/16/2014 8:10 | 12/16/2014 8:30 | 1/14/2015 9:35 | 1/14/2015 10:50 | 1/15/2015 9:10 | 1/15/2015 11:30 |
| | | Soil Criteria | Soil Criteria | Validated: | 2/25/2015 | 2/25/2015 | 2/25/2015 | 2/25/2015 | 2/25/2015 | 2/25/2015 |
| CAS NO. | COMPOUND | | | UNITS: | | | | | | |
| | VOLATILES | | | | | | | | | |
| 79-34-5 | 1,1,2,2-TETRACHLOROETHANE | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND |
| 120-82-1 | 1,2,4-TRICHLOROBENZENE | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND |
| 95-50-1 | 1,2-DICHLOROBENZENE | 1.1 | 500 | mg/Kg | ND | ND | ND | ND | ND | ND |
| 541-73-1 | 1,3-DICHLOROBENZENE | 2.4 | 280 | mg/Kg | ND | ND | ND | ND | ND | ND |
| 106-46-7 | 1,4-DICHLOROBENZENE | 1.8 | 130 | mg/Kg | ND | ND | ND | ND | ND | ND |
| 591-78-6 | 2-HEXANONE | -- | -- | mg/Kg | ND | ND | ND | 0.0116 J | ND | ND |
| 67-64-1 | ACETONE | 0.05 | 500 | mg/Kg | 0.0253 J | ND | ND | ND | **0.45** | ND |
| 71-43-2 | BENZENE | 0.06 | 44 | mg/Kg | ND | ND | ND | ND | ND | ND |
| 75-15-0 | CARBON DISULFIDE | -- | -- | mg/Kg | ND | ND | 0.0016 J | ND | ND | 0.0077 J |
| 108-90-7 | CHLOROBENZENE | 1.1 | 500 | mg/Kg | ND | ND | ND | ND | ND | ND |
| 67-66-3 | CHLOROFORM | 0.37 | 350 | mg/Kg | ND | ND | ND | ND | ND | ND |
| 156-59-2 | CIS-1,2-DICHLOROETHYLENE | 0.25 | 500 | mg/Kg | ND | ND | ND | ND | ND | ND |
| 110-82-7 | CYCLOHEXANE | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND |
| 100-41-4 | ETHYLBENZENE | 1 | 390 | mg/Kg | ND | ND | ND | ND | ND | ND |
| 98-82-8 | ISOPROPYLBENZENE (CUMENE) | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND |
| XYLMP | M,P-XYLENE (SUM OF ISOMERS) | 0.26 | 500 | mg/Kg | ND | ND | ND | ND | ND | ND |
| 79-20-9 | METHYL ACETATE | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND |
| 78-93-3 | METHYL ETHYL KETONE (2-BUTANONE) | 0.12 | 500 | mg/Kg | ND | ND | ND | ND | 0.0966 | ND |
| 108-10-1 | METHYL ISOBUTYL KETONE | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND |
| 108-87-2 | METHYLCYCLOHEXANE | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND |
| 75-09-2 | METHYLENE CHLORIDE | 0.05 | 500 | mg/Kg | 0.0033 J | 0.0043 J | 0.0033 J | ND | ND | 0.0041 J |
| 95-47-6 | O-XYLENE (1,2-DIMETHYLBENZENE) | 0.26 | 500 | mg/Kg | ND | ND | ND | ND | ND | ND |
| 100-42-5 | STYRENE | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND |
| 1634-04-4 | TERT-BUTYL METHYL ETHER | 0.93 | 500 | mg/Kg | ND | ND | ND | ND | ND | ND |
| 127-18-4 | TETRACHLOROETHYLENE(PCE) | 1.3 | 150 | mg/Kg | ND | ND | ND | ND | ND | ND |
| 108-88-3 | TOLUENE | 0.7 | 500 | mg/Kg | ND | ND | ND | ND | ND | ND |
| 79-01-6 | TRICHLOROETHYLENE (TCE) | 0.47 | 200 | mg/Kg | ND | ND | ND | ND | ND | ND |
| 95-63-6 | 1,2,4-TRIMETHYLBENZENE | 3.6 | 190 | mg/kg | | | | | | |
| 108-67-8 | 1,3,5-TRIMETHYLBENZENE (MESITYLENE) | 8.4 | 190 | mg/kg | | | | | | |
| 103-65-1 | N-PROPYLBENZENE | 3.9 | 500 | mg/kg | | | | | | |
| 135-98-8 | SEC-BUTYLBENZENE | 11 | 500 | mg/kg | | | | | | |
| | **TOTAL VOCS** | **--** | **--** | **mg/Kg** | **0.0286** | **0.0043** | **0.0049** | **0.0116** | **0.5466** | **0.0118** |

Exceeds NYSDEC Part 375 Unrestricted Soil Criteria
Exceeds NYSDEC Commercial Soil Criteria
(1) NYSDEC 6 NYCRR Part 375 Environmental Remediation Program (December 2006)
(2) -- indicates no clean up objective or background level is available
(3) NA indicates compound was not analyzed for
(4) ND indicates compound was not detected
(5) J indicates an estimated concentration; J+ indicated an estimated concentration biased high.
(6) R indicates rejected data
(7) Grey shaded values exceed NYSDEC Part 375 Unrestricted Soil Criteria
(8) Orange shaded values exceed NYSDEC Part 375 Commercial Soil Criteria

Table 3
Farrington Street Former MGP Site
Summary of Soil Analytical Data
Consolidated Edison Company of New York

| Consolidated Edison<br>Farrington Street Remedial Investigation<br>2009-2015 Soil Analytical Data<br>Detected Compounds Only | | | | Location ID: | SB-77 | SB-77 | SB-84 | SB-84 | SB-85 | SB-85 |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Sample ID: | SB-77(7-9)-20141216 | SB-77(15-17)-20141216 | SB-84(7-9)-20150114 | SB-84(17-19)-20150114 | SB-85(7-9)-20150115 | SB-85(29-31)-20150115 |
| | | | | Lab Sample Id | F5197-08 | F5197-09 | G1159-03 | G1159-04 | G1159-07 | G1159-08 |
| | | | | Depth: | 7 - 9 ft | 15 - 17 ft | 7 - 9 ft | 17 - 19 ft | 7 - 9 ft | 29 - 31 ft |
| | | | | Source: | CTECH | CTECH | CTECH | CTECH | CTECH | CTECH |
| | | NYSDEC Part 375 Unrestricted Soil Criteria | NYSDEC Part 375 Commercial Soil Criteria | SDG: | F5197 | F5197 | G1159 | G1159 | G1159 | G1159 |
| | | | | Matrix: | SOIL | SOIL | SOIL | SOIL | SOIL | SOIL |
| | | | | Sampled: | 12/16/2014 8:10 | 12/16/2014 8:30 | 1/14/2015 9:35 | 1/14/2015 10:50 | 1/15/2015 9:10 | 1/15/2015 11:30 |
| | | | | Validated: | 2/25/2015 | 2/25/2015 | 2/25/2015 | 2/25/2015 | 2/25/2015 | 2/25/2015 |
| CAS NO. | COMPOUND | | | UNITS: | | | | | | |
| | SEMIVOLATILES | | | | | | | | | |
| 95-94-3 | 1,2,4,5-TETRACHLOROBENZENE | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND |
| 58-90-2 | 2,3,4,6-TETRACHLOROPHENOL | -- | -- | mg/kg | ND | ND | ND | ND | ND | ND |
| 88-06-2 | 2,4,6-TRICHLOROPHENOL | -- | -- | mg/kg | ND | ND | ND | ND | ND | ND |
| 105-67-9 | 2,4-DIMETHYLPHENOL | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND |
| 91-57-6 | 2-METHYLNAPHTHALENE | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND |
| 95-48-7 | 2-METHYLPHENOL (O-CRESOL) | 0.33 | 500 | mg/Kg | ND | ND | ND | ND | ND | ND |
| MEPH3MEPH | 3- AND 4- METHYLPHENOL (TOTAL) | 0.33 | 500 | mg/Kg | ND | ND | ND | ND | ND | ND |
| 83-32-9 | ACENAPHTHENE | 20 | 500 | mg/Kg | ND | ND | ND | 0.16 J | ND | ND |
| 208-96-8 | ACENAPHTHYLENE | 100 | 500 | mg/Kg | ND | ND | ND | ND | ND | ND |
| 98-86-2 | ACETOPHENONE | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND |
| 120-12-7 | ANTHRACENE | 100 | 500 | mg/Kg | ND | ND | ND | 0.18 J | ND | ND |
| 100-52-7 | BENZALDEHYDE | -- | -- | mg/Kg | R | R | ND | ND | ND | ND |
| 56-55-3 | BENZO(A)ANTHRACENE | 1 | 5.6 | mg/Kg | ND | ND | 0.18 J | 0.46 J | ND | ND |
| 50-32-8 | BENZO(A)PYRENE | 1 | 1 | mg/Kg | ND | ND | 0.14 J | 0.48 | ND | ND |
| 205-99-2 | BENZO(B)FLUORANTHENE | 1 | 5.6 | mg/Kg | ND | ND | 0.16 J | 0.55 | ND | ND |
| 191-24-2 | BENZO(G,H,I)PERYLENE | 100 | 500 | mg/Kg | ND | ND | ND | 0.31 J | ND | ND |
| 207-08-9 | BENZO(K)FLUORANTHENE | 0.8 | 56 | mg/Kg | ND | ND | ND | 0.23 J | ND | ND |
| 85-68-7 | BENZYL BUTYL PHTHALATE | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND |
| 92-52-4 | BIPHENYL (DIPHENYL) | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND |
| 117-81-7 | BIS(2-ETHYLHEXYL) PHTHALATE | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND |
| 105-60-2 | CAPROLACTAM | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND |
| 86-74-8 | CARBAZOLE | -- | -- | mg/Kg | ND | ND | ND | 0.11 J | ND | ND |
| 218-01-9 | CHRYSENE | 1 | 56 | mg/Kg | ND | ND | 0.15 J | 0.41 J | ND | ND |
| 53-70-3 | DIBENZ(A,H)ANTHRACENE | 0.33 | 0.56 | mg/Kg | ND | ND | ND | ND | ND | ND |
| 132-64-9 | DIBENZOFURAN | 7 | 350 | mg/Kg | ND | ND | ND | ND | ND | ND |
| 84-66-2 | DIETHYL PHTHALATE | -- | -- | mg/Kg | ND | 0.28 J | ND | ND | ND | ND |
| 131-11-3 | DIMETHYL PHTHALATE | -- | -- | mg/Kg | 0.14 J | 0.2 J | 0.0959 J | 0.18 J | 0.21 J | 0.22 J |
| 84-74-2 | DI-N-BUTYL PHTHALATE | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND |
| 117-84-0 | DI-N-OCTYLPHTHALATE | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND |
| 206-44-0 | FLUORANTHENE | 100 | 500 | mg/Kg | 0.1 J | ND | 0.32 J | 0.8 | ND | ND |
| 86-73-7 | FLUORENE | 30 | 500 | mg/Kg | ND | ND | ND | 0.12 J | ND | ND |
| 193-39-5 | INDENO(1,2,3-C,D)PYRENE | 0.5 | 5.6 | mg/Kg | ND | ND | ND | 0.26 J | ND | ND |
| 86-30-6 | N-NITROSODIPHENYLAMINE | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND |
| 91-20-3 | NAPHTHALENE | 12 | 500 | mg/Kg | ND | ND | ND | 0.14 J | ND | ND |
| 87-86-5 | PENTACHLOROPHENOL | 0.8 | 6.7 | mg/Kg | ND | ND | ND | ND | ND | ND |
| 85-01-8 | PHENANTHRENE | 100 | 500 | mg/Kg | ND | ND | 0.22 J | 0.71 | ND | ND |
| 108-95-2 | PHENOL | 0.33 | 500 | mg/Kg | 0.18 J | **0.36** J | 0.1 J | 0.21 J | 0.19 J | 0.25 J |
| 129-00-0 | PYRENE | 100 | 500 | mg/Kg | ND | ND | 0.32 J | 0.73 | ND | ND |
| | **TOTAL SVOCS** | -- | -- | **mg/kg** | **0.42** | **0.84** | **1.6859** | **6.04** | **0.4** | **0.47** |

Exceeds NYSDEC Part 375 Unrestricted Soil Criteria
Exceeds NYSDEC Commercial Soil Criteria
(1) NYSDEC 6 NYCRR Part 375 Environmental Remediation Program (December 2006)
(2) -- indicates no clean up objective or background level is available
(3) NA indicates compound was not analyzed for
(4) ND indicates compound was not detected
(5) J indicates an estimated concentration
(6) R indicates rejected data
(7) Grey shaded values exceed NYSDEC Part 375 Unrestricted Soil Criteria
(8) Orange shaded values exceed NYSDEC Part 375 Commercial Soil Criteria

Table 3
Farrington Street Former MGP Site
Summary of Soil Analytical Data
Consolidated Edison Company of New York

| Consolidated Edison<br>Farrington Street Remedial Investigation<br>2009-2015 Soil Analytical Data<br>Detected Compounds Only | | | | Location ID: | SB-77 | SB-77 | SB-84 | SB-84 | SB-85 | SB-85 |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Sample ID: | SB-77(7-9)-20141216 | SB-77(15-17)-20141216 | SB-84(7-9)-20150114 | SB-84(17-19)-20150114 | SB-85(7-9)-20150115 | SB-85(29-31)-20150115 |
| | | | | Lab Sample Id | F5197-08 | F5197-09 | G1159-03 | G1159-04 | G1159-07 | G1159-08 |
| | | | | Depth: | 7 - 9 ft | 15 - 17 ft | 7 - 9 ft | 17 - 19 ft | 7 - 9 ft | 29 - 31 ft |
| | | | | Source: | CTECH | CTECH | CTECH | CTECH | CTECH | CTECH |
| | | NYSDEC Part 375 Unrestricted Soil Criteria | NYSDEC Part 375 Commercial Soil Criteria | SDG: | F5197 | F5197 | G1159 | G1159 | G1159 | G1159 |
| | | | | Matrix: | SOIL | SOIL | SOIL | SOIL | SOIL | SOIL |
| | | | | Sampled: | 12/16/2014 8:10 | 12/16/2014 8:30 | 1/14/2015 9:35 | 1/14/2015 10:50 | 1/15/2015 9:10 | 1/15/2015 11:30 |
| | | | | Validated: | 2/25/2015 | 2/25/2015 | 2/25/2015 | 2/25/2015 | 2/25/2015 | 2/25/2015 |
| CAS NO. | COMPOUND | | | UNITS: | | | | | | |
| | INORGANICS | | | | | | | | | |
| 7429-90-5 | ALUMINUM | -- | -- | mg/Kg | 7160 | 13500 | 6010 | 5770 | 8210 | 14200 |
| 7440-36-0 | ANTIMONY | -- | -- | mg/Kg | 1.21 J | ND | ND | 0.799 J | 1.54 J | ND |
| 7440-38-2 | ARSENIC | 13 | 16 | mg/Kg | 10.58 | 7.77 | 7.36 | **14.8** | **13.7** | 10.38 |
| 7440-39-3 | BARIUM | 350 | 400 | mg/Kg | 121 | 28.2 | 105 | **390** | 109 | 33 |
| 7440-41-7 | BERYLLIUM | 7.2 | 590 | mg/Kg | 0.488 | 0.887 | 0.559 | 1.39 | 0.638 | 1.03 |
| 7440-43-9 | CADMIUM | 2.5 | 9.3 | mg/Kg | 0.099 J | ND | ND | **6.38** J+ | 2 J+ | ND |
| 7440-70-2 | CALCIUM | -- | -- | mg/Kg | 4940 | 1600 | 8090 | 18100 | 4980 | 2460 |
| 7440-47-3 | CHROMIUM, TOTAL | 30 | 1500 | mg/Kg | **36.9** | 28.6 | 17.7 | **34.2** J+ | **31.1** | **34.4** |
| 7440-48-4 | COBALT | -- | -- | mg/Kg | 6.61 | 12.8 | 5.97 | 10.45 | 6.04 | 14.2 |
| 7440-50-8 | COPPER | 50 | 270 | mg/Kg | **119** | 8.88 | 37.8 J+ | **391** J+ | **105** J+ | 13.7 J+ |
| 7439-89-6 | IRON | -- | -- | mg/Kg | 17600 | 33700 | 14400 | 33700 | 41800 | 37200 |
| 7439-92-1 | LEAD | 63 | 1000 | mg/Kg | **236** | 14.2 | **157** | **1280** | **355** | 23.6 |
| 7439-95-4 | MAGNESIUM | -- | -- | mg/Kg | 2740 | 7370 | 3140 | 3470 | 3030 | 8510 |
| 7439-96-5 | MANGANESE | 1600 | 10000 | mg/Kg | 659 | 965 | 154 J+ | 401 J+ | 425 J+ | 569 J+ |
| 7439-97-6 | MERCURY | 0.18 | 2.8 | mg/Kg | **0.603** | 0.023 | 0.152 | **0.542** J- | **0.47** | 0.019 |
| 7440-02-0 | NICKEL | 30 | 310 | mg/Kg | 28.6 | 27.4 | 17.9 | **49.5** J+ | 24.3 | **31.5** |
| 7440-09-7 | POTASSIUM | -- | -- | mg/Kg | 1610 | 4120 | 657 | 588 | 1680 | 3760 |
| 7782-49-2 | SELENIUM | 3.9 | 1500 | mg/Kg | 1.49 | 1.75 | 0.501 J | 2.18 | 3.63 | 0.832 J |
| 7440-22-4 | SILVER | 2 | 1500 | mg/Kg | **2.86** | 0.728 J | ND | ND | ND | ND |
| 7440-23-5 | SODIUM | -- | -- | mg/Kg | 1050 | 5210 | 436 | 757 J+ | 2300 | 5260 |
| 7440-28-0 | THALLIUM | -- | -- | mg/Kg | ND | ND | ND | ND | ND | ND |
| 7440-62-2 | VANADIUM | -- | -- | mg/Kg | 219 | 36.4 | 24.1 | 28 | 39.3 | 41.2 |
| 7440-66-6 | ZINC | 109 | 10000 | mg/Kg | **141** | 76.4 | **203** | **1380** J | **1190** | 107 |
| 57-12-5 | CYANIDE | 27 | 27 | mg/Kg | ND | ND | ND | 0.114 J | 0.142 J | ND |

Exceeds NYSDEC Part 375 Unrestricted Soil Criteria
Exceeds NYSDEC Commercial Soil Criteria

(1) NYSDEC 6 NYCRR Part 375 Environmental Remediation Program (December 2006)
(2) -- indicates no clean up objective or background level is available
(3) NA indicates compound was not analyzed for
(4) ND indicates compound was not detected
(5) J indicates an estimated concentration
(6) R indicates rejected data
(7) Grey shaded values exceed NYSDEC Part 375 Unrestricted Soil Criteria
(8) Orange shaded values exceed NYSDEC Part 375 Commercial Soil Criteria

Table 4
Farrington Street Former MGP Site
Summary of Groundwater Analytical Data
Consolidated Edison Company of New York

| Consolidated Edisor<br>Farrington Street Remedial Investigatio<br>2009-2015 Groundwater Analytical Data<br>Detected Compounds Only | | NYSDEC Class GA Groundwater Standards/Guidance Values[(1)] | Location ID:<br>Sample ID:<br>Lab Sample Id<br>Source:<br>SDG:<br>Matrix:<br>Sampled:<br>Validated: | CMW-36<br>CMW-36<br>C4681-02<br>CTECH<br>C4681<br>WATER<br>11/16/2011 11:50<br>1/23/2012 | CMW-36<br>CMW-36-20150610<br>G2627-11<br>CTECH<br>G2627<br>WATER<br>6/10/2015 10:05<br>7/30/2015 | CMW-37<br>CMW-37<br>C4681-07<br>CTECH<br>C4681<br>WATER<br>11/14/2011 2:35<br>1/23/2012 | CMW-37<br>CMW-37-20150610<br>G2627-12<br>CTECH<br>G2627<br>WATER<br>6/10/2015 11:35<br>7/30/2015 | CMW-38<br>CMW-38<br>C4681-22<br>CTECH<br>C4681<br>WATER<br>11/18/2011 8:45<br>1/23/2012 | CMW-39<br>CMW-39<br>C4681-08<br>CTECH<br>C4681<br>WATER<br>11/14/2011 3:10<br>1/23/2012 | CMW-40<br>CMW-40<br>C4681-16<br>CTECH<br>C4681<br>WATER<br>11/16/2011 1:20<br>1/23/2012 |
|---|---|---|---|---|---|---|---|---|---|---|
| CAS NO. | COMPOUND | | UNITS: | | | | | | | |
| | VOLATILES | | | | | | | | | |
| 67-64-1 | ACETONE | 50 (G) | ug/L | ND | ND | 4.3 J | 4.1 J | ND | 20 J | ND |
| 71-43-2 | BENZENE | 1 | ug/L | ND | ND | **3.9** J | **4.6** J | **360** | ND | **1400** |
| 108-90-7 | CHLOROBENZENE | 5 | ug/L | ND | ND | ND | ND | ND | ND | ND |
| 67-66-3 | CHLOROFORM | 7 | ug/L | ND | 1.8 J | ND | ND | ND | ND | ND |
| 156-59-2 | CIS-1,2-DICHLOROETHYLENE | 5 | ug/L | ND | ND | ND | ND | ND | ND | ND |
| 110-82-7 | CYCLOHEXANE | NS | ug/L | ND | ND | ND | ND | 7.5 | ND | 3 J |
| 100-41-4 | ETHYLBENZENE | 5 | ug/L | ND | ND | ND | 0.9 J | **320** | ND | 4.4 J |
| 98-82-8 | ISOPROPYLBENZENE (CUMENE) | 5 | ug/L | ND | ND | ND | 2 J | **54** | ND | **7.6** |
| 179601-23-1 | M,P-XYLENE | 5 | ug/L | ND | ND | ND | 1.3 J | **22** | ND | 3.5 J |
| 78-93-3 | METHYL ETHYL KETONE | 50 (G) | ug/L | ND | ND | ND | ND | ND | 2.7 J | ND |
| 108-87-2 | METHYLCYCLOHEXANE | NS | ug/L | ND | ND | ND | ND | 10 | ND | 3.1 J |
| 95-47-6 | O-XYLENE (1,2-DIMETHYLBENZENE) | 5 | ug/L | ND | ND | ND | 0.92 J | **91** | ND | **5.1** |
| 1634-04-4 | TERT-BUTYL METHYL ETHER | 10 (G) | ug/L | 3 J | ND | 2.2 J | 0.68 J | **17** | ND | ND |
| 127-18-4 | TETRACHLOROETHYLENE(PCE) | 5 | ug/L | 4.1 J | 0.67 J | ND | ND | ND | ND | ND |
| 108-88-3 | TOLUENE | 5 | ug/L | ND | ND | ND | 0.65 J | 4.8 J | ND | ND |
| 156-60-5 | TRANS-1,2-DICHLOROETHENE | 5 | ug/L | ND | ND | ND | ND | ND | ND | ND |
| 79-01-6 | TRICHLOROETHYLENE (TCE) | 5 | ug/L | ND | ND | ND | ND | ND | ND | ND |
| 75-01-4 | VINYL CHLORIDE | 2 | ug/L | ND | ND | ND | ND | ND | ND | ND |
| | **TOTAL VOCs** | | **ug/L** | **7.1** | **2.47** | **10.4** | **15.15** | **886.3** | **22.7** | **1426.7** |
| | SEMIVOLATILES | | | | | | | | | |
| 50-32-8 | 2-METHYLPHENOL | 1 | ug/L | ND | ND | ND | ND | ND | ND | ND |
| 105-67-9 | 2,4-DIMETHYLPHENOL | 50 (G) | ug/L | ND | ND | ND | 10.5 | ND | ND | ND |
| 91-57-6 | 2-METHYLNAPHTHALENE | NS | ug/L | ND | ND | ND | ND | 560 | ND | ND |
| 83-32-9 | ACENAPHTHENE | 20 (G) | ug/L | ND | ND | 11 | 12.2 | **180** | ND | 16 |
| 208-96-8 | ACENAPHTHYLENE | NS | ug/L | ND | ND | ND | ND | 8.7 J | ND | ND |
| 98-86-2 | ACETOPHENONE | NS | ug/L | ND | ND | ND | ND | ND | ND | ND |
| 120-12-7 | ANTHRACENE | 50 (G) | ug/L | ND | ND | ND | ND | 36 | ND | ND |
| 56-55-3 | BENZO(A)ANTHRACENE | 0.002 (G) | ug/L | ND | ND | ND | ND | **17** | ND | ND |
| 92-52-4 | BIPHENYL (DIPHENYL) | -- | ug/L | ND | ND | ND | ND | 24 | ND | ND |
| 50-32-8 | BENZO(A)PYRENE | ND | ug/L | ND | ND | ND | ND | 9.6 J | ND | ND |
| 205-99-2 | BENZO(B)FLUORANTHENE | 0.002 (G) | ug/L | ND | ND | ND | ND | **8.6** J | ND | ND |
| 191-24-2 | BENZO(G,H,I)PERYLENE | -- | ug/L | ND | ND | ND | ND | ND | ND | ND |
| 86-74-8 | CARBAZOLE | -- | ug/L | ND | ND | ND | ND | 11 | ND | ND |
| 218-01-9 | CHRYSENE | 0.002 (G) | ug/L | ND | ND | ND | ND | **15** | ND | ND |
| 132-64-9 | DIBENZOFURAN | -- | ug/L | ND | ND | ND | ND | 11 | ND | ND |
| 206-44-0 | FLUORANTHENE | 50 (G) | ug/L | ND | ND | ND | ND | 28 | ND | ND |
| 86-73-7 | FLUORENE | 50 (G) | ug/L | ND | ND | ND | ND | **60** | ND | ND |
| 193-39-5 | INDENO(1,2,3-C,D)PYRENE | 0.002 (G) | ug/L | ND | ND | ND | ND | ND | ND | ND |
| 91-20-3 | NAPHTHALENE | 10 (G) | ug/L | ND | ND | **23** | **31.7** | **1800** | ND | 6.9 J |
| 87-86-5 | PENTACHLOROPHENOL | 1 | ug/L | ND | ND | ND | ND | ND | ND | ND |
| 85-01-8 | PHENANTHRENE | 50 (G) | ug/L | ND | ND | ND | ND | **120** | ND | ND |
| 108-95-2 | PHENOL | 1 | ug/L | ND | ND | ND | ND | ND | ND | **17** |
| 129-00-0 | PYRENE | 50 (G) | ug/L | ND | ND | ND | ND | 37 | ND | ND |
| | **TOTAL SVOCs** | | **ug/L** | **ND** | **ND** | **34** | **54.4** | **2925.9** | **ND** | **39.9** |

Notes:
(1) NYSDEC TOGS 1.1.1 Ambient Water Quality Standards and Guidance Values (October 1998
Shaded values exceed NYSDEC Class GA Groundwater Standards and Guidance Values
-- indicates no standard or guidance value is available
(G) indicates guidance value
N indicates presumptive evidence of a compoun
NA indicates compound was not analyzed for
ND indicates compound was not detected
J indicates an estimated concentration
R indicates rejected data

Table 4
Farrington Street Former MGP Site
Summary of Groundwater Analytical Data
Consolidated Edison Company of New York

| Consolidated Edisor | | | Location ID: | CMW-36 | CMW-36 | CMW-37 | CMW-37 | CMW-38 | CMW-39 | CMW-40 |
|---|---|---|---|---|---|---|---|---|---|---|
| Farrington Street Remedial Investigatio | | | Sample ID: | CMW-36 | CMW-36-20150610 | CMW-37 | CMW-37-20150610 | CMW-38 | CMW-39 | CMW-40 |
| 2009-2015 Groundwater Analytical Data | | | Lab Sample Id | C4681-02 | G2627-11 | C4681-07 | G2627-12 | C4681-22 | C4681-08 | C4681-16 |
| Detected Compounds Only | | NYSDEC | Source: | CTECH | CTECH | CTECH | CTECH | CTECH | CTECH | CTECH |
| | | Class GA | SDG: | C4681 | G2627 | C4681 | G2627 | C4681 | C4681 | C4681 |
| | | Groundwater | Matrix: | WATER | WATER | WATER | WATER | WATER | WATER | WATER |
| | | Standards/Guidance | Sampled: | 11/16/2011 11:50 | 6/10/2015 10:05 | 11/14/2011 2:35 | 6/10/2015 11:35 | 11/18/2011 8:45 | 11/14/2011 3:10 | 11/16/2011 1:20 |
| | | Values[1] | Validated: | 1/23/2012 | 7/30/2015 | 1/23/2012 | 7/30/2015 | 1/23/2012 | 1/23/2012 | 1/23/2012 |
| CAS NO. | COMPOUND | | UNITS: | | | | | | | |
| | INORGANICS | | | | | | | | | |
| 7429-90-5 | ALUMINUM | -- | ug/L | 943 J | 1200 | 1920 J | 153 | 1690 J | 26000 J | 46.3 J |
| 7440-36-0 | ANTIMONY | 3 | ug/L | ND | ND | ND | ND | ND | 8.75 J | ND |
| 7440-38-2 | ARSENIC | 25 | ug/L | ND | ND | 24.5 | 18.7 | ND | 13.7 | ND |
| 7440-39-3 | BARIUM | 1000 | ug/L | 100 | 154 | 380 | 343 | 303 | 344 | 258 |
| 7440-41-7 | BERYLLIUM | 3 (G) | ug/L | ND | ND | ND | 0.77 J | ND | 1.5 J | ND |
| 7440-43-9 | CADMIUM | 5 | ug/L | ND | ND | ND | 4.13 | ND | ND | ND |
| 7440-70-2 | CALCIUM | -- | ug/L | 79400 | 193200 | 75400 | 140800 | 83500 | 241000 | 119000 |
| 7440-47-3 | CHROMIUM, TOTAL | 50 | ug/L | ND | 6.34 | 4 J | 3.12 J | 42.3 | **53.6** | ND |
| 7440-48-4 | COBALT | -- | ug/L | ND | 8.65 J | 5.97 J | ND | ND | 25.8 | 5.89 J |
| 7440-50-8 | COPPER | 200 | ug/L | 3.88 J | 3.51 J | 14.9 | ND | 13.1 | 118 | 2.34 J |
| 7439-89-6 | IRON | 300 | ug/L | 2300 J | **2220** | **60600** J | **91300** | **21800** J | **49700** J | **11500** J |
| 7439-92-1 | LEAD | 25 | ug/L | 9.77 | ND | 10.6 | ND | 7.89 | **202** | 7.11 |
| 7439-95-4 | MAGNESIUM | 35000 (G) | ug/L | 23900 | **74000** | 17200 | 20800 | **39000** | 34200 | 26500 |
| 7439-96-5 | MANGANESE | 300 | ug/L | 2290 | **3650** | **1300** | **706** | **727** | **1080** | **3700** |
| 7439-97-6 | MERCURY | 0.7 | ug/L | ND | ND | ND | 0.109 J | ND | 0.454 | ND |
| 7440-02-0 | NICKEL | 100 | ug/L | 13.8 J | 20.4 | 5.38 J | ND | 22.3 | 66.1 | 11.9 J |
| 7440-09-7 | POTASSIUM | -- | ug/L | 9380 | 20600 | 21700 | 23000 | 14900 | 29300 | 11900 |
| 7782-49-2 | SELENIUM | 10 | ug/L | ND | **11.5** | ND | ND | ND | ND | ND |
| 7440-22-4 | SILVER | 50 | ug/L | ND | ND | ND | 8.91 | ND | ND | ND |
| 7440-23-5 | SODIUM | 20000 | ug/L | 347000 | **813100** | **236000** | **322700** | **325000** | **679000** | **279000** |
| 7440-28-0 | THALLIUM | 0.5 (G) | ug/L | 3.78 J | ND | **3.23** J | ND | ND | ND | **2.86** J |
| 7440-62-2 | VANADIUM | -- | ug/L | ND | ND | 6.48 J | ND | ND | 67.4 | ND |
| 7440-66-6 | ZINC | 2000 (G) | ug/L | 17.5 J | 118 | 33.4 J | 102 | 24.7 J | 362 J | 18.2 J |
| 57-12-5 | CYANIDE | 200 | ug/L | 3 J | 5 | **320** | **265** | 9 | 7 | 10 |
| | DISSOLVED METALS | | | | | | | | | |
| 7429-90-5 | ALUMINUM | -- | | NA | NA | NA | NA | NA | 25.4 J | NA |
| 7440-39-3 | BARIUM | 1000 | ug/L | NA | NA | NA | NA | NA | 97.7 | NA |
| 7440-43-9 | CADMIUM | 5 | ug/L | NA | NA | NA | NA | NA | ND | NA |
| 7440-70-2 | CALCIUM | -- | ug/L | NA | NA | NA | NA | NA | 247000 | NA |
| 7440-47-3 | CHROMIUM, TOTAL | 50 | ug/L | NA | NA | NA | NA | NA | ND | NA |
| 7440-50-8 | COPPER | 200 | ug/L | NA | NA | NA | NA | NA | 8.6 J | NA |
| 7439-89-6 | IRON | 300 | ug/L | NA | NA | NA | NA | NA | ND | NA |
| 7439-92-1 | LEAD | 25 | ug/L | NA | NA | NA | NA | NA | ND | NA |
| 7439-95-4 | MAGNESIUM | 35000 (G) | ug/L | NA | NA | NA | NA | NA | 33300 | NA |
| 7439-96-5 | MANGANESE | 300 | ug/L | NA | NA | NA | NA | NA | 224 | NA |
| 7439-97-6 | MERCURY | 0.7 | ug/L | NA | NA | NA | NA | NA | 0.318 | NA |
| 7440-09-7 | POTASSIUM | -- | ug/L | NA | NA | NA | NA | NA | 23900 | NA |
| 7440-22-4 | SILVER | 50 | ug/L | NA | NA | NA | NA | NA | ND | NA |
| 7440-23-5 | SODIUM | 20000 | ug/L | NA | NA | NA | NA | NA | **812000** | NA |
| 7440-28-0 | THALLIUM | 0.5 (G) | ug/L | NA | NA | NA | NA | NA | **2.66** J | NA |
| 7440-66-6 | ZINC | 2000 | ug/L | NA | NA | NA | NA | NA | 39.4 | NA |

Notes:
(1) NYSDEC TOGS 1.1.1 Ambient Water Quality Standards and Guidance Values (October 1998
Shaded values exceed NYSDEC Class GA Groundwater Standards and Guidance Values
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(G) indicates guidance value
N indicates presumptive evidence of a compoun
NA indicates compound was not analyzed for
ND indicates compound was not detected
J indicates an estimated concentration
R indicates rejected data

Table 4
Farrington Street Former MGP Site
Summary of Groundwater Analytical Data
Consolidated Edison Company of New York

| Consolidated Edisor<br>Farrington Street Remedial Investigatior<br>2009-2015 Groundwater Analytical Data<br>Detected Compounds Only | | NYSDEC Class GA Groundwater Standards/Guidance Values[(1)] | Location ID:<br>Sample ID:<br>Lab Sample Id<br>Source:<br>SDG:<br>Matrix:<br>Sampled:<br>Validated: | CMW-40<br>MW-40-20150609<br>G2627-08<br>CTECH<br>G2627<br>WATER<br>6/9/2015 11:25<br>7/30/2015 | MW-13<br>MW-13<br>A3178-01<br>Chemtech<br>A3178<br>WATER<br>6/15/2009<br>7/7/2009 | MW-13<br>MW-13<br>C4681-11<br>CTECH<br>C4681<br>WATER<br>11/17/2011 10:00<br>1/23/2012 | MW-13<br>MW-13-20150610<br>G2627-13<br>CTECH<br>G2627<br>WATER<br>6/10/2015 14:00<br>7/30/2015 | MW-14<br>MW-14<br>A3178-02<br>Chemtech<br>A3178<br>WATER<br>6/15/2009<br>7/7/2009 | Dup of MW-14<br>MW-14<br>MW-114<br>A3178-05<br>Chemtech<br>A3178<br>WATER<br>6/15/2009<br>7/7/2009 | MW-15<br>MW-15<br>A3237-01<br>Chemtech<br>A3237<br>WATER<br>6/17/2009<br>7/13/2009 | MW-15<br>MW-15<br>C4681-21<br>CTECH<br>C4681<br>WATER<br>11/18/2011 7:35<br>1/23/2012 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| CAS NO. | COMPOUND | | UNITS: | | | | | | | | |
| | VOLATILES | | | | | | | | | | |
| 67-64-1 | ACETONE | 50 (G) | ug/L | ND | ND | ND | ND | ND | ND | ND | 6.1 J |
| 71-43-2 | BENZENE | 1 | ug/L | 0.55 J | ND | ND | ND | **2.8** J | **2.9** J | **13** | **3.7** J |
| 108-90-7 | CHLOROBENZENE | 5 | ug/L | ND | ND | ND | ND | ND | ND | ND | ND |
| 67-66-3 | CHLOROFORM | 7 | ug/L | ND | ND | ND | ND | ND | ND | ND | ND |
| 156-59-2 | CIS-1,2-DICHLOROETHYLENE | 5 | ug/L | 1.3 J | ND | ND | ND | **8.1** | **8.4** | ND | ND |
| 110-82-7 | CYCLOHEXANE | NS | ug/L | ND | ND | ND | ND | ND | ND | 5.8 | ND |
| 100-41-4 | ETHYLBENZENE | 5 | ug/L | ND | ND | ND | ND | **90** | **120** | **94** | **25** |
| 98-82-8 | ISOPROPYLBENZENE (CUMENE) | 5 | ug/L | ND | ND | ND | ND | **14** | **15** | **24** | **5.2** |
| 179601-23-1 | M,P-XYLENE | 5 | ug/L | ND | ND | ND | ND | 3.5 J | 3.8 J | 4.2 J | ND |
| 78-93-3 | METHYL ETHYL KETONE | 50 (G) | ug/L | ND | ND | ND | ND | ND | ND | ND | ND |
| 108-87-2 | METHYLCYCLOHEXANE | NS | ug/L | ND | ND | ND | ND | 1.2 J | 1.6 J | 3.1 J | ND |
| 95-47-6 | O-XYLENE (1,2-DIMETHYLBENZENE) | 5 | ug/L | ND | ND | ND | ND | **25** | **25** | **17** | **7** |
| 1634-04-4 | TERT-BUTYL METHYL ETHER | 10 (G) | ug/L | 0.61 J | ND | ND | 0.51 J | 3.9 J | 4.9 J | ND | ND |
| 127-18-4 | TETRACHLOROETHYLENE(PCE) | 5 | ug/L | ND | ND | ND | 0.84 J | ND | ND | ND | ND |
| 108-88-3 | TOLUENE | 5 | ug/L | ND | ND | ND | ND | ND | ND | ND | ND |
| 156-60-5 | TRANS-1,2-DICHLOROETHENE | 5 | ug/L | 1.4 J | ND | ND | ND | 4.5 J | 4.5 J | ND | ND |
| 79-01-6 | TRICHLOROETHYLENE (TCE) | 5 | ug/L | ND | ND | ND | ND | 2.9 J | 3.5 J | ND | ND |
| 75-01-4 | VINYL CHLORIDE | 2 | ug/L | ND | ND | ND | ND | **2.4** J | 1.2 J | ND | ND |
| | **TOTAL VOCs** | | **ug/L** | **3.86** | **ND** | **ND** | **1.35** | **158.3** | **190.8** | **161.1** | **47** |
| | SEMIVOLATILES | | | | | | | | | | |
| 50-32-8 | 2-METHYLPHENOL | 1 | ug/L | ND | ND | ND | ND | ND | **1.3** J | ND | ND |
| 105-67-9 | 2,4-DIMETHYLPHENOL | 50 (G) | ug/L | ND | ND | ND | ND | ND | ND | ND | ND |
| 91-57-6 | 2-METHYLNAPHTHALENE | NS | ug/L | ND | 82 | ND | ND | 3.4 J | 100 J | 21 | ND |
| 83-32-9 | ACENAPHTHENE | 20 (G) | ug/L | 3.2 J | **89** | ND | ND | 9.2 J | **110** | **130** | **100** |
| 208-96-8 | ACENAPHTHYLENE | NS | ug/L | ND | ND | ND | ND | ND | ND | 4.6 J | 8.3 J |
| 98-86-2 | ACETOPHENONE | NS | ug/L | ND | ND | ND | ND | ND | ND | ND | ND |
| 120-12-7 | ANTHRACENE | 50 (G) | ug/L | ND | 11 | ND | ND | ND | 13 J | 8.6 J | 24 |
| 56-55-3 | BENZO(A)ANTHRACENE | 0.002 (G) | ug/L | ND | **1.8** J | ND | ND | ND | **2.3** J | **1.6** J | **23** |
| 92-52-4 | BIPHENYL (DIPHENYL) | -- | ug/L | ND | 5.6 J | ND | ND | ND | 6.7 J | ND | ND |
| 50-32-8 | BENZO(A)PYRENE | ND | ug/L | ND | ND | ND | ND | ND | ND | ND | 13 |
| 205-99-2 | BENZO(B)FLUORANTHENE | 0.002 (G) | ug/L | ND | ND | ND | ND | ND | **1.2** J | ND | **13** |
| 191-24-2 | BENZO(G,H,I)PERYLENE | -- | ug/L | ND | ND | ND | ND | ND | ND | ND | 5.1 J |
| 86-74-8 | CARBAZOLE | -- | ug/L | ND | 2.9 J | ND | ND | ND | 3.3 J | 1.2 J | ND |
| 218-01-9 | CHRYSENE | 0.002 (G) | ug/L | ND | **1.7** J | ND | ND | ND | **2.2** J | **1.5** J | **20** |
| 132-64-9 | DIBENZOFURAN | -- | ug/L | ND | 5.6 J | ND | ND | ND | 6.7 J | 4.2 J | 4.6 J |
| 206-44-0 | FLUORANTHENE | 50 (G) | ug/L | ND | 8.6 J | ND | ND | 2.1 J | 11 J | 5.4 J | 35 |
| 86-73-7 | FLUORENE | 50 (G) | ug/L | ND | 31 | ND | ND | 1.9 J | 36 J | 11 J | 22 |
| 193-39-5 | INDENO(1,2,3-C,D)PYRENE | 0.002 (G) | ug/L | ND | ND | ND | ND | ND | ND | ND | **4.5** J |
| 91-20-3 | NAPHTHALENE | 10 (G) | ug/L | ND | **510** | ND | ND | **21** J | **650** J | **220** | **35** |
| 87-86-5 | PENTACHLOROPHENOL | 1 | ug/L | ND | ND | ND | ND | ND | ND | ND | ND |
| 85-01-8 | PHENANTHRENE | 50 (G) | ug/L | ND | 45 | ND | ND | 2.1 J | **53** J | 12 | 50 |
| 108-95-2 | PHENOL | 1 | ug/L | ND | **5.2** J | ND | ND | ND | **6.9** J | ND | ND |
| 129-00-0 | PYRENE | 50 (G) | ug/L | ND | 9.7 J | ND | ND | 2.9 J | 12 J | 6.7 J | 47 |
| | **TOTAL SVOCs** | | **ug/L** | **3.2** | **809.1** | **ND** | **ND** | **42.6** | **1015.6** | **427.8** | **404.5** |

Notes:
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Shaded values exceed NYSDEC Class GA Groundwater Standards and Guidance Values
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Table 4
Farrington Street Former MGP Site
Summary of Groundwater Analytical Data
Consolidated Edison Company of New York

| Consolidated Edisor<br>Farrington Street Remedial Investigatior<br>2009-2015 Groundwater Analytical Data<br>Detected Compounds Only | | NYSDEC Class GA Groundwater Standards/Guidance Values[1] | Location ID:<br>Sample ID:<br>Lab Sample Id<br>Source:<br>SDG:<br>Matrix:<br>Sampled:<br>Validated: | CMW-40<br>MW-40-20150609<br>G2627-08<br>CTECH<br>G2627<br>WATER<br>6/9/2015 11:25<br>7/30/2015 | MW-13<br>MW-13<br>A3178-01<br>Chemtech<br>A3178<br>WATER<br>6/15/2009<br>7/7/2009 | MW-13<br>MW-13<br>C4681-11<br>CTECH<br>C4681<br>WATER<br>11/17/2011 10:00<br>1/23/2012 | MW-13<br>MW-13-20150610<br>G2627-13<br>CTECH<br>G2627<br>WATER<br>6/10/2015 14:00<br>7/30/2015 | MW-14<br>MW-14<br>A3178-02<br>Chemtech<br>A3178<br>WATER<br>6/15/2009<br>7/7/2009 | Dup of MW-14<br>MW-14<br>MW-114<br>A3178-05<br>Chemtech<br>A3178<br>WATER<br>6/15/2009<br>7/7/2009 | MW-15<br>MW-15<br>A3237-01<br>Chemtech<br>A3237<br>WATER<br>6/17/2009<br>7/13/2009 | MW-15<br>MW-15<br>C4681-21<br>CTECH<br>C4681<br>WATER<br>11/18/2011 7:35<br>1/23/2012 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| CAS NO. | COMPOUND | | UNITS: | | | | | | | | |
| | INORGANICS | | | | | | | | | | |
| 7429-90-5 | ALUMINUM | -- | ug/L | 90 | 435 | 48.5 J | 104 | 111 | 110 | ND | 592 J |
| 7440-36-0 | ANTIMONY | 3 | ug/L | ND | ND | ND | ND | ND | ND | ND | ND |
| 7440-38-2 | ARSENIC | 25 | ug/L | ND | ND | ND | ND | ND | ND | **69.7** | ND |
| 7440-39-3 | BARIUM | 1000 | ug/L | 453 | 157 | 70.4 | 143 | 78.4 | 77.7 | 316 | 458 |
| 7440-41-7 | BERYLLIUM | 3 (G) | ug/L | ND | ND | ND | ND | ND | ND | ND | ND |
| 7440-43-9 | CADMIUM | 5 | ug/L | 2.59 J | ND | ND | ND | ND | ND | ND | ND |
| 7440-70-2 | CALCIUM | -- | ug/L | 121100 | 96500 J | 33600 | 109900 | 70700 J | 69900 J | 87900 | 159000 |
| 7440-47-3 | CHROMIUM, TOTAL | 50 | ug/L | ND | 2.49 J | ND | **51.5** | ND | ND | 1.15 J | ND |
| 7440-48-4 | COBALT | -- | ug/L | ND | ND | ND | ND | ND | ND | ND | ND |
| 7440-50-8 | COPPER | 200 | ug/L | ND | ND | 3.1 J | 2.06 J | ND | ND | ND | 4.97 J |
| 7439-89-6 | IRON | 300 | ug/L | **65700** | **4060** J | **1100** J | **4890** | **11700** J | **11600** J | **17700** | **10600** J |
| 7439-92-1 | LEAD | 25 | ug/L | ND | 6.53 | 6.16 | ND | 4 J | 5.76 J | 9.59 | 8.11 |
| 7439-95-4 | MAGNESIUM | 35000 (G) | ug/L | 23500 | 24500 J | 5240 | 22200 | 18800 J | 18300 J | **58800** | **127000** |
| 7439-96-5 | MANGANESE | 300 | ug/L | **1840** | **1490** J | 158 | **440** | **2620** J | **2540** J | **1240** | **1620** |
| 7439-97-6 | MERCURY | 0.7 | ug/L | ND | ND | ND | ND | ND | ND | ND | ND |
| 7440-02-0 | NICKEL | 100 | ug/L | 4.88 J | ND | ND | 33.5 | ND | ND | ND | ND |
| 7440-09-7 | POTASSIUM | -- | ug/L | 12800 | 8280 | ND | 7400 | 7820 | 7730 | 21600 | 63800 |
| 7782-49-2 | SELENIUM | 10 | ug/L | ND | 9.47 J | ND | 9.41 J | 6.84 J | 8.13 J | ND | ND |
| 7440-22-4 | SILVER | 50 | ug/L | 6.9 | ND | 1.71 J | ND | ND | ND | ND | 1.64 J |
| 7440-23-5 | SODIUM | 20000 | ug/L | **219400** | **178000** | **156000** | **208700** | **168000** | **166000** | **513000** | **1200000** |
| 7440-28-0 | THALLIUM | 0.5 (G) | ug/L | ND | ND | ND | ND | ND | ND | ND | **4** J |
| 7440-62-2 | VANADIUM | -- | ug/L | ND | ND | ND | ND | ND | ND | ND | ND |
| 7440-66-6 | ZINC | 2000 (G) | ug/L | 34.7 | 12 J | 24.9 J | 19.5 J | 7.11 J | 7.8 J | 17.6 J | 20 J |
| 57-12-5 | CYANIDE | 200 | ug/L | 12 | ND | 21 | ND | ND | ND | ND | ND |
| | DISSOLVED METALS | | | | | | | | | | |
| 7429-90-5 | ALUMINUM | -- | | NA | NA | NA | NA | NA | NA | NA | NA |
| 7440-39-3 | BARIUM | 1000 | ug/L | NA | NA | NA | NA | NA | NA | NA | NA |
| 7440-43-9 | CADMIUM | 5 | ug/L | NA | NA | NA | NA | NA | NA | NA | NA |
| 7440-70-2 | CALCIUM | -- | ug/L | NA | NA | NA | NA | NA | NA | NA | NA |
| 7440-47-3 | CHROMIUM, TOTAL | 50 | ug/L | NA | NA | NA | NA | NA | NA | NA | NA |
| 7440-50-8 | COPPER | 200 | ug/L | NA | NA | NA | NA | NA | NA | NA | NA |
| 7439-89-6 | IRON | 300 | ug/L | NA | NA | NA | NA | NA | NA | NA | NA |
| 7439-92-1 | LEAD | 25 | ug/L | NA | NA | NA | NA | NA | NA | NA | NA |
| 7439-95-4 | MAGNESIUM | 35000 (G) | ug/L | NA | NA | NA | NA | NA | NA | NA | NA |
| 7439-96-5 | MANGANESE | 300 | ug/L | NA | NA | NA | NA | NA | NA | NA | NA |
| 7439-97-6 | MERCURY | 0.7 | ug/L | NA | NA | NA | NA | NA | NA | NA | NA |
| 7440-09-7 | POTASSIUM | -- | ug/L | NA | NA | NA | NA | NA | NA | NA | NA |
| 7440-22-4 | SILVER | 50 | ug/L | NA | NA | NA | NA | NA | NA | NA | NA |
| 7440-23-5 | SODIUM | 20000 | ug/L | NA | NA | NA | NA | NA | NA | NA | NA |
| 7440-28-0 | THALLIUM | 0.5 (G) | ug/L | NA | NA | NA | NA | NA | NA | NA | NA |
| 7440-66-6 | ZINC | 2000 | ug/L | NA | NA | NA | NA | NA | NA | NA | NA |

Notes:
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Consolidated Edison Company of New York

| Consolidated Edisor<br>Farrington Street Remedial Investigatio<br>2009-2015 Groundwater Analytical Data<br>Detected Compounds Only | | NYSDEC Class GA Groundwater Standards/Guidance Values[(1)] | Location ID:<br>Sample ID:<br>Lab Sample Id<br>Source:<br>SDG:<br>Matrix:<br>Sampled:<br>Validated: | MW-16<br>MW-16<br>A3178-10<br>Chemtech<br>A3178<br>WATER<br>6/16/2009<br>7/7/2009 | MW-16<br>MW-16<br>C4681-12<br>CTECH<br>C4681<br>WATER<br>11/17/2011 11:35<br>1/23/2012 | MW-16<br>MW-16-20150611<br>G2627-18<br>CTECH<br>G2627<br>WATER<br>6/11/2015 14:30<br>7/30/2015 | MW-17<br>MW-17<br>A3178-07<br>Chemtech<br>A3178<br>WATER<br>6/15/2009<br>7/7/2009 | MW-17<br>MW-17<br>C4681-03<br>CTECH<br>C4681<br>WATER<br>11/16/2011 9:40<br>1/23/2012 | MW-17<br>MW-17-20150610<br>G2627-14<br>CTECH<br>G2627<br>WATER<br>6/10/2015 15:05<br>7/30/2015 | Dup of MW-17<br>MW-17<br>MW-17A<br>C4681-04<br>CTECH<br>C4681<br>WATER<br>11/16/2011 9:40<br>1/23/2012 |
|---|---|---|---|---|---|---|---|---|---|---|
| CAS NO. | COMPOUND | | UNITS: | | | | | | | |
| | VOLATILES | | | | | | | | | |
| 67-64-1 | ACETONE | 50 (G) | ug/L | ND | 20 J | ND | ND | ND | ND | ND |
| 71-43-2 | BENZENE | 1 | ug/L | **2300** | 270 | **180** | **9.9** | ND | ND | ND |
| 108-90-7 | CHLOROBENZENE | 5 | ug/L | ND | ND | ND | ND | ND | ND | ND |
| 67-66-3 | CHLOROFORM | 7 | ug/L | ND | ND | ND | ND | ND | ND | ND |
| 156-59-2 | CIS-1,2-DICHLOROETHYLENE | 5 | ug/L | ND | ND | 1 J | ND | ND | ND | ND |
| 110-82-7 | CYCLOHEXANE | NS | ug/L | 3 J | 3.1 J | ND | ND | ND | ND | ND |
| 100-41-4 | ETHYLBENZENE | 5 | ug/L | **250** | 78 | **13** | 2 J | ND | 0.29 J | ND |
| 98-82-8 | ISOPROPYLBENZENE (CUMENE) | 5 | ug/L | **110** J | 27 | **14.3** | 1.1 J | ND | ND | ND |
| 179601-23-1 | M,P-XYLENE | 5 | ug/L | **67** J | 8.6 J | 2.4 J | 1.6 J | ND | ND | ND |
| 78-93-3 | METHYL ETHYL KETONE | 50 (G) | ug/L | ND | ND | ND | ND | ND | ND | ND |
| 108-87-2 | METHYLCYCLOHEXANE | NS | ug/L | 6.5 J | 4.4 J | 2.3 J | ND | ND | ND | ND |
| 95-47-6 | O-XYLENE (1,2-DIMETHYLBENZENE) | 5 | ug/L | **170** J | 28 | **5.3** | 1.6 J | ND | ND | ND |
| 1634-04-4 | TERT-BUTYL METHYL ETHER | 10 (G) | ug/L | 9.9 J | ND | 1 J | **57** | **89** | **27.2** | **100** |
| 127-18-4 | TETRACHLOROETHYLENE(PCE) | 5 | ug/L | ND | ND | 0.35 J | ND | ND | ND | ND |
| 108-88-3 | TOLUENE | 5 | ug/L | **17** J | ND | 0.74 J | ND | ND | ND | ND |
| 156-60-5 | TRANS-1,2-DICHLOROETHENE | 5 | ug/L | ND | ND | ND | ND | ND | ND | ND |
| 79-01-6 | TRICHLOROETHYLENE (TCE) | 5 | ug/L | ND | ND | 1.3 J | ND | ND | ND | ND |
| 75-01-4 | VINYL CHLORIDE | 2 | ug/L | ND | ND | ND | ND | ND | ND | ND |
| | **TOTAL VOCs** | | **ug/L** | **2933.4** | **439.1** | **221.69** | **73.2** | **89** | **27.49** | **100** |
| | SEMIVOLATILES | | | | | | | | | |
| 50-32-8 | 2-METHYLPHENOL | 1 | ug/L | ND | ND | ND | ND | ND | ND | ND |
| 105-67-9 | 2,4-DIMETHYLPHENOL | 50 (G) | ug/L | ND | ND | ND | ND | ND | ND | ND |
| 91-57-6 | 2-METHYLNAPHTHALENE | NS | ug/L | 460 | 83 | 2.4 J | 2.6 J | ND | ND | ND |
| 83-32-9 | ACENAPHTHENE | 20 (G) | ug/L | **180** J | 57 | **50.8** | **23** | 17 | 17.1 | 17 |
| 208-96-8 | ACENAPHTHYLENE | NS | ug/L | ND | ND | ND | 4 J | ND | ND | ND |
| 98-86-2 | ACETOPHENONE | NS | ug/L | ND | ND | ND | ND | ND | ND | ND |
| 120-12-7 | ANTHRACENE | 50 (G) | ug/L | 5 J | 7.5 J | 2.9 J | 1.6 J | ND | ND | ND |
| 56-55-3 | BENZO(A)ANTHRACENE | 0.002 (G) | ug/L | ND | ND | ND | ND | ND | ND | ND |
| 92-52-4 | BIPHENYL (DIPHENYL) | -- | ug/L | 9.9 J | ND | ND | ND | ND | ND | ND |
| 50-32-8 | BENZO(A)PYRENE | ND | ug/L | ND | ND | ND | ND | ND | ND | ND |
| 205-99-2 | BENZO(B)FLUORANTHENE | 0.002 (G) | ug/L | ND | ND | ND | ND | ND | ND | ND |
| 191-24-2 | BENZO(G,H,I)PERYLENE | -- | ug/L | ND | ND | ND | ND | ND | ND | ND |
| 86-74-8 | CARBAZOLE | -- | ug/L | 25 | 7.2 J | 2.6 J | ND | 4.2 J | ND | ND |
| 218-01-9 | CHRYSENE | 0.002 (G) | ug/L | ND | ND | ND | ND | ND | ND | ND |
| 132-64-9 | DIBENZOFURAN | -- | ug/L | 5 J | ND | 2.2 J | 4.7 J | ND | ND | ND |
| 206-44-0 | FLUORANTHENE | 50 (G) | ug/L | 2 J | 6.4 J | ND | 1.6 J | ND | ND | ND |
| 86-73-7 | FLUORENE | 50 (G) | ug/L | 32 | 19 | 14 | 18 | 14 | ND | 13 |
| 193-39-5 | INDENO(1,2,3-C,D)PYRENE | 0.002 (G) | ug/L | ND | ND | ND | ND | ND | ND | ND |
| 91-20-3 | NAPHTHALENE | 10 (G) | ug/L | **1900** | 200 | **49.4** | **11** J | ND | ND | ND |
| 87-86-5 | PENTACHLOROPHENOL | 1 | ug/L | **4.2** J | ND | ND | ND | ND | ND | ND |
| 85-01-8 | PHENANTHRENE | 50 (G) | ug/L | 34 | 26 | 15.9 | 4.1 J | ND | ND | ND |
| 108-95-2 | PHENOL | 1 | ug/L | **22** | ND | ND | **1.4** J | ND | ND | ND |
| 129-00-0 | PYRENE | 50 (G) | ug/L | 2 J | 8 J | ND | 1.3 J | ND | ND | ND |
| | **TOTAL SVOCs** | | **ug/L** | **2681.1** | **414.1** | **140.2** | **73.3** | **35.2** | **17.1** | **30** |

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|---|---|---|---|---|---|---|---|---|---|---|
| CAS NO. | COMPOUND | | UNITS: | | | | | | | |
| | INORGANICS | | | | | | | | | |
| 7429-90-5 | ALUMINUM | -- | ug/L | 43.7 J | 103 J | 157 | 762 | 7150 J | 791 | 7650 J |
| 7440-36-0 | ANTIMONY | 3 | ug/L | ND | ND | ND | ND | ND | ND | ND |
| 7440-38-2 | ARSENIC | 25 | ug/L | ND | ND | 2.62 J | ND | ND | 18.5 | ND |
| 7440-39-3 | BARIUM | 1000 | ug/L | 479 | 52.5 | 183 | 177 | 271 | 236 | 274 |
| 7440-41-7 | BERYLLIUM | 3 (G) | ug/L | ND | ND | ND | ND | ND | ND | ND |
| 7440-43-9 | CADMIUM | 5 | ug/L | ND | ND | 0.665 J | ND | ND | 1.05 J | ND |
| 7440-70-2 | CALCIUM | -- | ug/L | 113000 J | 26200 | 66700 | 141000 J | 128000 | 179500 | 126000 |
| 7440-47-3 | CHROMIUM, TOTAL | 50 | ug/L | ND | ND | 2.33 J | 1.29 J | 15.1 | 14.6 | 16.6 |
| 7440-48-4 | COBALT | -- | ug/L | ND | ND | ND | ND | 6.2 J | ND | 6.61 J |
| 7440-50-8 | COPPER | 200 | ug/L | ND | 3.3 J | 2.52 J | ND | 24.9 | 5.04 J | 27 |
| 7439-89-6 | IRON | 300 | ug/L | **39400** J | 3060 J | **18000** | **63100** J | **78300** J | **26100** | **77800** J |
| 7439-92-1 | LEAD | 25 | ug/L | 3.75 J | 5.66 J | ND | 7.93 | 18.6 | 2.32 J | 18.8 |
| 7439-95-4 | MAGNESIUM | 35000 (G) | ug/L | **74100** J | 5380 | 32700 | 15600 J | 15200 | **45300** | 15200 |
| 7439-96-5 | MANGANESE | 300 | ug/L | **1740** J | 121 | **330** | **1710** J | **1700** | **5720** | **1720** |
| 7439-97-6 | MERCURY | 0.7 | ug/L | ND | ND | ND | ND | ND | 0.101 J | ND |
| 7440-02-0 | NICKEL | 100 | ug/L | ND | ND | 4.33 J | ND | 18 J | 9.45 J | 19.8 J |
| 7440-09-7 | POTASSIUM | -- | ug/L | 24000 | ND | 17700 | 14900 | 15800 | 8800 | 15900 |
| 7782-49-2 | SELENIUM | 10 | ug/L | 7.58 J | ND | ND | **12** | ND | 5.26 J | ND |
| 7440-22-4 | SILVER | 50 | ug/L | ND | ND | 2.12 J | ND | ND | 3.48 J | ND |
| 7440-23-5 | SODIUM | 20000 | ug/L | **623000** | 52200 | **195100** | **95200** | **90600** | **191400** | **90000** |
| 7440-28-0 | THALLIUM | 0.5 (G) | ug/L | ND | ND | ND | ND | ND | ND | ND |
| 7440-62-2 | VANADIUM | -- | ug/L | ND | ND | ND | ND | 18.7 J | ND | 19.7 J |
| 7440-66-6 | ZINC | 2000 (G) | ug/L | 8.72 J | 32.1 J | 6.81 J | 13.8 J | 54.4 J | 46.9 | 58.5 J |
| 57-12-5 | CYANIDE | 200 | ug/L | ND | ND | 2 J | 84 | 67 | ND | 70 |
| | DISSOLVED METALS | | | | | | | | | |
| 7429-90-5 | ALUMINUM | -- | | NA | NA | NA | NA | NA | NA | NA |
| 7440-39-3 | BARIUM | 1000 | ug/L | NA | NA | NA | NA | NA | NA | NA |
| 7440-43-9 | CADMIUM | 5 | ug/L | NA | NA | NA | NA | NA | NA | NA |
| 7440-70-2 | CALCIUM | -- | ug/L | NA | NA | NA | NA | NA | NA | NA |
| 7440-47-3 | CHROMIUM, TOTAL | 50 | ug/L | NA | NA | NA | NA | NA | NA | NA |
| 7440-50-8 | COPPER | 200 | ug/L | NA | NA | NA | NA | NA | NA | NA |
| 7439-89-6 | IRON | 300 | ug/L | NA | NA | NA | NA | NA | NA | NA |
| 7439-92-1 | LEAD | 25 | ug/L | NA | NA | NA | NA | NA | NA | NA |
| 7439-95-4 | MAGNESIUM | 35000 (G) | ug/L | NA | NA | NA | NA | NA | NA | NA |
| 7439-96-5 | MANGANESE | 300 | ug/L | NA | NA | NA | NA | NA | NA | NA |
| 7439-97-6 | MERCURY | 0.7 | ug/L | NA | NA | NA | NA | NA | NA | NA |
| 7440-09-7 | POTASSIUM | -- | ug/L | NA | NA | NA | NA | NA | NA | NA |
| 7440-22-4 | SILVER | 50 | ug/L | NA | NA | NA | NA | NA | NA | NA |
| 7440-23-5 | SODIUM | 20000 | ug/L | NA | NA | NA | NA | NA | NA | NA |
| 7440-28-0 | THALLIUM | 0.5 (G) | ug/L | NA | NA | NA | NA | NA | NA | NA |
| 7440-66-6 | ZINC | 2000 | ug/L | NA | NA | NA | NA | NA | NA | NA |

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NA indicates compound was not analyzed for
ND indicates compound was not detected
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Table 4
Farrington Street Former MGP Site
Summary of Groundwater Analytical Data
Consolidated Edison Company of New York

| Consolidated Edisor<br>Farrington Street Remedial Investigatio<br>2009-2015 Groundwater Analytical Data<br>Detected Compounds Only | | NYSDEC Class GA Groundwater Standards/Guidance Values[(1)] | Location ID:<br>Sample ID:<br>Lab Sample Id<br>Source:<br>SDG:<br>Matrix:<br>Sampled:<br>Validated: | MW-18<br>MW-18<br>A3178-06<br>Chemtech<br>A3178<br>WATER<br>6/15/2009<br>7/7/2009 | MW-18<br>MW-18<br>C4681-15<br>CTECH<br>C4681<br>WATER<br>11/17/2011 2:35<br>1/23/2012 | MW-19<br>MW-19<br>A3178-12<br>Chemtech<br>A3178<br>WATER<br>6/16/2009<br>7/7/2009 | MW-19<br>MW-19<br>C4681-13<br>CTECH<br>C4681<br>WATER<br>11/17/2011 2:00<br>1/23/2012 | MW-20<br>MW-20<br>A3178-11<br>Chemtech<br>A3178<br>WATER<br>6/16/2009<br>7/7/2009 | MW-20<br>MW-20<br>C4681-17<br>CTECH<br>C4681<br>WATER<br>11/16/2011 11:40<br>1/23/2012 | MW-20<br>MW-20-20150609<br>G2627-09<br>CTECH<br>G2627<br>WATER<br>6/9/2015 13:00<br>7/30/2015 |
|---|---|---|---|---|---|---|---|---|---|---|
| CAS NO. | COMPOUND | | UNITS: | | | | | | | |
| | VOLATILES | | | | | | | | | |
| 67-64-1 | ACETONE | 50 (G) | ug/L | ND | 9.3 J | ND | ND | ND | ND | ND |
| 71-43-2 | BENZENE | 1 | ug/L | **940** | **830** | **8.8** | **4.8** J | **3.4** J | **11** | ND |
| 108-90-7 | CHLOROBENZENE | 5 | ug/L | ND | ND | ND | ND | ND | ND | ND |
| 67-66-3 | CHLOROFORM | 7 | ug/L | ND | ND | ND | ND | ND | ND | ND |
| 156-59-2 | CIS-1,2-DICHLOROETHYLENE | 5 | ug/L | ND | ND | ND | ND | **5.7** | ND | ND |
| 110-82-7 | CYCLOHEXANE | NS | ug/L | 5.7 | 9.2 | 8.1 | 8.4 | ND | ND | ND |
| 100-41-4 | ETHYLBENZENE | 5 | ug/L | **170** | **150** | **310** | **100** | ND | ND | ND |
| 98-82-8 | ISOPROPYLBENZENE (CUMENE) | 5 | ug/L | **75** | **33** | **45** | **25** | ND | ND | ND |
| 179601-23-1 | M,P-XYLENE | 5 | ug/L | **16** | **22** | **68** | **6.2** J | ND | ND | ND |
| 78-93-3 | METHYL ETHYL KETONE | 50 (G) | ug/L | ND | ND | ND | ND | ND | ND | ND |
| 108-87-2 | METHYLCYCLOHEXANE | NS | ug/L | 9.2 | 7.2 | 14 | 5.5 | ND | ND | ND |
| 95-47-6 | O-XYLENE (1,2-DIMETHYLBENZENE) | 5 | ug/L | **32** | **20** | **130** | **34** | ND | ND | ND |
| 1634-04-4 | TERT-BUTYL METHYL ETHER | 10 (G) | ug/L | 3.6 J | 2.7 J | ND | ND | **24** | **12** | ND |
| 127-18-4 | TETRACHLOROETHYLENE(PCE) | 5 | ug/L | ND | ND | ND | ND | ND | ND | ND |
| 108-88-3 | TOLUENE | 5 | ug/L | 5 J | 4.7 J | **8.2** | ND | ND | ND | 0.56 J |
| 156-60-5 | TRANS-1,2-DICHLOROETHENE | 5 | ug/L | ND | ND | ND | ND | ND | ND | ND |
| 79-01-6 | TRICHLOROETHYLENE (TCE) | 5 | ug/L | ND | ND | ND | ND | 1.1 J | ND | ND |
| 75-01-4 | VINYL CHLORIDE | 2 | ug/L | ND | ND | ND | ND | ND | ND | ND |
| | **TOTAL VOCs** | | **ug/L** | **1256.5** | **1088.1** | **592.1** | **183.9** | **34.2** | **23** | **0.56** |
| | SEMIVOLATILES | | | | | | | | | |
| 50-32-8 | 2-METHYLPHENOL | 1 | ug/L | ND | ND | ND | ND | ND | ND | ND |
| 105-67-9 | 2,4-DIMETHYLPHENOL | 50 (G) | ug/L | ND | ND | ND | ND | ND | ND | ND |
| 91-57-6 | 2-METHYLNAPHTHALENE | NS | ug/L | 210 | 82 | 260 | 70 | ND | ND | ND |
| 83-32-9 | ACENAPHTHENE | 20 (G) | ug/L | **82** | **40** | **94** | **70** | **22** | **23** | ND |
| 208-96-8 | ACENAPHTHYLENE | NS | ug/L | ND | ND | 4.3 J | ND | ND | ND | ND |
| 98-86-2 | ACETOPHENONE | NS | ug/L | ND | ND | ND | ND | ND | ND | ND |
| 120-12-7 | ANTHRACENE | 50 (G) | ug/L | 3.8 J | 9 J | 7.7 J | 7 J | 1.1 J | ND | ND |
| 56-55-3 | BENZO(A)ANTHRACENE | 0.002 (G) | ug/L | ND | ND | ND | ND | ND | ND | ND |
| 92-52-4 | BIPHENYL (DIPHENYL) | -- | ug/L | 3.6 J | 4.3 J | 15 | ND | ND | ND | ND |
| 50-32-8 | BENZO(A)PYRENE | ND | ug/L | ND | ND | ND | ND | ND | ND | ND |
| 205-99-2 | BENZO(B)FLUORANTHENE | 0.002 (G) | ug/L | ND | ND | ND | ND | ND | ND | ND |
| 191-24-2 | BENZO(G,H,I)PERYLENE | -- | ug/L | ND | ND | ND | ND | ND | ND | ND |
| 86-74-8 | CARBAZOLE | -- | ug/L | 22 | 12 | 11 J | 8.3 J | 1.6 J | ND | ND |
| 218-01-9 | CHRYSENE | 0.002 (G) | ug/L | ND | ND | ND | ND | ND | ND | ND |
| 132-64-9 | DIBENZOFURAN | -- | ug/L | ND | ND | 4.7 J | ND | ND | ND | ND |
| 206-44-0 | FLUORANTHENE | 50 (G) | ug/L | ND | 4.7 J | 3.1 J | ND | ND | ND | ND |
| 86-73-7 | FLUORENE | 50 (G) | ug/L | 20 | 14 | 26 | 22 | ND | ND | ND |
| 193-39-5 | INDENO(1,2,3-C,D)PYRENE | 0.002 (G) | ug/L | ND | ND | ND | ND | ND | ND | ND |
| 91-20-3 | NAPHTHALENE | 10 (G) | ug/L | **380** | **130** | **3000** | **980** | ND | ND | ND |
| 87-86-5 | PENTACHLOROPHENOL | 1 | ug/L | ND | ND | **2.4** J | ND | ND | ND | ND |
| 85-01-8 | PHENANTHRENE | 50 (G) | ug/L | 20 | 26 | 35 | 27 | ND | ND | ND |
| 108-95-2 | PHENOL | 1 | ug/L | **18** | **6.2** J | **3** J | ND | **1.7** J | ND | ND |
| 129-00-0 | PYRENE | 50 (G) | ug/L | ND | 8.3 J | 3.6 J | 4.3 J | ND | ND | ND |
| | **TOTAL SVOCs** | | **ug/L** | **759.4** | **336.5** | **3469.8** | **1188.6** | **26.4** | **23** | **ND** |

Notes:
(1) NYSDEC TOGS 1.1.1 Ambient Water Quality Standards and Guidance Values (October 1998
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Table 4
Farrington Street Former MGP Site
Summary of Groundwater Analytical Data
Consolidated Edison Company of New York

| Consolidated Edisor | | | Location ID: | MW-18 | MW-18 | MW-19 | MW-19 | MW-20 | MW-20 | MW-20 |
|---|---|---|---|---|---|---|---|---|---|---|
| Farrington Street Remedial Investigatio | | | Sample ID: | MW-18 | MW-18 | MW-19 | MW-19 | MW-20 | MW-20 | MW-20-20150609 |
| 2009-2015 Groundwater Analytical Data | | | Lab Sample Id | A3178-06 | C4681-15 | A3178-12 | C4681-13 | A3178-11 | C4681-17 | G2627-09 |
| Detected Compounds Only | | NYSDEC | Source: | Chemtech | CTECH | Chemtech | CTECH | Chemtech | CTECH | CTECH |
| | | Class GA | SDG: | A3178 | C4681 | A3178 | C4681 | A3178 | C4681 | G2627 |
| | | Groundwater | Matrix: | WATER | WATER | WATER | WATER | WATER | WATER | WATER |
| | | Standards/Guidance | Sampled: | 6/15/2009 | 11/17/2011 2:35 | 6/16/2009 | 11/17/2011 2:00 | 6/16/2009 | 11/16/2011 11:40 | 6/9/2015 13:00 |
| | | Values[(1)] | Validated: | 7/7/2009 | 1/23/2012 | 7/7/2009 | 1/23/2012 | 7/7/2009 | 1/23/2012 | 7/30/2015 |
| CAS NO. | COMPOUND | | UNITS: | | | | | | | |
| | INORGANICS | | | | | | | | | |
| 7429-90-5 | ALUMINUM | -- | ug/L | 36600 | 88.5 J | 71.1 | 192 J | 33.4 J | 18.6 J | 75.6 |
| 7440-36-0 | ANTIMONY | 3 | ug/L | ND | ND | ND | ND | ND | ND | ND |
| 7440-38-2 | ARSENIC | 25 | ug/L | ND | ND | ND | 5.65 J | ND | ND | ND |
| 7440-39-3 | BARIUM | 1000 | ug/L | 442 | 156 | 206 | 200 | 302 | 268 | 235 |
| 7440-41-7 | BERYLLIUM | 3 (G) | ug/L | 1.87 J | ND | ND | ND | ND | ND | ND |
| 7440-43-9 | CADMIUM | 5 | ug/L | 1.49 J | ND | ND | ND | ND | ND | ND |
| 7440-70-2 | CALCIUM | -- | ug/L | 84200 J | 84900 | 107000 J | 120000 | 90300 J | 106000 | 53900 |
| 7440-47-3 | CHROMIUM, TOTAL | 50 | ug/L | **131** | ND | ND | 8.61 | ND | ND | 1.43 J |
| 7440-48-4 | COBALT | -- | ug/L | 46.2 | ND | ND | ND | 9.19 J | ND | ND |
| 7440-50-8 | COPPER | 200 | ug/L | 132 | 8.45 J | ND | 9.34 J | ND | 2.21 J | ND |
| 7439-89-6 | IRON | 300 | ug/L | **134000** J | **39800** J | **62900** J | **61400** J | **5570** J | **6180** J | **1950** |
| 7439-92-1 | LEAD | 25 | ug/L | **76.5** | 5.29 J | 7.02 | 5.03 J | 7.59 | 6.87 | ND |
| 7439-95-4 | MAGNESIUM | 35000 (G) | ug/L | 23200 J | 11800 | 16500 J | 18500 | 18700 J | 19200 | 17600 |
| 7439-96-5 | MANGANESE | 300 | ug/L | **1040** J | **550** | **884** J | **1020** | **2820** J | **589** | 66.9 |
| 7439-97-6 | MERCURY | 0.7 | ug/L | 0.13 J | ND | ND | ND | ND | ND | ND |
| 7440-02-0 | NICKEL | 100 | ug/L | 145 | ND | ND | ND | ND | 8.14 J | 8.21 J |
| 7440-09-7 | POTASSIUM | -- | ug/L | 16300 | 8330 | 9910 | 12600 | 9210 | ND | 4480 |
| 7782-49-2 | SELENIUM | 10 | ug/L | 8.82 J | ND | 6.63 J | ND | 9.2 J | ND | 8.7 J |
| 7440-22-4 | SILVER | 50 | ug/L | ND | ND | ND | ND | ND | ND | ND |
| 7440-23-5 | SODIUM | 20000 | ug/L | **58000** | **43900** | **99400** | **117000** | **154000** | **104000** | **290100** |
| 7440-28-0 | THALLIUM | 0.5 (G) | ug/L | ND | ND | ND | ND | ND | ND | ND |
| 7440-62-2 | VANADIUM | -- | ug/L | 102 | ND | ND | ND | ND | ND | ND |
| 7440-66-6 | ZINC | 2000 (G) | ug/L | 534 | 18.6 J | 7.27 J | 21.4 J | 12.6 J | 12.6 J | 76.8 |
| 57-12-5 | CYANIDE | 200 | ug/L | 15 | 7 | 45 | 7 | 87 | 18 | ND |
| | DISSOLVED METALS | | | | | | | | | |
| 7429-90-5 | ALUMINUM | -- | | NA | NA | NA | NA | NA | NA | NA |
| 7440-39-3 | BARIUM | 1000 | ug/L | NA | NA | NA | NA | NA | NA | NA |
| 7440-43-9 | CADMIUM | 5 | ug/L | NA | NA | NA | NA | NA | NA | NA |
| 7440-70-2 | CALCIUM | -- | ug/L | NA | NA | NA | NA | NA | NA | NA |
| 7440-47-3 | CHROMIUM, TOTAL | 50 | ug/L | NA | NA | NA | NA | NA | NA | NA |
| 7440-50-8 | COPPER | 200 | ug/L | NA | NA | NA | NA | NA | NA | NA |
| 7439-89-6 | IRON | 300 | ug/L | NA | NA | NA | NA | NA | NA | NA |
| 7439-92-1 | LEAD | 25 | ug/L | NA | NA | NA | NA | NA | NA | NA |
| 7439-95-4 | MAGNESIUM | 35000 (G) | ug/L | NA | NA | NA | NA | NA | NA | NA |
| 7439-96-5 | MANGANESE | 300 | ug/L | NA | NA | NA | NA | NA | NA | NA |
| 7439-97-6 | MERCURY | 0.7 | ug/L | NA | NA | NA | NA | NA | NA | NA |
| 7440-09-7 | POTASSIUM | -- | ug/L | NA | NA | NA | NA | NA | NA | NA |
| 7440-22-4 | SILVER | 50 | ug/L | NA | NA | NA | NA | NA | NA | NA |
| 7440-23-5 | SODIUM | 20000 | ug/L | NA | NA | NA | NA | NA | NA | NA |
| 7440-28-0 | THALLIUM | 0.5 (G) | ug/L | NA | NA | NA | NA | NA | NA | NA |
| 7440-66-6 | ZINC | 2000 | ug/L | NA | NA | NA | NA | NA | NA | NA |

Notes:
(1) NYSDEC TOGS 1.1.1 Ambient Water Quality Standards and Guidance Values (October 1998
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Consolidated Edison Company of New York

| Consolidated Edisor<br>Farrington Street Remedial Investigatio<br>2009-2015 Groundwater Analytical Data<br>Detected Compounds Only | | NYSDEC Class GA Groundwater Standards/Guidance Values[(1)] | Location ID:<br>Sample ID:<br>Lab Sample Id<br>Source:<br>SDG:<br>Matrix:<br>Sampled:<br>Validated: | MW-21<br>MW-21<br>A3178-09<br>Chemtech<br>A3178<br>WATER<br>6/16/2009<br>7/7/2009 | MW-21<br>MW-21<br>C4681-18<br>CTECH<br>C4681<br>WATER<br>11/16/2011 9:35<br>1/23/2012 | MW-21<br>MW-21-20150609<br>G2627-07<br>CTECH<br>G2627<br>WATER<br>6/9/2015 9:35<br>7/30/2015 | MW-25<br>MW-25<br>C4681-14<br>CTECH<br>C4681<br>WATER<br>11/17/2011 12:05<br>1/23/2012 | MW-25<br>MW-25-20150611<br>G2627-16<br>CTECH<br>G2627<br>WATER<br>6/11/2015 11:45<br>7/30/2015 | MW-27<br>MW-27<br>C4681-06<br>CTECH<br>C4681<br>WATER<br>11/14/2011 3:05<br>1/23/2012 | MW-27<br>MW-27-20150609<br>G2627-10<br>CTECH<br>G2627<br>WATER<br>6/9/2015 14:50<br>7/30/2015 |
|---|---|---|---|---|---|---|---|---|---|---|
| CAS NO. | COMPOUND | | UNITS: | | | | | | | |
| | VOLATILES | | | | | | | | | |
| 67-64-1 | ACETONE | 50 (G) | ug/L | ND | ND | ND | 7.2 J | 3.7 J | ND | ND |
| 71-43-2 | BENZENE | 1 | ug/L | ND | ND | ND | 8.4 | ND | ND | ND |
| 108-90-7 | CHLOROBENZENE | 5 | ug/L | ND | ND | ND | ND | ND | ND | ND |
| 67-66-3 | CHLOROFORM | 7 | ug/L | ND | ND | ND | ND | ND | 4.1 J | 0.37 J |
| 156-59-2 | CIS-1,2-DICHLOROETHYLENE | 5 | ug/L | ND | ND | ND | ND | ND | ND | ND |
| 110-82-7 | CYCLOHEXANE | NS | ug/L | ND | ND | ND | ND | ND | ND | ND |
| 100-41-4 | ETHYLBENZENE | 5 | ug/L | ND | ND | ND | 100 | ND | ND | ND |
| 98-82-8 | ISOPROPYLBENZENE (CUMENE) | 5 | ug/L | ND | ND | ND | 11 | ND | ND | ND |
| 179601-23-1 | M,P-XYLENE | 5 | ug/L | ND | ND | ND | 28 | ND | ND | ND |
| 78-93-3 | METHYL ETHYL KETONE | 50 (G) | ug/L | ND | ND | ND | ND | ND | ND | ND |
| 108-87-2 | METHYLCYCLOHEXANE | NS | ug/L | ND | ND | ND | ND | ND | ND | ND |
| 95-47-6 | O-XYLENE (1,2-DIMETHYLBENZENE) | 5 | ug/L | ND | ND | ND | 27 | ND | ND | ND |
| 1634-04-4 | TERT-BUTYL METHYL ETHER | 10 (G) | ug/L | ND | ND | 1.8 J | 75 | ND | ND | 1 J |
| 127-18-4 | TETRACHLOROETHYLENE(PCE) | 5 | ug/L | ND | ND | ND | ND | ND | ND | 1.2 J |
| 108-88-3 | TOLUENE | 5 | ug/L | ND | ND | 0.42 J | ND | 0.99 J | ND | 0.37 J |
| 156-60-5 | TRANS-1,2-DICHLOROETHENE | 5 | ug/L | ND | ND | ND | ND | ND | ND | ND |
| 79-01-6 | TRICHLOROETHYLENE (TCE) | 5 | ug/L | ND | ND | ND | ND | ND | ND | 0.31 J |
| 75-01-4 | VINYL CHLORIDE | 2 | ug/L | ND | ND | ND | ND | ND | ND | ND |
| | **TOTAL VOCs** | | **ug/L** | **ND** | **ND** | **2.22** | **256.6** | **4.69** | **4.1** | **3.25** |
| | SEMIVOLATILES | | | | | | | | | |
| 50-32-8 | 2-METHYLPHENOL | 1 | ug/L | ND | ND | ND | ND | ND | ND | ND |
| 105-67-9 | 2,4-DIMETHYLPHENOL | 50 (G) | ug/L | ND | ND | ND | ND | ND | ND | ND |
| 91-57-6 | 2-METHYLNAPHTHALENE | NS | ug/L | ND | ND | ND | 21 | ND | ND | ND |
| 83-32-9 | ACENAPHTHENE | 20 (G) | ug/L | 2.4 J | ND | ND | 52 | ND | ND | ND |
| 208-96-8 | ACENAPHTHYLENE | NS | ug/L | ND | ND | ND | ND | ND | ND | ND |
| 98-86-2 | ACETOPHENONE | NS | ug/L | ND | ND | ND | 5.7 J | ND | ND | ND |
| 120-12-7 | ANTHRACENE | 50 (G) | ug/L | ND | ND | ND | 8.6 J | ND | ND | ND |
| 56-55-3 | BENZO(A)ANTHRACENE | 0.002 (G) | ug/L | ND | ND | ND | ND | ND | ND | ND |
| 92-52-4 | BIPHENYL (DIPHENYL) | -- | ug/L | ND | ND | ND | ND | ND | ND | ND |
| 50-32-8 | BENZO(A)PYRENE | ND | ug/L | ND | ND | ND | ND | ND | ND | ND |
| 205-99-2 | BENZO(B)FLUORANTHENE | 0.002 (G) | ug/L | ND | ND | ND | ND | ND | ND | ND |
| 191-24-2 | BENZO(G,H,I)PERYLENE | -- | ug/L | ND | ND | ND | ND | ND | ND | ND |
| 86-74-8 | CARBAZOLE | -- | ug/L | ND | ND | ND | ND | ND | ND | ND |
| 218-01-9 | CHRYSENE | 0.002 (G) | ug/L | ND | ND | ND | ND | ND | ND | ND |
| 132-64-9 | DIBENZOFURAN | -- | ug/L | ND | ND | ND | ND | ND | ND | ND |
| 206-44-0 | FLUORANTHENE | 50 (G) | ug/L | ND | ND | ND | 9.6 J | ND | ND | ND |
| 86-73-7 | FLUORENE | 50 (G) | ug/L | ND | ND | ND | 17 | ND | ND | ND |
| 193-39-5 | INDENO(1,2,3-C,D)PYRENE | 0.002 (G) | ug/L | ND | ND | ND | ND | ND | ND | ND |
| 91-20-3 | NAPHTHALENE | 10 (G) | ug/L | ND | ND | ND | 42 | ND | ND | ND |
| 87-86-5 | PENTACHLOROPHENOL | 1 | ug/L | ND | ND | ND | ND | ND | ND | ND |
| 85-01-8 | PHENANTHRENE | 50 (G) | ug/L | ND | ND | ND | 18 | ND | ND | ND |
| 108-95-2 | PHENOL | 1 | ug/L | **4.1** J | ND | ND | ND | ND | ND | ND |
| 129-00-0 | PYRENE | 50 (G) | ug/L | ND | ND | ND | 10 J | ND | ND | ND |
| | **TOTAL SVOCs** | | **ug/L** | **6.5** | **ND** | **ND** | **183.9** | **ND** | **ND** | **ND** |

Notes:
(1) NYSDEC TOGS 1.1.1 Ambient Water Quality Standards and Guidance Values (October 1998
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|---|---|---|---|---|---|---|---|---|---|---|
| CAS NO. | COMPOUND | | UNITS: | | | | | | | |
| | INORGANICS | | | | | | | | | |
| 7429-90-5 | ALUMINUM | -- | ug/L | 308 | 263 J | 1460 | 10100 J | 2030 | 778 J | 4290 |
| 7440-36-0 | ANTIMONY | 3 | ug/L | ND | ND | ND | ND | ND | ND | ND |
| 7440-38-2 | ARSENIC | 25 | ug/L | ND | ND | ND | ND | 21.4 | ND | ND |
| 7440-39-3 | BARIUM | 1000 | ug/L | 438 | 575 | 535 | 200 | 160 | 54.1 | 148 |
| 7440-41-7 | BERYLLIUM | 3 (G) | ug/L | ND | ND | ND | ND | ND | ND | ND |
| 7440-43-9 | CADMIUM | 5 | ug/L | 0.77 J | ND | 4.83 | ND | 1.61 J | ND | 0.515 J |
| 7440-70-2 | CALCIUM | -- | ug/L | 116000 J | 116000 | 112300 | 65600 | 99300 | 27100 | 45900 |
| 7440-47-3 | CHROMIUM, TOTAL | 50 | ug/L | 1.41 J | ND | 4.37 J | 38.9 | 17.3 | 2.03 J | 16.2 |
| 7440-48-4 | COBALT | -- | ug/L | ND | ND | ND | 12 J | 4.96 J | ND | 5.86 J |
| 7440-50-8 | COPPER | 200 | ug/L | ND | 11.6 | 2.56 J | 51.4 | 52.4 | 3.56 J | 9.21 J |
| 7439-89-6 | IRON | 300 | ug/L | **54000** J | **61900** J | **86600** | 24900 J | **7350** | **1770** J | **8530** |
| 7439-92-1 | LEAD | 25 | ug/L | 16.7 | 10.4 | 13.4 | 239 | **61.1** | 8.29 | ND |
| 7439-95-4 | MAGNESIUM | 35000 (G) | ug/L | 20600 J | 17600 | 17700 | 10800 | 8890 | 7220 | 13400 |
| 7439-96-5 | MANGANESE | 300 | ug/L | **1020** J | **1040** | **965** | 1070 | **402** | 228 | **865** |
| 7439-97-6 | MERCURY | 0.7 | ug/L | ND | ND | 0.145 J | 0.507 | 0.23 | ND | ND |
| 7440-02-0 | NICKEL | 100 | ug/L | ND | ND | 5.26 J | 33.9 | 11.2 J | 5.36 J | 25.9 |
| 7440-09-7 | POTASSIUM | -- | ug/L | 26200 | 30100 | 23800 | 8820 | 6200 | ND | 6040 |
| 7782-49-2 | SELENIUM | 10 | ug/L | **10.7** | ND | ND | ND | 9.65 J | ND | 5.9 J |
| 7440-22-4 | SILVER | 50 | ug/L | ND | ND | 8.98 | ND | ND | ND | ND |
| 7440-23-5 | SODIUM | 20000 | ug/L | **350000** | **364000** | **379300** | 31300 | **89000** | **47100** | **79400** |
| 7440-28-0 | THALLIUM | 0.5 (G) | ug/L | ND | ND | ND | ND | ND | ND | ND |
| 7440-62-2 | VANADIUM | -- | ug/L | ND | ND | ND | 41.9 | 10.05 J | ND | 11.2 J |
| 7440-66-6 | ZINC | 2000 (G) | ug/L | 18.6 J | 36.2 J | 86.8 | 182 J | 280 | 14.6 J | 80 |
| 57-12-5 | CYANIDE | 200 | ug/L | 160 | 42 | 119 | 13 | 4 J | ND | ND |
| | DISSOLVED METALS | | | | | | | | | |
| 7429-90-5 | ALUMINUM | -- | | NA | ND | NA | ND | NA | NA | NA |
| 7440-39-3 | BARIUM | 1000 | ug/L | NA | 401 | NA | 84.1 | NA | NA | NA |
| 7440-43-9 | CADMIUM | 5 | ug/L | NA | 2.95 J | NA | ND | NA | NA | NA |
| 7440-70-2 | CALCIUM | -- | ug/L | NA | 113000 | NA | 63800 | NA | NA | NA |
| 7440-47-3 | CHROMIUM, TOTAL | 50 | ug/L | NA | 1.34 J | NA | 1.26 J | NA | NA | NA |
| 7440-50-8 | COPPER | 200 | ug/L | NA | 3.38 J | NA | 6.35 J | NA | NA | NA |
| 7439-89-6 | IRON | 300 | ug/L | NA | **43500** | NA | ND | NA | NA | NA |
| 7439-92-1 | LEAD | 25 | ug/L | NA | 3.73 J | NA | ND | NA | NA | NA |
| 7439-95-4 | MAGNESIUM | 35000 (G) | ug/L | NA | 19600 | NA | ND | NA | NA | NA |
| 7439-96-5 | MANGANESE | 300 | ug/L | NA | **966** | NA | 752 | NA | NA | NA |
| 7439-97-6 | MERCURY | 0.7 | ug/L | NA | ND | NA | ND | NA | NA | NA |
| 7440-09-7 | POTASSIUM | -- | ug/L | NA | 29100 | NA | ND | NA | NA | NA |
| 7440-22-4 | SILVER | 50 | ug/L | NA | 2.54 J | NA | ND | NA | NA | NA |
| 7440-23-5 | SODIUM | 20000 | ug/L | NA | **376000** | NA | ND | NA | NA | NA |
| 7440-28-0 | THALLIUM | 0.5 (G) | ug/L | NA | **3.66** J | NA | 3.05 J | NA | NA | NA |
| 7440-66-6 | ZINC | 2000 | ug/L | NA | 29.2 | NA | 20.1 | NA | NA | NA |

Notes:
(1) NYSDEC TOGS 1.1.1 Ambient Water Quality Standards and Guidance Values (October 1998
Shaded values exceed NYSDEC Class GA Groundwater Standards and Guidance Values
-- indicates no standard or guidance value is available
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N indicates presumptive evidence of a compoun
NA indicates compound was not analyzed for
ND indicates compound was not detected
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Table 4
Farrington Street Former MGP Site
Summary of Groundwater Analytical Data
Consolidated Edison Company of New York

| Consolidated Edisor<br>Farrington Street Remedial Investigatio<br>2009-2015 Groundwater Analytical Data<br>Detected Compounds Only | | NYSDEC Class GA Groundwater Standards/Guidance Values[(1)] | Location ID:<br>Sample ID:<br>Lab Sample Id<br>Source:<br>SDG:<br>Matrix:<br>Sampled:<br>Validated: | MW-28<br>MW-28<br>C4681-05<br>CTECH<br>C4681<br>WATER<br>11/14/2011 4:05<br>1/23/2012 | MW-28<br>MW-28-20150611<br>G2627-15<br>CTECH<br>G2627<br>WATER<br>6/11/2015 9:55<br>7/30/2015 | MW-30<br>MW-30<br>C4681-01<br>CTECH<br>C4681<br>WATER<br>11/16/2011 1:40<br>1/23/2012 | MW-30<br>MW-30-20150611<br>G2627-17<br>CTECH<br>G2627<br>WATER<br>6/11/2015 13:30<br>7/30/2015 | MW-41<br>MW-41-20150608<br>G2627-01<br>CTECH<br>G2627<br>WATER<br>6/8/2015 14:40<br>7/30/2015 | Dup of MW-14-20150608<br>MW-41<br>MW-141-20150608<br>G2627-04<br>CTECH<br>G2627<br>WATER<br>6/8/2015 14:40<br>7/30/2015 | MW-CSB-60<br>MW-CSB-60-20150609<br>G2627-06<br>CTECH<br>G2627<br>WATER<br>6/9/2015 8:00<br>7/30/2015 |
|---|---|---|---|---|---|---|---|---|---|---|
| CAS NO. | COMPOUND | | UNITS: | | | | | | | |
| | VOLATILES | | | | | | | | | |
| 67-64-1 | ACETONE | 50 (G) | ug/L | ND | ND | ND | ND | ND | ND | ND |
| 71-43-2 | BENZENE | 1 | ug/L | ND | ND | **2800** | **1.4** J | ND | ND | ND |
| 108-90-7 | CHLOROBENZENE | 5 | ug/L | ND | ND | ND | ND | 0.59 J | ND | ND |
| 67-66-3 | CHLOROFORM | 7 | ug/L | ND | ND | ND | ND | ND | ND | ND |
| 156-59-2 | CIS-1,2-DICHLOROETHYLENE | 5 | ug/L | 4.3 J | 3.5 J | ND | 2.6 J | ND | ND | ND |
| 110-82-7 | CYCLOHEXANE | NS | ug/L | ND | ND | 3.3 J | ND | ND | ND | ND |
| 100-41-4 | ETHYLBENZENE | 5 | ug/L | ND | ND | **210** J | ND | ND | ND | ND |
| 98-82-8 | ISOPROPYLBENZENE (CUMENE) | 5 | ug/L | ND | ND | **80** | 1.1 J | ND | ND | ND |
| 179601-23-1 | M,P-XYLENE | 5 | ug/L | ND | ND | **26** | ND | ND | ND | ND |
| 78-93-3 | METHYL ETHYL KETONE | 50 (G) | ug/L | ND | ND | ND | ND | ND | ND | ND |
| 108-87-2 | METHYLCYCLOHEXANE | NS | ug/L | ND | ND | 4.9 J | ND | ND | ND | ND |
| 95-47-6 | O-XYLENE (1,2-DIMETHYLBENZENE) | 5 | ug/L | ND | ND | **71** | ND | ND | ND | ND |
| 1634-04-4 | TERT-BUTYL METHYL ETHER | 10 (G) | ug/L | 10 | 1.6 J | 9.4 | 0.72 J | ND | ND | 0.41 J |
| 127-18-4 | TETRACHLOROETHYLENE(PCE) | 5 | ug/L | **17** | **29.9** | ND | 0.96 J | ND | ND | ND |
| 108-88-3 | TOLUENE | 5 | ug/L | ND | ND | **6.7** | 0.48 J | 0.38 J | ND | ND |
| 156-60-5 | TRANS-1,2-DICHLOROETHENE | 5 | ug/L | ND | ND | ND | 4.1 J | ND | ND | ND |
| 79-01-6 | TRICHLOROETHYLENE (TCE) | 5 | ug/L | 2.2 J | 2.5 J | ND | 3.3 J | ND | ND | ND |
| 75-01-4 | VINYL CHLORIDE | 2 | ug/L | ND | ND | ND | ND | ND | ND | ND |
| | **TOTAL VOCs** | | **ug/L** | **33.5** | **37.5** | **3211.3** | **14.66** | **0.97** | **ND** | **0.41** |
| | SEMIVOLATILES | | | | | | | | | |
| 50-32-8 | 2-METHYLPHENOL | 1 | ug/L | ND | ND | ND | ND | ND | ND | ND |
| 105-67-9 | 2,4-DIMETHYLPHENOL | 50 (G) | ug/L | ND | ND | ND | ND | ND | ND | ND |
| 91-57-6 | 2-METHYLNAPHTHALENE | NS | ug/L | ND | ND | 210 | ND | ND | ND | ND |
| 83-32-9 | ACENAPHTHENE | 20 (G) | ug/L | ND | ND | **140** | ND | ND | ND | ND |
| 208-96-8 | ACENAPHTHYLENE | NS | ug/L | ND | ND | ND | ND | ND | ND | ND |
| 98-86-2 | ACETOPHENONE | NS | ug/L | ND | ND | ND | ND | ND | ND | ND |
| 120-12-7 | ANTHRACENE | 50 (G) | ug/L | ND | ND | 9.4 J | ND | ND | ND | ND |
| 56-55-3 | BENZO(A)ANTHRACENE | 0.002 (G) | ug/L | ND | ND | ND | ND | ND | ND | ND |
| 92-52-4 | BIPHENYL (DIPHENYL) | -- | ug/L | ND | ND | ND | ND | ND | ND | ND |
| 50-32-8 | BENZO(A)PYRENE | ND | ug/L | ND | ND | ND | ND | ND | ND | ND |
| 205-99-2 | BENZO(B)FLUORANTHENE | 0.002 (G) | ug/L | ND | ND | ND | ND | ND | ND | ND |
| 191-24-2 | BENZO(G,H,I)PERYLENE | -- | ug/L | ND | ND | ND | ND | ND | ND | ND |
| 86-74-8 | CARBAZOLE | -- | ug/L | ND | ND | 30 | ND | ND | ND | ND |
| 218-01-9 | CHRYSENE | 0.002 (G) | ug/L | ND | ND | ND | ND | ND | ND | ND |
| 132-64-9 | DIBENZOFURAN | -- | ug/L | ND | ND | 9.4 J | ND | ND | ND | ND |
| 206-44-0 | FLUORANTHENE | 50 (G) | ug/L | ND | ND | 5.1 J | 2.2 J | ND | ND | ND |
| 86-73-7 | FLUORENE | 50 (G) | ug/L | ND | ND | 39 | ND | ND | ND | ND |
| 193-39-5 | INDENO(1,2,3-C,D)PYRENE | 0.002 (G) | ug/L | ND | ND | ND | ND | ND | ND | ND |
| 91-20-3 | NAPHTHALENE | 10 (G) | ug/L | ND | ND | **370** | ND | ND | ND | ND |
| 87-86-5 | PENTACHLOROPHENOL | 1 | ug/L | ND | ND | ND | ND | ND | ND | ND |
| 85-01-8 | PHENANTHRENE | 50 (G) | ug/L | ND | ND | **55** | 3.2 J | ND | ND | ND |
| 108-95-2 | PHENOL | 1 | ug/L | ND | ND | **17** | ND | ND | ND | ND |
| 129-00-0 | PYRENE | 50 (G) | ug/L | ND | ND | 4.9 J | 2.5 J | ND | ND | ND |
| | **TOTAL SVOCs** | | **ug/L** | **ND** | **ND** | **889.8** | **7.9** | **ND** | **ND** | **ND** |

Notes:
(1) NYSDEC TOGS 1.1.1 Ambient Water Quality Standards and Guidance Values (October 1998
Shaded values exceed NYSDEC Class GA Groundwater Standards and Guidance Values
-- indicates no standard or guidance value is available
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N indicates presumptive evidence of a compoun
NA indicates compound was not analyzed for
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J indicates an estimated concentration
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Table 4
Farrington Street Former MGP Site
Summary of Groundwater Analytical Data
Consolidated Edison Company of New York

| Consolidated Edisor<br>Farrington Street Remedial Investigatio<br>2009-2015 Groundwater Analytical Data<br>Detected Compounds Only | | NYSDEC Class GA Groundwater Standards/Guidance Values[(1)] | Location ID:<br>Sample ID:<br>Lab Sample Id<br>Source:<br>SDG:<br>Matrix:<br>Sampled:<br>Validated: | MW-28<br>MW-28<br>C4681-05<br>CTECH<br>C4681<br>WATER<br>11/14/2011 4:05<br>1/23/2012 | MW-28<br>MW-28-20150611<br>G2627-15<br>CTECH<br>G2627<br>WATER<br>6/11/2015 9:55<br>7/30/2015 | MW-30<br>MW-30<br>C4681-01<br>CTECH<br>C4681<br>WATER<br>11/16/2011 1:40<br>1/23/2012 | MW-30<br>MW-30-20150611<br>G2627-17<br>CTECH<br>G2627<br>WATER<br>6/11/2015 13:30<br>7/30/2015 | MW-41<br>MW-41-20150608<br>G2627-01<br>CTECH<br>G2627<br>WATER<br>6/8/2015 14:40<br>7/30/2015 | Dup of MW-14-20150608<br>MW-41<br>MW-141-20150608<br>G2627-04<br>CTECH<br>G2627<br>WATER<br>6/8/2015 14:40<br>7/30/2015 | MW-CSB-60<br>MW-CSB-60-20150609<br>G2627-06<br>CTECH<br>G2627<br>WATER<br>6/9/2015 8:00<br>7/30/2015 |
|---|---|---|---|---|---|---|---|---|---|---|
| CAS NO. | COMPOUND | | UNITS: | | | | | | | |
| | INORGANICS | | | | | | | | | |
| 7429-90-5 | ALUMINUM | -- | ug/L | 410 J | 1440 | 549 J | 502 | 128 J | 729 J | 194 |
| 7440-36-0 | ANTIMONY | 3 | ug/L | ND | ND | ND | ND | ND | ND | ND |
| 7440-38-2 | ARSENIC | 25 | ug/L | ND | ND | ND | ND | 15.4 J | **77.7** J | ND |
| 7440-39-3 | BARIUM | 1000 | ug/L | 89.4 | 100 | 383 | 426 | 817 | 909 | 572 |
| 7440-41-7 | BERYLLIUM | 3 (G) | ug/L | ND | ND | ND | ND | ND | ND | ND |
| 7440-43-9 | CADMIUM | 5 | ug/L | ND | ND | ND | 1.94 J | 1.34 J | 3.82 J | 1.75 J |
| 7440-70-2 | CALCIUM | -- | ug/L | 68400 | 68000 | 71300 | 102600 | 172100 | 159100 | 137800 |
| 7440-47-3 | CHROMIUM, TOTAL | 50 | ug/L | ND | 11.2 | ND | 4.62 J | ND | 2.88 J | 1.59 J |
| 7440-48-4 | COBALT | -- | ug/L | ND | ND | ND | 4.85 J | ND | 4.11 J | ND |
| 7440-50-8 | COPPER | 200 | ug/L | 2.95 J | 6.72 J | 7.78 J | 3.96 J | ND | ND | ND |
| 7439-89-6 | IRON | 300 | ug/L | **820** J | **2310** | **27900** J | **45200** | **18500** J | **45400** J | **36900** |
| 7439-92-1 | LEAD | 25 | ug/L | 7.67 | ND | 8 | ND | ND | 8.92 J | 1.91 J |
| 7439-95-4 | MAGNESIUM | 35000 (G) | ug/L | 16900 | 20800 | 31100 | **46300** | **55500** | **50800** | 16500 |
| 7439-96-5 | MANGANESE | 300 | ug/L | **761** | **794** | **1630** | **1710** | **2590** | **2440** | **1290** |
| 7439-97-6 | MERCURY | 0.7 | ug/L | ND | ND | ND | ND | ND | 0.175 J | ND |
| 7440-02-0 | NICKEL | 100 | ug/L | 6.55 J | 21.8 | 6.69 J | 12.4 J | 4.83 J | 7.41 J | ND |
| 7440-09-7 | POTASSIUM | -- | ug/L | ND | 5780 | 17800 | 15300 | 35200 | 32600 | 24200 |
| 7782-49-2 | SELENIUM | 10 | ug/L | ND | 9.45 J | ND | ND | 7.91 J | ND | ND |
| 7440-22-4 | SILVER | 50 | ug/L | ND | ND | ND | 4.64 J | 1.89 J | 4.68 J | 3.78 J |
| 7440-23-5 | SODIUM | 20000 | ug/L | **150000** | **153500** | **335000** | **214700** | 13.9 R | ND | **480000** |
| 7440-28-0 | THALLIUM | 0.5 (G) | ug/L | ND | ND | **4.23** J | ND | ND | ND | ND |
| 7440-62-2 | VANADIUM | -- | ug/L | ND | ND | ND | ND | ND | ND | ND |
| 7440-66-6 | ZINC | 2000 (G) | ug/L | 16 J | 79.6 | 14.4 J | 7.28 J | 106 J | 195 J | 40.7 |
| 57-12-5 | CYANIDE | 200 | ug/L | ND | ND | 6 | 2 J | 12 | 18 | 30 |
| | DISSOLVED METALS | | | | | | | | | |
| 7429-90-5 | ALUMINUM | -- | | NA | NA | NA | NA | NA | NA | NA |
| 7440-39-3 | BARIUM | 1000 | ug/L | NA | NA | NA | NA | NA | NA | NA |
| 7440-43-9 | CADMIUM | 5 | ug/L | NA | NA | NA | NA | NA | NA | NA |
| 7440-70-2 | CALCIUM | -- | ug/L | NA | NA | NA | NA | NA | NA | NA |
| 7440-47-3 | CHROMIUM, TOTAL | 50 | ug/L | NA | NA | NA | NA | NA | NA | NA |
| 7440-50-8 | COPPER | 200 | ug/L | NA | NA | NA | NA | NA | NA | NA |
| 7439-89-6 | IRON | 300 | ug/L | NA | NA | NA | NA | NA | NA | NA |
| 7439-92-1 | LEAD | 25 | ug/L | NA | NA | NA | NA | NA | NA | NA |
| 7439-95-4 | MAGNESIUM | 35000 (G) | ug/L | NA | NA | NA | NA | NA | NA | NA |
| 7439-96-5 | MANGANESE | 300 | ug/L | NA | NA | NA | NA | NA | NA | NA |
| 7439-97-6 | MERCURY | 0.7 | ug/L | NA | NA | NA | NA | NA | NA | NA |
| 7440-09-7 | POTASSIUM | -- | ug/L | NA | NA | NA | NA | NA | NA | NA |
| 7440-22-4 | SILVER | 50 | ug/L | NA | NA | NA | NA | NA | NA | NA |
| 7440-23-5 | SODIUM | 20000 | ug/L | NA | NA | NA | NA | NA | NA | NA |
| 7440-28-0 | THALLIUM | 0.5 (G) | ug/L | NA | NA | NA | NA | NA | NA | NA |
| 7440-66-6 | ZINC | 2000 | ug/L | NA | NA | NA | NA | NA | NA | NA |

Notes:
(1) NYSDEC TOGS 1.1.1 Ambient Water Quality Standards and Guidance Values (October 1998
Shaded values exceed NYSDEC Class GA Groundwater Standards and Guidance Values
-- indicates no standard or guidance value is available
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Table 5
Farrington Street Former MGP Site
Summary of Soil Gas Analytical Data
Consolidated Edison Company of New York

| Consolidated Edison<br>Farrington Street Remedial Investigatior<br>2011-2012 Soil Gas Analytical Data<br>Detected Compound Summary | | Location ID:<br>Sample ID:<br>Lab Sample Id<br>Source:<br>SDG:<br>Matrix:<br>Sampled:<br>Validated: | SG-1<br>SG-1<br>1108582-06A<br>PARSONS<br>1108582<br>AIR<br>8/24/2011 13:40<br>1/23/2012 | SG-2<br>SG-2<br>1108582-07A<br>PARSONS<br>1108582<br>AIR<br>8/24/2011 13:50<br>1/23/2012 | SG-3<br>SG-3<br>1202444-01A<br>PARSONS<br>1202444<br>AIR<br>2/20/2012 9:10<br>4/9/2012 | SG-4<br>SG-4<br>1202444-02A<br>PARSONS<br>1202444<br>AIR<br>2/20/2012 9:55<br>4/9/2012 | SG-5<br>SG-5<br>1202444-03A<br>PARSONS<br>1202444<br>AIR<br>2/20/2012 10:20<br>4/9/2012 | SG-6<br>SG-6<br>1108582-01A<br>PARSONS<br>1108582<br>AIR<br>8/25/2011 8:35<br>1/23/2012 |
|---|---|---|---|---|---|---|---|---|
| CAS NO. | COMPOUND | UNITS: | | | | | | |
| | VOLATILES | | | | | | | |
| 71-55-6 | 1,1,1-TRICHLOROETHANE | ug/m3 | ND | ND | ND | ND | ND | ND |
| 75-34-3 | 1,1-DICHLOROETHANE | ug/m3 | ND | 24 | ND | ND | ND | ND |
| 95-63-6 | 1,2,4-TRIMETHYLBENZENE | ug/m3 | 6.1 | ND | ND | ND | ND | 8.3 |
| 108-67-8 | 1,3,5-TRIMETHYLBENZENE | ug/m3 | ND | ND | ND | ND | ND | 3.2 |
| 106-99-0 | 1,3-BUTADIENE | ug/m3 | 1.7 | ND | ND | 32 | ND | ND |
| 106-46-7 | 1,4-DICHLOROBENZENE | ug/m3 | ND | ND | ND | ND | ND | 2 |
| 540-84-1 | 2,2,4-TRIMETHYLPENTANE | ug/m3 | 21 | 94 | ND | ND | ND | 8.7 |
| 565-59-3 | 2,3-DIMETHYLPENTANE | ug/m3 | 16 | 320 J | ND | 130 | 7500 J | 6.3 |
| 591-78-6 | 2-HEXANONE | ug/m3 | ND | ND | ND | ND | ND | 4.5 |
| 107-83-5 | 2-METHYLPENTANE | ug/m3 | 18 | 1300 J | ND | 590 | 14000 J | 18 J |
| 67-63-0 | 2-PROPANOL | ug/m3 | 14 | ND | ND | ND | ND | 4.5 |
| 622-96-8 | 4-ETHYLTOLUENE | ug/m3 | 6.1 | ND | ND | ND | ND | 10 |
| 67-64-1 | ACETONE | ug/m3 | 3300 J | 3300 J | 12 | 250 | 2600 J | 890 J |
| 71-43-2 | BENZENE | ug/m3 | 11 | 16 | 0.65 | 740 | 90 J | 62 |
| 75-15-0 | CARBON DISULFIDE | ug/m3 | 350 | 300 | ND | 320 | ND | 47 |
| 108-90-7 | CHLOROBENZENE | ug/m3 | ND | ND | ND | ND | ND | 54 |
| 67-66-3 | CHLOROFORM | ug/m3 | 7 | ND | ND | ND | ND | ND |
| 74-87-3 | CHLOROMETHANE | ug/m3 | 2 | ND | 0.9 | ND | 69 J | 1.2 |
| 110-82-7 | CYCLOHEXANE | ug/m3 | 9.2 | 200 | ND | 140 | 3900 J | 6.6 |
| 75-71-8 | DICHLORODIFLUOROMETHANE | ug/m3 | 57 | ND | 2.4 | ND | 160 J | 2.1 |
| 64-17-5 | ETHANOL | ug/m3 | 25 J | 87 J | 48 | 55 | 470 J | 10 J |
| 100-41-4 | ETHYLBENZENE | ug/m3 | 19 | 22 | ND | 2600 | ND | 20 |
| 142-82-5 | HEPTANE | ug/m3 | 24 | 69 | ND | 130 | ND | 7.3 |
| 496-11-7 | INDAN | ug/m3 | ND | ND | ND | ND | ND | ND |
| 95-13-6 | INDENE | ug/m3 | ND | ND | ND | ND | ND | ND |
| 78-78-4 | ISOPENTANE | ug/m3 | 14 | 2700 | 3.7 | 570 | 12000 J | 21 |
| 98-82-8 | ISOPROPYLBENZENE (CUMENE) | ug/m3 | ND | ND | ND | 54 | ND | 3.6 |
| XYLMP | M,P-XYLENE (SUM OF ISOMERS) | ug/m3 | 48 | 64 | ND | 47 | 73 J | 63 |
| 78-93-3 | METHYL ETHYL KETONE (2-BUTANONE) | ug/m3 | 40 | 57 | ND | ND | 720 J | 14 |
| 75-09-2 | METHYLENE CHLORIDE | ug/m3 | ND | ND | ND | ND | 1900 J | 4.6 |
| 110-54-3 | N-HEXANE | ug/m3 | 14 | 60 | ND | 510 | 980 J | 9.3 |
| 95-47-6 | O-XYLENE (1,2-DIMETHYLBENZENE) | ug/m3 | 10 | 16 | ND | ND | ND | 18 |
| 103-65-1 | PROPYLBENZENE | ug/m3 | ND | ND | ND | ND | ND | 2.5 |
| 100-42-5 | STYRENE | ug/m3 | ND | ND | ND | ND | ND | 1.8 |
| 127-18-4 | TETRACHLOROETHYLENE(PCE) | ug/m3 | 38 | 30 | ND | ND | ND | 37 |
| 108-88-3 | TOLUENE | ug/m3 | 50 | 42 | 0.94 | 240 | 96 J | 48 |
| 79-01-6 | TRICHLOROETHYLENE (TCE) | ug/m3 | ND | ND | ND | ND | ND | ND |
| 75-69-4 | TRICHLOROFLUOROMETHANE | ug/m3 | ND | ND | 1.2 | ND | ND | 1.5 |
| 75-01-4 | VINYL CHLORIDE | ug/m3 | ND | ND | ND | ND | ND | ND |

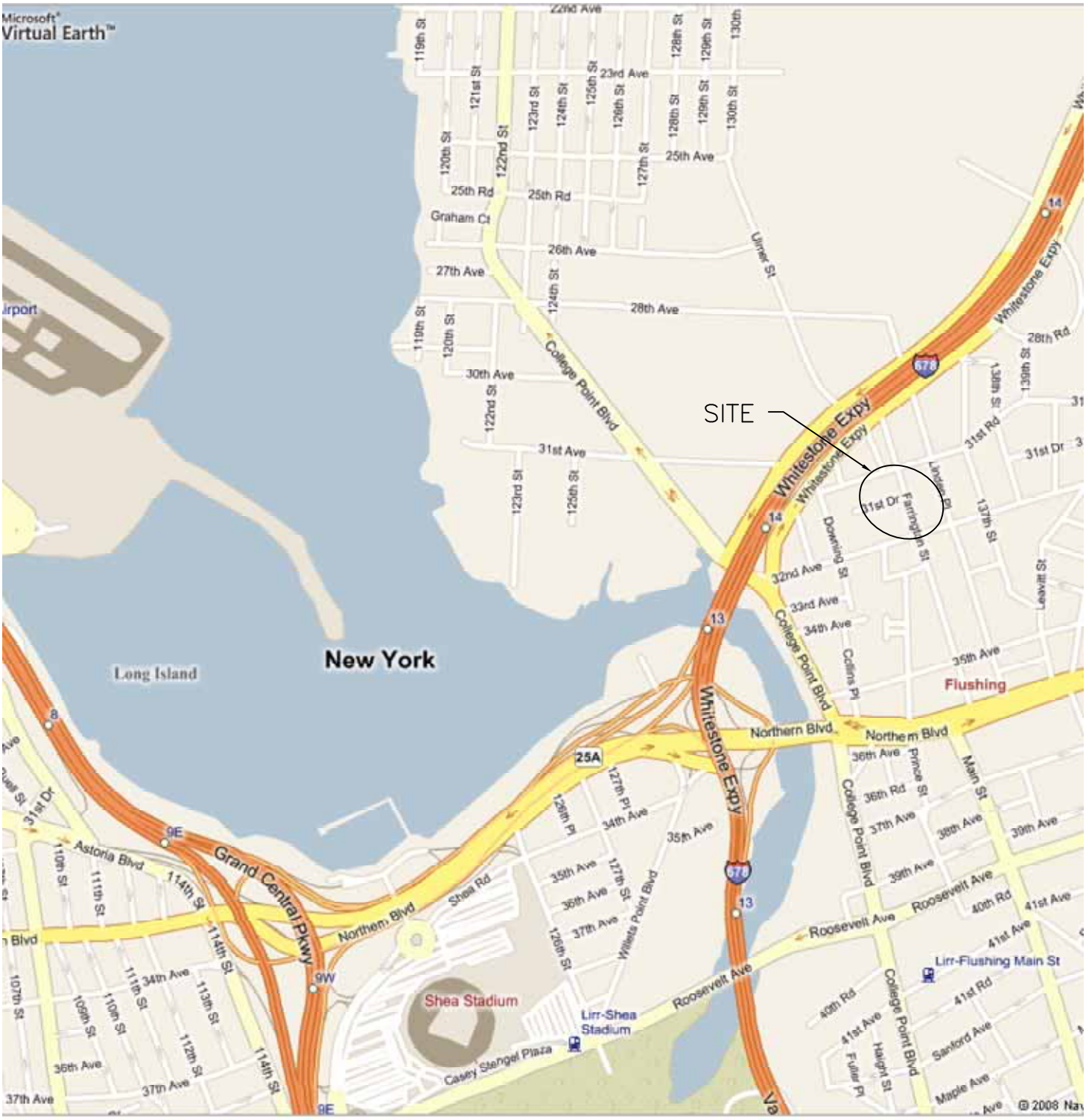
Notes:
(1) ND indicates compound was not detected.
(2) J indicates an estimated concentration.

Table 5
Farrington Street Former MGP Site
Summary of Soil Gas Analytical Data
Consolidated Edison Company of New York

| Consolidated Edison<br>Farrington Street Remedial Investigatior<br>2011-2012 Soil Gas Analytical Data<br>Detected Compound Summary | | Location ID:<br>Sample ID:<br>Lab Sample Id<br>Source:<br>SDG:<br>Matrix:<br>Sampled:<br>Validated: | SG-7<br>SG-7<br>1108582-02A<br>PARSONS<br>1108582<br>AIR<br>8/25/2011 8:45<br>1/23/2012 | SG-8<br>SG-8<br>1108582-04A<br>PARSONS<br>1108582<br>AIR<br>8/24/2011 8:55<br>1/23/2012 | SG-9<br>SG-9<br>1108582-05A<br>PARSONS<br>1108582<br>AIR<br>8/24/2011 9:55<br>1/23/2012 | SG-10<br>SG-10<br>1108582-03A<br>PARSONS<br>1108582<br>AIR<br>8/25/2011 9:30<br>1/23/2012 | SG-11<br>SG-11<br>1108582-08A<br>PARSONS<br>1108582<br>AIR<br>8/26/2011 10:45<br>1/23/2012 |
|---|---|---|---|---|---|---|---|
| CAS NO. | COMPOUND | UNITS: | | | | | |
| | VOLATILES | | | | | | |
| 71-55-6 | 1,1,1-TRICHLOROETHANE | ug/m3 | ND | 6 | ND | 3.6 | 15 |
| 75-34-3 | 1,1-DICHLOROETHANE | ug/m3 | ND | ND | ND | ND | ND |
| 95-63-6 | 1,2,4-TRIMETHYLBENZENE | ug/m3 | 260 | ND | 610 | 4.7 | 19 |
| 108-67-8 | 1,3,5-TRIMETHYLBENZENE | ug/m3 | 200 | ND | 130 | 2 | 9.8 |
| 106-99-0 | 1,3-BUTADIENE | ug/m3 | 21 | 30 | 40 | ND | ND |
| 106-46-7 | 1,4-DICHLOROBENZENE | ug/m3 | ND | ND | ND | ND | ND |
| 540-84-1 | 2,2,4-TRIMETHYLPENTANE | ug/m3 | ND | ND | ND | ND | ND |
| 565-59-3 | 2,3-DIMETHYLPENTANE | ug/m3 | 58 | ND | 590 J | ND | ND |
| 591-78-6 | 2-HEXANONE | ug/m3 | ND | ND | ND | 7.6 | 10 |
| 107-83-5 | 2-METHYLPENTANE | ug/m3 | 120 J | 53 | 3300 J | ND | 6.3 |
| 67-63-0 | 2-PROPANOL | ug/m3 | ND | 32 | ND | 12 | 6.7 |
| 622-96-8 | 4-ETHYLTOLUENE | ug/m3 | 110 | 12 | 180 | 5 | 13 |
| 67-64-1 | ACETONE | ug/m3 | 1400 J | 4900 J | 3600 J | 2300 J | 1100 J |
| 71-43-2 | BENZENE | ug/m3 | 730 | 72 | 2200 | 7.5 | 30 |
| 75-15-0 | CARBON DISULFIDE | ug/m3 | ND | 53 | 79 | ND | 20 |
| 108-90-7 | CHLOROBENZENE | ug/m3 | ND | 34 | ND | ND | 3.9 |
| 67-66-3 | CHLOROFORM | ug/m3 | ND | 15 | ND | 7.8 | 92 |
| 74-87-3 | CHLOROMETHANE | ug/m3 | ND | 4 | ND | 0.93 | 0.92 |
| 110-82-7 | CYCLOHEXANE | ug/m3 | 14 | 10 | 920 | 1.3 | 3.4 |
| 75-71-8 | DICHLORODIFLUOROMETHANE | ug/m3 | ND | ND | ND | 2.8 | 2.7 |
| 64-17-5 | ETHANOL | ug/m3 | ND | 120 J | 410 J | 25 J | 11 J |
| 100-41-4 | ETHYLBENZENE | ug/m3 | 100 | 400 | 73 | 16 | 74 |
| 142-82-5 | HEPTANE | ug/m3 | 11 | 24 | 610 | 4.7 | 4.9 |
| 496-11-7 | INDAN | ug/m3 | 49 | ND | 1100 J | ND | ND |
| 95-13-6 | INDENE | ug/m3 | 140 J | ND | ND | ND | ND |
| 78-78-4 | ISOPENTANE | ug/m3 | 38 | 62 | 4300 J | ND | ND |
| 98-82-8 | ISOPROPYLBENZENE (CUMENE) | ug/m3 | 11 | 10 | 340 | ND | 3.2 |
| XYLMP | M,P-XYLENE (SUM OF ISOMERS) | ug/m3 | 940 | 850 | 80 | 50 | 230 |
| 78-93-3 | METHYL ETHYL KETONE (2-BUTANONE) | ug/m3 | 24 | 120 | 69 | 30 | 30 |
| 75-09-2 | METHYLENE CHLORIDE | ug/m3 | ND | ND | ND | ND | ND |
| 110-54-3 | N-HEXANE | ug/m3 | 5.5 | 39 | 1700 | 3.2 | 3.9 |
| 95-47-6 | O-XYLENE (1,2-DIMETHYLBENZENE) | ug/m3 | 470 | 210 | 100 | 13 | 71 |
| 103-65-1 | PROPYLBENZENE | ug/m3 | 13 | 4.2 | 150 | ND | 3.4 |
| 100-42-5 | STYRENE | ug/m3 | 71 | ND | ND | 3.1 | ND |
| 127-18-4 | TETRACHLOROETHYLENE(PCE) | ug/m3 | 12 | 100 | 23 | 130 | 150 |
| 108-88-3 | TOLUENE | ug/m3 | 770 | 500 | 140 | 35 | 120 |
| 79-01-6 | TRICHLOROETHYLENE (TCE) | ug/m3 | ND | 44 | ND | ND | 2.7 |
| 75-69-4 | TRICHLOROFLUOROMETHANE | ug/m3 | ND | 5 | ND | ND | 2.2 |
| 75-01-4 | VINYL CHLORIDE | ug/m3 | ND | ND | 14 | ND | ND |

Notes:
(1) ND indicates compound was not detected.
(2) J indicates an estimated concentration.

# FIGURES




BASE MAP FROM MSN LIVE SEARCH MAPS 2008.

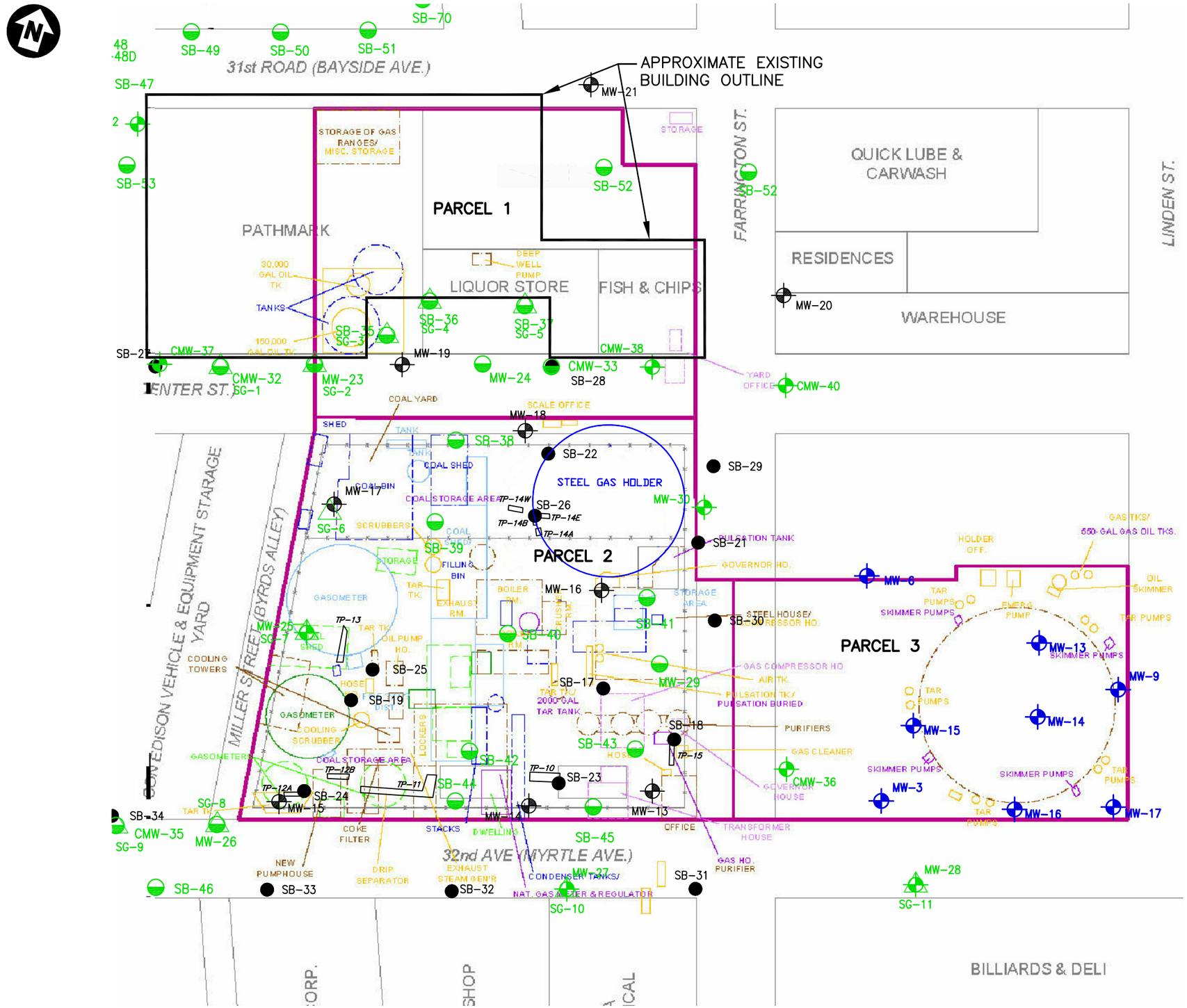
FIGURE 1

CONSOLIDATED EDISON
FORMER FARRINGTON STREET GAS WORKS
QUEENS, NEW YORK

SITE LOCATION MAP

PARSONS
301 PLAINFIELD ROAD, SUITE 350, SYRACUSE, N.Y. 13212, PHONE: 315-451-9560

FILE NAME: P:\CONED\446109 - FARRINGTON ST MGP\CAD\2015-REPORT\SITEMAP.DWG
PLOT DATE: 9/21/2015 5:26 PM PLOTTED BY: RUSSO, JILL




LEGEND:

- SITE CHARACTERIZATION MONITORING WELL LOCATIONS
- SITE CHARACTERIZATION SOIL BORING LOCATIONS
- TEST PIT LOCATIONS
- REMEDIAL INVESTIGATION MONITORING WELL LOCATIONS
- REMEDIAL INVESTIGATION SOIL BORING LOCATIONS
- REMEDIAL INVESTIGATION SOIL GAS LOCATIONS
- HOLDER STATION (PARCEL 3) NEW MONITORING WELL LOCATION
- PARCEL BOUNDARY

**LEGEND**

- FENCELINE
- 1892
- 1897
- 1903
- 1916
- 1941
- 1943
- 1951
- 1954

NOTES

1) LOCATIONS OF HISTORIC STRUCTURES BASED ON FIGURE 4 IN THE SITE HISTORY REPORT (ENSR, 2003) WITH ONE EXCEPTION. THE LOCATION OF THE FORMER STEEL GAS HOLDER IN THE NORTHEASTERN PORTION OF PARCEL 2 HAS BEEN SHIFTED BASED ON OBSERVATIONS DURING THE SITE CHARACTERIZATION. ALL HISTORIC STRUCTURES AND ROAD LOCATIONS SHOULD BE CONSIDERED APPROXIMATE ON THIS FIGURE.

80 40 0 80 160

SCALE: 1"=80'

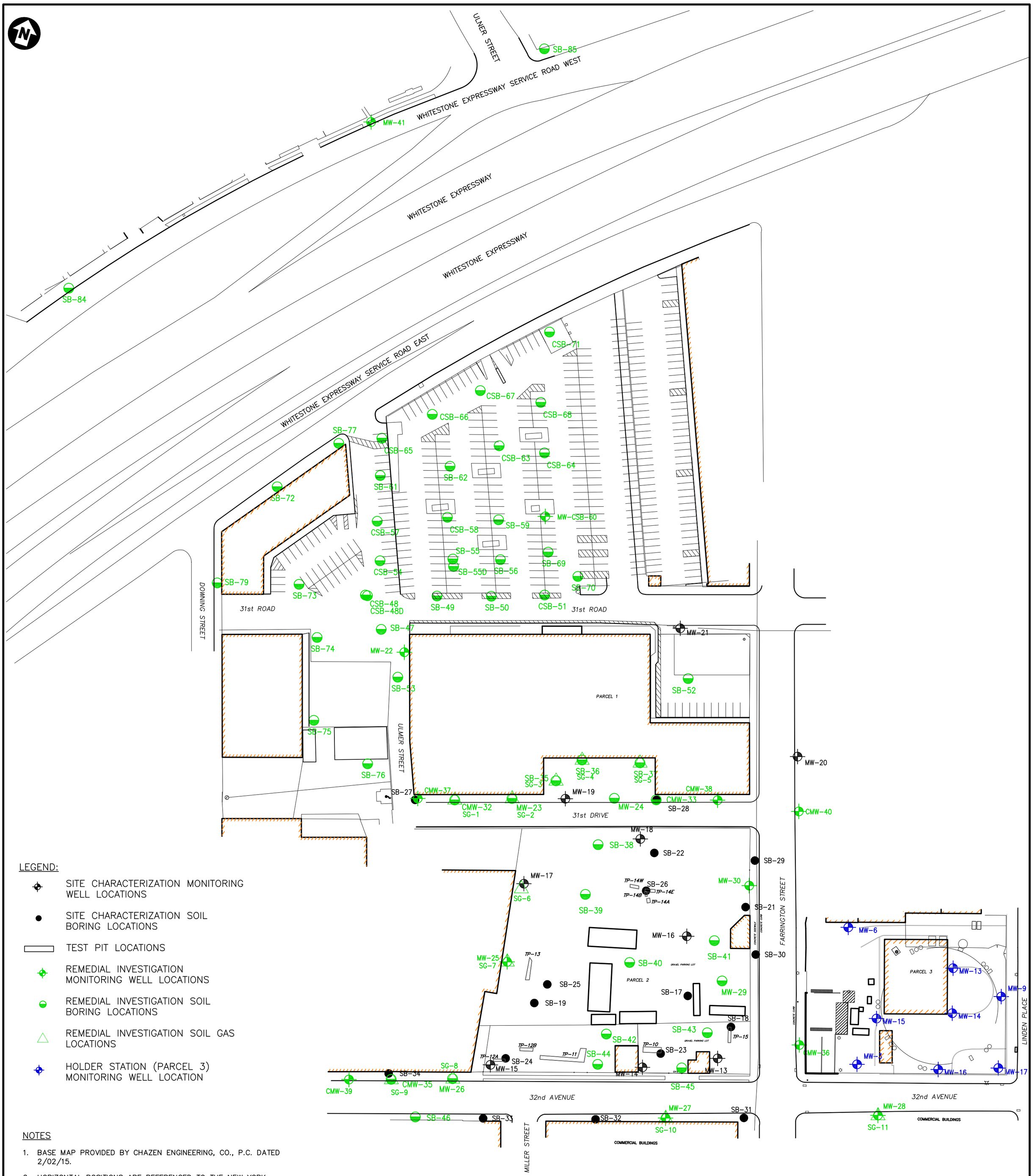
# FIGURE 2

**CON EDISON**
**FORMER FARRINGTON STREET WORKS**
**QUEENS, NEW YORK**

## FORMER MGP STRUCTURES

PARSONS
301 PLAINFIELD ROAD, SUITE 350, SYRACUSE, NEW YORK 13212 PHONE:315-451-9560

FILE NAME: P:\CONED\446109 - FARRINGTON ST MGP\CAD\2015-REPORT\446109-SK001.DWG
PLOT DATE: 11/30/2015 2:59 PM PLOTTED BY: RUSSO, JILL




LEGEND:

- SITE CHARACTERIZATION MONITORING WELL LOCATIONS
- SITE CHARACTERIZATION SOIL BORING LOCATIONS
- TEST PIT LOCATIONS
- REMEDIAL INVESTIGATION MONITORING WELL LOCATIONS
- REMEDIAL INVESTIGATION SOIL BORING LOCATIONS
- REMEDIAL INVESTIGATION SOIL GAS LOCATIONS
- HOLDER STATION (PARCEL 3) MONITORING WELL LOCATION

NOTES

1. BASE MAP PROVIDED BY CHAZEN ENGINEERING, CO., P.C. DATED 2/02/15.
2. HORIZONTAL POSITIONS ARE REFERENCED TO THE NEW YORK STATE PLANE COORDINATE SYSTEM, LONG ISLAND ZONE. THE REFERENCE DATUM IS NORTH AMERICAN DATUM OF 1983(NAD83)(CORS96)(EPOCH2002.00)
3. VERTICAL DATUM IS BASED UPON NAVD88.
4. MONITORING WELL LOCATIONS LOCATED IN PARCEL 3 WERE BASED ON A FIELD SURVEY CONDUCTED ON MAY 1, 2014 AND ARE PART OF A POST-IRM GROUNDWATER MONITORING PROGRAM.

80 40 0 80 160

SCALE: 1"=80'

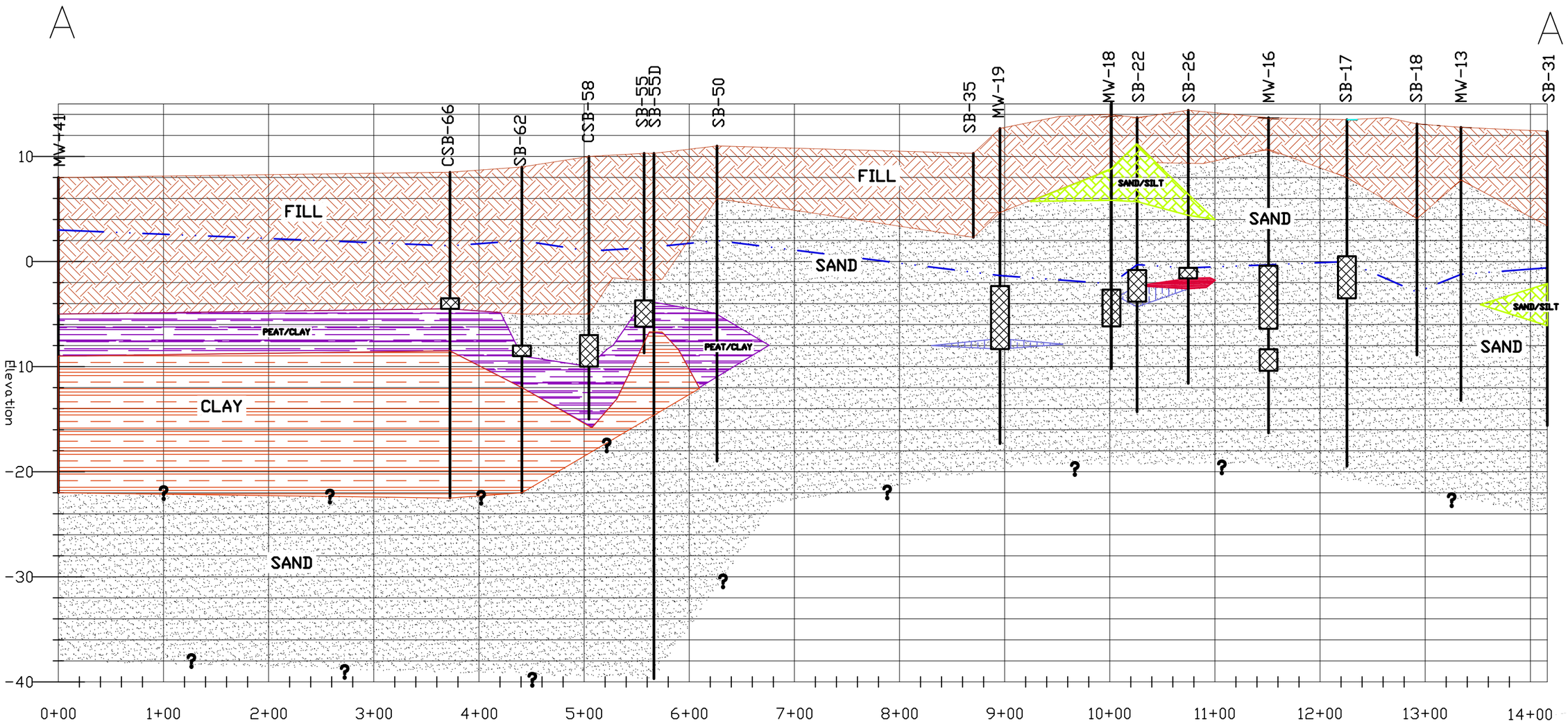
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PLOT DATE: 9/28/2015 8:54 AM PLOTTED BY: RUSSO, JILL

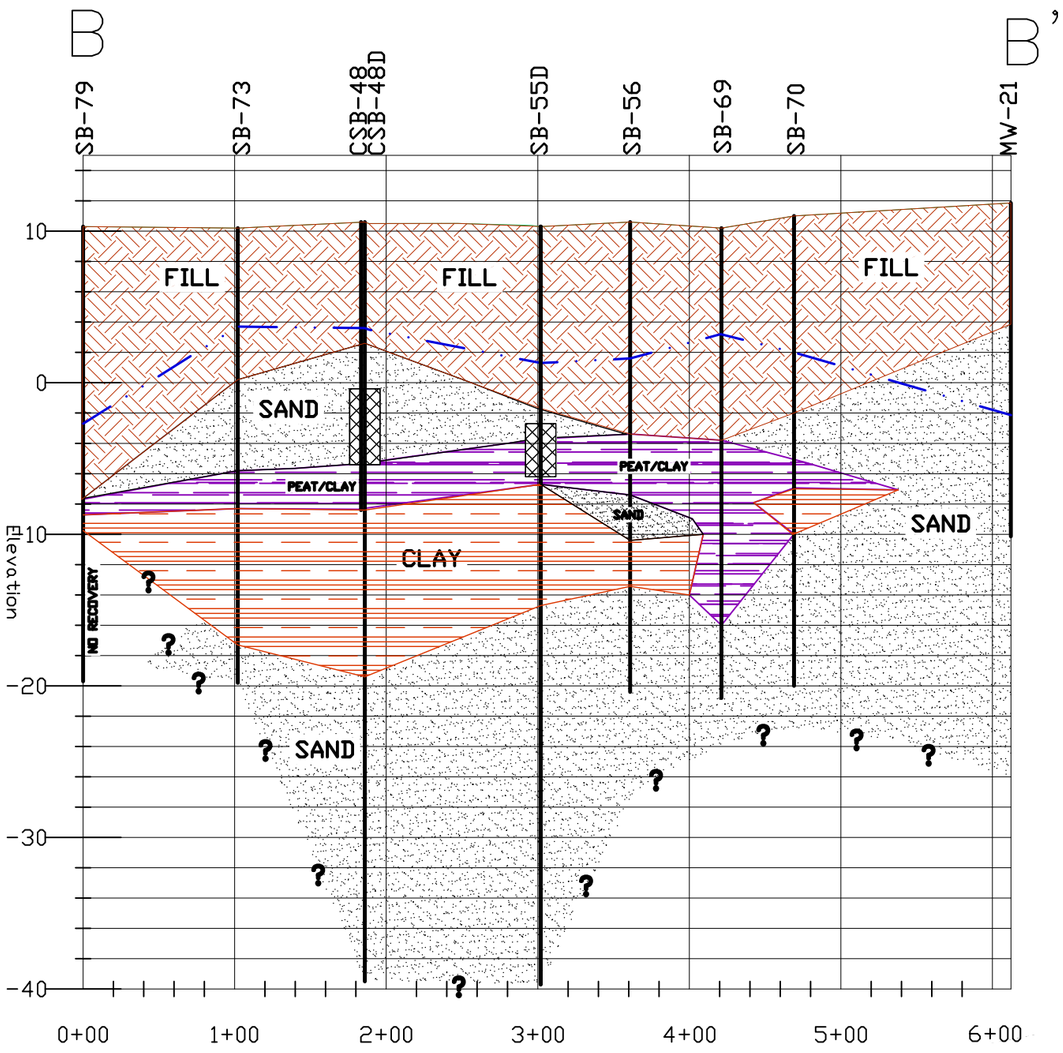
# FIGURE 3

**CON EDISON**
**FORMER FARRINGTON STREET WORKS**
**QUEENS, NEW YORK**

## SAMPLE LOCATION MAP

PARSONS
301 PLAINFIELD ROAD, SUITE 350, SYRACUSE, NEW YORK 13212 PHONE:315-451-9560



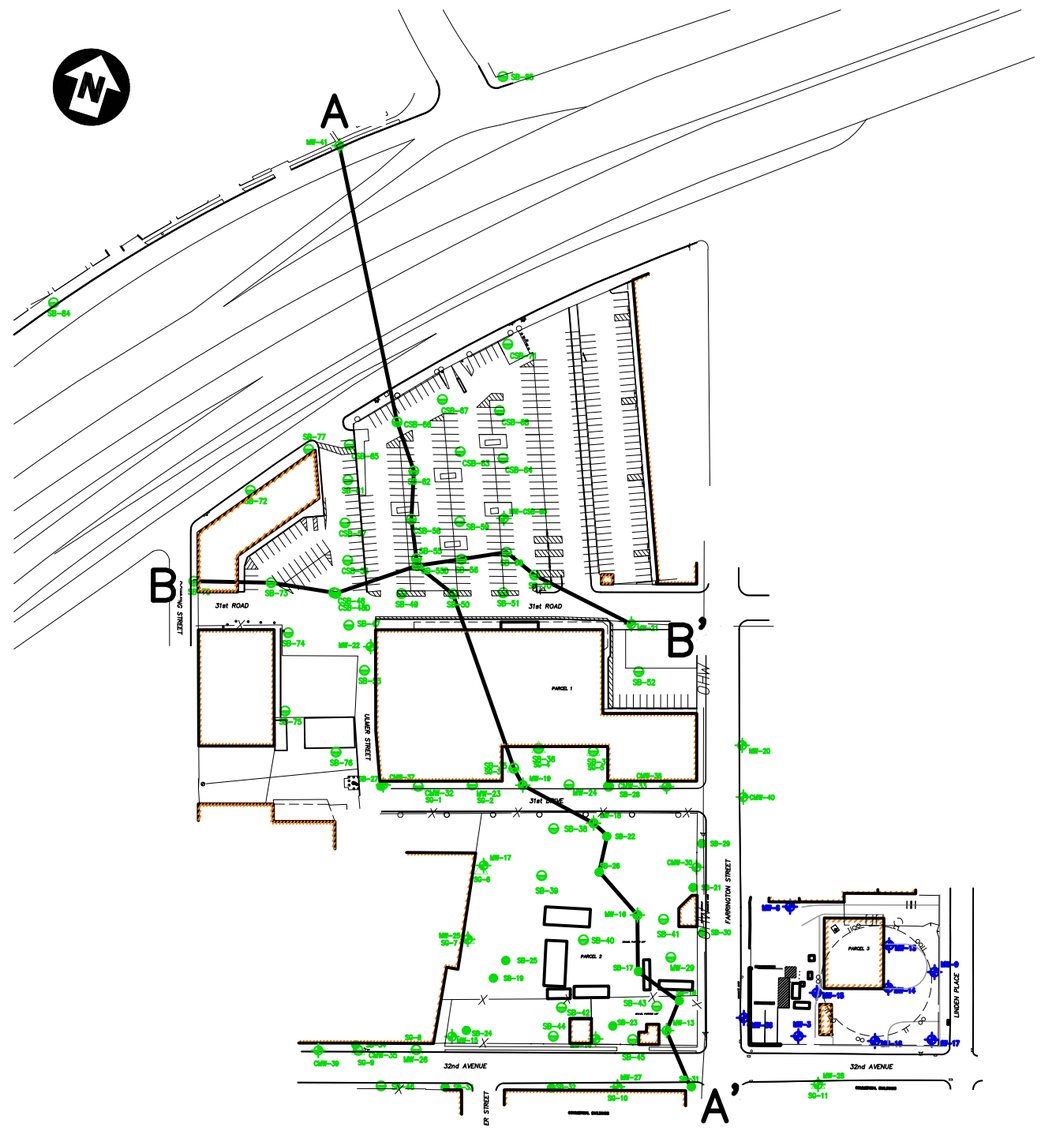




LEGEND:

- SOIL BORING
- NAPL ENCOUNTERED
- WATER TABLE
- FILL
- SAND
- SILT
- SAND/SILT
- PEAT/CLAY
- CLAY
- SAND/GRAVEL

NOTE:

1. ALL ELEVATIONS IN FEET ABOVE MEAN SEA LEVEL.




80 40 0 80 160

SCALE: 1"=80'

LEGEND:

- SITE CHARACTERIZATION MONITORING WELL LOCATIONS
- SITE CHARACTERIZATION SOIL BORING LOCATIONS
- REMEDIAL INVESTIGATION MONITORING WELL LOCATIONS
- REMEDIAL INVESTIGATION SOIL BORING LOCATIONS
- REMEDIAL INVESTIGATION SOIL GAS LOCATIONS
- HOLDER STATION (PARCEL 3) MONITORING WELL LOCATION

NOTES

1. BASE MAP PROVIDED BY CHAZEN ENGINEERING, CO., P.C. DATED 2/02/15.
2. HORIZONTAL POSITIONS ARE REFERENCED TO THE NEW YORK STATE PLANE COORDINATE SYSTEM, LONG ISLAND ZONE. THE REFERENCE DATUM IS NORTH AMERICAN DATUM OF 1983(NAD83)(CORS96)(EPOCH2002.00)
3. VERTICAL DATUM IS BASED UPON NAVD88.
4. MONITORING WELL LOCATIONS LOCATED IN PARCEL 3 WERE BASED ON A FIELD SURVEY CONDUCTED ON MAY 1, 2014 AND ARE PART OF A POST-IRM GROUNDWATER MONITORING PROGRAM.

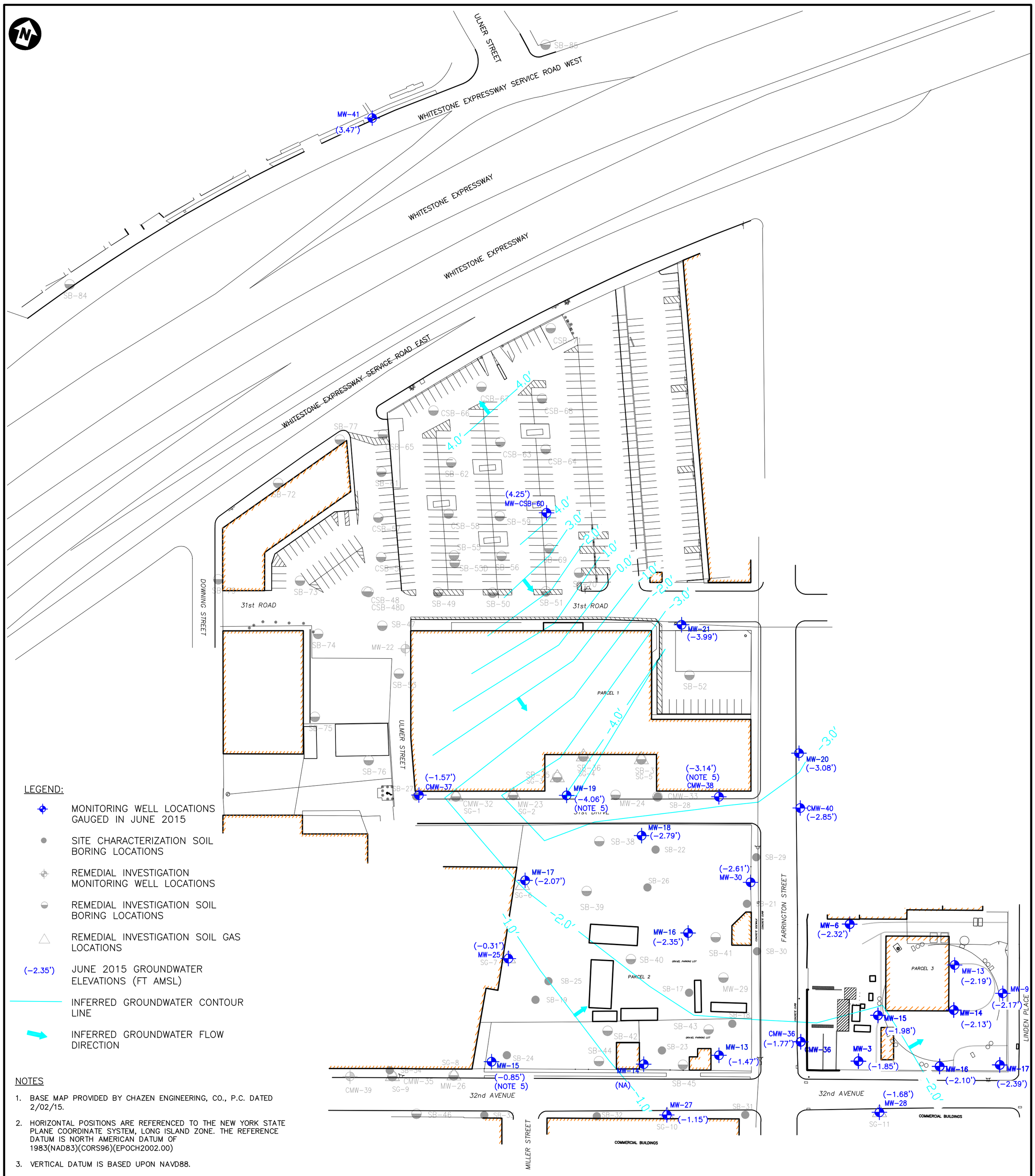
FILE NAME: P:\CONED\446109 - FARRINGTON ST MGP\CAD\446109-SK002-CROSS SECTIONS.DWG
PLOT DATE: 9/29/2015 12:37 PM PLOTTED BY: RUSSO, JILL

# FIGURE 4

**CON EDISON**
**FORMER FARRINGTON STREET WORKS**
**QUEENS, NEW YORK**

## CROSS-SECTIONS A-A' AND B-B'

PARSONS
301 PLAINFIELD ROAD, SUITE 350, SYRACUSE, NEW YORK 13212 PHONE:315-451-9560




LEGEND:

- MONITORING WELL LOCATIONS GAUGED IN JUNE 2015
- SITE CHARACTERIZATION SOIL BORING LOCATIONS
- REMEDIAL INVESTIGATION MONITORING WELL LOCATIONS
- REMEDIAL INVESTIGATION SOIL BORING LOCATIONS
- REMEDIAL INVESTIGATION SOIL GAS LOCATIONS
- (−2.35') JUNE 2015 GROUNDWATER ELEVATIONS (FT AMSL)
- INFERRED GROUNDWATER CONTOUR LINE
- INFERRED GROUNDWATER FLOW DIRECTION

NOTES

1. BASE MAP PROVIDED BY CHAZEN ENGINEERING, CO., P.C. DATED 2/02/15.
2. HORIZONTAL POSITIONS ARE REFERENCED TO THE NEW YORK STATE PLANE COORDINATE SYSTEM, LONG ISLAND ZONE. THE REFERENCE DATUM IS NORTH AMERICAN DATUM OF 1983(NAD83)(CORS96)(EPOCH2002.00)
3. VERTICAL DATUM IS BASED UPON NAVD88.
4. MONITORING WELL LOCATIONS LOCATED IN PARCEL 3 WERE BASED ON A FIELD SURVEY CONDUCTED ON MAY 1, 2014 AND ARE PART OF A POST-IRM GROUNDWATER MONITORING PROGRAM.
5. LNAPL WAS MEASURED IN MONITORING WELLS MW-15, MW-19, AND CMW-38 DURING THE JUNE 2015 GAUGING EVENT. A SPECIFIC GRAVITY OF 0.93 WAS ASSUMED FOR THE LNAPL TO CALCULATE A CORRECTION FACTOR THAT WAS THEN USED TO ADJUST THE GROUNDWATER ELEVATIONS IN THESE WELLS.
6. THE FOLLOWING MONITORING WELLS COULD NOT BE LOCATED OR WERE DAMAGED AT THE TIME OF THE JUNE 2015 GAUGING EVENT: MW-14, MW-22, AND CMW-39.

80 40 0 80 160

SCALE: 1"=80'

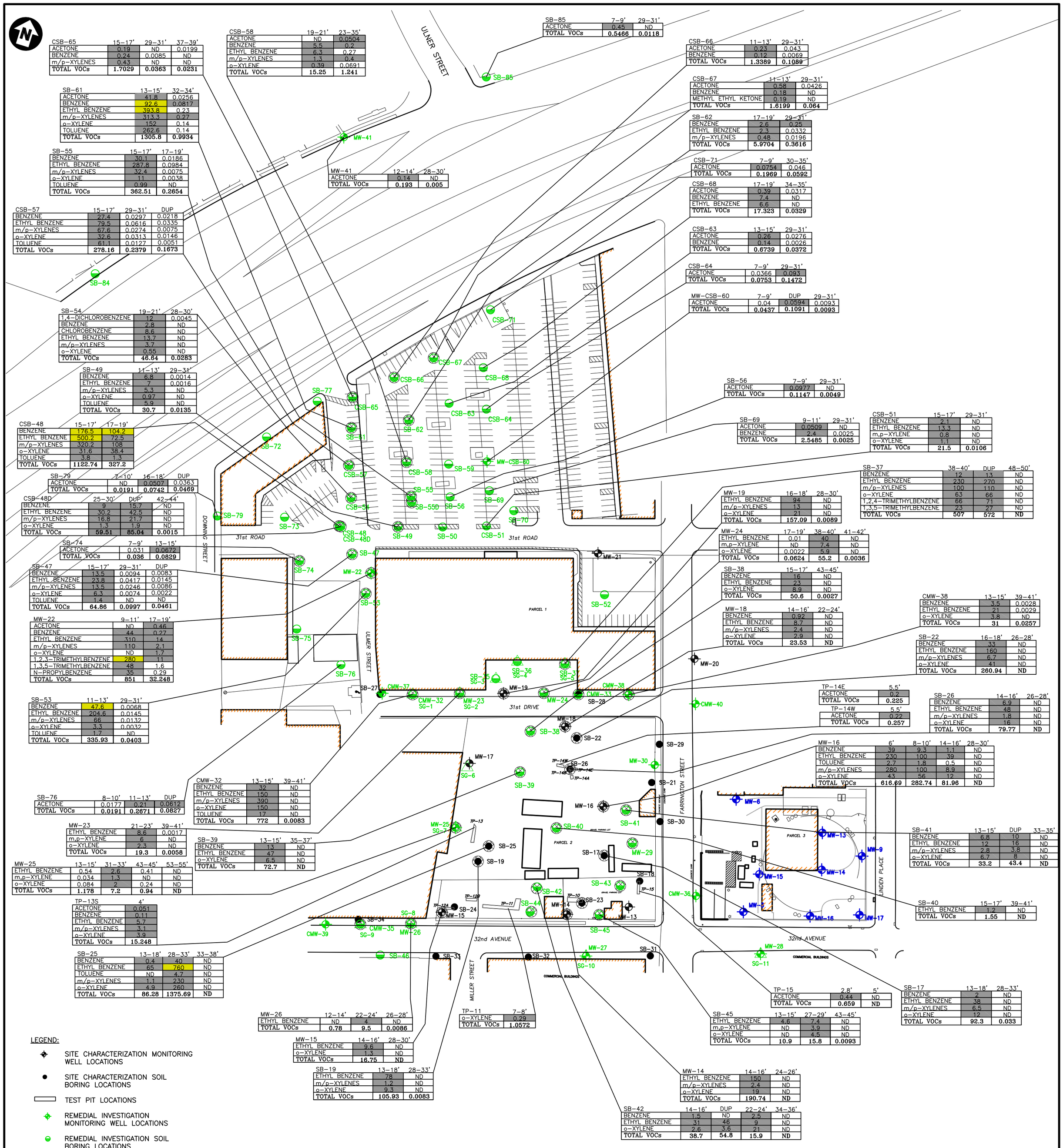
# FIGURE 5

**CON EDISON**
**FORMER FARRINGTON STREET WORKS**
**QUEENS, NEW YORK**

## GROUNDWATER CONTOUR MAP

PARSONS
301 PLAINFIELD ROAD, SUITE 350, SYRACUSE, NEW YORK 13212 PHONE:315-451-9560

FILE NAME: P:\CONED\446109 - FARRINGTON ST MGP\CAD\446109-SK003-GROUNDWATER.DWG
PLOT DATE: 11/30/2015 2:56 PM PLOTTED BY: RUSSO, JILL




| CSB-65 | 15–17' | 29–31' | 37–39' |
|---|---|---|---|
| ACETONE | 0.19 | ND | 0.0199 |
| BENZENE | 0.24 | 0.0085 | ND |
| m/p–XYLENES | 0.43 | ND | ND |
| TOTAL VOCs | **1.7029** | **0.0363** | **0.0231** |

| CSB–58 | 19–21' | 23–35' |
|---|---|---|
| ACETONE | ND | 0.0504 |
| BENZENE | 5.5 | 0.2 |
| ETHYL BENZENE | 6.3 | 0.27 |
| m/p–XYLENES | 1.3 | 0.4 |
| o–XYLENE | 0.39 | 0.0691 |
| TOTAL VOCs | **15.25** | **1.241** |

| SB–85 | 7–9' | 29–31' |
|---|---|---|
| ACETONE | 0.45 | ND |
| TOTAL VOCs | **0.5466** | **0.0118** |

| CSB–66 | 11–13' | 29–31' |
|---|---|---|
| ACETONE | 0.23 | 0.043 |
| BENZENE | 0.12 | 0.0069 |
| TOTAL VOCs | **1.3389** | **0.1089** |

| SB–61 | 13–15' | 32–34' |
|---|---|---|
| ACETONE | 41.8 | 0.0256 |
| BENZENE | 92.6 | 0.0817 |
| ETHYL BENZENE | 393.8 | 0.23 |
| m/p–XYLENES | 313.3 | 0.27 |
| o–XYLENE | 152 | 0.14 |
| TOLUENE | 262.6 | 0.14 |
| TOTAL VOCs | **1305.8** | **0.9934** |

| CSB–67 | 11–13' | 29–31' |
|---|---|---|
| ACETONE | 0.58 | 0.0426 |
| BENZENE | 0.18 | ND |
| METHYL ETHYL KETONE | 0.19 | ND |
| TOTAL VOCs | **1.6199** | **0.064** |

| SB–55 | 15–17' | 17–19' |
|---|---|---|
| BENZENE | 30.1 | 0.0186 |
| ETHYL BENZENE | 287.8 | 0.0984 |
| m/p–XYLENES | 32.4 | 0.0075 |
| o–XYLENE | 11 | 0.0038 |
| TOLUENE | 0.99 | ND |
| TOTAL VOCs | **362.51** | **0.2654** |

| MW–41 | 12–14' | 28–30' |
|---|---|---|
| ACETONE | 0.14 | ND |
| TOTAL VOCs | **0.193** | **0.005** |

| SB–62 | 17–19' | 29–31' |
|---|---|---|
| BENZENE | 2.6 | 0.25 |
| ETHYL BENZENE | 2.3 | 0.0332 |
| m/p–XYLENES | 0.48 | 0.0196 |
| TOTAL VOCs | **5.9704** | **0.3616** |

| CSB–71 | 7–9' | 30–35' |
|---|---|---|
| ACETONE | 0.0754 | 0.046 |
| TOTAL VOCs | **0.1969** | **0.0592** |

| CSB–68 | 17–19' | 34–35' |
|---|---|---|
| ACETONE | 0.39 | 0.0317 |
| BENZENE | 7.4 | ND |
| ETHYL BENZENE | 6.6 | ND |
| TOTAL VOCs | **17.323** | **0.0329** |

| CSB–57 | 15–17' | 29–31' | DUP |
|---|---|---|---|
| BENZENE | 27.4 | 0.0297 | 0.0218 |
| ETHYL BENZENE | 79.5 | 0.0616 | 0.0335 |
| m/p–XYLENES | 67.6 | 0.0274 | 0.0075 |
| o–XYLENE | 32.6 | 0.0313 | 0.0146 |
| TOLUENE | 61.1 | 0.0127 | 0.0051 |
| TOTAL VOCs | **278.16** | **0.2379** | **0.1673** |

| CSB–63 | 13–15' | 29–31' |
|---|---|---|
| ACETONE | 0.26 | 0.0276 |
| BENZENE | 0.14 | 0.0026 |
| TOTAL VOCs | **0.6739** | **0.0372** |

| CSB–64 | 7–9' | 29–31' |
|---|---|---|
| ACETONE | 0.0366 | 0.093 |
| TOTAL VOCs | **0.0753** | **0.1472** |

| MW–CSB–60 | 7–9' | DUP | 29–31' |
|---|---|---|---|
| ACETONE | 0.04 | 0.0594 | 0.0093 |
| TOTAL VOCs | **0.0437** | **0.1091** | **0.0093** |

| SB–54 | 19–21' | 28–30' |
|---|---|---|
| 1,4–DICHLOROBENZENE | 12 | 0.0045 |
| BENZENE | 2.8 | ND |
| CHLOROBENZENE | 8.6 | ND |
| ETHYL BENZENE | 13.7 | ND |
| m/p–XYLENES | 3.7 | ND |
| o–XYLENE | 0.55 | ND |
| TOTAL VOCs | **46.64** | **0.0283** |

| SB–56 | 7–9' | 29–31' |
|---|---|---|
| ACETONE | 0.0977 | ND |
| TOTAL VOCs | **0.1147** | **0.0049** |

| SB–49 | 11–13' | 29–31' |
|---|---|---|
| BENZENE | 6.8 | 0.0014 |
| ETHYL BENZENE | 7 | 0.0016 |
| m/p–XYLENES | 5.3 | ND |
| o–XYLENE | 0.97 | ND |
| TOLUENE | 5.9 | ND |
| TOTAL VOCs | **30.7** | **0.0135** |

| SB–69 | 9–11' | 29–31' |
|---|---|---|
| ACETONE | 0.0509 | ND |
| BENZENE | 2.4 | 0.0025 |
| TOTAL VOCs | **2.5485** | **0.0025** |

| CSB–51 | 15–17' | 29–31' |
|---|---|---|
| BENZENE | 2.1 | ND |
| ETHYL BENZENE | 13.3 | ND |
| m,p–XYLENE | 0.8 | ND |
| o–XYLENE | 1.1 | ND |
| TOTAL VOCs | **21.5** | **0.0106** |

| CSB–48 | 15–17' | 17–19' |
|---|---|---|
| BENZENE | 176.5 | 104.2 |
| ETHYL BENZENE | 500.2 | 72.5 |
| m/p–XYLENES | 320.2 | 108 |
| o–XYLENE | 31.6 | 38.4 |
| TOLUENE | 3.8 | 1.3 |
| TOTAL VOCs | **1122.74** | **327.2** |

| SB–37 | 38–40' | DUP | 48–50' |
|---|---|---|---|
| BENZENE | 12 | 13 | ND |
| ETHYL BENZENE | 230 | 270 | ND |
| m/p–XYLENES | 100 | 110 | ND |
| o–XYLENE | 63 | 66 | ND |
| 1,2,4–TRIMETHYLBENZENE | 66 | 71 | ND |
| 1,3,5–TRIMETHYLBENZENE | 23 | 27 | ND |
| TOTAL VOCs | **507** | **572** | **ND** |

| SB–79 | 7–10' | 16–18' | DUP |
|---|---|---|---|
| ACETONE | ND | 0.0507 | 0.0363 |
| TOTAL VOCs | **0.0191** | **0.0742** | **0.0469** |

| MW–19 | 16–18' | 28–30' |
|---|---|---|
| ETHYL BENZENE | 94 | ND |
| m/p–XYLENES | 13 | ND |
| o–XYLENE | 21 | ND |
| TOTAL VOCs | **157.09** | **0.0089** |

| CSB–48D | 25–30' | DUP' | 42–44' |
|---|---|---|---|
| BENZENE | 9 | 15.7 | ND |
| ETHYL BENZENE | 30.2 | 42.5 | ND |
| m/p–XYLENES | 16.8 | 21.7 | ND |
| o–XYLENE | 1.3 | 1.9 | ND |
| TOTAL VOCs | **59.51** | **85.04** | **0.0015** |

| MW–24 | 17–19' | 38–40' | 41–42' |
|---|---|---|---|
| ETHYL BENZENE | 0.01 | 40 | ND |
| m,p–XYLENE | ND | 7.4 | ND |
| o–XYLENE | 0.0022 | 5.9 | ND |
| TOTAL VOCs | **0.0624** | **55.2** | **0.0036** |

| SB–74 | 7–9' | 13–15' |
|---|---|---|
| ACETONE | 0.031 | 0.0672 |
| TOTAL VOCs | **0.036** | **0.0829** |

| SB–38 | 15–17' | 43–45' |
|---|---|---|
| BENZENE | 16 | ND |
| ETHYL BENZENE | 23 | ND |
| o–XYLENE | 8.9 | ND |
| TOTAL VOCs | **50.6** | **0.0027** |

| SB–47 | 15–17' | 29–31' | DUP |
|---|---|---|---|
| BENZENE | 13.5 | 0.0094 | 0.0083 |
| ETHYL BENZENE | 23.8 | 0.0417 | 0.0145 |
| m/p–XYLENES | 13.5 | 0.0246 | 0.0086 |
| o–XYLENE | 6.3 | 0.0074 | 0.0022 |
| TOLUENE | 1.4 | ND | ND |
| TOTAL VOCs | **64.86** | **0.0997** | **0.0461** |

| MW–18 | 14–16' | 22–24' |
|---|---|---|
| BENZENE | 0.92 | ND |
| ETHYL BENZENE | 8.7 | ND |
| m/p–XYLENES | 2.4 | ND |
| o–XYLENE | 2.9 | ND |
| TOTAL VOCs | **23.53** | **ND** |

| CMW–38 | 13–15' | 39–41' |
|---|---|---|
| BENZENE | 3.5 | 0.0028 |
| ETHYL BENZENE | 21 | 0.0029 |
| o–XYLENE | 3.8 | ND |
| TOTAL VOCs | **31** | **0.0257** |

| MW–22 | 9–11' | 17–19' |
|---|---|---|
| ACETONE | ND | 0.46 |
| BENZENE | 44 | 0.27 |
| ETHYL BENZENE | 310 | 14 |
| m/p–XYLENES | 110 | 2.1 |
| o–XYLENE | ND | 1.7 |
| 1,2,3–TRIMETHYLBENZENE | 280 | 11 |
| 1,3,5–TRIMETHYLBENZENE | 48 | 1.6 |
| N–PROPYLBENZENE | 35 | 0.29 |
| TOTAL VOCs | **851** | **32.248** |

| SB–22 | 16–18' | 26–28' |
|---|---|---|
| BENZENE | 33 | ND |
| ETHYL BENZENE | 160 | ND |
| m/p–XYLENES | 6.7 | ND |
| o–XYLENE | 41 | ND |
| TOTAL VOCs | **260.94** | **ND** |

| TP–14E | 5.5' |
|---|---|
| ACETONE | 0.2 |
| TOTAL VOCs | **0.225** |

| TP–14W | 5.5' |
|---|---|
| ACETONE | 0.22 |
| TOTAL VOCs | **0.257** |

| SB–53 | 11–13' | 29–31' |
|---|---|---|
| BENZENE | 47.6 | 0.0068 |
| ETHYL BENZENE | 204.6 | 0.0145 |
| m/p–XYLENES | 66 | 0.0132 |
| o–XYLENE | 3.3 | 0.0032 |
| TOLUENE | 1.7 | ND |
| TOTAL VOCs | **335.93** | **0.0403** |

| SB–26 | 14–16' | 26–28' |
|---|---|---|
| BENZENE | 6.9 | ND |
| ETHYL BENZENE | 48 | ND |
| m/p–XYLENES | 1.8 | ND |
| o–XYLENE | 16 | ND |
| TOTAL VOCs | **79.77** | **ND** |

| MW–16 | 6' | 8–10' | 14–16' | 28–30' |
|---|---|---|---|---|
| BENZENE | 39 | 9.3 | 1.1 | ND |
| ETHYL BENZENE | 230 | 100 | 39 | ND |
| TOLUENE | 2.7 | 1.8 | 0.5 | ND |
| m/p–XYLENES | 280 | 100 | 8.9 | ND |
| o–XYLENE | 43 | 56 | 12 | ND |
| TOTAL VOCs | **616.69** | **282.74** | **81.96** | **ND** |

| CMW–32 | 13–15' | 39–41' |
|---|---|---|
| BENZENE | 32 | ND |
| ETHYL BENZENE | 150 | ND |
| m/p–XYLENES | 390 | ND |
| o–XYLENE | 150 | ND |
| TOLUENE | 17 | ND |
| TOTAL VOCs | **772** | **0.0083** |

| SB–76 | 8–10' | 11–13' | DUP |
|---|---|---|---|
| ACETONE | 0.0177 | 0.21 | 0.0612 |
| TOTAL VOCs | **0.0191** | **0.2671** | **0.0827** |

| SB–41 | 13–15' | DUP | 33–35' |
|---|---|---|---|
| BENZENE | 6.8 | 10 | ND |
| ETHYL BENZENE | 12 | 16 | ND |
| m/p–XYLENES | 2.8 | 3.8 | ND |
| o–XYLENE | 6.7 | 8 | ND |
| TOTAL VOCs | **33.2** | **43.4** | **ND** |

| MW–23 | 21–23' | 39–41' |
|---|---|---|
| ETHYL BENZENE | 8.6 | 0.0017 |
| m,p–XYLENE | 6 | ND |
| o–XYLENE | 2.3 | ND |
| TOTAL VOCs | **19.3** | **0.0058** |

| SB–39 | 13–15' | 35–37' |
|---|---|---|
| BENZENE | 13 | ND |
| ETHYL BENZENE | 47 | ND |
| o–XYLENE | 6.5 | ND |
| TOTAL VOCs | **72.7** | **ND** |

| SB–40 | 15–17' | 39–41' |
|---|---|---|
| ETHYL BENZENE | 1.2 | ND |
| TOTAL VOCs | **1.55** | **ND** |

| MW–25 | 13–15' | 31–33' | 43–45' | 53–55' |
|---|---|---|---|---|
| ETHYL BENZENE | 0.54 | 2.6 | 0.41 | ND |
| m,p–XYLENE | 0.034 | 1.3 | ND | ND |
| o–XYLENE | 0.084 | 2 | 0.24 | ND |
| TOTAL VOCs | **1.178** | **7.2** | **0.94** | **ND** |

| TP–13S | 4' |
|---|---|
| ACETONE | 0.051 |
| BENZENE | 0.11 |
| ETHYL BENZENE | 5.7 |
| m/p–XYLENES | 3.1 |
| o–XYLENE | 3.9 |
| TOTAL VOCs | **15.248** |

| SB–25 | 13–18' | 28–33' | 33–38' |
|---|---|---|---|
| BENZENE | 0.4 | 40 | ND |
| ETHYL BENZENE | 65 | 760 | ND |
| TOLUENE | ND | 4.7 | ND |
| m/p–XYLENES | 1.1 | 230 | ND |
| o–XYLENE | 4.9 | 260 | ND |
| TOTAL VOCs | **86.28** | **1375.69** | **ND** |

| TP–15 | 2.8' | 5' |
|---|---|---|
| ACETONE | 0.44 | ND |
| TOTAL VOCs | **0.659** | **ND** |

| SB–17 | 13–18' | 28–33' |
|---|---|---|
| BENZENE | 2 | ND |
| ETHYL BENZENE | 38 | ND |
| m/p–XYLENES | 6.5 | ND |
| o–XYLENE | 12 | ND |
| TOTAL VOCs | **92.3** | **0.033** |

| MW–26 | 12–14' | 22–24' | 26–28' |
|---|---|---|---|
| ETHYL BENZENE | ND | 4 | ND |
| TOTAL VOCs | **0.78** | **9.5** | **0.0086** |

| TP–11 | 7–8' |
|---|---|
| o–XYLENE | 0.29 |
| TOTAL VOCs | **1.0572** |

| SB–45 | 13–15' | 27–29' | 43–45' |
|---|---|---|---|
| ETHYL BENZENE | 4.6 | 7.4 | ND |
| m,p–XYLENE | ND | 3.9 | ND |
| o–XYLENE | ND | 4.5 | ND |
| TOTAL VOCs | **10.9** | **15.8** | **0.0093** |

| MW–15 | 14–16' | 28–30' |
|---|---|---|
| ETHYL BENZENE | 9.6 | ND |
| o–XYLENE | 1.3 | ND |
| TOTAL VOCs | **16.75** | **ND** |

| SB–19 | 13–18' | 28–33' |
|---|---|---|
| ETHYL BENZENE | 78 | ND |
| m/p–XYLENES | 1.2 | ND |
| o–XYLENE | 9.3 | ND |
| TOTAL VOCs | **105.93** | **0.0083** |

| MW–14 | 14–16' | 24–26' |
|---|---|---|
| ETHYL BENZENE | 150 | ND |
| m/p–XYLENES | 2.4 | ND |
| o–XYLENE | 19 | ND |
| TOTAL VOCs | **190.74** | **ND** |

| SB–42 | 14–16' | DUP | 22–24' | 34–36' |
|---|---|---|---|---|
| BENZENE | 1.5 | ND | 2.5 | ND |
| ETHYL BENZENE | 31 | 46 | 9 | ND |
| o–XYLENE | 2.6 | 3.6 | 21 | ND |
| TOTAL VOCs | **38.7** | **54.8** | **15.9** | **ND** |

LEGEND:

- SITE CHARACTERIZATION MONITORING WELL LOCATIONS
- SITE CHARACTERIZATION SOIL BORING LOCATIONS
- TEST PIT LOCATIONS
- REMEDIAL INVESTIGATION MONITORING WELL LOCATIONS
- REMEDIAL INVESTIGATION SOIL BORING LOCATIONS
- REMEDIAL INVESTIGATION SOIL GAS LOCATIONS
- HOLDER STATION (PARCEL 3) MONITORING WELL LOCATION
- NAPL OBSERVED DURING INSTALLATION

NOTES:

1. ALL CONCENTRATIONS ARE IN PARTS PER MILLION (ppm).
2. SHADED VALUES EXCEED 6 NYCRR PART 375 UNRESTRICTED SOIL CLEANUP OBJECTIVES.
3. ND = NOT DETECTED
4. VOCs WERE NOT DETECTED EXCEEDING 6 NYCRR PART 375 UNRESTRICTED SOIL CLEANUP OBJECTIVES IN SUBSURFACE SOIL SAMPLES COLLECTED FROM MW–13, MW–17, MW–20, MW–21, MW–27, MW–28, MW–29, MW–30, SB–18, SB–21, SB–23, SB–24, SB–27 THROUGH SB–34, SB–36, SB–43, SB–44, SB–46, SB–50, SB–51, SB–55D, SB–70, SB–72, SB–73, SB–75, SB–77, SB–84, TP–12, TP–13N, CMW–33, CMW–35, CMW–36, CMW–37, CMW–39, AND CMW–40.
5. SOIL SAMPLES WERE NOT COLLECTED FROM SB–20.

80 40 0 80 160

SCALE: 1"=80'

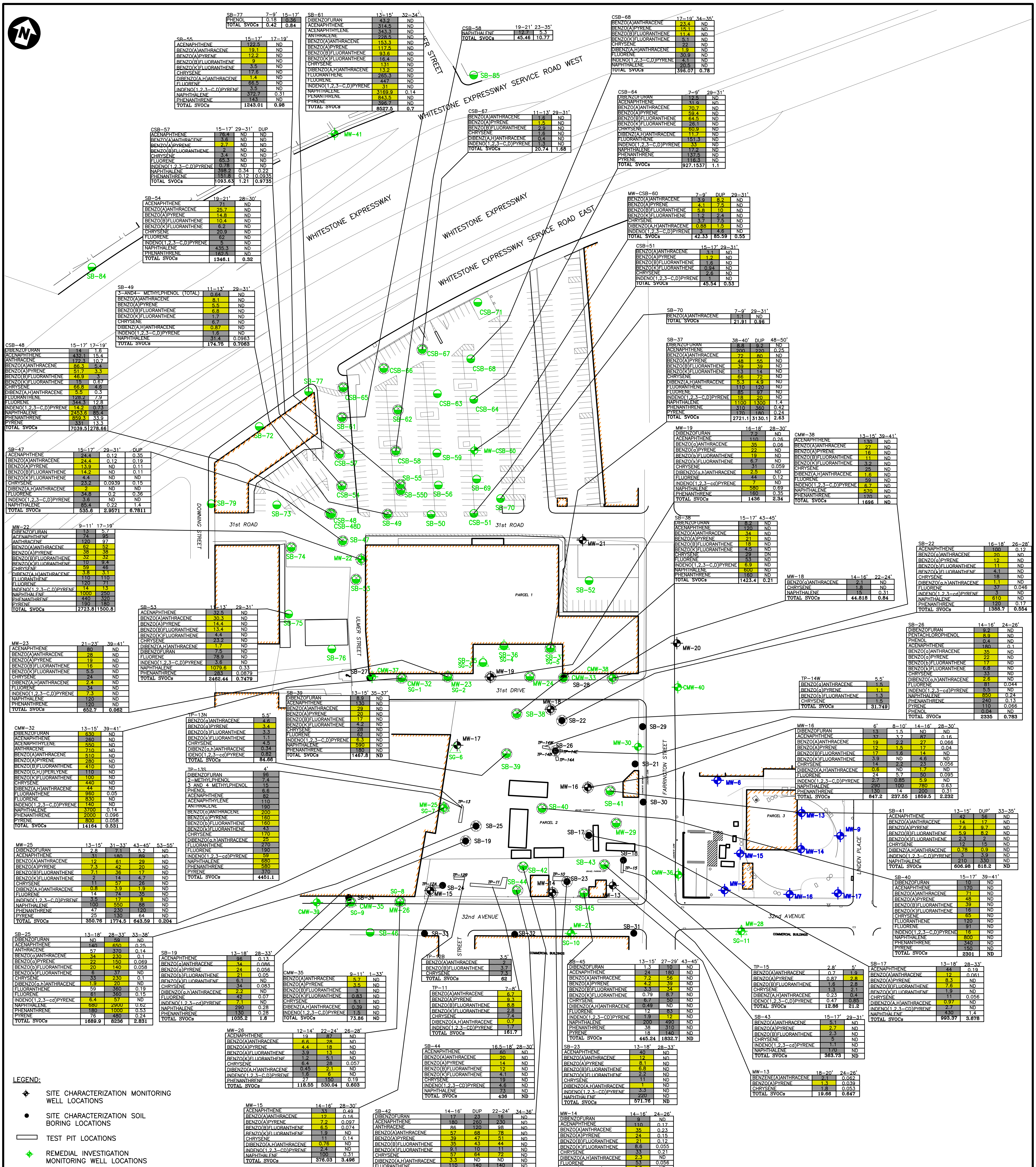
FILE NAME: P:\CONED\446109 – FARRINGTON ST MGP\CAD\446109–SK001–ALLFIGS.DWG
PLOT DATE: 9/29/2015 11:56 AM PLOTTED BY: RUSSO, JILL

# FIGURE 6

**CON EDISON**
**FORMER FARRINGTON STREET WORKS**
**QUEENS, NEW YORK**

## VOC EXCEEDANCES IN SOIL

PARSONS
301 PLAINFIELD ROAD, SUITE 350, SYRACUSE, NEW YORK 13212 PHONE:315–451–9560




**SB-77**

| | 7-9' | 15-17' |
|---|---|---|
| PHENOL | 0.18 | 0.36 |
| TOTAL SVOCs | 0.42 | 0.84 |

**SB-55**

| | 15-17' | 17-19' |
|---|---|---|
| ACENAPHTHENE | 122.5 | ND |
| BENZO(A)ANTHRACENE | 19.1 | ND |
| BENZO(A)PYRENE | 12.2 | ND |
| BENZO(B)FLUORANTHENE | 9 | ND |
| BENZO(K)FLUORANTHENE | 3.5 | ND |
| CHRYSENE | 17.6 | ND |
| DIBENZO(A,H)ANTHRACENE | 1.4 | ND |
| FLUORENE | 66.5 | ND |
| INDENO(1,2,3-C,D)PYRENE | 3.5 | ND |
| NAPHTHALENE | 372.7 | 0.31 |
| PHENANTHRENE | 143 | ND |
| TOTAL SVOCs | 1243.01 | 0.98 |

**SB-61**

| | 13-15' | 32-34' |
|---|---|---|
| DIBENZOFURAN | 43.2 | ND |
| ACENAPHTHENE | 314.5 | ND |
| ACENAPHTHYLENE | 343.3 | ND |
| ANTHRACENE | 228.5 | ND |
| BENZO(A)ANTHRACENE | 153.3 | ND |
| BENZO(A)PYRENE | 117.5 | ND |
| BENZO(B)FLUORANTHENE | 93.6 | ND |
| BENZO(K)FLUORANTHENE | 16.4 | ND |
| CHRYSENE | 131 | ND |
| DIBENZO(A,H)ANTHRACENE | 13.2 | ND |
| FLUORANTHENE | 265.3 | ND |
| FLUORENE | 447 | ND |
| INDENO(1,2,3-C,D)PYRENE | 31 | ND |
| NAPHTHALENE | 3169.9 | 0.14 |
| PENANTHRENE | 843.5 | ND |
| PYRENE | 396.7 | ND |
| TOTAL SVOCs | 8527.5 | 0.7 |

**CSB-58**

| | 19-21' | 23-35' |
|---|---|---|
| NAPHTHALENE | 12.7 | 5.3 |
| TOTAL SVOCs | 45.46 | 10.77 |

**CSB-68**

| | 17-19' | 34-35' |
|---|---|---|
| BENZO(A)ANTHRACENE | 23.4 | ND |
| BENZO(A)PYRENE | 15.1 | ND |
| BENZO(B)FLUORANTHENE | 11.4 | ND |
| BENZO(K)FLUORANTHENE | 5.1 | ND |
| CHRYSENE | 22 | ND |
| DIBENZ(A,H)ANTHRACENE | 1.9 | ND |
| FLUORENE | 30.9 | ND |
| INDENO(1,2,3-C,D)PYRENE | 4.1 | ND |
| NAPHTHALENE | 20.5 | ND |
| TOTAL SVOCs | 396.07 | 0.78 |

**CSB-67**

| | 11-13' | 29-31' |
|---|---|---|
| BENZO(A)ANTHRACENE | 1.6 | ND |
| BENZO(A)PYRENE | 1.5 | ND |
| BENZO(B)FLUORANTHENE | 2.9 | ND |
| CHRYSENE | 1.6 | ND |
| DIBENZ(A,H)ANTHRACENE | 0.4 | ND |
| INDENO(1,2,3-C,D)PYRENE | 1.3 | ND |
| TOTAL SVOCs | 20.74 | 1.68 |

**CSB-64**

| | 7-9' | 29-31' |
|---|---|---|
| DIBENZOFURAN | 12.5 | ND |
| ACENAPHTHENE | 31.9 | ND |
| BENZO(A)ANTHRACENE | 70.7 | ND |
| BENZO(A)PYRENE | 59.4 | ND |
| BENZO(B)FLUORANTHENE | 64.5 | ND |
| BENZO(K)FLUORANTHENE | 26.1 | ND |
| CHRYSENE | 60.9 | ND |
| DIBENZ(A,H)ANTHRACENE | 11.7 | ND |
| FLUORANTHENE | 151.3 | ND |
| INDENO(1,2,3-C,D)PYRENE | 33 | ND |
| NAPHTHALENE | 17.2 | ND |
| PHENANTHRENE | 137.5 | ND |
| PYRENE | 116.3 | ND |
| TOTAL SVOCs | 927.1537 | 1.1 |

**CSB-57**

| | 15-17' | 29-31' | DUP |
|---|---|---|---|
| ACENAPHTHENE | 76.4 | ND | ND |
| BENZO(A)ANTHRACENE | 3.6 | ND | ND |
| BENZO(A)PYRENE | 2.7 | ND | ND |
| BENZO(B)FLUORANTHENE | 2 | ND | ND |
| CHRYSENE | 3.4 | ND | ND |
| FLUORENE | 65.3 | ND | ND |
| INDENO(1,2,3-C,D)PYRENE | 0.78 | ND | ND |
| NAPHTHALENE | 398.2 | 0.34 | 0.22 |
| PHENANTHRENE | 151.8 | 0.12 | 0.0935 |
| TOTAL SVOCs | 1093.63 | 1.21 | 0.9735 |

**SB-54**

| | 19-21' | 28-30' |
|---|---|---|
| ACENAPHTHENE | 71 | ND |
| BENZO(A)ANTHRACENE | 25.7 | ND |
| BENZO(A)PYRENE | 14.8 | ND |
| BENZO(B)FLUORANTHENE | 10.4 | ND |
| BENZO(K)FLUORANTHENE | 6.2 | ND |
| CHRYSENE | 20.9 | ND |
| FLUORENE | 62 | ND |
| INDENO(1,2,3-C,D)PYRENE | 5 | ND |
| NAPHTHALENE | 435.3 | ND |
| PHENANTHRENE | 162.5 | ND |
| TOTAL SVOCs | 1346.1 | 0.32 |

**MW-CSB-60**

| | 7-9' | DUP | 29-31' |
|---|---|---|---|
| BENZO(A)ANTHRACENE | 3.9 | 8.2 | ND |
| BENZO(A)PYRENE | 4.1 | 7.5 | ND |
| BENZO(B)FLUORANTHENE | 5.8 | 10 | ND |
| BENZO(K)FLUORANTHENE | 1.2 | 2.4 | ND |
| CHRYSENE | 3.7 | 7.5 | ND |
| DIBENZO(A,H)ANTHRACENE | 0.88 | 1.5 | ND |
| INDENO(1,2,3-C,D)PYRENE | 3 | 4.6 | ND |
| TOTAL SVOCs | 42.33 | 85.59 | 0.55 |

**CSB-51**

| | 15-17' | 29-31' |
|---|---|---|
| BENZO(A)ANTHRACENE | 3.1 | ND |
| BENZO(A)PYRENE | 1.2 | ND |
| BENZO(B)FLUORANTHENE | 1.6 | ND |
| BENZO(K)FLUORANTHENE | 0.94 | ND |
| CHRYSENE | 2.6 | ND |
| INDENO(1,2,3-C,D)PYRENE | 1 | ND |
| TOTAL SVOCs | 45.54 | 0.53 |

**SB-49**

| | 11-13' | 29-31' |
|---|---|---|
| 3-AND4- METHYLPHENOL (TOTAL) | 0.64 | ND |
| BENZO(A)ANTHRACENE | 8.1 | ND |
| BENZO(A)PYRENE | 5.5 | ND |
| BENZO(B)FLUORANTHENE | 6.8 | ND |
| BENZO(K)FLUORANTHENE | 1.7 | ND |
| CHRYSENE | 6.7 | ND |
| DIBENZ(A,H)ANTHRACENE | 0.87 | ND |
| INDENO(1,2,3-C,D)PYRENE | 1.6 | ND |
| NAPHTHALENE | 31.4 | 0.0963 |
| TOTAL SVOCs | 174.75 | 0.7063 |

**SB-70**

| | 7-9' | 29-31' |
|---|---|---|
| BENZO(A)ANTHRACENE | 1.1 | ND |
| TOTAL SVOCs | 21.91 | 0.96 |

**CSB-48**

| | 15-17' | 17-19' |
|---|---|---|
| DIBENZOFURAN | 14 | 1.6 |
| ACENAPHTHENE | 432.1 | 15.4 |
| ANTHRACENE | 172.3 | 10.7 |
| BENZO(A)ANTHRACENE | 86.3 | 5.4 |
| BENZO(A)PYRENE | 51.7 | 3.3 |
| BENZO(B)FLUORANTHENE | 46.9 | 3 |
| BENZO(K)FLUORANTHENE | 15 | 0.67 |
| CHRYSENE | 66.8 | 4.6 |
| DIBENZ(A,H)ANTHRACENE | 5.5 | 0.3 |
| FLUORANTHENE | 128.2 | 7.9 |
| FLUORENE | 344.3 | 12.8 |
| INDENO(1,2,3-C,D)PYRENE | 14.2 | 0.73 |
| NAPHTHALENE | 2453.6 | 85.4 |
| PHENANTHRENE | 859.3 | 33.9 |
| PYRENE | 331 | 13.3 |
| TOTAL SVOCs | 7039.5 | 278.66 |

**SB-37**

| | 38-40' | DUP | 48-50' |
|---|---|---|---|
| DIBENZOFURAN | 8.8 | 9.2 | ND |
| ACENAPHTHENE | 200 | 220 | 0.25 |
| BENZO(A)ANTHRACENE | 72 | 80 | ND |
| BENZO(A)PYRENE | 48 | 55 | ND |
| BENZO(B)FLUORANTHENE | 39 | 39 | ND |
| BENZO(K)FLUORANTHENE | 13 | 14 | ND |
| CHRYSENE | 66 | 72 | ND |
| DIBENZ(A,H)ANTHRACENE | 5.3 | 4.9 | ND |
| FLUORANTHENE | 110 | 120 | ND |
| FLUORENE | 85 | 97 | ND |
| INDENO(1,2,3-C,D)PYRENE | 18 | 20 | ND |
| NAPHTHALENE | 1100 | 1300 | 1.4 |
| PHENANTHRENE | 310 | 360 | 0.42 |
| PYRENE | 170 | 180 | 0.24 |
| TOTAL SVOCs | 2721.1 | 3130.1 | 2.63 |

**SB-47**

| | 15-17' | 29-31' | DUP |
|---|---|---|---|
| ACENAPHTHENE | 24.4 | 0.12 | 0.35 |
| BENZO(A)ANTHRACENE | 24.4 | 0.12 | 0.19 |
| BENZO(A)PYRENE | 13.9 | ND | 0.11 |
| BENZO(B)FLUORANTHENE | 14.2 | ND | 0.11 |
| BENZO(K)FLUORANTHENE | 4.4 | ND | ND |
| CHRYSENE | 23.2 | 0.0939 | 0.15 |
| DIBENZ(A,H)ANTHRACENE | 2 | ND | ND |
| FLUORENE | 34.8 | 0.2 | 0.36 |
| INDENO(1,2,3-C,D)PYRENE | 3.6 | ND | ND |
| NAPHTHALENE | 85.4 | 0.22 | 1.4 |
| TOTAL SVOCs | 535.6 | 2.9571 | 6.7811 |

**MW-19**

| | 16-18' | 28-30' |
|---|---|---|
| DIBENZOFURAN | 7.2 | ND |
| ACENAPHTHENE | 110 | 0.26 |
| BENZO(a)ANTHRACENE | 35 | 0.06 |
| BENZO(a)PYRENE | 22 | ND |
| BENZO(b)FLUORANTHENE | 19 | ND |
| BENZO(k)FLUORANTHENE | 6.7 | ND |
| CHRYSENE | 31 | 0.059 |
| DIBENZO(a,h)ANTHRACENE | 2.5 | ND |
| FLUORENE | 44 | 0.12 |
| INDENO(1,2,3-cd)PYRENE | 7 | ND |
| NAPHTHALENE | 580 | 0.69 |
| PHENANTHRENE | 160 | 0.35 |
| TOTAL SVOCs | 1436 | 2.34 |

**CMW-38**

| | 13-15' | 39-41' |
|---|---|---|
| ACENAPHTHENE | 130 | ND |
| BENZO(A)ANTHRACENE | 27 | ND |
| BENZO(A)PYRENE | 16 | ND |
| BENZO(B)FLUORANTHENE | 11 | ND |
| BENZO(K)FLUORANTHENE | 3.2 | ND |
| CHRYSENE | 25 | ND |
| DIBENZ(A,H)ANTHRACENE | 1.6 | ND |
| FLUORENE | 59 | ND |
| INDENO(1,2,3-C,D)PYRENE | 6.7 | ND |
| NAPHTHALENE | 570 | ND |
| PHENANTHRENE | 170 | ND |
| TOTAL SVOCs | 1696 | ND |

**MW-22**

| | 9-11' | 17-19' |
|---|---|---|
| DIBENZOFURAN | 13 | 5.7 |
| ACENAPHTHENE | 74 | 95 |
| ANTHRACENE | 120 | 97 |
| BENZO(A)ANTHRACENE | 62 | 52 |
| BENZO(A)PYRENE | 38 | 38 |
| BENZO(B)FLUORANTHENE | 32 | 32 |
| BENZO(K)FLUORANTHENE | 10 | 9.4 |
| CHRYSENE | 59 | 46 |
| DIBENZ(A,H)ANTHRACENE | 3.8 | 3.1 |
| FLUORANTHENE | 110 | 110 |
| FLUORENE | 120 | 71 |
| INDENO(1,2,3-C,D)PYRENE | 14 | 13 |
| NAPHTHALENE | 1000 | 250 |
| PHENANTHRENE | 440 | 320 |
| PYRENE | 190 | 180 |
| TOTAL SVOCs | 2723.8 | 1500.8 |

**SB-38**

| | 15-17' | 43-45' |
|---|---|---|
| DIBENZOFURAN | 8.2 | ND |
| ACENAPHTHENE | 120 | ND |
| BENZO(A)ANTHRACENE | 34 | ND |
| BENZO(A)PYRENE | 21 | ND |
| BENZO(B)FLUORANTHENE | 18 | ND |
| BENZO(K)FLUORANTHENE | 4.5 | ND |
| CHRYSENE | 29 | DN |
| FLUORENE | 53 | ND |
| INDENO(1,2,3-C,D)PYRENE | 6.9 | ND |
| NAPHTHALENE | 600 | ND |
| PHENANTHRENE | 160 | ND |
| TOTAL SVOCs | 1423.4 | 0.21 |

**SB-22**

| | 16-18' | 26-28' |
|---|---|---|
| ACENAPHTHENE | 100 | 0.12 |
| BENZO(a)ANTHRACENE | 20 | ND |
| BENZO(a)PYRENE | 12 | ND |
| BENZO(b)FLUORANTHENE | 11 | ND |
| BENZO(k)FLUORANTHENE | 4.1 | ND |
| CHRYSENE | 18 | ND |
| DIBENZO(a,h)ANTHRACENE | 1.1 | ND |
| FLUORENE | 37 | 0.046 |
| INDENO(1,2,3-cd)PYRENE | 3 | ND |
| NAPHTHALENE | 610 | ND |
| PHENANTHRENE | 120 | 0.17 |
| TOTAL SVOCs | 1388.7 | 0.554 |

**MW-18**

| | 14-16' | 22-24' |
|---|---|---|
| BENZO(a)ANTHRACENE | 2.1 | ND |
| CHRYSENE | 1.8 | ND |
| NAPHTHALENE | 15 | 0.31 |
| TOTAL SVOCs | 44.818 | 0.84 |

**SB-53**

| | 11-13' | 29-31' |
|---|---|---|
| ACENAPHTHENE | 32.5 | ND |
| BENZO(A)ANTHRACENE | 30.3 | ND |
| BENZO(A)PYRENE | 14.4 | ND |
| BENZO(B)FLUORANTHENE | 13.4 | ND |
| BENZO(K)FLUORANTHENE | 4.4 | ND |
| CHRYSENE | 23.2 | ND |
| DIBENZ(A,H)ANTHRACENE | 1.7 | ND |
| DIBENZOFURAN | 7.5 | ND |
| FLUORENE | 78.9 | ND |
| INDENO(1,2,3-C,D)PYRENE | 3.6 | ND |
| NAPHTHALENE | 1079.6 | 0.33 |
| PHENANTHRENE | 283 | 0.0879 |
| TOTAL SVOCs | 2462.44 | 0.7479 |

**SB-26**

| | 14-16' | 24-26' |
|---|---|---|
| DIBENZOFURAN | 9.2 | ND |
| PENTACHLOROPHENOL | 8.9 | ND |
| PHENOL | 0.4 | ND |
| ACENAPHTHENE | 180 | 0.1 |
| BENZO(a)ANTHRACENE | 35 | ND |
| BENZO(a)PYRENE | 22 | ND |
| BENZO(b)FLUORANTHENE | 17 | ND |
| BENZO(k)FLUORANTHENE | 6.8 | ND |
| CHRYSENE | 33 | ND |
| DIBENZO(a,h)ANTHRACENE | 2.6 | ND |
| FLUORENE | 81 | 0.044 |
| INDENO(1,2,3-cd)PYRENE | 5.5 | ND |
| NAPHTHALENE | 850 | 0.24 |
| PHENANTHRENE | 240 | 0.13 |
| PYRENE | 110 | 0.066 |
| PHENOL | 0.04 | ND |
| TOTAL SVOCs | 2335 | 0.783 |

**MW-23**

| | 21-23' | 39-41' |
|---|---|---|
| ACENAPHTHENE | 80 | ND |
| BENZO(A)ANTHRACENE | 28 | ND |
| BENZO(A)PYRENE | 19 | ND |
| BENZO(B)FLUORANTHENE | 16 | ND |
| BENZO(K)FLUORANTHENE | 5.5 | ND |
| CHRYSENE | 24 | ND |
| DIBENZ(A,H)ANTHRACENE | 2.4 | ND |
| FLUORENE | 34 | ND |
| INDENO(1,2,3-C,D)PYRENE | 7.3 | ND |
| NAPHTHALENE | 120 | ND |
| PHENANTHRENE | 120 | ND |
| TOTAL SVOCs | 652.7 | 0.062 |

**TP-14W**

| | 5.5' |
|---|---|
| BENZO(a)ANTHRACENE | 1.5 |
| BENZO(a)PYRENE | 1.1 |
| BENZO(b)FLUORANTHENE | 1.3 |
| CHRYSENE | 1.5 |
| TOTAL SVOCs | 31.749 |

**SB-39**

| | 13-15' | 35-37' |
|---|---|---|
| DIBENZOFURAN | 8.9 | ND |
| ACENAPHTHENE | 130 | ND |
| BENZO(A)ANTHRACENE | 29 | ND |
| BENZO(A)PYRENE | 20 | ND |
| BENZO(B)FLUORANTHENE | 17 | ND |
| BENZO(K)FLUORANTHENE | 4.2 | ND |
| CHRYSENE | 28 | ND |
| FLUORENE | 62 | ND |
| INDENO(1,2,3-C,D)PYRENE | 6.3 | ND |
| NAPHTHALENE | 590 | ND |
| PHENANTHRENE | 180 | ND |
| TOTAL SVOCs | 1467.8 | ND |

**TP-13N**

| | 5.5' |
|---|---|
| BENZO(a)ANTHRACENE | 4.6 |
| BENZO(a)PYRENE | 3.4 |
| BENZO(b)FLUORANTHENE | 3.3 |
| BENZO(k)FLUORANTHENE | 1.1 |
| CHRYSENE | 4.5 |
| DIBENZ(a,h)ANTHRACENE | 0.34 |
| IDENO(1,2,3-cd)PYRENE | 0.82 |
| TOTAL SVOCs | 84.66 |

**TP-13S**

| | 4' |
|---|---|
| DIBENZOFURAN | 96 |
| 2-METHYLPHENOL | 7.4 |
| 3 AND 4 METHYLPHENOL | 15 |
| PHENOL | 6.6 |
| ACENAPHTHENE | 82 |
| ACENAPHTHYLENE | 110 |
| ANTHRACENE | 190 |
| BENZO(a)ANTHRACENE | 200 |
| BENZO(a)PYRENE | 160 |
| BENZO(b)FLUORANTHENE | 160 |
| BENZO(k)FLUORANTHENE | 43 |
| CHRYSENE | 170 |
| DIBENZO(a,h)ANTHRACENE | 25 |
| FLUORANTHENE | 270 |
| FLUORENE | 190 |
| INDENO(1,2,3-cd)PYRENE | 59 |
| NAPHTHALENE | 680 |
| PHENANTHRENE | 580 |
| PYRENE | 370 |
| TOTAL SVOCs | 4451.1 |

**CMW-32**

| | 13-15' | 39-41' |
|---|---|---|
| DIBENZOFURAN | 630 | ND |
| ACENAPHTHENE | 260 | ND |
| ACENAPHTHYLENE | 550 | ND |
| ANTHRACENE | 710 | ND |
| BENZO(A)ANTHRACENE | 510 | ND |
| BENZO(A)PYRENE | 280 | ND |
| BENZO(B)FLUORANTHENE | 410 | ND |
| BENZO(G,H,I)PERLYENE | 110 | ND |
| BENZO(K)FLUORANTHENE | 100 | ND |
| CHRYSENE | 440 | ND |
| DIBENZ(A,H)ANTHRACENE | 44 | ND |
| FLUORANTHENE | 960 | 0.05 |
| FLUORENE | 830 | ND |
| INDENO(1,2,3-C,D)PYRENE | 140 | ND |
| NAPHTHALENE | 3700 | 0.14 |
| PHENANTHRENE | 2000 | 0.096 |
| PYRENE | 800 | 0.058 |
| TOTAL SVOCs | 14164 | 0.531 |

**MW-16**

| | 6' | 8-10' | 14-16' | 28-30' |
|---|---|---|---|---|
| DIBENZOFURAN | 13 | 1.5 | ND | ND |
| ACENAPHTHENE | 37 | 3.7 | 87 | 0.16 |
| BENZO(A)ANTHRACENE | 19 | 2.2 | 27 | 0.066 |
| BENZO(A)PYRENE | 12 | 1.5 | 17 | 0.04 |
| BENZO(B)FLUORANTHENE | 17 | 1.6 | 14 | ND |
| BENZO(K)FLUORANTHENE | 3.9 | ND | 4.6 | ND |
| CHRYSENE | 14 | 2.2 | 23 | 0.056 |
| DIBENZO(A,H)ANTHRACENE | 0.6 | ND | 1.7 | ND |
| FLUORENE | 24 | 5.7 | 50 | 0.095 |
| INDENO(1,2,3-C,D)PYRENE | 2.7 | 0.85 | 5.9 | ND |
| NAPHTHALENE | 290 | 100 | 780 | 0.63 |
| PHENANTHRENE | 130 | 14 | 200 | 0.31 |
| TOTAL SVOCs | 847.2 | 237.55 | 1859.5 | 2.232 |

**SB-41**

| | 13-15' | DUP' | 33-35' |
|---|---|---|---|
| ACENAPHTHENE | 42 | 56 | ND |
| BENZO(A)ANTHRACENE | 14 | 17 | ND |
| BENZO(A)PYRENE | 7.6 | 9.7 | ND |
| BENZO(B)FLUORANTHENE | 5.9 | 8.2 | ND |
| BENZO(K)FLUORANTHENE | 2.3 | 2 | ND |
| CHRYSENE | 12 | 15 | ND |
| DIBENZ(A,H)ANTHRACENE | 0.78 | 0.9 | ND |
| INDENO(1,2,3-C,D)PYRENE | 3 | 3.9 | ND |
| NAPHTHALENE | 210 | 330 | ND |
| TOTAL SVOCs | 606.98 | 818.2 | ND |

**SB-40**

| | 15-17' | 39-41' |
|---|---|---|
| DIBENZOFURAN | 10 | ND |
| ACENAPHTHENE | 170 | ND |
| BENZO(A)ANTHRACENE | 71 | ND |
| BENZO(A)PYRENE | 48 | ND |
| BENZO(B)FLUORANTHENE | 39 | ND |
| BENZO(K)FLUORANTHENE | 16 | ND |
| CHRYSENE | 65 | ND |
| FLUORANTHENE | 120 | ND |
| FLUORENE | 91 | ND |
| INDENO(1,2,3-C,D)PYRENE | 16 | ND |
| NAPHTHALENE | 800 | ND |
| PHENANTHRENE | 340 | ND |
| PYRENE | 150 | ND |
| TOTAL SVOCs | 2301 | ND |

**MW-25**

| | 13-15' | 31-33' | 43-45' | 53-55' |
|---|---|---|---|---|
| DIBENZOFURAN | 2.8 | 7.1 | 5.2 | ND |
| ACENAPHTHENE | 31 | 180 | 89 | ND |
| BENZO(A)ANTHRACENE | 12 | 61 | 29 | ND |
| BENZO(A)PYRENE | 7.3 | 42 | 20 | ND |
| BENZO(B)FLUORANTHENE | 7.1 | 36 | 17 | ND |
| BENZO(K)FLUORANTHENE | 2 | 14 | 4.7 | ND |
| CHRYSENE | 11 | 57 | 26 | ND |
| DIBENZ(A,H)ANTHRACENE | 0.8 | 3.9 | 1.9 | ND |
| FLUORENE | 14 | 74 | 35 | ND |
| INDENO(1,2,3-C,D)PYRENE | 3.5 | 17 | 8 | ND |
| NAPHTHALENE | 100 | 550 | 88 | ND |
| PHENANTHRENE | 47 | 230 | 120 | ND |
| PYRENE | 25 | 130 | 64 | ND |
| TOTAL SVOCs | 350.76 | 1774.5 | 643.59 | 0.204 |

**SB-25**

| | 13-18' | 28-33' | 33-38' |
|---|---|---|---|
| DIBENZOFURAN | ND | 59 | ND |
| ACENAPHTHENE | 140 | 650 | 0.25 |
| ANTHRACENE | 57 | 370 | 0.14 |
| BENZO(a)ANTHRACENE | 34 | 230 | 0.1 |
| BENZO(a)PYRENE | 22 | 150 | 0.069 |
| BENZO(b)FLUORANTHENE | 20 | 140 | 0.058 |
| BENZO(k)FLUORANTHENE | 6 | 37 | ND |
| CHRYSENE | 33 | 230 | 0.1 |
| DIBENZO(a,h)ANTHRACENE | 1.9 | 20 | ND |
| FLUORANTHENE | 59 | 360 | 0.19 |
| FLUORENE | 61 | 360 | 0.15 |
| INDENO(1,2,3-cd)PYRENE | 6.4 | 57 | ND |
| NAPHTHALENE | 680 | 2900 | 0.62 |
| PHENANTHRENE | 180 | 1000 | 0.53 |
| PYRENE | 76 | 480 | 0.24 |
| TOTAL SVOCs | 1689.9 | 8236 | 2.831 |

**SB-19**

| | 13-18' | 28-33' |
|---|---|---|
| ACENAPHTHENE | 96 | 0.13 |
| BENZO(a)ANTHRACENE | 34 | 0.086 |
| BENZO(a)PYRENE | 24 | 0.056 |
| BENZO(b)FLUORANTHENE | 21 | 0.05 |
| BENZO(k)FLUORANTHENE | 6.1 | ND |
| CHRYSENE | 34 | 0.083 |
| DIBENZO(a,h)ANTHRACENE | 2.2 | ND |
| FLUORENE | 42 | 0.07 |
| INDENO(1,2,3-cd)PYRENE | 7.1 | ND |
| NAPHTHALENE | 290 | 0.28 |
| PHENANTHRENE | 130 | 0.28 |
| TOTAL SVOCs | 1035.2 | 1.6 |

**CMW-35**

| | 9-11' | 1-33' |
|---|---|---|
| BENZO(A)ANTHRACENE | 5.7 | ND |
| BENZO(A)PYRENE | 3.5 | ND |
| BENZO(B)FLUORANTHENE | 3 | ND |
| BENZO(K)FLUORANTHENE | 0.83 | ND |
| CHRYSENE | 5.1 | ND |
| DIBENZ(A,H)ANTHRACENE | 0.39 | ND |
| INDENO(1,2,3-C,D)PYRENE | 1.5 | ND |
| TOTAL SVOCs | 73.86 | ND |

**TP-12B**

| | 3.5' |
|---|---|
| BENZO(A)ANTHRACENE | 2 |
| BENZO(B)FLUORANTHENE | 3.7 |
| CHRYSENE | 7.3 |
| TOTAL SVOCs | 62 |

**TP-11**

| | 7-8' |
|---|---|
| BENZO(A)ANTHRACENE | 6.7 |
| BENZO(A)PYRENE | 9.3 |
| BENZO(B)FLUORANTHENE | 8.8 |
| BENZO(K)FLUORANTHENE | 2.8 |
| CHRYSENE | 7.4 |
| DIBENZO(A,H)ANTHRACENE | 0.7 |
| INDENO(1,2,3-CD)PYRENE | 1.7 |
| TOTAL SVOCs | 161.7 |

**SB-45**

| | 13-15' | 27-29' | 43-45' |
|---|---|---|---|
| DIBENZOFURAN | 1.3 | 10 | ND |
| ACENAPHTHENE | 24 | 180 | ND |
| BENZO(A)ANTHRACENE | 7.2 | 56 | ND |
| BENZO(A)PYRENE | 4.2 | 39 | ND |
| BENZO(B)FLUORANTHENE | 3.3 | 34 | ND |
| BENZO(K)FLUORANTHENE | 0.79 | 8.7 | ND |
| CHRYSENE | 6.7 | 50 | ND |
| DIBENZO(A,H)ANTHRACENE | 0.49 | ND | ND |
| FLUORENE | 12 | 83 | ND |
| INDENO(1,2,3-CD)PYRENE | 1.9 | 12 | ND |
| NAPHTHALENE | 200 | 490 | ND |
| PHENANTHRENE | 38 | 310 | ND |
| PYRENE | 18 | 140 | ND |
| TOTAL SVOCs | 445.24 | 1832.7 | ND |

**TP-15**

| | 2.8' | 5' |
|---|---|---|
| BENZO(A)ANTHRACENE | 0.7 | 1.9 |
| BENZO(A)PYRENE | 0.87 | 2.8 |
| BENZO(B)FLUORANTHENE | 1.6 | 2.8 |
| CHRYSENE | 1.3 | 2.1 |
| DIBENZ(A,H)ANTHRACENE | 0.23 | 0.4 |
| INDENO(1,2,3-C,D)PYRENE | 0.47 | 0.85 |
| TOTAL SVOCs | 12.86 | 21.2 |

**SB-17**

| | 13-18' | 28-33' |
|---|---|---|
| ACENAPHTHENE | 44 | 0.19 |
| BENZO(A)ANTHRACENE | 12 | 0.061 |
| BENZO(A)PYRENE | 8.3 | ND |
| BENZO(B)FLUORANTHENE | 7.6 | ND |
| BENZO(K)FLUORANTHENE | 1.9 | ND |
| CHRYSENE | 11 | 0.056 |
| DIBENZO(A,H)ANTHRACENE | 0.97 | ND |
| INDENO(1,2,3-CD)PYRENE | 2.7 | ND |
| NAPHTHALENE | 430 | 1.4 |
| TOTAL SVOCs | 993.37 | 3.678 |

**MW-26**

| | 12-14' | 22-24' | 26-28' |
|---|---|---|---|
| ACENAPHTHENE | 19 | 87 | ND |
| BENZO(A)ANTHRACENE | 6.6 | 28 | ND |
| BENZO(A)PYRENE | 4.4 | 18 | ND |
| BENZO(A)FLUORANTHENE | 3.9 | 13 | ND |
| BENZO(K)FLUORANTHENE | 1.2 | 5.1 | ND |
| CHRYSENE | 6.4 | 28 | 0.057 |
| DIBENZO(A,H)ANTHRACENE | 0.45 | 2.1 | ND |
| INDENO(1,2,3-C,D)PYRENE | 1.6 | 6 | ND |
| PHENANTHRENE | 27 | 150 | 0.19 |
| TOTAL SVOCs | 118.55 | 530.04 | 0.603 |

**SB-44**

| | 16.5-18' | 28-30' |
|---|---|---|
| ACENAPHTHENE | 60 | ND |
| BENZO(A)ANTHRACENE | 20 | ND |
| BENZO(A)PYRENE | 14 | ND |
| BENZO(B)FLUORANTHENE | 12 | ND |
| BENZO(K)FLUORANTHENE | 4.1 | ND |
| CHRYSENE | 19 | ND |
| INDENO(1,2,3-CD)PYRENE | 4.6 | ND |
| NAPHTHALENE | 73 | ND |
| TOTAL SVOCs | 436 | ND |

**SB-23**

| | 13-18' | 28-33' |
|---|---|---|
| ACENAPHTHENE | 40 | ND |
| BENZO(A)ANTHRACENE | 12 | ND |
| BENZO(A)PYRENE | 8.1 | ND |
| BENZO(B)FLUORANTHENE | 6.8 | ND |
| BENZO(K)FLUORANTHENE | 2.2 | ND |
| CHRYSENE | 11 | ND |
| DIBENZO(A,H)ANTHRACENE | 1 | ND |
| INDENO(1,2,3-CD)PYRENE | 3.3 | ND |
| NAPHTHALENE | 220 | ND |
| TOTAL SVOCs | 571.76 | ND |

**SB-43**

| | 15-17' | 29-31' |
|---|---|---|
| BENZO(A)ANTHRACENE | 5.1 | ND |
| BENZO(A)PYRENE | 2.7 | ND |
| BENZO(B)FLUORANTHENE | 2.3 | ND |
| CHRYSENE | 5 | ND |
| INDENO(1,2,3-cd)PYRENE | 1.1 | ND |
| NAPHTHALENE | 170 | ND |
| TOTAL SVOCs | 363.73 | ND |

**MW-13**

| | 18-20' | 24-26' |
|---|---|---|
| BENZENE(A)ANTHRACENE | 2.1 | 0.062 |
| BENZO(A)PYRENE | 1.3 | 0.039 |
| CHRYSENE | 1.8 | 0.053 |
| TOTAL SVOCs | 19.66 | 0.647 |

**MW-15**

| | 14-16' | 28-30' |
|---|---|---|
| ACENAPHTHENE | 33 | 0.49 |
| BENZO(A)ANTHRACENE | 12 | 0.16 |
| BENZO(A)PYRENE | 7.2 | 0.097 |
| BENZO(B)FLUORANTHENE | 6.5 | 0.074 |
| BENZO(K)FLUORANTHENE | 1.9 | ND |
| CHRYSENE | 11 | 0.14 |
| DIBENZO(A,H)ANTHRACENE | 0.76 | ND |
| INDENO(1,2,3-CD)PYRENE | 2.4 | ND |
| NAPHTHALENE | 100 | 0.31 |
| TOTAL SVOCs | 376.03 | 3.496 |

**SB-42**

| | 14-16' | DUP | 22-24' | 34-36' |
|---|---|---|---|---|
| DIBENZOFURAN | 17 | 23 | 16 | ND |
| ACENAPHTHENE | 180 | 260 | 230 | ND |
| ANTHRACENE | 86 | 120 | 98 | ND |
| BENZO(A)ANTHRACENE | 57 | 68 | 78 | ND |
| BENZO(A)PYRENE | 39 | 47 | 51 | ND |
| BENZO(B)FLUORANTHENE | 35 | 43 | 44 | ND |
| BENZO(K)FLUORANTHENE | 9.1 | 10 | 11 | ND |
| CHRYSENE | 57 | 64 | 72 | ND |
| DIBENZO(A,H)ANTHRACENE | 3.3 | ND | ND | ND |
| FLUORANTHENE | 110 | 140 | 140 | ND |
| FLUORENE | 98 | 140 | 120 | ND |
| INDENO(1,2,3-C,D)PYRENE | 14 | 17 | 16 | ND |
| NAPHTHALENE | 920 | 1500 | 920 | ND |
| PHENANTHRENE | 330 | 410 | 400 | ND |
| PYRENE | 130 | 180 | 180 | ND |
| TOTAL SVOCs | 2521 | 3571.1 | 2742 | ND |

**MW-14**

| | 14-16' | 24-26' |
|---|---|---|
| DIBENZOFURAN | 9 | ND |
| ACENAPHTHENE | 110 | 0.17 |
| BENZO(A)ANTHRACENE | 35 | 0.23 |
| BENZO(A)PYRENE | 24 | 0.15 |
| BENZO(B)FLUORANTHENE | 21 | 0.12 |
| BENZO(K)FLUORANTHENE | 8.6 | 0.055 |
| CHRYSENE | 33 | 0.21 |
| DIBENZO(A,H)ANTHRACENE | 2.3 | ND |
| FLUORENE | 53 | 0.056 |
| INDENO(1,2,3-CD)PYRENE | 6.2 | ND |
| NAPHTHALENE | 550 | ND |
| PHENANTHRENE | 180 | 0.16 |
| TOTAL SVOCs | 1505.2 | 2.28 |

LEGEND:

- SITE CHARACTERIZATION MONITORING WELL LOCATIONS
- SITE CHARACTERIZATION SOIL BORING LOCATIONS
- TEST PIT LOCATIONS
- REMEDIAL INVESTIGATION MONITORING WELL LOCATIONS
- REMEDIAL INVESTIGATION SOIL BORING LOCATIONS
- REMEDIAL INVESTIGATION SOIL GAS LOCATIONS
- HOLDER STATION (PARCEL 3) MONITORING WELL LOCATION
- NAPL OBSERVED DURING INSTALLATION

NOTES:

1. ALL CONCENTRATIONS ARE IN PARTS PER MILLION (ppm).
2. GRAY SHADED VALUES EXCEED 6 NYCRR PART 375 UNRESTRICTED SOIL CLEANUP OBJECTIVES.
3. YELLOW SHADED VALUES EXCEED 6 NYCRR COMMERCIAL PART 375 SOIL CLEANUP OBJECTIVES.
4. ND = NOT DETECTED
5. VOCs WERE NOT DETECTED EXCEEDING 6 NYCRR PART 375 UNRESTRICTED SOIL CLEANUP OBJECTIVES IN SUBSURFACE SOIL SAMPLES COLLECTED FROM MW-17, MW-20, MW-21, MW-24, MW-27, MW-28, MW-29, MW-30, MW-41, SB-18, SB-21, SB-24, SB-27 THROUGH SB-34, SB-36, SB-46, SB-50, SB-52, SB-55D, SB-56, SB-62, SB-69, SB-72, SB-73, SB-74, SB-75, SB-76, SB-84, SB-85, CSB-48D, CSB-63, CSB-65, CSB-66, CSB-71, CSB-79, CMW-33, CMW-36, CMW-37, CMW-39, CMW-40, TP-12, AND TP-14E.

80 40 0 80 160

SCALE: 1"=80'

FILE NAME: P:\CONED\446109 - FARRINGTON ST MGP\CAD\446109-SK001-ALLFIGS.DWG
PLOT DATE: 9/29/2015 1:18 PM PLOTTED BY: RUSSO, JILL

**FIGURE 7**

**CON EDISON**
**FORMER FARRINGTON STREET WORKS**
**QUEENS, NEW YORK**

**SVOC EXCEEDANCES IN SOIL**

PARSONS
301 PLAINFIELD ROAD, SUITE 350, SYRACUSE, NEW YORK 13212 PHONE:315-451-9560

NOTES

1. ALL CONCENTRATIONS ARE IN PARTS PER BILLION (ppb).
2. SHADED VALUES EXCEED NYSDEC GROUNDWATER QUALITY STANDARDS OR GUIDANCE VALUES (TOGS 1.1.1).
3. NO VOCs OR SVOCs WERE DETECTED ABOVE QUALITY STANDARDS OR GUIDANCE VALUES IN CMW–36, CMW–39, MW–27, MW–41, OR MW–CSB–60.
4. ONLY COMPOUNDS THAT EXCEED QUALITY STANDARDS OR GUIDANCE VALUES, FOR A GIVEN LOCATION, ARE SHOWN.
5. ND INDICATES COMPOUND WAS NOT DETECTED.
6. "J" INDICATES AN ESTIMATED CONCENTRATION.

| MW–21 | 2009 | 2011 | 2015 |
|---|---|---|---|
| PHENOL | 4.1 | ND | ND |
| TOTAL SVOCs | 6.5 | ND | ND |

| CMW–38 | 2011 |
|---|---|
| BENZENE | 360 |
| ETHYLBENZENE | 320 |
| ISOPROPYLBENZENE | 54 |
| M,P–XYLENE | 22 |
| O–XYLENE 1,2–DIMETHYLBENZENE | 91 |
| TERT–BUTYL–METHYL ETHER | 17 |
| TOTAL VOCs | 886.3 |
| ACENAPHTHENE | 180 |
| BENZO(A)ANTHRACENE | 17 |
| BENZO(B)FLUORANTHENE | 8.6 J |
| CHRYSENE | 15 |
| FLUORENE | 60 |
| NAPHTHALENE | 1800 |
| PHENANTHRENE | 120 |
| TOTAL SVOCs | 2925.9 |

| MW–20 | 2009 | 2011 | 2015 |
|---|---|---|---|
| BENZENE | 3.4 J | 11 | ND |
| CIS–1,2–DICHLOROETHENE | 5.7 | ND | ND |
| TERT–BUTYL METHYL ETHER | 24 | 12 | ND |
| TOTAL VOCs | 34.2 | 23 | 0.56 |
| ACENAPHTHENE | 22 | 23 | ND |
| PHENOL | 1.7 J | ND | ND |
| TOTAL SVOCs | 26.4 | 23 | ND |

| CMW–40 | 2011 | 2015 |
|---|---|---|
| BENZENE | 1400 | 0.55 J |
| ISOPROPYLBENZENE | 7.6 | ND |
| O–XYLENE (1,2–DIMETHYLBENZENE) | 5.1 | ND |
| TOTAL VOCs | 1426.7 | 3.86 |
| PHENOL | 17 | ND |
| TOTAL SVOCs | 39.9 | 3.2 |

| MW–30 | 2011 | 2015 |
|---|---|---|
| BENZENE | 2800 | 1.4 J |
| ETHYLBENZENE | 210 J | ND |
| ISOPROPYLBENZENE | 80 | 1.1 J |
| M,P–XYLENE | 26 | ND |
| O–XYLENE | 71 | ND |
| TOLUENE | 6.7 | 0.48 J |
| TOTAL VOCs | 3211.3 | 14.66 |
| ACENAPHTHENE | 140 | ND |
| NAPTHALENE | 370 | ND |
| PHENANTHRENE | 55 | 3.2 J |
| PHENOL | 17 | ND |
| TOTAL SVOCs | 889.8 | 7.9 |

| CMW–37 | 2011 | 2015 |
|---|---|---|
| BENZENE | 3.9 J | 4.6 J |
| TOTAL VOCs | 10.4 | 15.15 |
| NAPHTHALENE | 23 | 31.7 |
| TOTAL SVOCs | 34 | 54.4 |

| MW–19 | 2009 | 2011 |
|---|---|---|
| BENZENE | 8.8 | 4.8 J |
| ETHYL BENZENE | 310 | 100 |
| ISOPROPYLBENZENE | 45 | 25 |
| m/p–XYLENES | 68 | 6.2 J |
| o–XYLENE | 130 | 34 |
| TOLUENE | 8.2 | ND |
| TOTAL VOCs | 592.1 | 183.9 |
| ACENAPHTHENE | 94 | 70 |
| NAPHTHALENE | 3000 | 980 |
| PENTACHLOROPHENOL | 2.4 J | ND |
| PHENOL | 3 J | ND |
| TOTAL SVOCs | 3469.8 | 1188.6 |

| MW–18 | 2009 | 2011 |
|---|---|---|
| BENZENE | 940 | 830 |
| ETHYL BENZENE | 170 | 150 |
| ISOPROPYLBENZENE | 75 | 33 |
| m/p–XYLENES | 16 | 22 |
| o–XYLENE | 32 | 20 |
| TOTAL VOCs | 1256.5 | 1088.1 |
| ACENAPHTHENE | 82 | 40 |
| NAPHTHALENE | 380 | 130 |
| PHENOL | 18 | 6.2 J |
| TOTAL SVOCs | 759.4 | 336.5 |

| MW–16 | 2009 | 2011 | 2015 |
|---|---|---|---|
| BENZENE | 2300 | 270 | 180 |
| ETHYL BENZENE | 250 | 78 | 13 |
| ISOPROPYLBENZENE | 110 J | 27 | 14.3 |
| m/p–XYLENES | 67 J | 8.6 J | 2.4 J |
| o–XYLENE | 170 J | 28 | 5.3 |
| TOLUENE | 17 J | ND | 0.74 J |
| TOTAL VOCs | 2933.4 | 439.1 | 221.69 |
| ACENAPHTHENE | 180 J | 57 | 50.8 |
| NAPHTHALENE | 1900 | 200 | 49.4 |
| PENTACHLOROPHENOL | 4.2 J | ND | ND |
| PHENOL | 22 | ND | ND |
| TOTAL SVOCs | 2681.1 | 414.1 | 140.2 |

| MW–17 | 2009 | 2011 | 2015 | DUP |
|---|---|---|---|---|
| BENZENE | 9.9 | ND | ND | ND |
| TERT–BUTYL METHYL ETHER | 57 | 89 | 27.2 | 100 |
| TOTAL VOCs | 73.2 | 89 | 27.49 | 100 |
| ACENAPHTHENE | 23 | 17 | 17.1 | 17 |
| NAPHTHALENE | 11 J | ND | ND | ND |
| PHENOL | 1.4 J | ND | ND | ND |
| TOTAL SVOCs | 73.3 | 35.2 | 17.1 | 30 |

| MW–25 | 2011 | 2015 |
|---|---|---|
| BENZENE | 8.4 | ND |
| ETHYL BENZENE | 100 | ND |
| ISOPROPYLBENZENE | 11 | ND |
| M,P–XYLENE | 28 | ND |
| o–XYLENE | 27 | ND |
| TERT–BUTYL METHYL ETHER | 75 | ND |
| TOTAL VOCs | 256.6 | 4.69 |
| ACENAPHTHENE | 52 | ND |
| NAPHTHALENE | 42 | ND |
| TOTAL SVOCs | 183.9 | ND |

| MW–15 | 2009 | 2011 |
|---|---|---|
| BENZENE | 13 | 3.7 J |
| ETHYL BENZENE | 94 | 25 |
| ISOPROPYLBENZENE | 24 | 5.2 |
| o–XYLENE | 17 | 7 |
| TOTAL VOCs | 161.1 | 47 |
| ACENAPHTHENE | 130 | 100 |
| BENZO(a)ANTHRACENE | 1.6 J | 23 |
| BENZO(b)FLUORANTHENE | ND | 13 |
| CHRYSENE | 1.5 J | 20 |
| INDENO(1,2,3–C,D)PYRENE | ND | 4.5 J |
| NAPHTHALENE | 220 | 35 |
| TOTAL SVOCs | 427.8 | 404.5 |

| MW–28 | 2011 | 2015 |
|---|---|---|
| TETRACHLOROETHYLENE (PCE) | 17 | 29.9 |
| TOTAL VOCs | 33.5 | 37.5 |

| MW–14 | 2009 | DUP |
|---|---|---|
| BENZENE | 2.8 J | 2.9 J |
| CIS–1,2–DICHLOROETHENE | 8.1 | 8.4 |
| ETHYL BENZENE | 90 | 120 |
| ISOPROPYLBENZENE | 14 | 15 |
| o–XYLENE | 25 | 25 |
| VINYL CHLORIDE | 2.4 J | 1.2 J |
| TOTAL VOCs | 158.3 | 190.8 |
| 2–METHYLPHENOL | ND | 1.3 J |
| ACENAPHTHENE | 9.2 J | 110 |
| BENZO(a)ANTHRACENE | ND | 2.3 J |
| BENZO(b)FLUORANTHENE | ND | 1.2 J |
| CHRYSENE | ND | 2.2 J |
| NAPHTHALENE | 21 J | 650 J |
| PHENANTHRENE | 2.1 J | 53 J |
| PHENOL | ND | 6.9J |
| TOTAL SVOCs | 42.6 | 1015.6 |

| MW–13 | 2009 | 2011 | 2015 |
|---|---|---|---|
| ACENAPHTHENE | 89 | ND | ND |
| BENZO(a)ANTHRACENE | 1.8 J | ND | ND |
| CHRYSENE | 1.7 J | ND | ND |
| NAPHTHLENE | 510 | ND | ND |
| PHENOL | 5.2 J | ND | ND |
| TOTAL SVOCs | 809.1 | ND | ND |

LEGEND:

- SITE CHARACTERIZATION MONITORING WELL LOCATIONS
- SITE CHARACTERIZATION SOIL BORING LOCATIONS
- TEST PIT LOCATIONS
- REMEDIAL INVESTIGATION MONITORING WELL LOCATIONS
- REMEDIAL INVESTIGATION SOIL BORING LOCATIONS
- REMEDIAL INVESTIGATION SOIL GAS LOCATIONS
- HOLDER STATION (PARCEL 3) MONITORING WELL LOCATION
- NAPL OBSERVED DURING INSTALLATION

80 40 0 80 160

SCALE: 1"=80'

FILE NAME: P:\CONED\446109 – FARRINGTON ST MGP\CAD\446109–SK001–ALLFIGS.DWG
PLOT DATE: 9/28/2015 9:50 AM PLOTTED BY: RUSSO, JILL

# FIGURE 8

**CON EDISON**
**FORMER FARRINGTON STREET WORKS**
**QUEENS, NEW YORK**

## VOC AND SVOC EXCEEDANCES IN GROUNDWATER

PARSONS
301 PLAINFIELD ROAD, SUITE 350, SYRACUSE, NEW YORK 13212 PHONE:315–451–9560

# APPENDIX A

# SOIL BORING AND MONITORING WELL LOGS

**PARSONS**
**DRILLING RECORD**

**BORING/WELL ID: CMW-32**
Sheet 1 of 1

**Contractor:** Advanced Drilling Technology (ADT)
**Driller:** Tom Sheerin/German Torres
**Inspector:** Zohar Lavy
**Rig Type:** Track Mounted Hollow Stem Auger CME 55

**PROJECT NAME:** Con Edison /Farrington Street Works
**PROJECT NUMBER:** 446109-03000

North Sidewalk of 31st Drive

**Location Plan**
See Site Plan

**Weather:** Cloudy, Mid 60's-70's, Wind: 10-15 mph West
**Date/Time Start:** 09/08/11 ; 1405
**Date/Time Finish:** 09/09/11 ; 1325

| GROUNDWATER OBSERVATIONS | | | | |
|---|---|---|---|---|
| Water Level | DTW ~5' | DTW | | |
| Date | 09/08/2011 | | | |
| Time | 1405 | | | |
| Meas. From | ft bgs - Split Spoon | | | |

| Sample Depth | Sample I.D. | SPT | Rec. (%) | PID (ppm) | FIELD IDENTIFICATION OF MATERIAL | SCHEMATIC (drawing not to scale) | COMMENTS |
|---|---|---|---|---|---|---|---|
| +1 | | | | | | | |
| | | | | | | | |
| 0 | | Vac-tron | | NA | 0-4" CONCRETE | | |
| 1 | | Vac-tron | | 0.0 | 4"-2' Moist, dark brown, fine to coarse SAND, some Gravel and Cobble, trace Wood, trace Brick | | |
| 2 | | Vac-tron | | | | | |
| 3 | | Vac-tron | | 0.0 | 2'-4.5' Moist, dark brown, fine to coarse SAND, little Gravel, trace Cobble, trace Brick | | |
| 4 | | Vac-tron | | 0.0 | 4.5'-5' Dark brown, medium to coarse SAND, some Cobble and Brick | | |
| 5 | | 7-7-4-2 | 33 | 0.0 | Wet, black, fine to coarse SAND and COAL, some Slag, little angular Gravel | | |
| 6 | | | | | | | |
| 7 | | 7-9-7-4 | 42 | 10.0 | Wet, black, fine to coarse SAND and COAL, some Slag, little angular Gravel | | |
| 8 | | | | | | | |
| 9 | | 16-8-5-4 | 50 | 17.6 | Wet, black, fine to coarse SAND and angular to subangular GRAVEL, trace Wood, slight hydrocarbon odor | | |
| 10 | | | | | | | |
| 11 | | 4-6-6-8 | 75 | 178.0 | 0-8" Wet, black, fine to coarse SAND and angular to subangular GRAVEL, trace Wood, slight hydrocarbon odor | | |
| 12 | | | | | 8-18" Dark grey, fine SAND, little Wood, trace Silt, hydrocarbon odor, slight staining | | |
| 13 | CMW-32 (13-15) | 3-6-8-8 | 83 | 875.0 | 0-6" Dark grey, fine SAND, little Wood, trace Silt, hydrocarbon odor, slight staining | | |
| 14 | | | | | 6-20" Wet, dark brown, fine SAND and PEAT, strong hydrocarbon odor, staining, NAPL blebs | | |
| 15 | | 1-1-1-1 | 83 | 88.5 | Moist, tan/gray, fine SAND, some Silt, little Peat, hydrocarbon odor | | |
| 16 | | | | | | | |
| 17 | | 1-2-1-3 | 75 | 38.7 | 0-14" Moist, tan/gray, fine SAND, some Silt, little Peat | | |
| 18 | | | | | 14-18" Moist, brown/green, fine SAND, some Silt | | |
| 19 | | 6-7-8-9 | 83 | 25.1 | 0-10" Moist, brown/green, fine SAND, some Silt | | |
| 20 | | | | | 10-20" Moist, orange/brown, fine to coarse SAND and SILT, trace round fine Gravel | | |
| 21 | | 10-10-11-13 | 50 | 5.5 | Moist, dark brown, fine SAND, some Silt, trace fine sub-round to round Gravel | | |
| 22 | | | | | | | |
| 23 | | 10-12-12-15 | 67 | 1.9 | Moist, dark brown/gray, fine SAND and SILT, trace Clay, trace fine round Gravel | | |
| 24 | | | | | | | |
| 25 | | 5-8-10-11 | 75 | 0.5 | Moist, light brown/orange, fine SAND and SILT, little Clay, trace fine round Gravel | | |
| 26 | | | | | | | |
| 27 | | 7-8-8-9 | 83 | 3.3 | 0-2" Moist, light brown/orange, fine SAND and SILT, little Clay, trace fine round Gravel | | |
| | | | | | 2-8" Brown, medium to coarse SAND, trace Silt | | |
| 28 | | | | | 8-20" Moist, orange/gray, fine SAND and SILT, some Clay, trace sub-angular to round Gravel | | |
| 29 | | 16-15-15-16 | 75 | 4.4 | Moist, dark brown, fine to medium SAND, trace Silt, trace Mica | | |
| 30 | | | | | | | |
| 31 | | 10-12-20-19 | 92 | 3.9 | 0-8" Moist, dark brown/green, fine to medium SAND, trace Silt, trace Mica | | |
| | | | | | 8-12" Moist, dark brown/green, fine to medium SAND, trace Silt, trace Mica, trace Clay | | |
| 32 | | | | | 12-22" Moist, dark brown/gray, fine to medium SAND | | |
| 33 | | 6-7-9-10 | 67 | 10 | Moist, dark brown/gray, fine to medium SAND, trace Silt | | |
| 34 | | | | | | | |
| 35 | | 12-17-19-18 | 100 | 6.3 | 0-10" Wet, olive/gray, fine to medium SAND, trace Silt | | |
| 36 | | | | | 10-22" Wet, olive/gray, fine to medium SAND, trace Clay, trace Mica, trace fine sub-angular to round Gravel; 22-24" Orange/brown, fine to medium SAND and SILT, trace Clay, trace sub-round fine Gravel | | |
| 37 | | 22-25-22-24 | 100 | 5.7 | 0-6" Orange/brown, fine to medium SAND and SILT, trace Clay, trace sub-round fine Gravel; 6-24" Dark gray, fine to medium SAND, little Silt, trace sub-angular to round Gravel | | |
| 38 | | | | | | | |
| 39 | CMW-32 (39-41) | 10-15-15-17 | 100 | 1.5 | 0-8" Dark gray, fine to medium SAND, little Silt, trace sub-angular to round Gravel | | |
| 40 | | | | | 8-24" Brown, medium SAND, trace Silt, little sub-round to round Gravel | | |
| 41 | | | | | **End of Boring at 41 ft bgs** | | |

**SAMPLING METHOD**
WH = WEIGHT OF RODS
HC = HAND CLEARED
VC = VACUUM CLEARED
GP = GEOPROBE/DIRECT PUSH

**COMMENTS:**
0-5 ft bgs was hand cleared
5-41 ft bgs advanced with augers and split spoons
NAPL encountered from 13-15 ft bgs
No monitoring well installed at this location

**PARSONS**
**DRILLING RECORD**

**BORING/WELL ID: CMW-33**
Sheet 1 of 1

**Contractor:** Advanced Drilling Technology (ADT)
**Driller:** Tom Sheerin/German Torres
**Inspector:** Zohar Lavy
**Rig Type:** Track Mounted Hollow Stem Auger CME 55

**PROJECT NAME:** Con Edison /Farrington Street Works
**PROJECT NUMBER:** 446109-03000

**Location Description:**

**Location Plan**
See Site Plan

| GROUNDWATER OBSERVATIONS | | | | |
|---|---|---|---|---|
| Water Level | DTW ~13.5' | DTW | | |
| Date | 9/12/2011 | | | |
| Time | 1020 | | | |
| Meas. From | ft bgs - Split Spoon | | | |

**Weather:** Partly Cloudy, High 60s-Low 80s, Wind: 5-10 mph E
**Date/Time Start:** 09/12/11 ; 0930
**Date/Time Finish:** 09/13/11 ; 1100

| Sample Depth | Sample I.D. | SPT | Rec. (%) | PID (ppm) | FIELD IDENTIFICATION OF MATERIAL | SCHEMATIC (drawing not to scale) | COMMENTS |
|---|---|---|---|---|---|---|---|
| +1 | | | | | | | |
| | | | | | | | |
| 0 | | Vactron | | 0.0 | 0-12" CONCRETE | | |
| 1 | | Vactron | | 0.0 | 12-24" ASPHALT | | |
| 2 | | Vactron | | 0.0 | 2-5' Dry, black, fine to medium SAND, some fine to coarse round Gravel, little Silt | | |
| 3 | | Vactron | | 0.0 | | | |
| 4 | | Vactron | | 0.0 | | | |
| 5 | | 2-2-3-4 | 75 | 12.8 | 0-8" Moist, brown, fine to mdeium SAND, trace Silt | | |
| 6 | | | | | 8-18" Slightly moist, brown, fine SAND | | |
| 7 | | 4-5-4-5 | 67 | 13.2 | Slightly moist, brown, fine SAND | | |
| 8 | | | | | | | |
| 9 | | 5-6-8-10 | 83 | 11.4 | Moist, olive/brown, fine SAND, trace round Cobble | | |
| 10 | | | | | | | |
| 11 | | 10-8-7-7 | 75 | 6.8 | 0-14" Dry, dark tan, fine to medium SAND | | |
| 12 | | | | | 14-18" Slightly moist, olive/brown fine SAND, trace Silt | | |
| 13 | | 7-6-6-5 | 92 | 34.9 | 0-5" Slightly moist, olive/brown fine SAND, trace Silt | | |
| 14 | | | | | 5-22" Wet, dark brown, fine SAND, little Mica, trace Silt, slight hydrocarbon odor | | |
| 15 | | 5-5-5-6 | 67 | 42.8 | Wet, dark brown, fine SAND, little Mica, trace Silt, slight hydrocarbon odor | | |
| 16 | | | | | | | |
| 17 | CMW-33 (17-19) | 5-4-5-3 | 83 | 546.0 | 0-14" Wet, dark brown, fine SAND, little Mica, trace Silt, slight hydrocarbon odor | | |
| 18 | | | | | 14-20" Wet, black, fine to coarse SAND, trace fine round Gravel, trace Mica, strong hydrocarbon odor, staining, NAPL blebs | | |
| 19 | | 4-4-5-5 | 83 | 383.0 | Wet, black, fine to coarse SAND, trace fine round Gravel, trace Mica, strong hydrocarbon | | |
| 20 | | | | | odor, staining, slight NAPL blebs, sheen | | |
| 21 | | 5-6-7-9 | 100 | 117.0 | 0-6" Wet, black, fine to coarse SAND, trace fine round Gravel, trace Mica, strong hydrocarbon odor, staining, slight NAPL blebs, sheen | | |
| 22 | | | | | 6-24" Wet, dark brown, medium SAND, trace fine round to sub-round Gravel, slight sheen, | | |
| 23 | | 4-3-2-3 | 75 | 95.6 | 0-4" Wet, dark brown fine SAND, trace silt, trace mica, slight hydrocarbon odor | | |
| 24 | | | | | 4-18" Wet, dark brown, fine to medium SAND, trace Mica, slight hydrocarbon odor | | |
| 25 | | 2-2-3-2 | 58 | 26.7 | Wet, dark brown, fine to medium SAND, trace Mica, slight hydrocarbon odor | | |
| 26 | | | | | | | |
| 27 | | 2-4-3-4 | 0 | - | No recovery | | |
| 28 | | | | | | | |
| 29 | | WH-7-7-5 | 63 | 5.6 | Wet, dark brown/tan, medium to coarse SAND, little fine sub-round Gravel | | |
| 30 | | | | | | | |
| 31 | | 8-8-5-5 | 58 | 27.3 | Wet, brown, medium to coarse SAND | | |
| 32 | | | | | | | |
| 33 | | 12-12-14-12 | 100 | 36 | Wet, brown, medium SAND, trace Mica, slight hydrocarbon odor | | |
| 34 | | | | | | | |
| 35 | | 14-12-25-28 | 100 | 38 | 0-12" Wet, brown, medium SAND, trace Mica, slight hydrocarbon odor | | |
| 36 | | | | | 12-24" Orange/brown, fine SAND and SILT, trace fine sub-round to round Gravel | | |
| 37 | | 25-25-26-27 | 50 | 43 | Orange/brown, fine SAND and SILT, trace fine sub-round to round Gravel, slight | | |
| 38 | | | | | hydrocarbon odor | | |
| 39 | | 21-20-17-18 | 83 | 21 | 0-18" Orange/brown, fine SAND and SILT, trace fine sub-round to round Gravel, slight | | |
| 40 | | | | | hydrocarbon odor; 18-20" Wet, orange/brown, medium to coarse SAND | | |
| 41 | CMW-33 (41-43) | 6-7-8-7 | 67 | 2.1 | Wet, orange/brown medium to coarse SAND, trace sub-round Gravel | | |
| 42 | | | | | | | |
| 43 | | | | | **End of Boring at 43 ft bgs** | | |

**SAMPLING METHOD**
WH = WEIGHT OF RODS
HC = HAND CLEARED
VC = VACUUM CLEARED
GP = GEOPROBE/DIRECT PUSH

**COMMENTS:**
0-5 ft bgs was hand cleared
5-43 ft bgs advanced with augers and split spoons
NAPL encountered from 17-21.5 ft bgs
No monitoring well installed at this location

**PARSONS**
**DRILLING RECORD**

**BORING/WELL ID: CMW-35**
Sheet 1 of 1

**Contractor:** Advanced Drilling Technology (ADT)
**Driller:** Tom Sheerin/German Torres
**Inspector:** Zohar Lavy
**Rig Type:** Track Mounted Hollow Stem Auger CME 55

**PROJECT NAME:** Con Edison /Farrington Street Works
**PROJECT NUMBER:** 446109-03000

**Location Description:** On north side of 32nd Ave., west of Miller St.

**Weather:** Clear, high 80s, Wind: 0-5 mph East
**Date/Time Start:** 09/14/11 ; 0935
**Date/Time Finish:** 09/14/11 ; 1400

See Site Plan

| GROUNDWATER OBSERVATIONS | | | | |
|---|---|---|---|---|
| Water Level | DTW ~11' | DTW | | |
| Date | 9/14/2011 | | | |
| Time | 955 | | | |
| Meas. From | ft bgs - Split Spoon | | | |

| Sample Depth | Sample I.D. | SPT | Rec. (%) | PID (ppm) | FIELD IDENTIFICATION OF MATERIAL | COMMENTS |
|---|---|---|---|---|---|---|
| +1 | | | | | | |
| | | | | | | |
| 0 | | Vactron | | NA | 0-10" CONCRETE | |
| 1 | | Vactron | | 0.0 | 10"-2' Dry, black, fine to coarse SAND, some fine to coarse Gravel | |
| 2 | | Vactron | | 0.0 | 2-4.7' Moist, brown, fine to coarse SAND, little fine to medium Gravel | |
| 3 | | Vactron | | 0.0 | 4.7-8' Brown, fine to coarse SAND, some fine to coarse round Gravel, trace Silt | |
| 4 | | Vactron | | | | |
| 5 | | Vactron | | | | |
| 6 | | Vactron | | | | |
| 7 | | 5-6-5-6 | 33 | 117.0 | 0-6" Tan, medium SAND; 6-8" Black, medium to coarse SAND, trace Silt, staining, strong hydrocarbon odor, NAPL blebs | Morrie #1 SAND (from gas point) |
| 8 | | | | | | |
| 9 | CMW-35 (9-11) | 7-9-14-17 | 67 | 575.0 | 0-12" Slightly moist, black, medium to coarse SAND, little sub-angular fine Gravel, trace Silt, staining, strong hydrocarbon odor, NAPL saturation; 12-14" BOULDER | |
| 10 | | | | | 14-16" Dark brown/gray, medium SAND, trace sub-angular Gravel, staining, NAPL blebs, strong hydrocarbon odor | |
| 11 | | 15-16-15-16 | 75 | 944.0 | 0-14" Dark brown/gray, medium SAND, little sub-angular to round Gravel, trace sub-angular Gravel, staining, NAPL blebs, strong hydrocarbon odor; 14-18" Wet, dark brown/orange, medium to coarse SAND, striated staining, strong hydrocarbon odor, NAPL blebs | |
| 12 | | | | | | |
| 13 | | 14-11-10-10 | 58 | 120.0 | 0-8" Wet, dark brown/orange, medium to coarse SAND, some angular Gravel, striated staining, strong hydrocarbon odor, NAPL blebs; 8-14" Wet, dark brown/orange, fine to coarse SAND, some sub-angular to round Gravel, slight hydrocarbon odor | |
| 14 | | | | | | |
| 15 | | 8-7-7-8 | 50 | 56.9 | Wet, brown, fine to coarse SAND, trace fine sub-angular Gravel, trace Silt, hydrocarbon odor | |
| 16 | | | | | | |
| 17 | | 12-10-12-10 | 67 | 47.4 | 0-10" Wet, brown/orange, fine to medium SAND, trace Silt | |
| 18 | | | | | 10-16" Wet, brown/orange, fine SAND, trace Silt, slight hydrocarbon odor | |
| 19 | | 9-12-15-14 | 58 | 61.2 | Wet, brown/orange, fine SAND, trace Silt, trace Mica, slight hydrocarbon odor | |
| 20 | | | | | | |
| 21 | | 9-10-10-10 | 83 | 45.3 | Wet, brown, medium SAND | |
| 22 | | | | | | |
| 23 | | 12-10-16-18 | 75 | 15.7 | Wet, brown, medium SAND, trace Silt | |
| 24 | | | | | | |
| 25 | | 12-16-14-16 | 75 | 10.9 | Moist, brown, fine to medium SAND, trace Silt, trace Mica | |
| 26 | | | | | | |
| 27 | | 16-16-15-15 | 100 | 7.8 | 0-12" Moist, brown, fine to medium SAND, trace Silt, trace Mica | |
| 28 | | | | | 12-24" Orange/brown, medium SAND, trace sub-round fine Gravel | |
| 29 | | 12-10-12-13 | 42 | 12.7 | Moist, brown, fine to medium SAND, trace Silt, trace Mica | |
| 30 | | | | | | |
| 31 | | 16-18-17-19 | 67 | 1.5 | 0-13" Moist, orange/brown, fine SAND and SILT, trace Clay, trace fine sub-round Gravel | |
| 32 | CMW-35 (31-33) | | | | 13-16" Moist, gray, fine SAND, trace Silt | |
| 33 | | | | | **End of Boring at 33 ft bgs** | |

**SAMPLING METHOD**
WH = WEIGHT OF RODS
HC = HAND CLEARED
VC = VACUUM CLEARED
GP = GEOPROBE/DIRECT PUSH

**COMMENTS:**
0-8 ft bgs was hand cleared
8-33 ft bgs advanced with augers and split spoons
NAPL encountered from 7-15 ft bgs
No monitoring well installed at this location

**PARSONS**
**DRILLING RECORD**

**BORING/WELL ID: CMW-36**
Sheet 1 of 1

**Contractor:** Advanced Drilling Technology (ADT)
**Driller:** Tom Sheerin/German Torres
**Inspector:** Zohar Lavy
**Rig Type:** Track Mounted Hollow Stem Auger CME 55

**PROJECT NAME:** Con Edison /Farrington Street Works
**PROJECT NUMBER:** 446109-03000

**Location Description:** East side of Farrington St. and North of 32nd Ave.

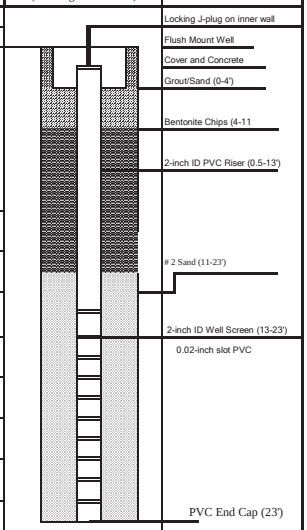
**Location Plan**
See Site Plan

**Weather:** Clear, up to mid 70s, Wind: 0-5 mph East
**Date/Time Start:** 09/14/11 ; 0935
**Date/Time Finish:** 09/23/11 ; 1110

| GROUNDWATER OBSERVATIONS | | | | |
|---|---|---|---|---|
| Water Level | DTW ~15' | DTW 13.74 | | |
| Date | 9/23/2011 | 6/8/2015 | | |
| Time | 945 | 1000 | | |
| Meas. From | ft bgs - Split Spoon | Top of PVC | | |

| Sample Depth | Sample I.D. | SPT | Rec. (%) | PID (ppm) | FIELD IDENTIFICATION OF MATERIAL |
|---|---|---|---|---|---|
| +1 | | | | | |
| | | | | | |
| 0 | | Vac-tron | | 0.0 | 0-6" CONCRETE |
| 1 | | Vac-tron | | 0.0 | 6"-1.5' Fine to medium, sub-angular to angular GRAVEL |
| 2 | | Vac-tron | | 0.0 | 1.5-8' Yellow/brown fine to medium SAND, trace Silt |
| 3 | | Vac-tron | | | |
| 4 | | Vac-tron | | | |
| 5 | | Vac-tron | | | |
| 6 | | Vac-tron | | | |
| 7 | | Vac-tron | | | |
| 8 | | 19-19-18-15 | 67 | 2.5 | Dry, brown/orange, medium to coarse SAND, trace Concrete, trace Cobble |
| 9 | | | | | |
| 10 | | 24-14-10-10 | 75 | 2.7 | Slightly moist, brown/orange, medium to coarse SAND, trace Concrete, trace red Cobble |
| 11 | | | | | |
| 12 | CMW-36 (12-14) | 8-9-10-12 | 75 | 4.7 | Moist, brown, fine to medium SAND, trace Silt, trace Mica |
| 13 | | | | | |
| 14 | | 14-6-6-10 | 100 | 1.9 | 0-10" Moist, brown, fine to medium SAND, little fine sub-round Gravel, trace Silt, trace Mica |
| 15 | | | | | 10-24" Wet, orange/brown, medium SAND, trace fine sub-round Gravel |
| 16 | | 8-11-11-14 | 83 | 1.7 | Wet, orange/brown, medium SAND, trace fine sub-round Gravel |
| 17 | | | | | |
| 18 | | 4-5-6-5 | 100 | 1.2 | Wet, orange/brown, medium SAND, trace fine sub-round Gravel |
| 19 | | | | | |
| 20 | | 8-7-10-10 | 100 | 4.8 | Wet, orange/brown, medium SAND, trace fine sub-round Gravel |
| 21 | | | | | |
| 22 | | 4-8-11-12 | 83 | 2.1 | Moist, brown, fine SAND, little Mica, trace Silt |
| 23 | | | | | |
| 24 | CMW-36 (24-26) | WH-10-5-5 | 75 | 2.1 | Moist, brown, fine SAND, little Mica, trace Silt |
| 25 | | | | | |
| 26 | | | | | **End of Boring at 26 ft bgs** |

**SCHEMATIC** (drawing not to scale)




**COMMENTS**

**SAMPLING METHOD**
WH = WEIGHT OF RODS
HC = HAND CLEARED
VC = VACUUM CLEARED
GP = GEOPROBE/DIRECT PUSH

**COMMENTS:**
0-8 ft bgs was hand cleared
8-26 ft bgs advanced with augers and split spoons

**PARSONS**
**DRILLING RECORD**

**BORING/WELL ID: CMW-37**
Sheet 1 of 1

**Contractor:** Advanced Drilling Technology (ADT)
**Driller:** Tom Sheerin/German Torres
**Inspector:** Zohar Lavy
**Rig Type:** Track Mounted Hollow Stem Auger CME 55

**PROJECT NAME:** Con Edison /Farrington Street Works
**PROJECT NUMBER:** 446109-03000

**Location Description:**
North side of 31st Drive, behind the Pathmark, on the corner of Ulmer St.

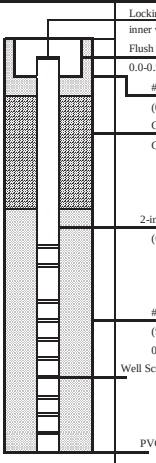
| GROUNDWATER OBSERVATIONS | | | | |
|---|---|---|---|---|
| Water Level | DTW ~5' | DTW 13.77 | | |
| Date | 9/19/2011 | 6/8/2015 | | |
| Time | 950 | 1000 | | |
| Meas. From | ft bgs - Split Spoon | Top of PVC | | |

**Weather:** Clear, up to high 60s F, Wind: 0-5 mph
**Date/Time Start:** 9/19/11 ; 0945
**Date/Time Finish:** 9/19/11; 1440

**Location Plan**
N
See Site Plan

| Sample Depth | Location/ Sample I.D. | SPT | Rec. (%) | PID (ppm) | FIELD IDENTIFICATION OF MATERIAL |
|---|---|---|---|---|---|
| +1 | | | | | |
| | | | | | |
| 0 | | | | | 0-4" CONCRETE |
| 1 | | | | | 4"-3' Moist, dark brown, fine to coarse SAND, some Gravel and Cobble, little Brick |
| 2 | | Vac-tron | | | 3'-5' Moist, dark brown, fine to coarse SAND, little Gravel, trace Cobble, trace Brick |
| 3 | | | | | |
| 4 | | | | | |
| 5 | | WH-2-5-5 | 25 | 0.8 | Wet, dark brown, fine to coarse SAND, little sub-angular Gravel, trace Metal, trace Silt |
| 6 | | | | | |
| 7 | | 4-5-5-3 | 42 | 2.3 | Moist, dark brown/black, medium to coarse SAND, some angular Gravel, little Slag |
| 8 | | | | | |
| 9 | | 2-1-1-6 | 50 | 1.9 | Wet, dark brown/black, medium to coarse SAND, some angular Gravel, little Slag, trace Brick |
| 10 | | | | | |
| 11 | | 4-1-3-4 | 67 | 6.2 | 0-14" Wet, dark brown/black, medium to coarse SAND and SLAG, trace Organics, trace Brick; 14-16" |
| 12 | | | | | Wet, dark brown/black, medium to coarse SAND and SLAG, trace Organics, trace Brick, trace Silt |
| 13 | | 1-1-2-1 | 0 | - | No Recovery |
| 14 | | | | | |
| 15 | | 1-1-1-1 | 79 | 16.9 | 0-6" Wet, black, fine to coarse SAND and SLAG, trace Silt |
| 16 | CMW-37 (15-17) | | | | 6-19" Moist, olive/tan, fine SAND and SILT, some Peat/Organics |
| 17 | | 1-1-4-5 | 100 | 6.8 | 0-10" Moist, olive/tan, fine SAND and SILT, some Peat/Organics; 10-20" Gray/olive, fine SAND and |
| 18 | | | | | SILT, trace Clay; 20-24" Moist, gray, fine SAND and SILT |
| 19 | | 3-5-6-9 | 100 | 4.6 | 0-8" Moist, gray, fine SAND and SILT |
| 20 | | | | | 8-24" Moist, brown, fine to medium SAND, trace sub-round Gravel |
| 21 | | 9-9-14-15 | 83 | 2.7 | 0-20" Moist, brown/olive, fine SAND and SILT, trace Clay, trace fine round Gravel |
| 22 | | | | | |
| 23 | | 9-10-16-18 | 100 | 3.8 | 0-10" Moist, brown/olive, fine SAND and SILT, trace Clay, trace fine round Gravel |
| 24 | | | | | 10-20" Moist, orange/brown, fine to medium SAND and SILT, little Clay, trace sub-round to round Gravel; 20-24" Moist, orange/brown, fine to medium SAND and SILT, little Clay, trace sub-round to round Grave, trace Clay |
| 25 | | 7-9-9-12 | 75 | 5.4 | 0-4" Moist, orange/brown, fine to medium SAND and SILT, little Clay, trace sub-round to round Grave, |
| 26 | | | | | trace Clay; 4-18" Wet, orange/brown, medium SAND, trace fine sub-round Gravel |
| 27 | | WH-5-5-5 | 100 | 3.2 | Wet, brown, medium SAND, trace fine sub-round Gravel |
| 28 | | | | | |
| 29 | | 5-6-6-8 | 100 | 4.6 | Wet, brown, medium SAND, trace Mica |
| 30 | | | | | |
| 31 | | 5-6-5-5 | 83 | 7.2 | Wet, brown, medium SAND, trace Mica |
| 32 | | | | | |
| 33 | | 6-4-6-8 | 75 | 8.3 | Wet, brown, medium SAND, trace Mica |
| 34 | | | | | |
| 35 | | 3-3-2-5 | 83 | 6.7 | 0-17" Wet, brown, medium SAND, trace Mica; 17-20" Wet, brown, medium SAND, little sub-round to |
| 36 | | | | | round, fine Gravel, trace Cobble, trace Mica |
| 37 | | 10-10-11-10 | 92 | 2.9 | Brown, fine to medium SAND and subround to round fine GRAVEL |
| 38 | | | | | |
| 39 | | 3-5-8-10 | 67 | 1.5 | 0-10" Wet, brown, medium SAND; 10-12" Fine to medium sub-round to round GRAVEL; 12-16" |
| 40 | CMW-37 (39-41) | | | | Brown, medium SAND, trace fine round Gravel |
| 41 | | | | | **End of Boring at 41' bgs** |

**SCHEMATIC**




**COMMENTS**

**SAMPLING METHOD**
SS = SPLIT SPOON
A = AUGER CUTTINGS
C = CORED

**COMMENTS:**
0-5 ft bgs was hand cleared
5-41 ft bgs advanced with augers and split spoons

**PARSONS**
**DRILLING RECORD**

**BORING/WELL ID: CMW-38**
Sheet 1 of 1

**Contractor:** Advanced Drilling Technology (ADT)
**Driller:** Tom Sheerin
**Inspector:** Zohar Lavy
**Rig Type:** Track CME-75

**PROJECT NAME:** Consolidated Edison - Farrington Street
**PROJECT NUMBER:** 446109-03000

**Location Description:**
North side of 31st Drive, behind the Pathmark, on the corner of Farrington St.

**Location Plan**
See Site Plan

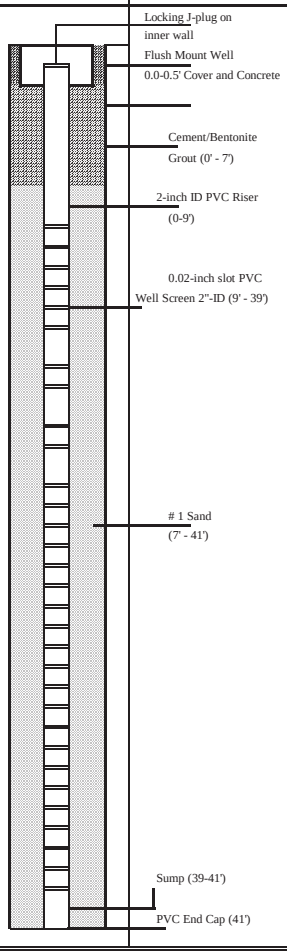
**Weather:** Partly Cloudy, Low 80s, Wind: 0-5 mph East
**Date/Time Start:** 9/27/2011 ; 1005
**Date/Time Finish:** 9/27/2011 ; 1420

GROUNDWATER OBSERVATIONS

| | | | | |
|---|---|---|---|---|
| Water Level | DTW ~ 13 ft bgs | DTW 17.42 | | |
| Date | 9/27/12 | 6/8/2015 | | |
| Time | 1040 | 1330 | | |
| Meas. From | ft bgs - Split Spoon | Top of PVC | | |

| Sample Depth | Location/ Sample I.D. | SPT | Rec. (%) | PID (ppm) | FIELD IDENTIFICATION OF MATERIAL |
|---|---|---|---|---|---|
| +1 | | | | | |
| 0 | | Vac-tron | | NA | 0-6" CONCRETE |
| 1 | | Vac-tron | | 0.0 | 6"-2' Brown fine to coarse SAND, trace Silt |
| 2 | | Vac-tron | | 0.0 | 2-7' Brown fine to coarse SAND, trace Gravel |
| 3 | | Vac-tron | | | |
| 4 | | Vac-tron | | | |
| 5 | | Vac-tron | | | |
| 6 | | Vac-tron | | | |
| 7 | | 4-4-6-5 | 75 | 2.9 | 0-14" Dry, brown, fine to medium SAND |
| 8 | | | | | 14-18" Dry/moist, brown/grey fine SAND, trace Silt |
| 9 | | 1-3-3-5 | 83 | 3.4 | 0-10" Dry/moist, brown/grey fine SAND, trace Silt |
| 10 | | | | | 10-20" Moist, brown/grey fine SAND, trace Silt, trace Mica |
| 11 | | 8-8-7-8 | 92 | 15.6 | Moist, olive/brown, fine SAND, trace Silt, trace Mica, slight hydrocarbon odor |
| 12 | | | | | |
| 13 | CMW-38 (13-15) | 4-3-6-5 | 83 | 1354 | 0-8" Moist/wet, olive/brown fine SAND, trace Silt, trace Mica, slight hydrocarbon odor |
| 14 | | | | | 8-20" Wet, dark brown/black, medium SAND, strong hydrocarbon odor, NAPL saturated |
| 15 | | 5-8-5-10 | 100 | 1284 | 0-12" Wet, dark brown/black, fine to medium SAND, strong hydrocarbon odor, NAPL |
| 16 | | | | | blebs; 12-24" Wet, dark brown/black, medium SAND, strong hydrocarbon odor, NAPL blebs to saturation |
| 17 | | 3-5-6-9 | 100 | 1038 | 0-18" Wet, grey/brown, fine to medium SAND, little Mica, trace sub-angular fine Gravel, |
| 18 | | | | | NAPL blebs, strong hydrocarbon odor; 18-24" Wet, grey, medium to coarse SAND, NAPL blebs, hydrocarbon odor |
| 19 | | 4-5-5-7 | 75 | 127 | Wet, grey, medium to coarse SAND, hydrocarbon odor |
| 20 | | | | | |
| 21 | | 5-3-5-6 | 50 | 38.7 | Wet, grey, medium to coarse SAND, trace sub-angular fine Gravel, hydrocarbon odor |
| 22 | | | | | |
| 23 | | 3-5-3-6 | 58 | 61.5 | Wet, grey/brown, medium SAND, little fine sub-round to round Gravel, hydrocarbon odor |
| 24 | | | | | |
| 25 | | 5-6-8-12 | 75 | 26.7 | 0-8" Wet, grey/brown, medium SAND, little fine sub-round to round Gravel, hydrocarbon |
| 26 | | | | | odor; 8-18" Wet, grey/brown, medium SAND, slight hydrocarbon odor |
| 27 | | 3-6-6-11 | 0 | NA | No Recovery |
| 28 | | | | | |
| 29 | | 12-12-10-11 | 0 | NA | No Recovery |
| 30 | | | | | |
| 31 | | 6-5-4-5 | 0 | NA | No Recovery |
| 32 | | | | | |
| 33 | | 3-4-6-6 | 0 | NA | No Recovery |
| 34 | | | | | |
| 35 | | 9-6-7-12 | 0 | NA | No Recovery |
| 36 | | | | | |
| 37 | | 4-6-8-10 | 50 | 4.2 | Moist, red/brown, fine to medium SAND, some Silt, trace fine sub-round to round Gravel, |
| 38 | | | | | trace Clay |
| 39 | CMW-38 (39-41) | 5-6-6-5 | 100 | 4.2 | 0-12" Moist, red/brown, fine to medium SAND, some Silt, trace fine sub-round to round |
| 40 | | | | | Gravel, trace Clay; 12-24" Moist, grey fine to medium SAND, some Silt, trace Clay |
| 41 | | | | | **End of Boring at 41' bgs** |

**SCHEMATIC**




**COMMENTS**

**SAMPLING METHOD**
SS = SPLIT SPOON
A = AUGER CUTTINGS
C = CORED

**COMMENTS:**
0-5 ft bgs was hand cleared
5-41 ft bgs advanced with augers and split spoons
NAPL encountered from 13-19 ft bgs

**PARSONS**
**DRILLING RECORD**

**BORING/WELL ID: CMW-39**
Sheet 1 of 1

**Contractor:** Advanced Drilling Technology (ADT)
**Driller:** Tom Sheerin, Bernie Cruz
**Inspector:** Rene Robles
**Rig Type:** Track Mounted Hollow Stem Auger CME 55

**PROJECT NAME:** Consolidated Edison - Farrington Street
**PROJECT NUMBER:** 446109-03000

**Location Description:** North side of 32nd Ave. between Miller and Downing

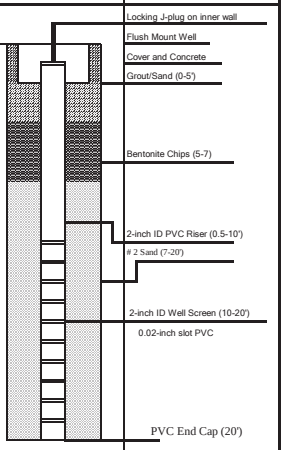
**Weather:** Cloudy, up to mid 50s, Wind: 10-20 W
**Date/Time Start:** 10/20/2011 ; 1055
**Date/Time Finish:** 10/20/2011 ; 1240

**Location Plan**
See Site Plan

| GROUNDWATER OBSERVATIONS | | | | |
|---|---|---|---|---|
| Water Level | DTW ~12 ft bgs | DTW | | |
| Date | 10-20-11 | | | |
| Time | 1137 | | | |
| Meas. From | ft bgs - Split Spoon | | | |

| Sample Depth | Location/ Sample I.D. | SPT | Rec. (%) | PID (ppm) | FIELD IDENTIFICATION OF MATERIAL |
|---|---|---|---|---|---|
| +1 | | | | | |
| | | | | | |
| 0 | | Vactron | | NA | 0-6" CONCRETE |
| 1 | | Vactron | | 0.0 | 6"-3' Dry, dark brown fine to coarse SAND, some Cobble, little subangular to round Gravel, trace Silt; |
| 2 | | Vactron | | | 3-5' Dry, dark brown fine to coarse SAND, little subangular to round Gravel, trace Silt, trace Brick; 5-8' |
| 3 | | Vactron | | | Dry, dark brown fine to coarse SAND, little subangular to round Gravel, trace Silt |
| 4 | | Vactron | | | |
| 5 | | Vactron | | | |
| 6 | | Vactron | | | |
| 7 | | Vactron | | | |
| 8 | | 3-5-6-5 | 79 | 7.2 | 0-10" Moist, grey SILT, little fine Sand; 10-19" Moist, tan, fine to medium SAND, little Silt |
| 9 | | | | | |
| 10 | | 3-5-11-13 | 42 | 6.8 | Moist, tan, fine to medium SAND, little Silt |
| 11 | | | | | |
| 12 | | 12-20-26-21 | 67 | 23.1 | 0-7" Moist, tan, fine to medium SAND, little Silt; 7-16" Wet, tan, fine to medium SAND, some fine to |
| 13 | | | | | medium Gravel, trace Silt |
| 14 | | 6-11-11-50/0" | 50 | 11.4 | Wet, tan/brown, medium to coarse SAND, trace Silt; Rock in tip |
| 15 | | | | | |
| 16 | | NA | NA | NA | Rock encountered from approximately 15.5 to 18 ft bgs |
| 17 | | | | | |
| 18 | | 5-8-11-12 | 50 | 73.9 | Moist, orange/grey SILT, little fine Sand |
| 19 | | | | | |
| 20 | | 7-10-14-9 | 50 | 45.5 | Moist, orange/grey SILT, little fine Sand |
| 21 | | | | | |
| 22 | CMW-39 (22-24) | 15-14-15-12 | 88 | 133.0 | Wet, orange/tan, fine to coarse SAND, little Silt |
| 23 | | | | | |
| 24 | | 2-8-16-23 | 38 | 46.2 | Wet, orange/tan, fine to coarse SAND, little Silt |
| 25 | | | | | |
| 26 | | 11-12-10-14 | 79 | 8.1 | Wet, orange/tan, fine to coarse SAND, little Silt |
| 27 | | | | | |
| 28 | | 6-10-13-14 | 67 | 9.5 | 0-8" Moist, red/brown SILT, some fine SAND; 8-16" Moist, grey SILT, little Clay |
| 29 | | | | | |
| 30 | | 2-3-4-6 | 8 | 0.0 | Moist, grey SILT, little Clay |
| 31 | | | | | |
| 32 | | 10-20-25-22 | 33 | 1.5 | Moist, grey SILT, little Clay |
| 33 | | | | | |
| 34 | | 32-15-24-25 | 50 | 8.2 | Wet, light brown, fine to coarse SAND, trace Silt |
| 35 | | | | | |
| 36 | | 27-10-25-30 | 33 | 9.3 | Wet, light brown, fine to coarse SAND, trace Silt |
| 37 | | | | | |
| 38 | | NA | 42 | 12.1 | Wet, light brown, fine to coarse SAND, trace Silt |
| 39 | | | | | |
| 40 | CMW-39 (40-42) | NA | 33 | 10.3 | Wet, light brown, fine to coarse SAND, trace Silt |
| 41 | | | | | |
| 42 | | | | | **End of Boring at 42 ft bgs** |

**SCHEMATIC**




**COMMENTS**

**SAMPLING METHOD**
SS = SPLIT SPOON
A = AUGER CUTTINGS
C = CORED

**COMMENTS:**
0-8 ft bgs was hand cleared
8-42 ft bgs advanced with augers and split spoons

**PARSONS**
**DRILLING RECORD**

**BORING/WELL ID: CMW-40**
Sheet 1 of 1

**Contractor:** Advanced Drilling Technology (ADT)
**Driller:** Joe McGill
**Inspector:** Rene Robles
**Rig Type:** CME-LC 50

**PROJECT NAME:** Consolidated Edison - Farrington Street
**PROJECT NUMBER:** 446109-03000

**Location Description:** East side of Farrington Street

GROUNDWATER OBSERVATIONS

| | | | | |
|---|---|---|---|---|
| Water Level | DTW ~ 16 ft bgs | DTW 16.94 | | |
| Date | 10/17/12 | 6/8/2015 | | |
| Time | 1042 | 1330 | | |
| Meas. From | ft bgs - Split Spoon | Top of PVC | | |

**Weather:** Cloudy, 60-70s, Wind 5-10 mph North

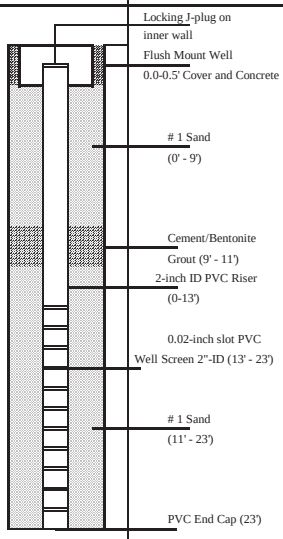
**Date/Time Start:** 10/17/2011 ; 1014

**Date/Time Finish:** 10/17/2011 ; 1340

**Location Plan**

See Site Plan

| Sample Depth | Location/ Sample I.D. | SPT | Rec. (%) | PID (ppm) | FIELD IDENTIFICATION OF MATERIAL |
|---|---|---|---|---|---|
| +1 | | | | | |
| | | | | | |
| 0 | | Vac-tron | | 0.0 | 0-10" CONCRETE and TRAP ROCK |
| 1 | | Vac-tron | | 0.0 | 10"-7' Moist, light brown, fine to medium SAND, little Silt, trace medium Gravel |
| 2 | | Vac-tron | | 0.0 | |
| 3 | | Vac-tron | | 0.0 | |
| 4 | | Vac-tron | | 0.0 | |
| 5 | | Vac-tron | | 0.0 | |
| 6 | | Vac-tron | | 0.0 | |
| 7 | | Vac-tron | | | Air Knife from 7 - 8 ft bgs |
| 8 | | 2-2-3-4 | 100 | 159.0 | Dry, light brown/tan, fine SAND, little Silt |
| 9 | | | | | |
| 10 | | 5-8-9-11 | 46 | 281.0 | Dry, light brown/tan, fine SAND, little Silt |
| 11 | | | | | |
| 12 | | 3-3-3-4 | 75 | 137.0 | 0-3" Dry, light brown/tan, fine SAND, little Silt |
| 13 | | | | | 3-18" Moist, light brown, medium to coarse SAND |
| 14 | | 5-7-6-8 | 38 | 12.1 | Moist, light brown, medium to coarse SAND |
| 15 | | | | | |
| 16 | | 5-5-8-8 | 100 | 115.0 | 0-15" Wet, brown, fine to medium SAND, little Silt; 15-24" Wet, light grey, fine to coarse |
| 17 | | | | | SAND, trace Silt, light staining, hydrocarbon odor |
| 18 | | 4-5-6-5 | 46 | 187.0 | Wet, grey, medium to coarse SAND, trace Silt, light staining, hydrocarbon odor |
| 19 | | | | | |
| 20 | | 7-6-8-7 | 100 | 157.0 | Wet, grey, medium to coarse SAND, trace Silt, light staining, hydrocarbon odor |
| 21 | | | | | |
| 22 | | 5-7-11-15 | 50 | 44.0 | Wet, grey, medium to coarse SAND, trace Silt, light staining, hydrocarbon odor |
| 23 | | | | | |
| 24 | | 3-1-1-6 | 33 | 59.1 | Wet, grey, medium to coarse SAND, trace Silt, light staining, hydrocarbon odor |
| 25 | | | | | |
| 26 | | 4-6/12" | 100 | 18.5 | Grey, medium to coarse SAND, some medium fine Gravel, hydrocarbon odor |
| 27 | | | | | |
| 28 | | 25-8-8-8 | 67 | 28.1 | Brown, fine to coarse SAND, slight hydrocarbon odor |
| 29 | | | | | |
| 30 | | 1-1-7-12 | 0 | NA | No Recovery |
| 31 | | | | | |
| 32 | | 10-6-8-9 | 67 | 158 | Wet, brown, fine to coarse SAND |
| 33 | | | | | |
| 34 | | 9-9-4-9 | 0 | NA | No Recovery |
| 35 | | | | | |
| 36 | CMW-40 (36-38) | 2-3-4-8 | 54 | 1172 | Wet, brown, fine to coarse SAND, trace Silt |
| 37 | | | | | |
| 38 | | 18-14-8-7 | 58 | 36.3 | Wet, brown fine to coarse SAND, trace Silt |
| 39 | | | | | |
| 40 | CMW-40 (40-42) | 8-9-10-10 | 100 | 10.2 | Wet, brown fine to coarse SAND, trace Silt |
| 41 | | | | | |
| 42 | | | | | **End of Boring at 42' bgs** |




**SAMPLING METHOD**
SS = SPLIT SPOON
A = AUGER CUTTINGS
C = CORED

**COMMENTS:**
0-5 ft bgs was hand cleared
5-42 ft bgs advanced with augers and split spoons

**PARSONS**
**DRILLING RECORD**

**BORING/WELL ID: MW-22**
Sheet 1 of 1

**Contractor:** Advanced Drilling Technology (ADT)
**Driller:** Chris Migliori
**Inspector:** Zohar Lavy
**Rig Type:** Track Mounted Hollow Stem Auger CME 75

**PROJECT NAME:** Con Edison /Farrington Street Works
**PROJECT NUMBER:** 446109-03000

**Location Description:**

| GROUNDWATER OBSERVATIONS | | | | |
|---|---|---|---|---|
| Water Level | DTW ~7' | DTW | | |
| Date | 2/22/2012 | | | |
| Time | 1335 | | | |
| Meas. From | ft bgs - Split Spoon | Top of Casing | | |

**Weather:** Clear, up to mid 50s, Wind: 0-5 mph West
**Date/Time Start:** 2/22/12 ; 1320
**Date/Time Finish:** 2/22/12 ; 1500

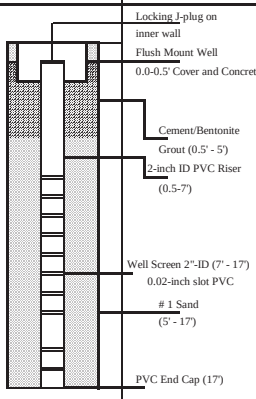
**Location Plan**

N

See Site Plan

| Sample Depth | Location/ Sample I.D. | SPT | Rec. (%) | PID (ppm) | FIELD IDENTIFICATION OF MATERIAL |
|---|---|---|---|---|---|
| +1 | | | | | |
| | | | | | |
| 0 | | Vactron | | 0.0 | 0-4" ASPHALT |
| 1 | | | | 0.0 | 4"-3' Dry, dark brown, fine to coarse SAND and COBBLE, little Plastic, little Concrete, trace Slag |
| 2 | | | | 0.0 | 3-5' Dry, dark brown, fine to coarse SAND and COBBLE, little Concrete, trace Slag |
| 3 | | | | 0.0 | |
| 4 | | | | 0.0 | |
| 5 | | 9-20-16-16 | 58 | 7.2 | 0-8" Brown, fine to coarse SAND and CONCRETE; 8-14" Moist, black, medium to coarse SAND and |
| 6 | | | | | angular GRAVEL, trace Cobble |
| 7 | | 9-10-16-11 | 25 | 8.5 | 0-2" Moist, black, medium to coarse SAND and angular GRAVEL, trace Cobble; 2-6" Wet, olive/brown, |
| 8 | | | | | fine to medium SAND, trace Silt |
| 9 | MW-22 (9-11) | 9-7-4-3 | 33 | 316 | Wet, black, angular GRAVEL, some fine to coarse Sand, little Coal, NAPL blebs, strong hydrocarbon |
| 10 | | | | | odor, sheen, staining |
| 11 | | 2-3-4-3 | 58 | 287 | Wet, black, angular GRAVEL, little medium to coarse Sand, little Coal, NAPL blebs, strong hydrocarbon |
| 12 | | | | | odor, sheen, staining |
| 13 | | 3-1-3-2 | 33 | 113 | 0-6" Wet, black, angular GRAVEL, little medium to coarse Sand, little Coal, strong hydrocarbon odor, |
| 14 | | | | | sheen, staining; 6-8" Wet, red/brown, fine to medium SAND and PEAT, little angular to subangular fine to medium Gravel |
| 15 | | 2-2-2-2 | 42 | 34.6 | 0-8" Wet, red/brown, fine to medium SAND and PEAT, little angular to subangular fine to medium |
| 16 | | | | | Gravel, staining; 8-10" Wet, grey SILT, trace Organics |
| 17 | MW-22 (17-19) | WH-WH-WH-WH | 33 | 18.7 | Wet, grey SILT, trace Organics, trace Clay |
| 18 | | | | | |
| 19 | | | | | **End of Boring at 19' bgs** |

**SCHEMATIC**




**COMMENTS**

**SAMPLING METHOD**
SS = SPLIT SPOON
A = AUGER CUTTINGS
C = CORED

**COMMENTS:**
0-5 ft bgs was hand cleared
5-19 ft bgs advanced with augers and split spoons
NAPL blebs from 9-13 ft bgs, Hydrocarbon fingerprinting was done for interval 11-13.

**PARSONS**
**DRILLING RECORD**

**BORING/WELL ID: MW-23**
Sheet 1 of 1

**Contractor:** Advanced Drilling Technology (ADT)
**Driller:** Tom Sheerin, German Torres
**Inspector:** Zohar Lavy
**Rig Type:** Track Mounted Hollow Stem Auger (CME 55)

**PROJECT NAME:** Consolidated Edison - Farrington Street
**PROJECT NUMBER:** 446109-03000

**Location Description:**

GROUNDWATER OBSERVATIONS

| | | | | |
|---|---|---|---|---|
| Water Level | ~10' | | | |
| Date | 9/1/2011 | | | |
| Time | 1005 | | | |
| Meas. From | ft bgs - Split Spoon | | | |

**Weather:** Clear, mid 70s-80s, Wind: 0-5 mph East

**Date/Time Start:** 09/1/11 0945

**Date/Time Finish:** 09/1/11 1345

See Site Plan

| Sample Depth | Sample I.D. | SPT | Rec. (%) | PID (ppm) | TION OF MATERIAL | COMMENTS |
|---|---|---|---|---|---|---|
| +1 | | | | | | |
| | | | | | | |
| 0 | | Vac-tron | | NA | 0-4" CONCRETE | |
| 1 | | Vac-tron | | 0.0 | 4"-3' Moist, dark brown, fine to coarse SAND, some Gravel, little Cobble | |
| 2 | | Vac-tron | | 0.0 | 3-5' Moist, dark brown, fine to coarse SAND, some Gravel, little Cobble, trace Boulder and Brick | |
| 3 | | Vac-tron | | 0.0 | | |
| 4 | | Vac-tron | | 0.0 | | |
| 5 | | 7-10-12-13 | 0 | NA | No Recovery | |
| 6 | | | | | | |
| 7 | | 5-5-7-10 | 58 | 18.2 | 0-8" Moist, dark brown, fine to coarse SAND, little Silt, little angular to sub-angular fine Gravel, slight hydrocarbon odor; 8-14" Dry to moist, black, fine SAND and COAL, trace angular Gravel, hydrocarbon odor and staining | |
| 8 | | | | | | |
| | | | | | | |
| 9 | | 5-6-8-6 | 42 | 85.6 | 0-8" Dry to moist, black, fine SAND and COAL, trace angular Gravel, trace Concrete, hydrocarbon odor and staining; 8-10"Dry to moist, black, fine SAND and COAL, trace angular Gravel, trace Concrete, trace Organics and Silt, hydrocarbon odor and staining | |
| 10 | | | | | | |
| | | | | | | |
| 11 | | 7-5-2-2 | 75 | 152.0 | 0-10" Wet, black, fine SAND, some Silt and angular Gravel, little Organics, hydrocarbon odor, slight sheen; 10-18" Orange/brown PEAT, hydrocarbon odor, staining | |
| 12 | | | | | | |
| 13 | | WH-WH-1-1 | 0 | NA | No Recovery | |
| 14 | | | | | | |
| 15 | | WH-WH-10-6 | 50 | 88.7 | 0-6" Wet, black, fine SAND and SILT, some Peat, hydrocarbon odor; 6-12" Moist, light gray, fine SAND, little Silt, trace fine round Gravel, slight hydrocarbon odor | |
| 16 | | | | | | |
| 17 | | 4-10-15-10 | 58 | 18.5 | 0-7" Wet, gray/light brown, fine SAND and SILT | |
| 18 | | | | | 7-14" Moist, gray/light brown, fine SAND, little Silt | |
| 19 | | 4-5-7-6 | 75 | 29.2 | 0-5" Moist, gray/light brown, fine SAND, little silt; 5-16" Wet, brown, fine to coarse SAND, trace Silt, slight hydrocarbon odor; 16-18" Wet, brown, fine to coarse SAND, trace Silt, slight Hydrocarbon odor, sheen | |
| 20 | | | | | | |
| 21 | MW-23 (21-23) | 5-10-10-9 | 100 | 486.0 | 0-12" Wet, brown, fine to medium SAND, trace silt, strong hydrocarbon odor, staining, NAPL blebs, sheen; 12-24" Wet, black, medium SAND, strong hydrocarbon odor, staining, NAPL saturated | |
| 22 | | | | | | |
| 23 | | 15-11-15-14 | 83 | 21.2 | 0-20" Wet, brown, fine to medium SAND, slight sheen, hydrocarbon odor | |
| 24 | | | | | | |
| 25 | | 10-8-7-8 | 92 | 25.5 | Wet, brown, fine to medium SAND, slight sheen, slight hydrocarbon odor | |
| 26 | | | | | | |
| 27 | | 10-12-12-12 | 67 | 22.1 | 0-5" Wet, brown, fine to medium SAND, slight sheen, slight hydrocarbon odor | |
| 28 | | | | 1.8 | 5-16" Moist, brown, fine to medium SAND, trace Silt, trace Mica | |
| 29 | | 7-7-7-8 | 50 | 5.8 | Moist, brown, fine SAND, trace Silt, trace Mica | |
| 30 | | | | | | |
| 31 | | 12-15-18-17 | 100 | 2.3 | 0-10" Moist, brown, fine SAND, trace Silt, trace Mica | |
| 32 | | | | 1.6 | 10-24" Orange/brown, fine SAND and SILT, trace round Gravel | |
| 33 | | 4-7-10-21 | 33 | 4.2 | Orange/brown, fine SAND and SILT, trace round Gravel, trace Clay | |
| 34 | | | | | | |
| 35 | | 4-8-10-6 | 100 | 3.9 | Brown/dark gray, fine SAND and SILT, some Clay, trace round fine Gravel | |
| 36 | | | | | | |
| 37 | | 5-8-8-8 | 100 | 18.3 | Brown/dark gray, fine to medium SAND and SILT, little Clay, trace round fine Gravel | |
| 38 | | | | | | |
| 39 | MW-23 (39-41) | 10-8-10-10 | 75 | 1.5 | 0-6" Brown/dark gray, fine to medium SAND and SILT, little Clay, trace round fine Gravel | |
| 40 | | | | | 6-18" Wet, dark brown/gray, fine to medium SAND | |
| 41 | | | | | **End of Boring at 41 ft bgs** | |

**SAMPLING METHOD**
WH = WEIGHT OF RODS
HC = HAND CLEARED
VC = VACUUM CLEARED
GP = GEOPROBE/DIRECT PUSH

**COMMENTS:**
Boring was hand cleared to 5' bgs; Hollow stem auger and split-spoon from 5' to 41' bgs
NAPL encountered from approximately 21 to 23 ft bgs
Monitoring well not installed at this location

**PARSONS**
**DRILLING RECORD**

**BORING/WELL ID: MW-24**
Sheet 1 of 1

**Contractor:** Advanced Drilling Technology (ADT)
**Driller:** Tom Sheerin, German Torres
**Inspector:** Zohar Lavy
**Rig Type:** Track Mounted Hollow Stem Auger (CME 55)

**PROJECT NAME:** Con Edison /Farrington Street Works
**PROJECT NUMBER:** 446109-03000

**Location Description:** North sidewalk of 31st Drive.

**Location Plan**
See Site Plan

| GROUNDWATER OBSERVATIONS | | | | |
|---|---|---|---|---|
| Water Level | ~15' | | | |
| Date | 8/30/2011 | | | |
| Time | 940 | | | |
| Meas. From | ft bgs - Split Spoon | | | |

**Weather:** Clear, 70s, Wind: 0-5 mph South
**Date/Time Start:** 08/30/11 0900
**Date/Time Finish:** 08/31/11 1330

| Sample Depth | Sample I.D. | SPT | Rec. (%) | PID (ppm) | FIELD IDENTIFICATION OF MATERIAL | SCHEMATIC (drawing not to scale) | COMMENTS |
|---|---|---|---|---|---|---|---|
| +1 | | | | | | | |
| | | | | | | | |
| 0 | | Vac-tron | | NA | 0-4" CONCRETE | | |
| 1 | | Vac-tron | | 0.0 | 4-24" Brown, fine to coarse SAND and sub-angular GRAVEL, some Cobble, little Brick | | |
| 2 | | Vac-tron | | 0.0 | 24-60" Brown, fine to coarse SAND and sub-angular GRAVEL, some Cobble, little Brick, | | |
| 3 | | Vac-tron | | 0.0 | trace Boulder | | |
| 4 | | Vac-tron | | 0.0 | | | |
| 5 | | 5-5-20-10 | 50 | 0.0 | 0-8" Dry, dark brown, fine to coarse SAND, little sub-angular to round fine Gravel, trace Silt; | | |
| 6 | | | | | 8-12" Moist, dark brown, fine to coarse SAND, little sub-angular to round fine Gravel, trace Silt | | |
| 7 | | 30-50/2 | 25 | 2.7 | Wet, black, fine to coarse SAND, some angular to sub-round fine Gravel, trace Silt | | |
| 8 | | | | | | | |
| 9 | | 18-10-21-28 | 25 | 1.5 | 0-3" Moist, brown, medium SAND, some angular Gravel and Concrete | | |
| 10 | | | | | 3-6" Moist, brown, medium SAND, little sub-angular fine Gravel, hydrocarbon odor | | |
| 11 | | 17-26-24-28 | 58 | 126.0 | 0-8" Moist, brown, medium SAND, strong hydrocarbon odor | | |
| 12 | | | | | 8-14" Moist, brown, medium SAND, black staining, hydrocarbon odor | | |
| 13 | | 5-6-6-7 | 100 | 226.0 | 0-10" Moist, dark brown, fine to medium SAND, trace Silt, trace Mica, black staining, strong | | |
| 14 | | | | | hydrocarbon odor; 10-24" Wet, brown/tan, medium SAND, strong hydrocarbon odor | | |
| 15 | | 3-4-5-6 | 67 | 238.0 | Wet, dark brown, fine to medium SAND, trace Silt, hydrocarbon odor, staining | | |
| 16 | | | | | | | |
| 17 | MW-24 (17-19) | 5-7-7-7 | 58 | 245.0 | Wet, dark brown/gray, fine to medium SAND, hydrocarbon odor and staining | | |
| 18 | | | | | | | |
| 19 | | 4-4-3-4 | 67 | 39.8 | Wet, dark brown, medium to coarse SAND, trace sub-round to round fine Gravel, slight | | |
| 20 | | | | | hydrocarbon odor | | |
| 21 | | 7-12-10-10 | 75 | 14.2 | 0-6" Wet, dark brown, medium to coarse SAND, trace sub-round to round fine Gravel, slight | | |
| 22 | | | | | hydrocarbon odor; 6-18" Moist, dark brown, fine SAND, trace Silt, trace Mica, slight hydrocarbon odor | | |
| 23 | | 4-4-3-2 | 0 | NA | No Recovery | | |
| 24 | | | | | | | |
| 25 | | 13-7-4-5 | 58 | 30.0 | Wet, brown, medium to coarse SAND, slight hydrocarbon odor | | |
| 26 | | | | | | | |
| 27 | | 10-6-6-9 | 75 | 46 | Wet, brown/gray, medium to coarse SAND, slight hydrocarbon odor | | |
| 28 | | | | | | | |
| 29 | | 14-5-6-6 | 83 | 15 | Wet, brown/gray, medium to coarse SAND, slight hydrocarbon odor | | |
| 30 | | | | | | | |
| 31 | | 16-20-14-16 | 0 | NA | No Recovery | | |
| 32 | | | | | | | |
| 33 | | 15-18-18-19 | 0 | NA | No Recovery | | |
| 34 | | | | | | | |
| 35 | | 16-16-12-16 | 100 | 14.5 | Wet, dark brown, medium to coarse SAND, slight hydrocarbon odor | | |
| 36 | | | | | | | |
| 37 | | 17-12-12-16 | 100 | 294 | 0-16" Dark brown, medium SAND, hydrocarbon odor | | |
| 38 | MW-24 (38-40) | | | | 16-20" Dark brown, medium SAND, NAPL saturated; 20-24" Wet, dark brown, fine SAND, NAPL blebs | | Primarily Heaving Sands (material pushed out of augers; begin sampling at 38 ft bgs) |
| 39 | | 17-16-22-45 | 100 | 192 | 0-8" Wet, dark brown, fine SAND, NAPL blebs | | |
| 40 | | | | 2.5 | 8-24" Orange/brown, fine SAND and SILT, little clay, trace round fine Gravel | | |
| 41 | MW-24 (41-42) | | | | | | |
| 42 | | | | | **End of Boring at 42 ft bgs** | | |

**SAMPLING METHOD**
WH = WEIGHT OF RODS
HC = HAND CLEARED
VC = VACUUM CLEARED
GP = GEOPROBE/DIRECT PUSH

**COMMENTS:**
Boring was hand cleared to 5' bgs; Hollow stem auger from 5' to 40' bgs
NAPL encountered from approximately 38 to 40 ft bgs
Monitoring well not installed in this location

**PARSONS**
**DRILLING RECORD**

**BORING/WELL ID: MW-25**
Sheet 1 of 1

**Contractor:** Advanced Drilling Technology (ADT)
**Driller:** Tom Sheerin/German Terres
**Inspector:** Zohar Lavy
**Rig Type:** Track Mounted Hollow Stem Auger CME 55

**PROJECT NAME:** Consolidated Edison - Farrington Street
**PROJECT NUMBER:** 446109-03000

**Location Description:**

**Location Plan**

N

See Site Plan

**Weather:** Overcast, cloudy, up to mid 70s, 5-10 mph North East

**Date/Time Start:** 9/20/2011 ; 0905

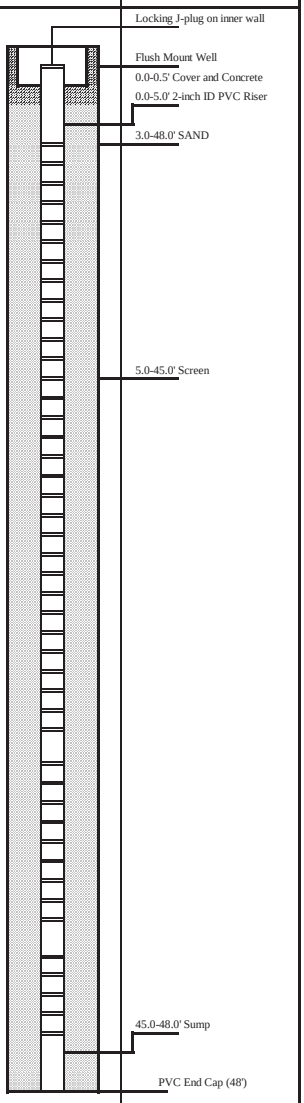
**Date/Time Finish:** 9/21/2011 ; 1445

GROUNDWATER OBSERVATIONS

| | | | | |
|---|---|---|---|---|
| Water Level | DTW ~26' | DTW 12.77 | | |
| Date | 9/20/2011 | 6/8/2015 | | |
| Time | 1320 | 1200 | | |
| Meas. From | ft bgs - Split Spoon | Top of PVC | | |

| Sample Depth | Location/ Sample I.D. | SPT | Rec. (%) | PID (ppm) | FIELD IDENTIFICATION OF MATERIAL |
|---|---|---|---|---|---|
| +1 | | | | | |
| | | | | | |
| 0 | | Vac-tron | | 0.0 | 0-3' Dry, dark brown, fine to coarse SAND, some fine to coarse sub-angular to round Gravel and Brick |
| 1 | | Vac-tron | | 0.0 | |
| 2 | | Vac-tron | | 0.0 | 3-6' Moist, dark brown, fine to coarse SAND, some fine to coarse sub-angular to round Gravel and Brick |
| 3 | | Vac-tron | | 0.0 | |
| 4 | | Vac-tron | | 0.0 | |
| 5 | | 3-2-1-1 | 0 | - | No Recovery |
| 6 | | | | | |
| 7 | | 1-1-1-1 | 0 | - | No Recovery |
| 8 | | | | | |
| 9 | | 3-3-8-12 | 33 | 185 | 0-3" Dry, tan, medium SAND and angular GRAVEL |
| 10 | | | | | 3-8" Moist, black, medium SAND, staining, strong hydrocarbon odor, sheen, NAPL blebs |
| 11 | | 9-14-16-10 | 75 | 567 | 0-12" Moist, black, fine to medium SAND, trace Silt, strong hydrocarbon odor, sheen, NAPL blebs-saturation; 12-18" Tan/brown, medium SAND, trace fine round Gravel, strong hydrocarbon odor, yellow NAPL blebs |
| | | | | | |
| 12 | | | | | |
| 13 | | 3-4-5-4 | 67 | 595 | 0-4" Tan/brown, medium SAND, trace fine round Gravel, strong hydrocarbon odor, yellow NAPL blebs; 4-16" Tan/brown, medium SAND, trace fine round Gravel, trace Silt, trace Mica, strong hydrocarbon odor, yellow NAPL blebs |
| | MW-25 (13-15) | | | | |
| 14 | | | | | |
| 15 | | 3-5-5-7 | 83 | 449 | 0-6" Tan/brown, medium SAND, trace fine round Gravel, trace Silt, trace Mica, strong hydrocarbon odor, yellow NAPL blebs, sheens |
| | | | | | |
| 16 | | | | | 6-20" Gray, fine to medium SAND, strong hydrocarbon odor and sheens |
| 17 | | 4-5-5-5 | 100 | 101 | Gray, fine to medium SAND, strong hydrocarbon odor and sheens |
| 18 | | | | | |
| 19 | | 4-6-8-8 | 100 | 108.0 | 0-12" Gray, fine to medium SAND, slight hydrocarbon odor and sheens |
| 20 | | | | | 12-24" Moist, olive/brown, fine SAND, trace Silt, trace Mica, slight hydrocarbon odor |
| 21 | | 8-10-10-11 | 83 | 51.5 | Moist, olive/brown, fine SAND, trace Silt, trace Mica, slight hydrocarbon odor |
| 22 | | | | | |
| 23 | | 6-5-4-5 | 67 | 68.7 | Moist, olive/brown, fine SAND, trace Silt, trace Mica, slight hydrocarbon odor |
| 24 | | | | | |
| 25 | | 5-9-11-10 | 67 | 10.5 | 0-13" Moist, brown, fine SAND, trace Silt, trace Mica |
| 26 | | | | | 13-16" Wet, brown medium to coarse SAND |
| 27 | | 6-6-7-10 | 100 | 61.2 | 0-18" Moist, brown, fine to medium SAND, trace Silt, trace Mica, slight hydrocarbon odor |
| 28 | | | | | 18-24" Wet, black, medium SAND, staining, hydrocarbon odor, NAPL blebs |
| 29 | | 6-5-7-10 | 42 | 389 | Wet, black, medium SAND, staining, hydrocarbon odor, NAPL saturated |
| 30 | | | | | |
| 31 | | 8-9-8-10 | 100 | 776 | 0-12" Wet, black, medium SAND, trace Silt, staining, hydrocarbon odor, NAPL blebs |
| 32 | MW-25 (31-33) | | | | 12-24" Moist, black, fine to medium SAND, trace Silt, trace sub-angular to round Gravel, hydrocarbon odor, NAPL blebs |
| 33 | | 8-10-13-15 | 25 | 48.3 | 0-6" Gray/brown, fine SAND, little Silt, trace fine sub-round Gravel |
| 34 | | | | | |
| 35 | | 19-20-20-19 | 67 | 14.5 | Wet, brown/orange, fine to medium SAND, trace Silt, trace sub-round to round Gravel |
| 36 | | | | | |
| 37 | | 23-30-29-31 | 100 | 15.5 | Moist, red/brown, fine to medium SAND, some Silt, little fine to medium sub-round to round Gravel, trace Mica |
| 38 | | | | | |
| 39 | | 34-45-49-49 | 33 | 24.8 | (Rock from 40-41' - Auger through) |
| 40 | | | | | |
| 41 | | 6-8-7-9 | 75 | 419 | 0-12" Moist, olive/brown, fine to medium SAND, trace Silt, trace angular Gravel/Cobble, hydrocarbon odor, sheen, NAPL blebs; 12-18" Wet, olive/dark gray, medium SAND, trace angular Gravel, staining, strong hydrocarbon odor, NAPL blebs-saturation |
| 42 | | | | | |
| 43 | | 6-6-7-6 | 100 | 445 | 0-12" Wet, dark gray, medium to coarse SAND, trace fine round Gravel, hydrocarbon odor, NAPL saturated; 12-24" Moist, yellow/brown, fine to medium SAND, little Silt, trace sub-angular to round fine gravel |
| | MW-25 (43-45) | | | | |
| 44 | | | | | |
| 45 | | 5-4-6-8 | 13 | - | Moist, yellow/brown, fine to medium SAND, little Silt, trace fine round Gravel, slight hydrocarbon odor |
| 46 | | | | | |
| 47 | | - | 21 | - | Moist, yellow/brown, fine to medium SAND, little Silt, trace fine round Gravel, slight hydrocarbon odor |
| 48 | | | | | |
| 49 | | 10-10-8-11 | 100 | 65.9 | 0-18" Wet, dark gray, fine to coarse SAND, trace Silt, slight hydrocarbon odor |
| 50 | | | | 0.8 | 18-24" Wet, yellow/brown, fine SAND, little Silt, trace round fine to medium Gravel |
| 51 | | 6-5-5-7 | 100 | 7.7 | 0-18" Wet, dark gray, fine to medium SAND, trace Silt, slight hydrocarbon odor |
| 52 | | | | | 18-24" Wet, yellow/brown, fine SAND, some Silt, trace round fine Gravel |
| 53 | MW-25 (53-55) | 12-10-13-10 | 100 | 1.7 | 0-6" Wet, dark gray, fine to coarse SAND, trace Silt |
| 54 | | | | | 6-24" Wet, brown, fine SAND, trace Clay, trace Mica, trace round fine Gravel |
| 55 | | | | | **End of Boring at 55 ft bgs** |

**SCHEMATIC**




**COMMENTS**

**SAMPLING METHOD**
WH = WEIGHT OF RODS
HC = HAND CLEARED
VC = VACUUM CLEARED
GP = GEOPROBE/DIRECT PUSH

**COMMENTS:**
Boring was hand cleared to 6' bgs; Hollow stem auger from 5' to 55' bgs
NAPL encountered from approximately 9-16 ft bgs; 27.5-33 ft bgs; and 41-44 ft bgs

**PARSONS**
**DRILLING RECORD**

**BORING/WELL ID: MW-26**

Sheet 1 of 1

**Contractor:** Advanced Drilling Technology (ADT)
**Driller:** Tom Sheerin/German Terres
**Inspector:** Zohar Lavy
**Rig Type:** Track Mounted Hollow Stem Auger CME 55

**PROJECT NAME:** Consolidated Edison - Farrington Street
**PROJECT NUMBER:** 446109-03000

**Location Description:**

| GROUNDWATER OBSERVATIONS | | | | |
|---|---|---|---|---|
| Water Level | DTW | DTW ~12' | | |
| Date | | 8/25/2011 | | |
| Time | | 1120 | | |
| Meas. From | ft bgs - Split Spoon | Top of Casing | | |

**Weather:** Overcast, cloudy, 70s, 5-10 mph North East

**Date/Time Start:** 08/25/11 1100

**Date/Time Finish:** 08/25/11 1505

**Location Plan**

N

See Site Plan

| Sample Depth | Location/ Sample I.D. | SPT | Rec. (%) | PID (ppm) | FIELD IDENTIFICATION OF MATERIAL | SCHEMATIC | COMMENTS |
|---|---|---|---|---|---|---|---|
| +1 | | | | | | | A Vac-Truck was utilized from 5 to 8 ft bgs therefore lithology was not identified |
| | | | | | | | |
| 0 | | | | | 0-10" CONCRETE | | |
| 1 | | | | 0.0 | 10-4' Moist, brown, fine to coarse SAND, little fine to medium Gravel | | |
| 2 | | | | 0.0 | 4-5' Moist, brown, fine to coarse SAND, little fine to coarse round Gravel, trace Silt | | |
| 3 | | | | | | | |
| 4 | | | | | | | |
| 5 | | Vac-Truck | | | | | |
| 6 | | Vac-Truck | | | | | |
| 7 | | Vac-Truck | | | | | |
| 8 | | 5-8-12-22 | 83 | 0.0 | 0-10" Dry, light brown, fine to coarse SAND, little sub-round to round Gravel | | |
| 9 | | | | | 10-20" Dry, dark brown, fine to coarse SAND, little sub-round to round Gravel | | |
| 10 | | 11-20-20-18 | 33 | 109.0 | 0-8" Moist, black, medium to coarse SAND, little sub-round to round fine Gravel, hydrocarbon | | |
| 11 | | | | | odor and staining, NAPL blebs | | |
| 12 | MW-26 (12-14) | 7-7-8-6 | 67 | 285.0 | 0-10" Wet, black, medium to coarse SAND, little sub-round to round fine Gravel, hydrocarbon odor and | | |
| | | | | | staining, NAPL blebs | | |
| 13 | | | | | 10-16" Wet, black, fine to medium SAND, little sub-round to round Gravel, NAPL saturated, strong | | |
| | | | | | hydrocarbon odor, sheen, staining | | |
| 14 | | 7-7-4-6 | 75 | 27.5 | 0-8" Wet, brown, medium to coarse SAND, little fine sub-angular Gravel, slight hydrocarbon odor | | |
| 15 | | | | | 8-18" Wet, light brown/tan, medium to coarse SAND, trace fine sub-angular Gravel | | |
| 16 | | 7-9-9-10 | 75 | 26.5 | 0-14" Wet, light brown/tan, medium to coarse SAND, trace fine sub-angular Gravel | | |
| 17 | | | | | 14-18" Wet, dark brown/black, medium to coarse SAND, trace fine sub-angular Gravel | | |
| 18 | | 31-21-21-36 | 67 | 36.4 | 0-14" Wet, light brown, medium to coarse SAND, trace sub-round Gravel; 14-16" Wet, black, fine | | |
| 19 | | | | | to medium SAND, some fine sub-angular to round Gravel, slight hydrocarbon odor | | |
| 20 | | 30-28-40-35 | 75 | 119.0 | 0-12" Wet, black fine to coarse SAND, trace sub-angular Gravel, NAPL saturated, strong | | |
| 21 | | | | | hydrocarbon odor and staining; 12-18" Wet, black, fine to coarse SAND, NAPL saturated, strong | | |
| | | | | | hydrocarbon odor and staining, sheens | | |
| 22 | MW-26 (22-24) | 12-15-17-21 | 100 | 154.0 | 0-14" Wet, black, fine to coarse SAND, NAPL saturated, strong hydrocarbon odor and staining, | | |
| 23 | | | | | sheens; 14-24" Wet, orange/brown, fine to medium SAND, little Silt, trace Mica, slight hydrocarbon odor | | |
| | | | | | | | |
| 24 | | 12-16-18-20 | 75 | 146.0 | 0-12" Wet, black fine to coarse SAND, strong hydrocarbon odor, sheen, staining, NAPL blebs | | |
| 25 | | | | | 12-18" Wet, brown, medium to coarse SAND, hydrocarbon odor, sheen | | |
| 26 | MW-26 (26-28) | 13-15-18-24 | 100 | 3.2 | 0-10" Wet, brown, medium to coarse SAND, hydrocarbon odor, sheen; 10-24" Moist, orange/ | | |
| 27 | | | | | brown, fine to medium SAND, some Silt, trace Clay, trace rounded fine Gravel | | |
| 28 | | 28-34-29-45 | 100 | Error | Moist, orange/brown fine to medium SAND, some Silt, trace Clay, trace rounded fine Gravel | | |
| 29 | | | | | | | |
| 30 | | | | | **End of Boring at 30 ft bgs** | | |

**SAMPLING METHOD**
SS = SPLIT SPOON
A = AUGER CUTTINGS
C = CORED

**COMMENTS:**
Boring was hand cleared to 5 ft bgs; Air knife/vac-truck to 8' bgs; Auger and split spoon to 30' bgs
No monitoring well installed at this location
NAPL encountered from approximately 10-14 ft bgs and 20-25 ft bgs. Hydrocarbon fingerprinting done for intervals 12-14 and 20-22.

**PARSONS**
**DRILLING RECORD**

**BORING/WELL ID: MW-27**
Sheet 1 of 1

**Contractor:** Advanced Drilling Technology (ADT)
**Driller:** Tom Sheerin/German Terres
**Inspector:** Zohar Lavy
**Rig Type:** Track Mounted Hollow Stem Auger CME 55

**PROJECT NAME:** Consolidated Edison - Farrington Street
**PROJECT NUMBER:** 446109-03000

**Location Description:**

**Location Plan**

N

See Site Plan

**Weather:** Partly Cloudy, High 60s, Wind: 0-5 mph E

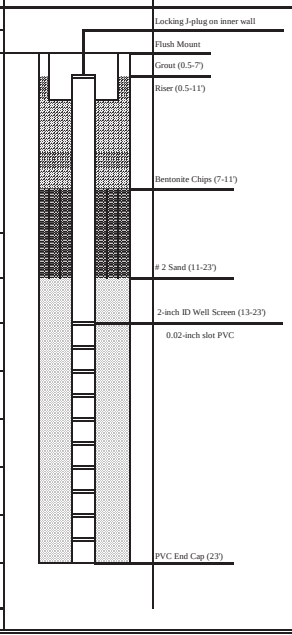
**Date/Time Start:** 09/15/2011 1015

**Date/Time Finish:** 09/15/2011 1200

| GROUNDWATER OBSERVATIONS | | | | |
|---|---|---|---|---|
| Water Level | DTW ~15' | DTW 12.46 | | |
| Date | 09/15/2011 | 6/8/2015 | | |
| Time | 1105 | 1200 | | |
| Meas. From | ft bgs - Split Spoon | Top of PVC | | |

| Sample Depth | Location/ Sample I.D. | SPT | Rec. (%) | PID (ppm) | FIELD IDENTIFICATION OF MATERIAL |
|---|---|---|---|---|---|
| +1 | | | | | |
| | | | | | |
| 0 | | Vac-tron | | 0.0 | 0-6" CONCRETE; 6-12" ASPHALT |
| 1 | | Vac-tron | | 0.0 | 1-9' Dry, brown medium SAND, some sub-angular to round fine to coarse Gravel |
| 2 | | Vac-tron | | 0.0 | |
| 3 | | Vac-tron | | 0.0 | |
| 4 | | Vac-tron | | 0.0 | |
| 5 | | Vac-tron | | 0.0 | |
| 6 | | Vac-tron | | 0.0 | |
| 7 | | Vac-tron | | 0.0 | |
| 8 | | Vac-tron | | 0.0 | |
| 9 | | 5-3-5-7 | 25 | 1.5 | Moist, dark brown, fine to coarse SAND, little sub-angular to round Gravel |
| 10 | | | | | |
| 11 | | 12-12-10-9 | 0 | - | No Recovery |
| 12 | | | | | |
| 13 | MW-27 (13-15) | 2-3-5-6 | 67 | 2.6 | Moist, dark brown fine SAND, trace Silt, trace Mica |
| 14 | | | | | |
| 15 | | 2-5-5-8 | 83 | 1.9 | 0-6" Wet, brown medium to coarse SAND, some fine sub-round to round Gravel |
| 16 | | | | | 6-20" Moist, brown, fine SAND, little Silt, trace Mica |
| 17 | | 10-15-12-12 | 100 | 2.2 | 0-12" Moist, brown, fine SAND, little Silt, trace Mica |
| 18 | | | | | 12-24" Wet, orange/dark brown, medium SAND |
| 19 | | WH-2-5-5 | 100 | 1.5 | 0-18" Wet, brown, fine SAND, trace Silt |
| 20 | | | | | 18-24" Wet, orange/brown, medium SAND |
| 21 | | 3-5-5-9 | 100 | 1.9 | Wet, orange/brown, medium SAND |
| 22 | | | | | |
| 23 | MW-27 (23-25) | 3-6-5-4 | 100 | 0.9 | Wet, orange/brown, fine to medium SAND, trace Mica |
| 24 | | | | | |
| 25 | | | | | **End of Boring at 25' bgs** |

**SCHEMATIC**




**COMMENTS**

**SAMPLING METHOD**
SS = SPLIT SPOON
A = AUGER CUTTINGS
C = CORED

**COMMENTS:**
Boring was hand cleared to 9 ft bgs; Auger and spilt spoon to 25 ft bgs

**PARSONS**
**DRILLING RECORD**

**BORING/WELL ID: MW-28**

Sheet 1 of 1

**Contractor:** Advanced Drilling Technology (ADT)
**Driller:** Tom Sheerin/German Terres
**Inspector:** Zohar Lavy
**Rig Type:** Track Mounted Hollow Stem Auger CME 55

**PROJECT NAME:** Consolidated Edison - Farrington Street
**PROJECT NUMBER:** 446109-03000

**Location Description:**

| GROUNDWATER OBSERVATIONS | | | | |
|---|---|---|---|---|
| Water Level | DTW ~13' | DTW 13.73 | | |
| Date | 09/16/2011 | 6/8/2015 | | |
| Time | 1200 | 1200 | | |
| Meas. From | ft bgs - Split Spoon | Top of PVC | | |

**Weather:** Clear, Low to High 60s

**Date/Time Start:** 09/16/2011 1415

**Date/Time Finish:** 09/16/11 1300

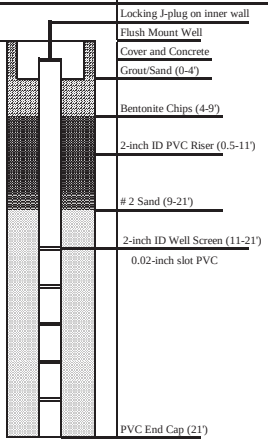
**Location Plan**

N

See Site Plan

| Sample Depth | Location/ Sample I.D. | SPT | Rec. (%) | PID (ppm) | FIELD IDENTIFICATION OF MATERIAL |
|---|---|---|---|---|---|
| +1 | | | | | |
| | | | | | |
| 0 | | Vac-tron | | | 0-1' CONCRETE |
| 1 | | Vac-tron | | 0.0 | 1-7.5' Moist, brown fine to coarse SAND, little coarse to fine round Gravel, trace Silt |
| 2 | | Vac-tron | | 0.0 | |
| 3 | | Vac-tron | | 0.0 | |
| 4 | | Vac-tron | | 0.0 | |
| 5 | | Vac-tron | | 0.0 | |
| 6 | | Vac-tron | | 0.0 | |
| 7 | | 5-3-2-2 | 0 | - | No Recovery |
| 8 | | | | | |
| 9 | | 5-7-9-9 | 58 | 2.1 | Dry, orange/brown, medium SAND, trace angular Gravel, trace Cobble |
| 10 | | | | | |
| 11 | MW-28 (11-13) | 12-9-10-10 | 75 | 3.7 | 0-6" Dry, orange/brown, medium SAND, little sub-angular to round Gravel, trace Cobble; 6-18" Moist, dark brown/orange, medium SAND, trace sub-round Gravel |
| 12 | | | | | |
| 13 | | 5-6-7-6 | 92 | 1.5 | Wet, orange/brown, fine to medium SAND, trace Silt |
| 14 | | | | | |
| 15 | | 2-4-5-9 | 83 | 3.2 | 0-8" Wet, dark brown, fine to medium SAND |
| 16 | | | | | 8-20" Moist, dark brown, fine to medium SAND, trace Silt |
| 17 | | 14-15-17-18 | 100 | 2.6 | Moist, dark brown, fine to medium SAND, trace Silt, trace Mica |
| 18 | | | | | |
| 19 | | 9-6-5-6 | 100 | 1.5 | 0-18" Wet, dark brown.orange, medium to coarse SAND, some fine sub-angular to round Gravel |
| 20 | | | | | 18-24" Wet, dark brown.orange fine to medium SAND, trace Silt, trace Mica |
| 21 | | 12-14-14-12 | 100 | 2.1 | 0-16" Wet, dark brown/orange, medium to coarse SAND, some fine to coarse sub-round to round Gravel; 16-24" Moist, dark tan medium SAND |
| 22 | | | | | |
| 23 | MW-28 (23-25) | 10-9-8-4 | 83 | 1.9 | Moist, dark tan medium SAND, little sub-round to round Gravel |
| 24 | | | | | |
| 27 | | | | | **End of Boring at 25' bgs** |

**SCHEMATIC**




**COMMENTS**

**SAMPLING METHOD**
SS = SPLIT SPOON
A = AUGER CUTTINGS
C = CORED

**COMMENTS:**
Boring was hand cleared to 7.5' bgs. Auger and split spoon from 7.5 to 25 ft bgs.

**PARSONS**
**DRILLING RECORD**

**BORING/WELL ID: MW-29**
Sheet 1 of 1

**Contractor:** Advanced Drilling Technology (ADT)
**Driller:** Sean Miller/German Terres
**Inspector:** Zohar Lavy
**Rig Type:** Track Mounted Hollow Stem Auger CME 55

**PROJECT NAME:** Consolidated Edison - Farrington Street
**PROJECT NUMBER:** 446109-03000

**Location Description:**

**Location Plan**

See Site Plan

| GROUNDWATER OBSERVATIONS | | | | |
|---|---|---|---|---|
| Water Level | DTW ~13' | DTW | | |
| Date | 09/02/2011 | | | |
| Time | 1125 | | | |
| Meas. From | ft bgs - Split Spoon | | | |

**Weather:** Clear, low 80s, Wind: 0-5 mph East

**Date/Time Start:** 09/2/11 1050

**Date/Time Finish:** 09/6/11 1040

| Sample Depth | Sample I.D. | SPT | Rec. (%) | PID (ppm) | FIELD IDENTIFICATION OF MATERIAL | SCHEMATIC | COMMENTS |
|---|---|---|---|---|---|---|---|
| +1 | | | | | | | |
| | | | | | | | |
| 0 | | Vactron | | NA | 0-6" ASPHALT and GRAVEL | | |
| 1 | | Vactron | | 0.0 | 6"-2' Brown, fine to coarse SAND and sub-angular GRAVEL, some Brick | | |
| 2 | | Vactron | | 2.9 | 2'-4' Dark brown, fine to coarse SAND, some sub-angular to round Gravel, trace Brick | | |
| 3 | | Vactron | | 18.0 | 4'-5' Black, fine to coarse SAND, some sub-angular to round Gravel, trace Brick, | | |
| 4 | | Vactron | | | hydrocarbon odor and staining | | |
| 5 | | 2-4-5-5 | 58 | 7.5 | 0-8" Moist, dark brown/black fine to coarse SAND, little Silt, little angular to sub-round | | |
| 6 | | | | | Gravel, hydrocarbon odor and staining; 8-14" Moist, tan, fine to medium SAND, striated | | |
| | | | | | staining, slight hydrocarbon odor | | |
| 7 | | 8-7-7-7 | 67 | 10.2 | Dry, tan fine to medium SAND, little sub-angular Gravel, striated staining, slight | | |
| 8 | | | | | hydrocarbon odor | | |
| 9 | | 4-4-4-4 | 58 | 307 | Dry, light tan/grey, medium SAND, strong hydrocarbon odor | | |
| 10 | | | | | | | |
| 11 | | 6-6-8-6 | 75 | 256.0 | 0-16" Dry, tan/grey, medium SAND, slight hydrocarbon odor | | |
| 12 | | | | | 16-18" Moist, tan/grey, medium SAND, slight hydrocarbon odor | | |
| 13 | | 2-2-3-5 | 75 | 225.0 | 0-6" Moist, tan/grey medium SAND, slight hydrocarbon odor; 6-16" Wet, dark grey/ | | |
| 14 | | | | | black, medium SAND, strong hydrocarbon odor, sheen, NAPL blebs to saturation, | | |
| | | | | | staining; 16-18"Dark grey/black, medium SAND, trace Silt, strong hydrocarbon odor, | | |
| | | | | | sheen, NAPL blebs to saturation, staining | | |
| 15 | MW-29 (15-17) | 3-3-2-3 | 83 | 476.0 | 0-20" Wet, dark grey/black, fine to medium SAND, strong hydrocarbon odor, sheen, | | |
| 16 | | | | | staining, NAPL blebs | | |
| 17 | | 4-4-4-5 | 100 | 207.0 | Wet, dark grey, fine to medium SAND, hydrocarbon odor, slight sheen | | |
| 18 | | | | | | | |
| 19 | | 5-7-8-6 | 75 | 38.7 | 0-12" Wet, dark grey, fine to medium SAND, slight hydrocarbon odor, wet; | | |
| 20 | | | | | 12-18" Wet, brown/grey, medium SAND, slight hydrocarbon odor, trace Mica | | |
| 21 | | 2-5-7-8 | 83 | 15.1 | Wet, brown/grey, fine to medium SAND, little Mica, trace sub-angular Gravel, slight | | |
| 22 | | | | | hydrocarbon odor | | |
| 23 | | 3-10-11-10 | 13 | 12.5 | Wet, orange/brown, medium SAND, trace Mica and sub-angular to round fine Gravel, | | |
| 24 | | | | | slight hydrocarbon odor | | |
| 25 | | 4-5-5-5 | 25 | 3.5 | Orange/brown, medium SAND, trace Mica and sub-angular to round fine Gravel | | |
| 26 | | | | | | | |
| 27 | | 5-4-4-5 | 58 | 7.3 | Orange/brown, medium to coarse SAND, trace Mica and sub-angular to round fine | | |
| 28 | | | | | Gravel | | |
| 29 | | 14-16-15-15 | 83 | 12.5 | Wet, orange/brown, medium to coarse SAND, trace sub-round Gravel slight | | |
| 30 | | | | | hydrocarbon/chlorinated odor | | |
| 31 | | 10-7-8-10 | 83 | 11.7 | 0-18" Wet, orange/brown, medium to coarse SAND, trace sub-round Gravel slight | | |
| 32 | | | | 10.8 | hydrocarbon/chlorinated odor; 18-20" Wet, dark brown/black, medium to coarse SAND, | | |
| | | | | | trace sub-round Gravel slight hydrocarbon/chlorinated odor | | |
| 33 | | 8-7-8-9 | 42 | 3 | Moist, red/brown, fine SAND, trace Mica and Silt | | |
| 34 | | | | | | | |
| 35 | | 5-5-6-8 | 50 | 6.2 | Moist, red/brown, fine SAND, trace Mica and Silt | | |
| 36 | | | | | | | |
| 37 | MW-29 (37-39) | 8-9-7-9 | 92 | 2.2 | Wet, orange/brown, fine to medium SAND, little sub-round to round Gravel, trace Silt | | |
| 38 | | | | | | | |
| 39 | | | | | **End of Boring at 39 ft bgs** | | |

**SAMPLING METHOD**
WH = WEIGHT OF RODS
HC = HAND CLEARED
VC = VACUUM CLEARED
GP = GEOPROBE/DIRECT PUSH

**COMMENTS:**
Boring was hand cleared to 5' bgs
Hollow stem auger and split spoons from 5' to 39' bgs
NAPL encountered from 13-17 ft bgs
No monitoring well installed at this location

**PARSONS**
**DRILLING RECORD**

**BORING/WELL ID: MW-30**
Sheet 1 of 1

**Contractor:** Advanced Drilling Technology (ADT)
**Driller:** Tom Sheerin/German Terres
**Inspector:** Zohar Lavy
**Rig Type:** Track Mounted Hollow Stem Auger CME 55

**PROJECT NAME:** Consolidated Edison - Farrington Street
**PROJECT NUMBER:** 446109-03000

**Location Description:** Northeastern portion of the Con Ed yard, adjacent to the property line

**Location Plan**

N

See Site Plan

**Weather:** Cloudy, light rain, mid 60s, Wind: 5-10 mph West

**Date/Time Start:** 09/6/11 1420

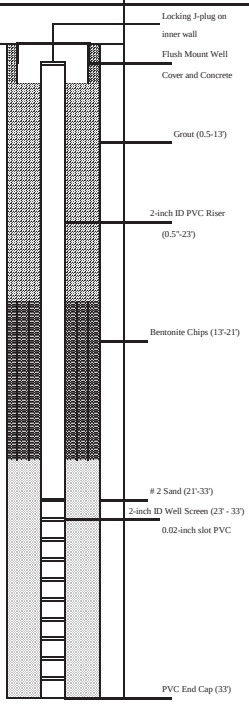
**Date/Time Finish:** 09/8/11 1000

GROUNDWATER OBSERVATIONS

| | | | | |
|---|---|---|---|---|
| Water Level | DTW ~14 ft bgs | DTW 14.03 | | |
| Date | 9/6/2011 | 11/14/2011 | | |
| Time | 1500 | | | |
| Meas. From | ft bgs - Split Spoon | Top of Casing | | |

| Sample Depth | Location/ Sample I.D. | SPT | Rec. (%) | PID (ppm) | FIELD IDENTIFICATION OF MATERIAL |
|---|---|---|---|---|---|
| +1 | | | | | |
| | | | | | |
| 0 | | Vac-tron | | 0.0 | 0-8" ASPHALT and GRAVEL |
| 1 | | Vac-tron | | 0.0 | 8"-3' Dry, brown, fine to coarse SAND and sub-angular GRAVEL |
| 2 | | Vac-tron | | 0.0 | 3'-5' Moist, brown, fine to coarse SAND and sub-angular GRAVEL, trace Brick, trace Silt |
| 3 | | Vac-tron | | | |
| 4 | | Vac-tron | | | |
| 5 | | 3-3-4-4 | 88 | 1.8 | 0-10" Moist, light brown/tan, medium SAND, dry; 10-21" Grey fine to medium SAND, trace sub- |
| 6 | | | | 2.2 | angular Gravel |
| 7 | | 7-8-9-9 | 75 | 2.0 | 0-8" Moist, grey, fine to medium SAND, trace sub-angular Gravel and Silt, moist; 8-18" Orange/ |
| 8 | | | | 1.5 | tan, medium SAND |
| 9 | | 4-5-8-7 | 83 | 2.5 | Moist, orange/tan, medium SAND |
| 10 | | | | | |
| 11 | | 6-5-5-6 | 50 | 2.3 | Moist, brown/tan, medium SAND |
| 12 | | | | | |
| 13 | | 6-7-7-10 | 75 | 2.8 | Moist, brown/grey, fine to medium SAND, trace Silt and Mica |
| 14 | | | | | |
| 15 | | 2-2-6-8 | 83 | 18.6 | Wet, brown/grey, fine to medium SAND, trace Silt and Mica, slight hydrocarbon odor |
| 16 | | | | | |
| 17 | | 7-11-11-8 | 92 | 21.5 | 0-6" Wet, brown/grey, fine to medium SAND, trace Silt and Mica, slight hydrocarbon odor; 6-22" |
| 18 | | | | | Grey/dark grey, medium SAND, trace Mica and fine sub-angular Gravel, slight hydrocarbon odor |
| 19 | | 7-6-5-7 | 75 | 16.7 | Wet, dark grey/brown medium to coarse SAND, some fine sub-round to round Gravel, slight |
| 20 | | | | | hydrocarbon odor |
| 21 | | 6-9-9-10 | 67 | 17.5 | 0-5" Wet, dark grey/brown medium to coarse SAND, some fine sub-round to round Gravel, slight |
| 22 | | | | | hydrocarbon odor; 5-16" Moist, brown/grey fine SAND, trace Mica and Silt, hydrocarbon odor |
| 23 | | WH-WH-2-2 | 33 | 51.6 | Wet, brown/grey fine to medium SAND, trace Mica and sub-round Gravel, slight hydrocarbon |
| 24 | | | | | odor |
| 25 | | 5-6-8-7 | 75 | 69.3 | Wet, dark brown/grey medium SAND, little sub-angular to round fine Gravel, slight hydrocarbon |
| 26 | | | | | odor |
| 27 | | 6-7-7-7 | 0 | NA | No Recovery |
| 28 | | | | | |
| 29 | MW-30 (29-31) | 8-10-11-15 | 67 | 138 | Wet, dark brown/grey fine to coarse SAND, little sub-angular to round fine Gravel, slight |
| 30 | | | | | hydrocarbon odor |
| 31 | | 12-12-15-16 | 92 | 15.6 | Wet, dark brown/grey fine to coarse SAND, little sub-angular to round fine Gravel, slight |
| 32 | | | | | hydrocarbon odor |
| 33 | MW-30 (33-35) | 5-4-3-5 | 83 | 2.1 | 0-12" Wet, dark brown/grey fine to coarse SAND, little sub-angular to round fine Gravel |
| 34 | | | | | 12-20" Wet, dark brown/grey fine to coarse SAND, some sub-angular to round Gravel |
| 35 | | | | | **End of Boring at 35 ft bgs** |

**SCHEMATIC**




**COMMENTS:**
Boring was hand cleared to 5' bgs; Auger and split spoon to 35 ft bgs

**SAMPLING METHOD**
SS = SPLIT SPOON
A = AUGER CUTTINGS
C = CORED

**PARSONS**
**DRILLING RECORD**

**BORING/WELL ID: MW-41**
Sheet 1 of 1

**Contractor:** Advanced Drilling Technology (ADT)
**Driller:** German Torres, Mike Brody
**Inspector:** Zohar Lavy
**Rig Type:** Truck CME-85

**PROJECT NAME:** Con Edison /Farrington Street Works
**PROJECT NUMBER:** 446109-06000

**Location Description:** Pathmark Parking Lot

**Weather:** Partly cloudy, up to high 30s

**Date/Time Start:** 1/20/15 0815

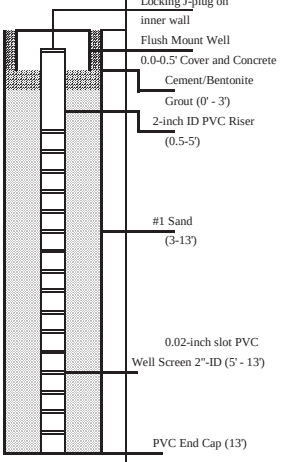
**Date/Time Finish:** 1/20/15 1500

See Site Plan

| GROUNDWATER OBSERVATIONS | | | | |
|---|---|---|---|---|
| Water Level | DTW ~ 5 ft bgs | DTW 4.13 | | |
| Date | 1/19/15 | 6/8/15 | | |
| Time | 1500 | 0900 | | |
| Meas. From | Hand clearance | Top of PVC | | |

| Sample Depth | Sample I.D. | SPT | Rec. (%) | PID (ppm) | FIELD IDENTIFICATION OF MATERIAL |
|---|---|---|---|---|---|
| +1 | | | | | |
| | | | | | |
| 0 | | Vactron | NA | NA | 0-6" Moist, brown, fine to medium SAND and Organics (grass and roots) |
| 1 | | Vactron | NA | 0.0 | 6"-5' Moist, brown, fine to medium SAND, little urban Debris, little fine to coarse sub- |
| 2 | | Vactron | NA | 0.0 | angular to sub-round Gravel, little round Cobble |
| 3 | | Vactron | NA | 0.0 | 5-6' Wet, Moist, brown, fine to medium SAND, little fine to coarse sub-angular to sub-round |
| 4 | | Vactron | NA | 0.0 | Gravel, little round Cobble, trace Silt |
| 5 | | Vactron | NA | 0.0 | 6-6.5' BOULDER |
| 6 | | Vactron | NA | 0.0 | |
| 7 | | Air Knife | NA | 0.0 | |
| 8 | | Air Knife | NA | 0.0 | |
| 9 | | Air Knife | NA | 0.0 | |
| 10 | | 6-2-2-2 | 33 | 0.0 | Wet, dark brown, fine to medium SAND, little sub-angular fine to medium Gravel |
| 11 | | | | | |
| 12 | | 1-2-1-2 | 100 | 0.1 | 0-8" Wet, dark brown, fine to medium SAND, some fine angular Gravel, little sub-angular |
| 13 | | | | | fine to medium Gravel, little Ash, trace Slag; 8-24" Moist PEAT, some grey Clay |
| 14 | | 1-1-1-2 | 75 | 0.1 | 0-14" Moist PEAT, some grey Clay; 14-18" Moist PEAT and grey CLAY |
| 15 | | | | | |
| 16 | | 1-1-1-1 | 75 | 0.2 | Moist PEAT and grey CLAY |
| 17 | | | | | |
| 18 | | 3-2-1-1 | 58 | 0.1 | Moist, grey CLAY, little Peat |
| 19 | | | | | |
| 20 | | 2-2-1-1 | 67 | 0.0 | Moist, grey CLAY, trace Shell |
| 21 | | | | | |
| 22 | | WOR | 17 | 0.2 | Moist, grey CLAY |
| 23 | | | | | |
| 24 | | WHO | 0 | NA | No Recovery |
| 25 | | | | | |
| 26 | | WOR/18"-2 | 75 | 0.1 | Moist, grey CLAY |
| 27 | | | | | |
| 28 | | WHO | 67 | 0.3 | Moist, grey CLAY |
| 29 | | | | | |
| 30 | | | | | **End of Boring at 30 ft bgs** |

**SCHEMATIC**




**COMMENTS**

**SAMPLING METHOD**
WH = WEIGHT OF HAMMER
HC = HAND CLEARED
VC = VACUUM CLEARED
WOR = WEIGHT OF RODS

**COMMENTS:**
0-6.5 ft bgs was hand cleared; 6.5 - 10.5 ft bgs was cleared utilizing an air knife
10-30 ft bgs advanced utilizing hollow stem augers and split spoons

**PARSONS**
**DRILLING RECORD**

**BORING/WELL ID: SB-35**

Sheet 1 of 1

**Contractor:** Advanced Drilling Technology (ADT)
**Driller:** Andrea Larkin
**Inspector:** Zohar Lavy
**Rig Type:** Geoprobe, Track CME-75

**PROJECT NAME:** Con Edison /Farrington Street Works
**PROJECT NUMBER:** 446109-03000

**Location Description:** Pathmark Loading Dock

| GROUNDWATER OBSERVATIONS | | | | |
|---|---|---|---|---|
| Water Level | DTW | DTW | | |
| | NA | | | |
| Date | NA | | | |
| Time | NA | | | |
| Meas. From | | | | |

**Weather:** Partly Cloudy, Mid 40s, 5-10 mph west

**Date/Time Start:** 02/15/12 0850

**Date/Time Finish:** 02/20/12 0920

See Site Plan

| Sample Depth | Sample I.D. | SPT | Rec. (%) | PID (ppm) | FIELD IDENTIFICATION OF MATERIAL | COMMENTS |
|---|---|---|---|---|---|---|
| +1 | | | | | | |
| | | | | | | |
| 0 | | Vactron | | NA | 0-8" CONCRETE | |
| 1 | | Vactron | | 0.0 | 8"-2' Moist, brown, fine to coarse SAND, some fine to medium angular Gravel, little Concrete, trace Cobble; 2-4.5' Moist, brown, fine to coarse SAND, little Silt, little fine to medium sub-round to angular Gravel, trace Cobble; 4.5-5.25' Moist, dark brown, fine to coarse SAND, some fine to medium round to sub-angular Gravel, slight hydrocarbon odor | |
| 2 | | Vactron | | 0.0 | | |
| 3 | | Vactron | | | | |
| 4 | | Vactron | | 9.8 | | |
| 5 | | Geoprobe | 55 | 2.5 | 0-10" Moist, brown/tan, fine to coarse SAND, trace angular to sub-angular Gravel, trace Silt | Refusal encountered at 8 ft bgs with Geoprobe and Augers |
| 6 | | | | | | |
| 7 | | | | 1.1 | 10-16" Wet, black, fine to medium SAND and angular GRAVEL/COAL, trace Silt | |
| 8 | | | | 1.5 | 16-20" CONCRETE debris | |
| 9 | | | | | **End of Boring at 8 ft bgs** | |

**SAMPLING METHOD**
WH = WEIGHT OF RODS
HC = HAND CLEARED
VC = VACUUM CLEARED
GP = GEOPROBE/DIRECT PUSH

**COMMENTS:**
0-5 ft bgs was hand cleared
5-8 ft bgs advanced geoprobe
Geoprobe and Hollow stem auger refusal at 8 ft bgs

**PARSONS**
**DRILLING RECORD**

**BORING/WELL ID: SB-36**

Sheet 1 of 1

**Contractor:** Advanced Drilling Technology (ADT)
**Driller:** Chris Migliori, Chris Iodici
**Inspector:** Zohar Lavy
**Rig Type:** Geoprobe, Track CME-75

**PROJECT NAME:** Con Edison /Farrington Street Works
**PROJECT NUMBER:** 446109-03000

**Location Description:** Pathmark Loading Dock

| GROUNDWATER OBSERVATIONS | | | | |
|---|---|---|---|---|
| Water Level | DTW ~ 12 ft bgs | DTW | | |
| Date | 2/21/12 | | | |
| Time | 1005 | | | |
| Meas. From | Split Spoon | | | |

**Weather:** Partly Cloudy, Mid 40s, 0-5 mph west

**Date/Time Start:** 02/15/12 1040

**Date/Time Finish:** 02/21/12 1300

See Site Plan

| Sample Depth | Sample I.D. | SPT | Rec. (%) | PID (ppm) | FIELD IDENTIFICATION OF MATERIAL | COMMENTS |
|---|---|---|---|---|---|---|
| +1 | | | | | | |
| | | | | | | |
| 0 | | Vactron | | NA | 0-6" CONCRETE | |
| 1 | | Vactron | | 0.0 | 6"-3' Dry, dark brown, fine to coarse SAND, some Cobble, little sub-angular to round Gravel, trace Silt; 3-5' Dry, dark brown, fine to coarse SAND, little sub-angular to round Gravel, trace Silt, trace Brick; 5-6' Dry, dark brown, fine to coarse SAND, little sub-angular to round Gravel, trace Silt | |
| 2 | | Vactron | | 0.0 | | |
| 3 | | Vactron | | 0.0 | | |
| 4 | | Vactron | | 0.0 | | |
| 5 | | Vactron | | 0.0 | | |
| 6 | | Geoprobe | 67 | 12.9 | 0-8" Slightly moist, brown, fine to medium SAND, little rounded Gravel, trace Silt, slight hydrocarbon odor; 8-24" Slightly moist, black, fine to medium SAND, little Silt, little sub-angular to round Gravel, hydrocarbon odor; 24-40" Moist, brown/tan, fine to medium SAND, little Silt, trace Organics, trace round Gravel, hydrocarbon odor | |
| 7 | | | | 25.6 | | |
| 8 | | | | | | |
| 9 | | | | 16.7 | | |
| 10 | | 5-7-8-10 | 50 | 50.9 | Moist, dark brown, fine to medium SAND, trace sub-round Gravel, trace Silt, hydrocarbon odor | |
| 11 | | | | | | |
| 12 | SB-36 (12-14) | 8-8-8-10 | 100 | 34.2 | 0-6" Moist, dark brown, fine to medium SAND, trace sub-round Gravel, trace Silt, hydrocarbon odor; 6-14" Wet, dark grey/brown, medium to coarse SAND, trace Silt, trace sub-angular gravel, strong hydrocarbon odor; 14-24" Wet, brown, fine to medium SAND, trace Silt, strong hydrocarbon odor | |
| 13 | | | | 86.5 | | |
| 14 | | 5-5-5-5 | 75 | 13.4 | Wet, brown, fine to medium SAND, trace Silt, hydrocarbon odor | |
| 15 | | | | | | |
| 16 | | 8-10-10-11 | 100 | 14.5 | 0-12" Wet, brown, fine to medium SAND, trace Silt, hydrocarbon odor | |
| 17 | | | | | 12-24" Wet, brown/grey, medium SAND, hydrocarbon odor | |
| 18 | | 5-6-8-9 | 58 | 12.6 | 0-4" Wet, brown/grey, medium SAND, hydrocarbon odor | |
| 19 | | | | | 4-14" Moist, olive/grey, fine SAND, some Silt, trace Mica | |
| 20 | | 7-8-9-10 | 50 | 5.6 | Wet, brown, fine to medium SAND, slight hydrocarbon odor | |
| 21 | | | | | | |
| 22 | | 6-7-8-10 | 0 | NA | No Recovery | |
| 23 | | | | | | |
| 24 | | 3-5-6-8 | 75 | 7.1 | Wet, brown, fine SAND, trace round fine Gravel | |
| 25 | | | | | | |
| 26 | | 9-11-13-16 | 33 | 0.6 | Wet, brown/olive fine SAND | |
| 27 | | | | | | |
| 28 | SB-36 (28-30) | 16-19-24-17 | 50 | 0.7 | Wet, brown/olive fine SAND | |
| 29 | | | | | | |
| 30 | | | | | **End of Boring at 30 ft bgs** | |

**SAMPLING METHOD**
WH = WEIGHT OF RODS
HC = HAND CLEARED
VC = VACUUM CLEARED
GP = GEOPROBE/DIRECT PUSH

**COMMENTS:**
0-6 ft bgs was hand cleared
6-10 ft bgs advanced utilizing a geoprobe
10-30 ft bgs advanced utilizing hollow stem augers and split spoons

**PARSONS**
**DRILLING RECORD**

**BORING/WELL ID: SB-37**



**Contractor:** Advanced Drilling Technology (ADT)
**Driller:** Chris Migliori, Chris Iodici
**Inspector:** Zohar Lavy
**Rig Type:** Geoprobe, Track CME-75

**PROJECT NAME:** Con Edison /Farrington Street Works
**PROJECT NUMBER:** 446109-03000

**Location Description:** Pathmark Loading Dock

See Site Plan

**Weather:** Partly Cloudy, Mid 40s, 5-10 mph west
**Date/Time Start:** 02/16/12 0845
**Date/Time Finish:** 02/22/12 1100

| GROUNDWATER OBSERVATIONS | | | | |
|---|---|---|---|---|
| Water Level | DTW ~ 14 ft bgs | DTW | | |
| Date | 2/22/12 | | | |
| Time | 825 | | | |
| Meas. From | Split Spoon | | | |

| Sample Depth | Sample I.D. | SPT | Rec. (%) | PID (ppm) | FIELD IDENTIFICATION OF MATERIAL | COMMENTS |
|---|---|---|---|---|---|---|
| +1 | | | | | | |
| | | | | | | |
| 0 | | Vactron | | NA | 0-6" CONCRETE | |
| 1 | | Vactron | | 0.0 | 6"-2.5' Dry, dark brown, fine to coarse SAND, some medium to coarse sub-angular to round Gravel, little Cobble, trace Silt, trace Slag | |
| 2 | | Vactron | | 0.0 | | |
| 3 | | Vactron | | 0.0 | 2.5-6' Dry, dark brown, fine to coarse SAND, some medium to coarse sub-angular to round Gravel, little Cobble, trace Silt | |
| 4 | | Vactron | | 0.0 | | |
| 5 | | Vactron | | 0.0 | | |
| 6 | | Geoprobe | 50 | 1.7 | 0-6" Slightly moist, brown, fine to coarse SAND, some fine to medium sub-angular ro sub-round Gravel | |
| 7 | | | | | | |
| 8 | | | | 2.5 | 6-18" Slightly moist, dark grey/brown, fine to coarse SAND and SLAG | |
| 9 | | | | 6.1 | 18-30" Slightly moist, tan/brown, medium SAND, little angular to sub-angular Gravel, slight hydrocarbon odor | |
| 10 | | 5-5-7-6 | 67 | 132.0 | 0-6" Dry, brown, fine SAND, trace Silt, hydrocarbon odor | |
| 11 | | | | | 6-14" Dry, dark brown, fine to medium SAND, trace Silt, hydrocarbon odor | |
| 12 | | 5-5-4-4 | 75 | 156.0 | 0-5" Slightly moist, dark brown, fine to medium SAND, trace Silt, hydrocarbon odor | |
| 13 | | | | | 5-18" Moist, dark grey, fine to medium SAND | |
| 14 | | 6-4-2-2 | 50 | 113.0 | 0-6" Wet, brown, fine to coarse SAND, little angular Gravel, trace Silt, hydrocarbon odor | |
| 15 | | | | | 6-12" Wet, olive/brown, fine SAND, little Silt, hydrocarbon odor | |
| 16 | | 2-2-3-5 | 100 | 149.0 | 0-6" Wet, olive/brown, fine SAND, little Silt, hydrocarbon odor | |
| 17 | | | | | 6-24" Wet, olive/grey, medium SAND, trace Silt, hydrocarbon odor, sheens | |
| 18 | | 4-6-5-6 | 75 | 131.0 | Wet, olive/grey, medium SAND, trace Silt, hydrocarbon odor, sheens | |
| 19 | | | | | | |
| 20 | | 5-6-7-6 | 100 | 33.7 | 0-12" Wet, brown/grey, fine to medium SAND, trace Silt, slight hydrocarbon odor | |
| 21 | | | | | 12-24" Wet, brown/grey, medium to coarse SAND, slight hydrocarbon odor | |
| 22 | | 5-7-8-10 | 50 | 14.2 | Wet, brown/grey, medium to coarse SAND, slight hydrocarbon odor | |
| 23 | | | | | | |
| 24 | | 7-5-7-9 | 83 | 19.1 | 0-8" Wet, brown/grey, medium to coarse SAND, trace round Gravel | |
| 25 | | | | | 8-20" Moist, brown, fine SAND | |
| 26 | | 8-13-13-13 | 67 | 5.7 | 0-6" Moist, brown, fine SAND, trace Silt | |
| 27 | | | | | 6-14" Wet, brown/tan, medium to coarse SAND | |
| 28 | | 3-4-6-8 | 25 | 11.1 | Wet, brown/tan, medium to coarse SAND, trace sub-round fine Gravel | |
| 29 | | | | | | |
| 30 | | 5-8-9-7 | 50 | 6.2 | Wet, brown/tan, medium to coarse SAND, trace sub-round fine Gravel, slight hydrocarbon odor | |
| 31 | | | | | | |
| 32 | | 6-8-8-8 | 25 | 4.5 | Wet, brown/tan, medium to coarse SAND, trace sub-round fine Gravel, slight hydrocarbon odor | |
| 33 | | | | | | |
| 34 | | 10-11-10-10 | 0 | NA | No Recovery | |
| 35 | | | | | | |
| 36 | | 6-10-14-25 | 75 | 390.0 | 0-14" Wet, brown, medium SAND, hydrocarbon odor; 14-18" Wet, black, medium SAND, NAPL saturated, staining, strong hydrocarbon odor, sheens | |
| 37 | | | | | | |

**SAMPLING METHOD**
WH = WEIGHT OF RODS
HC = HAND CLEARED
VC = VACUUM CLEARED
GP = GEOPROBE/DIRECT PUSH

**COMMENTS:**
0-5 ft bgs was hand cleared
5-10 ft bgs advanced geoprobe
10-50 ft bgs advanced utilizing hollow stem augers and split spoons
NAPL encountered from approximately 36-42 ft bgs

**PARSONS**
**DRILLING RECORD**

**BORING/WELL ID: SB-37**
Sheet 2 of 2

**Contractor:** Advanced Drilling Technology (ADT)
**Driller:** Chris Migliori, Chris Iodici
**Inspector:** Zohar Lavy
**Rig Type:** Geoprobe, Track CME-75

**PROJECT NAME:** Con Edison /Farrington Street Works
**PROJECT NUMBER:** 446109-03000

**Location Description:** Pathmark Loading Dock

| GROUNDWATER OBSERVATIONS | | | | |
|---|---|---|---|---|
| Water Level | DTW ~ 14 ft bgs | DTW | | |
| Date | 2/22/12 | | | |
| Time | 825 | | | |
| Meas. From | Split Spoon | | | |

**Weather:** Partly Cloudy, Mid 40s, 5-10 mph west

**Date/Time Start:** 02/16/12 0845

**Date/Time Finish:** 02/22/12 1100

See Site Plan

| Sample Depth | Sample I.D. | SPT | Rec. (%) | PID (ppm) | FIELD IDENTIFICATION OF MATERIAL | | COMMENTS |
|---|---|---|---|---|---|---|---|
| 38 | SB-37 (38-40) | 12-13-16-16 | 50 | 475 | Wet, black, medium SAND, NAPL saturated, staining, strong hydrocarbon odor, sheens | | |
| 39 | | | | | | | |
| 40 | | 3-3-8-9 | 17 | 364 | Wet, brown, fine SAND, trace Silt, NAPL globules, staining, strong hydrocarbon odor | | |
| 41 | | | | | | | |
| 42 | | 3-4-9-10 | 33 | 111 | 0-4" Moist, brown, fine SAND, little Silt; 4-8" Moist, tan/brown SILT and fine SAND, little | | |
| 43 | | | | | fine round Gravel, slight hydrocarbon odor | | |
| 44 | | 3-4-5-6 | 33 | 63.7 | Moist, tan/orange, medium SAND, trace Silt | | |
| 45 | | | | | | | |
| 46 | | 5-8-8-6 | 25 | 22.1 | Moist, tan/orange, medium SAND, trace Silt | | |
| 47 | | | | | | | |
| 48 | SB-37 (48-50) | 5-6-6-6 | 50 | 12.8 | Moist, tan/orange, medium SAND, trace round Gravel | | |
| 49 | | | | | | | |
| 50 | | | | | **End of Boring at 50 ft bgs** | | |

**SAMPLING METHOD**
WH = WEIGHT OF RODS
HC = HAND CLEARED
VC = VACUUM CLEARED
GP = GEOPROBE/DIRECT PUSH

**COMMENTS:**
0-5 ft bgs was hand cleared
5-10 ft bgs advanced geoprobe
10-50 ft bgs advanced utilizing hollow stem augers and split spoons
NAPL encountered from approximately 36-42 ft bgs

**PARSONS**
**DRILLING RECORD**

**BORING/WELL ID: SB-38**

Sheet 1 of 1

**Contractor:** Advanced Drilling Technology (ADT)
**Driller:** Chris Stratton/Tom Sheerin
**Inspector:** Lopa Naik
**Rig Type:** Track Mounted Hollow Stem Auger CME 55

**PROJECT NAME:** Con Edison /Farrington Street Works
**PROJECT NUMBER:** 446109-03000

**Location Description:** approx. 200' W. of Farrington St., adjacent to 31st St.

| GROUNDWATER OBSERVATIONS | | | | |
|---|---|---|---|---|
| Water Level | DTW ~13.5' bgs | DTW | | |
| Date | 9/30/2011 | | | |
| Time | 9:00 | | | |
| Meas. From | ft bgs - Split Spoon | | | |

**Weather:** Clear, 70s-90s, Wind: 0-5 mph East

**Date/Time Start:** 9/30/2011 - 0840

**Date/Time Finish:** 9/30/2011 - 1430

See Site Plan

| Sample Depth | Sample I.D. | SPT | Rec. (%) | PID (ppm) | FIELD IDENTIFICATION OF MATERIAL | COMMENTS |
|---|---|---|---|---|---|---|
| +1 | | | | | | |
| | | | | | | |
| 0 | | Vactron | | | 0-1' Moist, dark brown, fine to coarse SAND and sub-angular GRAVEL | |
| 1 | | Vactron | | | 1-5' Moist, dark brown, fine to coarse SAND and sub-angular GRAVEL, trace Wood, trace Brick, trace Metal | |
| 2 | | Vactron | | | | |
| 3 | | Vactron | | | | |
| 4 | | Vactron | | | | |
| 5 | | | | | 0-12" Black medium to coarse SAND, little fine to medium Gravel, trace Silt, slight hydrocarbon odor; 12-18" Dry, black fine to medium SAND and SLAG | |
| 6 | | 1-2-3-1 | 75 | 35.0 | | |
| 7 | | | | | Moist, black medium to coarse SAND, little medium to coarse angular Gravel, trace Silt, slight hydrocarbon odor | |
| 8 | | 1-1-1-1 | 67 | 34.0 | | |
| 9 | | | | | Moist, olive green, fine to coarse SAND, little fine to medium Gravel, trace Silt, stong hydrocarbon odor | |
| 10 | | 2-4-5-7 | 75 | 113.0 | | |
| 11 | | | | | Moist, olive green, fine to medium SAND, some fine to medium Gravel, little Silt, trace Mica, strong hydrocarbon odor | |
| 12 | | 6-7-7-4 | 83 | 135.0 | | |
| 13 | | | | | Wet, olive green, fine to coarse SAND, some fine to medium Gravel, little Silt, slight hydrocarbon odor | |
| 14 | | 2-7-10-14 | 75 | 25.0 | | |
| 15 | SB-38 (15-17) | | | | 0-8" Wet, olive green, fine SAND, trace Silt, NAPL saturated, staining, strong hydrocarbon odor; 8-24" Wet, olive green, fine to medium SAND, trace Silt, trace Mica, NAPL blebs/saturation, staining, hydrocarbon odors | |
| 16 | | 10-10-10-12 | 100 | 382.0 | | |
| 17 | | | | | Wet, olive green fine SAND, trace Silt, trace Mica, slight hydrocarbon odor | |
| 18 | | 3-5-5-6 | 83 | 30.0 | | |
| 19 | | | | | 0-20" Moist, olive green, fine to medium SAND, little fine angular Gravel, trace Mica, trace Silt, slight hydrocarbon odor; 20-24" Moist, olive green, fine SAND, trace Mica, trace Silt | |
| 20 | | 8-8-8-12 | 100 | 35.0 | | |
| 21 | | | | | Wet, olive green, fine to medium SAND, trace fine to medium angular Gravel, trace Mica, slight hydrocarbon odor | |
| 22 | | 6-8-7-8 | 50 | 13.5 | | |
| 23 | | | | | Wet, olive green, fine to medium SAND, trace Silt, trace Mica, hydrocarbon odor. | |
| 24 | | 5-4-6-8 | 33 | 65.0 | | |
| 25 | | | | | Wet, olive green, fine to medium SAND, little well graded sub-round to round Gravel, trace Silt, trace Mica, hydrocarbon odor | |
| 26 | | 8-8-9-10 | 75 | 60.0 | | |
| 27 | | | | | Wet, olive green, fine to medium SAND, trace Silt, trace Mica, silght hydrocarbon odor | |
| 28 | | 6-8-5-6 | 75 | 20.0 | | |
| 29 | | | | | Wet, olive green, fine to medium SAND, trace sub-round Gravel, trace Silt, trace Mica, hydrocarbon odor. | |
| 30 | | 3-2-4-5 | 83 | 61.0 | | |
| 31 | | | | | Moist, olive green, fine to medium SAND, trace Silt, trace Mica | |
| 32 | | 6-6-8-10 | 100 | 4.9 | | |
| 33 | | | | | Wet, olive green, fine to medium SAND, trace Silt, trace Mica, slight hydrocarbon odor | |
| 34 | | 6-8-12-15 | 100 | 8.9 | | |
| 35 | | | | | Wet, olive green, fine to medium SAND, trace Silt, trace Mica, slight hydrocarbon odor | |
| 36 | | 10-12-10-12 | 100 | 13.7 | | |
| 37 | | | | | Moist, olive green, fine to medium SAND, trace Silt, trace Mica, slight hydrocarbon odor | |
| 38 | | 5-9-15-15 | 75 | 9.0 | | |
| 39 | | | | 20.6 | 0-16" Wet, olive green, fine to medium SAND, trace Silt, trace Mica, slight hydrocarbon odor; 16-24" Moist, orange/brown SILT, some Clay, little fine to medium Sand, trace round fine Gravel | |
| 40 | | 5-5-6-10 | 100 | 0.0 | | |
| 41 | | | | | Moist, brown/orange, SILT, some Clay, little fine to medium Sand | |
| 42 | | 3-4-6-13 | 92 | 0.0 | | |
| 43 | SB-38 (43-45) | | | | Moist, olive green, fine SAND, trace fine Gravel, trace Silt, trace Mica | |
| 44 | | 9-8-10-13 | 75 | 0.0 | | |
| 45 | | | | | **End of Boring at 45 ft bgs** | |

**SAMPLING METHOD**
WH = WEIGHT OF RODS
HC = HAND CLEARED
VC = VACUUM CLEARED
GP = GEOPROBE/DIRECT PUSH

**COMMENTS:**
0-5 ft bgs was hand cleared
5-45 ft bgs advanced utilizing hollow stem augers and split spoons
NAPL encountered from approximately 15 to 17 ft bgs

**PARSONS**
**DRILLING RECORD**

**BORING/WELL ID: SB-39**

Sheet 1 of 1

**Contractor:** Advanced Drilling Technology (ADT)
**Driller:** Chris Capabianco /Jamey Meyers
**Inspector:** Lopa Naik
**Rig Type:** Track Mounted Hollow Stem Auger CME 55

**PROJECT NAME:** Con Edison /Farrington Street Works
**PROJECT NUMBER:** 446109-03000

**Location Description:** Southeastern portion of the Con Ed Yard

**Location Plan**

See Site Plan

**Weather:** Clear, Sunny, 80F, Wind: 0-5 mph East
**Date/Time Start:** 9/26/2011 ; 0920
**Date/Time Finish:** 09/26/2011 ; 1430

| GROUNDWATER OBSERVATIONS | | | | |
|---|---|---|---|---|
| Water Level | DTW ~19' | | | |
| Date | 09/26/2011 | | | |
| Time | 1100 | | | |
| Meas. From | ft bgs - Split Spoon | | | |

| Sample Depth | Sample I.D. | SPT | Rec. (%) | PID (ppm) | FIELD IDENTIFICATION OF MATERIAL | SCHEMATIC (drawing not to scale) | COMMENTS |
|---|---|---|---|---|---|---|---|
| +1 | | | | | | | |
| | | | | | | | |
| 0 | | Vactron | | 0.0 | 0-12" Dry, grey, coarse sub-angular GRAVEL | | |
| 1 | | Vactron | | 0.0 | 1-4' Dry, brown, fine to medium SAND, some angular fine to medium Gravel, trace silt | | |
| 2 | | Vactron | | 0.0 | 4-4.5' WOOD | | |
| 3 | | Vactron | | 0.0 | 4.5-5' Dry, brown, fine to medium SAND, some Wood | | |
| 4 | | Vactron | | | | | |
| 5 | | 2-2-1-1 | 83 | 9.3 | Dry, black, fine to medium SAND, trace fine angular Gravel, trace Silt | | |
| 6 | | | | | | | |
| 7 | | 1-21-2-1 | 50 | 51.3 | Dry, black, fine to medium SAND, trace fine angular Gravel, trace Silt, slight hydrocarbon odor | | |
| 8 | | | | | | | |
| 9 | | 2-1-4-5 | 67 | 41.1 | Dry, black, fine to medium SAND, little fine angular Gravel, trace Silt, slight hydrocarbon odor, NAPL blebs | | |
| 10 | | | | | | | |
| 11 | | 3-18-6-2 | 83 | 47.5 | Dry, dark gray, fine SAND, trace Mica, trace fine round to sub-round Gravel, slight hydrocarbon odor | | |
| 12 | | | | | | | |
| 13 | SB-39 (13-15) | 2-3-4-7 | 83 | 478.0 | Moist, dark black, fine to coarse SAND, trace fine Gravel, trace Mica, strong hydrocarbon odor, NAPL saturated, staining | | |
| 14 | | | | | | | |
| 15 | | 4-4-4-5 | 92 | 152.0 | Moist, dark black, fine to medium SAND, trace Mica, strong hydrocarbon odor, NAPL saturated, staining | | |
| 16 | | | | | | | |
| 17 | | 4-4-11-15 | 100 | 267.0 | 0-16" Moist, dark black, fine to medium SAND, trace Mica, strong hydrocarbon odor, NAPL saturated, staining; 16-24" Moist, green/gray, fine to medium SAND, trace Mica | | |
| 18 | | | | | | | |
| 19 | | 2-2-4-5 | 50 | 151.0 | Wet, green/gray, fine SAND, trace Silt, strong hydrocarbon odor, NAPL saturated, staining | | |
| 20 | | | | | | | |
| 21 | | 6-4-6-8 | 100 | 115.0 | Wet, olive green, fine SAND, trace Silt, trace Mica, strong hydrocarbon odor | | |
| 22 | | | | | | | |
| 23 | | 12-11-4-8 | 100 | 84.9 | Wet, gray, fine SAND, trace Mica | | |
| 24 | | | | | | | |
| 25 | | 10-9-10-12 | 100 | 25.8 | Wet, gray, fine SAND, trace fine to medium angular Gravel, trace Mica | | |
| 26 | | | | | | | |
| 27 | | 13-15-17-8 | 100 | 55.8 | Moist, olive green, fine SAND, trace Mica, trace Wood, slight hydrocarbon odor | | |
| 28 | | | | | | | |
| 29 | | 4-6-11-12 | 100 | 32.8 | Moist, gray, fine SAND, trace Mica, slight hydrocarbon odor | | |
| 30 | | | | | | | |
| 31 | | 14-12-9-3 | 100 | 69.8 | Moist, gray, fine SAND, trace Mica, slight hydrocarbon odor | | |
| 32 | | | | | | | |
| 33 | | 2-4-8-4 | 50 | 35.2 | 0-6" Moist, gray, fine SAND, trace Mica, slight hydrocarbon odor | | |
| 34 | | | | 0.0 | 6-12" Moist, orange/brown, fine to medium SAND, trace fine Gravel, trace Clay | | |
| 35 | SB-39 (35-37) | 8-17-14-14 | 67 | 0.0 | 0-8" Wet, orange/brown SILT, some Clay, trace fine Sand, trace fine Gravel | | |
| 36 | | | | | 8-16" Wet, olive green, fine to medium SAND, trace fine round Gravel | | |
| 37 | | | | | **End of Boring at 37 ft bgs** | | |

**SAMPLING METHOD**
WH = WEIGHT OF RODS
HC = HAND CLEARED
VC = VACUUM CLEARED
GP = GEOPROBE/DIRECT PUSH

**COMMENTS:**
Boring was hand cleared to 5' bgs; Hollow stem auger and split spoon from 5' to 37' bgs
HCN detected from 18-20 ft bgs
NAPL encountered from approximately 9-11 ft bgs and 13-21 ft bgs

**PARSONS**
**DRILLING RECORD**

**BORING/WELL ID: SB-40**

Sheet 1 of 1

**Contractor:** Advanced Drilling Technology (ADT)
**Driller:** Chris Stratton/German Torres
**Inspector:** Lopa Naik
**Rig Type:** Track Mounted Hollow Stem Auger CME 55

**PROJECT NAME:** Con Edison /Farrington Street Works
**PROJECT NUMBER:** 446109-03000

**Location Description:** Central portion of the Con Ed Yard

**Location Plan**

See Site Plan

**Weather:** Cloudy, 70s, Wind: 0-5 mph South East

**Date/Time Start:** 09/29/11 0900

**Date/Time Finish:** 09/29/11 1400

GROUNDWATER OBSERVATIONS

| | | | | |
|---|---|---|---|---|
| Water Level | DTW ~5' | DTW | | |
| Date | 08/18/2011 | | | |
| Time | 1200 | | | |
| Meas. From | Hand clearance | | | |

| Sample Depth | Sample I.D. | SPT | Rec. (%) | PID (ppm) | FIELD IDENTIFICATION OF MATERIAL | SCHEMATIC (drawing not to scale) | COMMENTS |
|---|---|---|---|---|---|---|---|
| +1 | | | | | | | |
| | | | | | | | |
| 0 | | Vactron | | 0.0 | 0-12" Dry, fine to coarse GRAVEL and BRICK | | |
| 1 | | Vactron | | 0.0 | 1-4' Dry, black medium to coarse SAND, some fine to coarse angular Gravel and Brick | | |
| 2 | | Vactron | | 0.0 | 4-5' Moist, black medium to coarse SAND, little fine to coarse angular Gravel | | |
| 3 | | Vactron | | 0.0 | | | |
| 4 | | Vactron | | 0.0 | | | Water encountered at 5 ft bgs |
| 5 | | 1-1-2-1 | 17 | 0.0 | Moist, black, fine to medium SAND, some medium to coarse angular Gravel, trace Silt | | |
| 6 | | | | | | | |
| 7 | | 3-3-8-11 | 83 | 0.0 | 0-16" Wet, grey, SILT, some Clay | | |
| 8 | | | | 51.0 | 16-24" Wet, grey, fine to medium SAND, little fine to medium angular Gravel, trace Silt, slight hydrocarbon odor | | |
| 9 | | 2-6-7-9 | 50 | 218.0 | Moist, grey, fine to medium SAND, little fine to medium angular Gravel, trace Silt, strong hydrocarbon odor | | |
| 10 | | | | | | | |
| 11 | | 8-7-13-15 | 42 | 84.0 | Moist, grey, fine to medium SAND, trace Silt, trace Mica, strong hydrocarbon odor | | |
| 12 | | | | | | | |
| 13 | | 3-4-4-9 | 67 | 335.0 | Wet, dark grey, fine to medium SAND, trace Silt, trace Mica, trace fine Gravel, NAPL blebs, staining, strong hydrocarbon odors | | |
| 14 | | | | | | | |
| 15 | SB-40 (15-17) | 6-9-13-12 | 100 | 350.0 | Moist, dark grey, fine to medium SAND, trace Silt, trace Mica, NAPL saturation, staining, stronghydrocarbon odors | | |
| 16 | | | | | | | |
| 17 | | 3-4-5-5 | 50 | 219.0 | Moist, dark grey, fine to medium SAND, trace Silt, trace Mica, NAPL saturation, staining, stronghydrocarbon odors | | |
| 18 | | | | | | | |
| 19 | | 5-7-8-15 | 100 | 227.0 | 0-18" Moist, dark grey, fine to medium SAND, trace Silt, trace Mica, NAPL blebs, staining, strong hydrocarbon odor; 18-24" Moist, olive green, fine SAND, trace Mica, trace Silt, slight hydrocarbon odor | | |
| 20 | | | | 13.8 | | | |
| 21 | | 5-5-6-7 | 100 | 34.4 | Wet, olive green, fine SAND, trace Mica, trace fine Gravel, trace Silt | | |
| 22 | | | | | | | |
| 23 | | 7-7-10-13 | 100 | 96.6 | Moist, olive green, fine SAND, trace Mica, trace fine Gravel, trace Silt, strong hydrocarbon odor | | |
| 24 | | | | | | | |
| 25 | | 6-8-13-15 | 100 | 1.3 | Moist, olive green fine SAND, trace Silt, trace Mica | | |
| 26 | | | | | | | |
| 27 | | 5-7-10-12 | 100 | 11.3 | 0-16" Moist, olive green fine SAND, trace Silt, trace Mica, slight hydrocarbon odor | | |
| 28 | | | | 1.3 | 16-24" Moist, orange/brown SILT and CLAY, little medium to coarse SAND | | |
| 29 | | 6-8-10-13 | 33 | 0.6 | Moist, orange/brown SILT and CLAY, some fine to medium SAND, trace fine Gravel | | |
| 30 | | | | | | | |
| 31 | | 2-5-8-8 | 100 | 24.4 | Wet, olive green, fine SAND, trace Silt, trace fine Gravel, slight hydrocarbon odor | | |
| 32 | | | | | | | |
| 33 | | 2-4-4-8 | 100 | 24.8 | 0-18" Moist, dark grey, fine SAND, trace Silt, trace Mica, slight hydrocarbon odor | | |
| 34 | | | | | 18-24" Moist, orange/brown medium to coarse SAND, trace Silt, trace fine to medium Gravel | | |
| 35 | | 8-10-13-16 | 50 | 2.1 | Wet, yellow/brown, fine to coarse SAND, trace fine Gravel, trace Mica | | |
| 36 | | | | | | | |
| 37 | | 5-6-6-7 | 50 | 0.0 | Moist, yellow/brown, medium to coarse SAND, trace Silt, trace Clay, trace fine Gravel | | |
| 38 | | | | | | | |
| 39 | SB-40 (39-41) | 7-10-8-11 | 75 | 0.0 | Moist, yellow/brown, fine to coarse SAND, trace fine Gravel, trace Mica | | |
| 40 | | | | | | | |
| 41 | | | | | **End of Boring at 41 ft bgs** | | |

**SAMPLING METHOD**
WH = WEIGHT OF RODS
HC = HAND CLEARED
VC = VACUUM CLEARED
GP = GEOPROBE/DIRECT PUSH

**COMMENTS:**
Boring was hand cleared to 5' bgs; Hollow stem auger and split spoon from 5' to 41' bgs
NAPL encountered from approximately 13 to 21 ft bgs

**PARSONS**
**DRILLING RECORD**

**BORING/WELL ID: SB-41**
Sheet 1 of 1

**Contractor:** Advanced Drilling Technology (ADT)
**Driller:** Chris Stratton, Tom Sheerin
**Inspector:** Zohar Lavy
**Rig Type:** Track Mounted Hollow Stem Auger CME 55

**PROJECT NAME:** Con Edison /Farrington Street Works
**PROJECT NUMBER:** 446109-03000

**Location Description:**
East central portion of the Con Edison Yard

| GROUNDWATER OBSERVATIONS | | | | |
|---|---|---|---|---|
| Water Level | DTW ~13' | DTW | | |
| Date | 9/26/2011 | | | |
| Time | 1035 | | | |
| Meas. From | ft bgs - Split Spoon | | | |

**Weather:** Partly Cloudy, High of 80F
**Date/Time Start:** 9/26/2011 ; 0950
**Date/Time Finish:** 9/26/2011 ; 1330

**Location Plan**
See Site Plan

| Sample Depth | Sample I.D. | SPT | Rec. (%) | PID (ppm) | FIELD IDENTIFICATION OF MATERIAL | SCHEMATIC (drawing not to scale) | COMMENTS |
|---|---|---|---|---|---|---|---|
| +1 | | | | | | | |
| 0 | | Vactron | | | 0-8" Black, fine to medium angular to sub-angular GRAVEL | | |
| 1 | | Vactron | | | 8"-1.5' Brown, fine to medium SAND, some fine to medium sub-angular Gravel, little Silt<br>1.5'-2' Belgium BLOCKS | | |
| 2 | | Vactron | | 776.0 | 2-5' Black, fine to medium SAND, little fine to medium sub-angular Gravel, trace Silt, strong petroleum-like odor | | |
| 3 | | Vactron | | | | | |
| 4 | | Vactron | | | | | |
| 5 | | 3-1-1-1 | 42 | 800.0 | 0-6" Wet, dark brown, fine to coarse SAND, little Silt, strong hydrocarbon odor, slight staining, little sub-angular Gravel | | |
| 6 | | | | | 6-10" Moist, olive/brown, fine to coarse SAND, little sub-angular to round Gravel, trace Silt, slight hydrocarbon odor, staining | | |
| 7 | | 3-2-2-3 | 75 | 1216.0 | 0-8" Moist, olive/brown, fine to coarse SAND, little sub-angular to round Gravel, little Silt,trace fine sub-round Gravel, slight hydrocarbon odor, staining; 8-10" Dry, gray, fine SAND, slight hydrocarbon odor | | |
| 8 | | | | | | | |
| 9 | | 4-3-4-6 | 67 | 1301.0 | Dry, gray, fine SAND, slight hydrocarbon odor, striated black staining, trace mica | | |
| 10 | | | | | | | |
| 11 | | 8-4-5-4 | 75 | 1268.0 | Dry, gray, fine to medium SAND, slight hydrocarbon odor | | |
| 12 | | | | | | | |
| 13 | SB-41 (13-15) | 10-4-5-5 | 75 | 2043.0 | Wet, black, medium SAND, heavy staining, hydrocarbon odor, NAPL Blebs-saturated | | |
| 14 | | | | | | | |
| 15 | | 1-1-2-2 | 50 | 1834.0 | Wet, black, medium SAND, heavy staining, hydrocarbon odor, NAPL saturated | | |
| 16 | | | | | | | |
| 17 | | 5-6-6-5 | 100 | 1475.0 | 0-16" Wet, black, medium SAND, heavy staining, hydrocarbon odor, NAPL saturated | | |
| 18 | | | | 926.0 | 16-24" Moist, gray, fine SAND, trace Mica, hydrocarbon odor | | |
| 19 | | 1-2-3-2 | 50 | 197.0 | Wet, dark gray, fine to medium SAND, slight hydrocarbon odor | | |
| 20 | | | | | | | |
| 21 | | 1-3-2-2 | 67 | 350.0 | Wet, gray/brown, fine to medium SAND, slight hydrocarbon odor | | |
| 22 | | | | | | | |
| 23 | | 2-2-5-5 | 71 | 125.0 | Wet, brown, fine to medium SAND, trace Mica, slight hydrocarbon odor | | |
| 24 | | | | | | | |
| 25 | | WH-WH-1-1 | 58 | 36.7 | Wet, brown, fine to medium SAND, trace Mica | | |
| 26 | | | | | | | |
| 27 | | 1-1-2-1 | 67 | 34.2 | 0-12" Wet, brown, fine to medium SAND, trace Mica | | |
| 28 | | | | | 12-16" Wet, brown/gray, fine to medium SAND, trace Mica, trace Silt | | |
| 29 | | 2-4-5-6 | 75 | 59.1 | Wet, brown, fine to coarse SAND | | |
| 30 | | | | | | | |
| 31 | | 2-5-1-1 | 0 | NA | No Recovery | | |
| 32 | | | | | | | |
| 33 | SB-41 (33-35) | 2-2-3-3 | 75 | 2.5 | 0-6" Wet, tan, coarse SAND, some fine round Gravel | | |
| 34 | | | | | 6-18" Moist, brown/gray, fine SAND, little Silt, trace Mica | | |
| 35 | | | | | **End of Boring at 35 ft bgs** | | |

**SAMPLING METHOD**
WH = WEIGHT OF RODS
HC = HAND CLEARED
VC = VACUUM CLEARED
GP = GEOPROBE/DIRECT PUSH

**COMMENTS:**
Boring was hand cleared to 5' bgs; Hollow stem auger and split spoon from 5' to 35' bgs
NAPL encountered from approximately 13 to 18.5 ft bgs

**PARSONS**
**DRILLING RECORD**

**BORING/WELL ID: SB-42**

Sheet 1 of 1

**Contractor:** Advanced Drilling Technology (ADT)
**Driller:** Chris Stratton, Tom Sheerin
**Inspector:** Zohar Lavy
**Rig Type:** Track Mounted Hollow Stem Auger CME 55

**PROJECT NAME:** Con Edison /Farrington Street Works
**PROJECT NUMBER:** 446109-03000

**Location Description:** Approx. 200' W of Farrington St., 80' N of 32nd Ave

| GROUNDWATER OBSERVATIONS | | | | |
|---|---|---|---|---|
| Water Level | DTW ~4' bgs | DTW | | |
| Date | 8/23/2012 | | | |
| Time | 930 | | | |
| Meas. From | ft bgs Hand Clearance | | | |

**Weather:** Cloudy, slight rain, 70s, wind 5-10 mph E

**Date/Time Start:** 9/29/2011 - 1400

**Date/Time Finish:** 9/30/2011 - 1020

**Location Plan**

See Site Plan

| Sample Depth | Sample I.D. | SPT | Rec. in. | PID (ppm) | FIELD IDENTIFICATION OF MATERIAL | SCHEMATIC (drawing not to scale) | COMMENTS |
|---|---|---|---|---|---|---|---|
| +1 | | | | | | | |
| | | | | | | | |
| 0 | | Vactron | | 0.0 | 0-8" Dry, coarse sub-angular GRAVEL | | |
| 1 | | Vactron | | 0.0 | 8"-2' Dry, brown, fine to coarse SAND, some sub-angular Gravel, trace Silt | | |
| 2 | | Vactron | | 0.0 | 2-4' Moist, brown, fine to coarse SAND, little fine to coarse round Gravel, trace Silt | | |
| 3 | | Vactron | | 0.0 | 4-5' Wet, brown, fine to coarse SAND, little fine to coarse round Gravel, trace Silt | | |
| 4 | | Vactron | | 0.0 | | | |
| 5 | | 3-7-1-18 | 50 | 10.1 | 0-8" Wet Dark brown, fine to coarse SAND and angular GRAVEL | | |
| 6 | | | | | 8-12" COBBLE/CONCRETE | | |
| 7 | | 50/1" | 0 | NA | No Recovery | | Due to refusal, auger was advanced to 8 ft bgs |
| 8 | | 15-21-13-19 | 75 | 18.3 | Moist, dark brown/black, fine to coarse SAND, some Cobble and agular Gravel | | |
| 9 | | | | | | | |
| 10 | | 19-19-22-21 | 33 | 165.0 | Moist, dark brown/black, fine to coarse SAND, some Cobble and agular Gravel, slight hydrocarbon odor | | |
| 11 | | | | | | | |
| 12 | | 10-10-9-12 | 67 | 632.0 | 0-6" Wet, dark brown/black, fine to coarse SAND, some Cobble and agular Gravel, slight hydrocarbon odor; 6"-14" Wet, fine to medium SAND, trace Silt, hydrocarbon odor; 14-16" Wet, fine to medium SAND, NAPL blebs, staining, hydrocarbon odor | | |
| 13 | | | | | | | |
| 14 | SB-42(14-16) | 8-10-11-9 | 67 | 656.0 | 0-8" Wet, fine to medium SAND, NAPL blebs to saturation, staining, hydrocarbon odor; 8-16"Wet, black, medium to coarse SAND, NAPL saturation, strong hydrocarbon odor, staining | | |
| 15 | | | | | | | |
| 16 | | 4-7-7-7 | 0 | NA | No Recovery | | |
| 17 | | | | | | | |
| 18 | | 3-3-4-8 | 75 | 76.8 | 0-14" Moist, dark grey, fine SAND, trace Mica, hydrocarbon odor; 14-18" Moist, dark grey, fine SAND, trace Mica, trace Silt, hydrocarbon odor | | |
| 19 | | | | | | | |
| 20 | | 5-5-7-10 | 58 | 48.6 | 0-10" Moist, dark grey, fine SAND, trace Mica, trace Silt, hydrocarbon odor; 10-14" Wet, black fine to coarse SAND, trace sub-angular fine Gravel, slight hydrocarbon odor | | |
| 21 | | | | | | | |
| 22 | | 3-4-5-5 | 83 | 585.0 | 0-8" Wet, black fine to coarse SAND, trace sub-angular fine Gravel, slight hydrocarbon odor; 8-20" Wet, black, medium SAND, NAPL saturation, strong hydrocarbon odor | | |
| 23 | SB-42(22-24) | | | | | | |
| 24 | | 4-5-6-6 | 58 | 521.0 | Wet, black, medium SAND, NAPL saturation, strong hydrocarbon odor | | |
| 25 | | | | | | | |
| 26 | | 4-8-8-6 | 100 | 33.6 | 0-12" Wet, black, medium SAND, NAPL saturation, strong hydrocarbon odor; 12-24" Moist, olive/grey, fine SAND, trace Silt, slight hydrocarbon odor | | |
| 27 | | | | | | | |
| 28 | | 3-6-6-12 | 50 | 128.0 | Moist, dark grey, fine SAND, NAPL blebs, staining, hydrocarbon odor | | |
| 29 | | | | | | | |
| 30 | | 3-4-7-9 | 42 | 18.5 | Wet, brown, fine to medium SAND, slight hydrocarbon odor | | |
| 31 | | | | | | | |
| 32 | | 3-4-8-10 | 50 | 10.3 | 0-8" Moist, orange/brown, fine to medium SAND, trace fine sub-round Gravel; 8-12" Moist, orange/brown SILT, trace Clay | | |
| 33 | | | | | | | |
| 34 | SB-42(34-36) | 2-4-3-5 | 75 | 2.1 | 0-8" Moist, orange fine SAND, some Silt, trace Clay; 8-18" Moist, orange, fine SAND and SILT, little Clay, trace round fine Gravel | | |
| 35 | | | | | | | |
| 36 | | | | | **End of Boring at 36 ft bgs** | | |

**SAMPLING METHOD**
WH = WEIGHT OF RODS
HC = HAND CLEARED
VC = VACUUM CLEARED
GP = GEOPROBE/DIRECT PUSH

**COMMENTS:**
Boring was hand cleared to 5' bgs; Hollow stem auger and split spoon from 5' to 36' bgs
NAPL encountered from approximately 12 to 16 and 22.5 to 30 ft bgs

**PARSONS**
**DRILLING RECORD**

**BORING/WELL ID: SB-43**

Sheet 1 of 1

**Contractor:** Advanced Drilling Technology (ADT)
**Driller:** Chris Stratton, Tom Sheerin
**Inspector:** Lopa Naik
**Rig Type:** Track Mounted Hollow Stem Auger CME 55

**PROJECT NAME:** Con Edison /Farrington Street Works
**PROJECT NUMBER:** 446109-03000

**Location Description:** Approx. 90' W of Farrington St., 100' N of 32nd Ave.

GROUNDWATER OBSERVATIONS

| | | | | |
|---|---|---|---|---|
| Water Level | DTW ~13.5' bgs | | | |
| Date | 9/27/11 | | | |
| Time | 1155 | | | |
| Meas. From | ft bgs - Split Spoon | | | |

**Weather:** Cloudy, 70s-80s, Wind: 0-5 mph NS

**Date/Time Start:** 09/27/11 1100

**Date/Time Finish:** 09/27/11 1500

**Location Plan**

See Site Plan

| Sample Depth | Sample I.D. | SPT | Rec. in. | PID (ppm) | FIELD IDENTIFICATION OF MATERIAL | SCHEMATIC (drawing not to scale) | COMMENTS |
|---|---|---|---|---|---|---|---|
| +2 | | | | | | | |
| | | | | | | | |
| +1 | | | | | | | |
| | | | | | | | |
| 0 | | Vactron | | | 0-12" Dry, fine to coarse GRAVEL | | |
| 1 | | Vactron | | | 1-2' COBBLE | | |
| 2 | | Vactron | | | 2-5' Dry, brown, fine to medium SAND, some sub-round to round fine to coarse Gravel | | |
| 3 | | Vactron | | 0.0 | | | |
| 4 | | Vactron | | | | | |
| 5 | | 11-9-8-11 | 24 | 0 | 0-12" Dry, black, fine to coarse SAND, little angular fine to medium Gravel | | |
| 6 | | | | | 12-24" Brown/tan, fine to medium SAND, trace round fine Gravel | | |
| 7 | | 11-12-9-6 | 24 | 0 | Dry, brown/tan, fine to medium SAND, trace round fine Gravel | | |
| 8 | | | | | | | |
| 9 | | 1-2-1-1 | 16 | 3 | 0-12" Moist, brown/tan, fine SAND, trace Mica, trace Silt | | |
| 10 | | | | | 12-16" Moist, olive green, fine SAND, little round fine Gravel, trace Mica, slight hydrocarbon odor | | |
| 11 | | 4-5-5-7 | 20 | 70.1 | Moist, dark gray, fine to coarse SAND, little round fine Gravel, trace Mica, slight hydrocarbon odor | | |
| 12 | | | | | | | |
| 13 | | 5-7-7-6 | 12 | 170 | Wet, black, fine to coarse SAND, trace fine Gravel, trace Mica, NAPL staining/blebs, strong hydrocarbon odor | | |
| 14 | | | | | | | |
| 15 | SB-43(15-17) | 6-12-10-6 | 20 | 223 | Wet, dark gray, fine to medium SAND, trace Mica, trace Silt, NAPL blebs, staining, strong hydrocarbon odor | | |
| 16 | | | | | | | |
| 17 | | 3-2-2-4 | 20 | 92.8 | Wet, dark gray, fine SAND, trace Mica, trace Silt, stong hydrocarbon odor | | |
| 18 | | | | | | | |
| 19 | | 2-3-3-8 | 18 | 1.4 | Wet, brown/tan, fine SAND, trace Mica, trace Silt | | |
| 20 | | | | | | | |
| 21 | | 5-6-6-1 | 24 | 1.5 | Moist, brown/tan, fine SAND, trace sub-round Gravel, trace Mica, trace Silt | | |
| 22 | | | | | | | |
| 23 | | 6-6-6-8 | 24 | 2 | Wet, brown/tan, fine SAND, trace Mica, trace Silt | | |
| 24 | | | | | | | |
| 25 | | 5-6-6-8 | 24 | 1.6 | Moist, brown/tan, fine SAND, trace Mica, trace Silt | | |
| 26 | | | | | | | |
| 27 | | 3-3-5-3 | 24 | 0.6 | Wet, brown/tan, fine SAND, trace Mica, trace Silt | | |
| 28 | | | | | | | |
| 29 | SB-43(29-31) | 6-8-7-12 | 24 | 2 | Moist, brown/tan, fine SAND, trace fine to medium sub-round Gravel, trace Mica, trace Silt | | |
| 30 | | | | | | | |
| 31 | | | | | **End of Boring at 31 ft bgs** | | |

**SAMPLING METHOD**
WH = WEIGHT OF RODS
HC = HAND CLEARED
VC = VACUUM CLEARED
GP = GEOPROBE/DIRECT PUSH

**COMMENTS:**
Boring was hand cleared to 5' bgs; Hollow stem auger and split spoon from 5' to 36' bgs
NAPL encountered from approximately 13 to 17 ft bgs

**PARSONS**
**DRILLING RECORD**

**BORING NO.** SB-44 Sheet 1 of 1

**Contractor:** Advanced Drilling Technology
**Driller:** Chris Capabianco /Jamey Meyers
**Inspector:** Lopa Naik
**Rig Type:** Truck Mounted Hollow Stem Auger CME 85

**PROJECT NAME:** Con Edison /Farrington Street
**PROJECT NUMBER:** 446110-02000

**Location Description:** Southern portion of ECI (leased) Yard

**Location Plan**
See Site Plan

| GROUNDWATER OBSERVATIONS | | | | |
|---|---|---|---|---|
| Water Level | DTW ~16 ft bgs | | | |
| Date | 9-28-14 | | | |
| Time | 1030 | | | |
| Meas. From | ft bgs - Split Spoon | | | |

**Weather:** Cloudy, 70's, wind 5-10 mph NW
**Date/Time Start:** 9/28/11 9:55
**Date/Time Finish:** 9/28/11 12:55

| Sample Depth | Sample I.D. | SPT | Rec. (%) | PID (ppm) | FIELD IDENTIFICATION OF MATERIAL | SCHEMATIC (drawing not to scale) | COMMENTS |
|---|---|---|---|---|---|---|---|
| 0 | | Vac-tron | | 0.0 | 0-4" GRAVEL | | |
| 1 | | Vac-tron | | 0.0 | 4'-2' CONCRETE | | |
| 2 | | Vac-tron | | 0.0 | 2-8' Dry, brown, fine to coarse SAND, some fine to coarse sub-round to round Gravel, little | | Slag at 2 ft. |
| 3 | | Vac-tron | | | Silt, | | |
| 4 | | Vac-tron | | 0.0 | | | |
| 5 | | Vac-tron | | | | | |
| 6 | | Vac-tron | | 0.0 | | | |
| 7 | | Vac-tron | | | | | |
| 8 | | 5-5-9-13 | 50 | 0.9 | Dry, olive green, medium to coarse SAND, some angular fine to coarse Gravel, trace Silt | | |
| 9 | | | | | | | |
| 10 | | 9-7-7-5 | 50 | 1.3 | Dry, olive green, medium to coarse SAND, some angular fine to coarse Gravel, trace Silt | | |
| 11 | | | | | | | |
| 12 | | 10-8-9-6 | 67 | 0.3 | Moist, black, medium to coarse SAND, some round medium to coarse Gravel, trace Silt | | |
| 13 | | | | | | | |
| 14 | | 3-7-8-5 | 17 | 13.5 | Moist, black, medium to coarse SAND, little round fine Gravel, trace Silt | | |
| 15 | | | | | | | |
| 16 | SB-44(16.5-18) | 7-5-5-5 | 100 | 15.0 | 0-6" Wet, grey, fine to coarse SAND, little round fine Gravel, slight hydrocarbon odor | | |
| 17 | | | | 77.0 | 6-24" Wet, black, medium to coarse SAND, little round fine Gravel, NAPL blebs, staining | | |
| 18 | | 5-8-10-24 | 100 | 48.0 | Wet, olive green, fine to coarse SAND, little fine Gravel, trace Mica, slight hydrocarbon odor, | | |
| 19 | | | | | staining | | |
| 20 | | 3-6-7-12 | 100 | 17.3 | Moist, dark grey, fine SAND, trace Mica, trace Silt, slight hydrocarbon odor | | |
| 21 | | | | | | | |
| 22 | | 5-2-1-3 | 100 | 21.0 | Moist, dark grey, fine to coarse SAND, trace round fine Gravel, trace Mica, slight | | |
| 23 | | | | | hydrocarbon odor | | |
| 24 | | 10-9-13-11 | 100 | 41.0 | 0-18" Moist, dark grey, fine to medium SAND, trace round fine to medium Gravel, trace | | |
| 25 | | | | 0.3 | Mica, slight hydrocarbon odor; 18-24" Wet, olive green fine SAND, trace Mica | | |
| 26 | | 6-8-9-11 | 75 | 0.0 | Moist, brown/tan, fine SAND, trace Mica | | |
| 27 | | | | | | | |
| 28 | SB-44(28-30) | 7-5-5-8 | 67 | 0.0 | Moist, brown/tan, fine SAND, trace Mica | | |
| 29 | | | | | | | |
| 30 | | | | | **End of Boring at 30 ft bgs** | | |

**SAMPLING METHOD**
WH = WEIGHT OF RODS
HC = HAND CLEARED
VC = VACUUM CLEARED
GP = GEOPROBE/DIRECT PUSH

**COMMENTS:**
Boring was hand cleared to 5' bgs; Hollow stem auger and split spoon from 5' to 30' bgs
NAPL encountered from approximately 16.5 to 18 ft bgs

**PARSONS**
**DRILLING RECORD**

**BORING NO.** SB-45 — Sheet 1 of 1

**Contractor:** Advanced Drilling Technology
**Driller:** Chris Stratton/German Torres
**Inspector:** Zohar Lavy
**Rig Type:** Track Mounted Hollow Stem Auger CME 55

**PROJECT NAME:** Con Edison /Farrington Street Works
**PROJECT NUMBER:** 446109-03000

**Location Description:** South portion of the Hawkeye Yard

**Location Plan**
See Site Plan

| GROUNDWATER OBSERVATIONS | | | | |
|---|---|---|---|---|
| Water Level | DTW ~20' bgs | DTW | | |
| Date | 9/29/2011 | | | |
| Time | 9:05 | | | |
| Meas. From | ft bgs - Split Spoon | | | |

**Weather:** Cloudy, slight rain, 70s, wind 5-10 mph E
**Date/Time Start:** 9/28/2011 - 0940
**Date/Time Finish:** 9/29/2011 - 1020

| Sample Depth | Sample I.D. | SPT | Rec. in. | PID (ppm) | FIELD IDENTIFICATION OF MATERIAL | SCHEMATIC (drawing not to scale) | COMMENTS |
|---|---|---|---|---|---|---|---|
| +3 | | | | | | | |
| | | | | | | | |
| +2 | | | | | | | |
| | | | | | | | |
| +1 | | | | | | | |
| | | | | | | | |
| 0 | | Vactron | | NA | 0-8" COBBLE | | |
| 1 | | Vactron | | 0.0 | 8"-1.5' Dark brown, fine to coarse SAND and sub-angular to round GRAVEL | | |
| 2 | | Vactron | | 0.0 | 1.5-2' CONCRETE | | |
| 3 | | Vactron | | 0.0 | 2-6' Dry, dark brown, fine to coarse SAND and sub-angular GRAVEL, trace Wood, trace | | |
| 4 | | Vactron | | | Brick, trace Cobble | | |
| 5 | | 2-3-4-13 | 58 | 4.2 | Dry, orange/brown, fine to coarse SAND, some angular to sub-round Gravel | | |
| 6 | | | | | | | |
| 7 | | 13-12-14-15 | 75 | 7.3 | Dry, orange/brown, fine to coarse SAND, some angular to sub-round Gravel, trace Cobble | | |
| 8 | | | | | | | |
| 9 | | 2-5-6-2 | 33 | 28.7 | 0-4" Dry, orange/brown, fine to coarse SAND, trace sub-angular to round Gravel, trace Silt; 4-8" Moist, gray/black, medium to coarse SAND, staining, hydrocarbon odor, NAPL blebs | | |
| 10 | | | | | | | |
| 11 | | 6-6-6-5 | 58 | 346 | Moist, gray/black, medium to coarse SAND, staining, hydrocarbon odor, NAPL blebs | | |
| 12 | | | | | | | |
| 13 | **SB-45(13-15)** | 5-6-7-6 | 75 | 671 | 0-10" Moist, gray/black, medium to coarse SAND, staining, hydrocarbon odor, NAPL blebs; 10-18" Wet, dark gray, fine SAND, trace Mica, hydrocarbon odor, slight staining | | |
| 14 | | | | | | | |
| 15 | | 1-2-1-2 | 83 | 395 | Wet, dark gray/black, fine to medium SAND, trace Mica, hydrocarbon odor, NAPL blebs/saturated | | |
| 16 | | | | | | | |
| 17 | | 3-3-3-3 | 58 | 321 | Wet, dark gray/black, fine to medium SAND, trace Mica, hydrocarbon odor, slight NAPL blebs | | |
| 18 | | | | | | | |
| 19 | | 3-2-3-7 | 100 | 141 | 0-14" Wet, dark brown, medium SAND, little sub-angular to round fine Gravel, slight hydrocarbon odor; 14-24" Wet, orange/brown, medium SAND, little sub-angular to round fine Gravel, slight hydrocarbon odor | | |
| 20 | | | | | | | |
| 21 | | 3-4-4-6 | 100 | 422 | 0-18" Wet, orange/brown, medium SAND, little sub-angular to round fine Gravel, slight hydrocarbon odor | | |
| 22 | | | | | 18-24" Wet, black, medium SAND, NAPL saturated, strong hydrocarbon odor, staining | | |
| 23 | | 5-3-3-2 | 83 | 267 | 0-8" Wet, orange/brown, medium SAND, NAPL blebs, hydrocarbon odor | | |
| 24 | | | | 429 | 8-12" Wet, black medium SAND, NAPL saturated, strong hydrocarbon odor | | |
| | | | | 302 | 12-20" Wet, orange/brown, medium SAND, NAPL blebs, hydrocarbon odor | | |
| 25 | | 4-3-5-6 | 58 | 154 | Wet, orange/brown, fine to medium SAND, trace Mica, slight hydrocarbon odor | | |
| 26 | | | | | | | |
| 27 | **SB-45(27-29)** | 5-4-4-5 | 100 | 225 | 0-6" Wet, orange/brown, fine to medium SAND, trace Mica, slight hydrocarbon odor | | |
| 28 | | | | 692 | 6-14" Wet, black, medium SAND, NAPL saturated, staining, strong hydrocarbon odor<br>14-24" Wet, orange/brown, medium to coarse SAND, little sub-round fine Gravel, NAPL blebs, sheen, hydrocarbon odor | | |
| 29 | | 4-6-8-8 | 67 | 244 | Wet, orange/brown, medium to coarse SAND, little sub-round fine Gravel, NAPL blebs, | | |
| 30 | | | | | sheen, hydrocarbon odor | | |
| 31 | | 7-8-12-12 | 75 | 240 | 0-10" Wet, orange/brown, medium to coarse SAND, little sub-round fine Gravel, NAPL blebs, sheen, hydrocarbon odor | | |
| 32 | | | | | 10-14" Wet, black, medium to coarse SAND, NAPL saturated, staining, strong hydrocarbon odor | | |
| 33 | | 5-7-9-12 | 0 | NA | No Recovery | | |
| 34 | | | | | | | |
| 35 | | 3-4-4-6 | 50 | 12.8 | Wet, orange/brown, fine to medium SAND, trace Mica, slight hydrocarbon odor | | |
| 36 | | | | | | | |
| 37 | | 16-14-15-13 | 0 | NA | No Recovery | | |
| 38 | | | | | | | |
| 39 | | 12-10-10-14 | 58 | 14.6 | Wet, brown, medium to coarse SAND, hydrocarbon odor | | |
| 40 | | | | | | | |
| 41 | | 5-8-8-7 | 0 | NA | No Recovery | | |
| 42 | | | | | | | |
| 43 | **SB-45(43-45)** | 5-11-8-13 | 100 | 1.6 | 0-16" Wet, orange/brown, medium SAND; 16-24" Wet, orange/brown, fine SAND, trace silt | | |
| 44 | | | | | | | |
| 45 | | 2-2-9-6 | 17 | 2.1 | Wet, orange/brown, fine SAND, trace silt | | |
| 46 | | | | | | | |
| 47 | | | | | **End of Boring at 47 ft bgs** | | |

**SAMPLING METHOD**
WH = WEIGHT OF RODS
HC = HAND CLEARED
VC = VACUUM CLEARED
GP = GEOPROBE/DIRECT PUSH

**COMMENTS:**
Boring was hand cleared to 5' bgs; Hollow stem auger and split spoon from 5' to 47' bgs
NAPL encountered from approximately 9-19 ft bgs, 21-25 ft bgs, and 27.5 to 33 ft bgs

**PARSONS**
**DRILLING RECORD**

**BORING/WELL ID: SB-46**

Sheet 1 of 1

**Contractor:** Advanced Drilling Technology
**Driller:** Andrea Babel
**Inspector:** Eric Gaulin
**Rig Type:** Geoprobe 6620 DT

**PROJECT NAME:** Con Edison /Farrington Street Works
**PROJECT NUMBER:** 446109-03000

**Location Description:** South side of 32nd Ave.

See Site Plan

**Weather:** Cloudy, 60s, wind 10-15 mph W
**Date/Time Start:** 10/24/2011 - 0939
**Date/Time Finish:** 10/24/2011 - 1115

| WATER OBSERVATIONS | | | | |
|---|---|---|---|---|
| Water Level | DTW ~12' bgs | DTW | | |
| Date | 10/24/2011 | | | |
| Time | 0:00 | | | |
| Meas. From | ft bgs - Macrocore | | | |

| Sample Depth | Sample I.D. | SPT | Rec. (%) | PID (ppm) | FIELD IDENTIFICATION OF MATERIAL | COMMENTS |
|---|---|---|---|---|---|---|
| +1 | | | | | | |
| | | | | | | |
| 0 | | Vactron | | NA | 0-6" COCRETE and TRAP ROCK | |
| 1 | | Vactron | | 0.0 | 6"-8.5' Brown, fine to coarse SAND, some Silt and Gravel, little Brick | |
| 2 | | Vactron | | 0.0 | | |
| 3 | | Vactron | | | | |
| 4 | | Vactron | | | | |
| 5 | | Geoprobe | 35 | 0.0 | 0-6" GRAVEL | |
| 6 | | Geoprobe | | 183.0 | 6-21" Light brown/red, fine to medium SAND, trace fine sub-round to round Gravel, staining | |
| 7 | | Geoprobe | | | | |
| 8 | | Geoprobe | | | | |
| 9 | | Geoprobe | | | | |
| 10 | | Geoprobe | 47 | 306.0 | 0-2" Light brown/red, fine to medium SAND, trace fine sub-round to round Gravel, staining | |
| 11 | SB-46 (11-12) | Geoprobe | | | | |
| 12 | | Geoprobe | | 2871.0 | 2-8" Coarse round to sub-angular GRAVEL and fine to coarse SAND | |
| 13 | | Geoprobe | | 1491.0 | 8-28" Wet, tan/white, medium to coarse SAND, little fine Gravel | |
| 14 | | Geoprobe | | | | |
| 15 | | Geoprobe | 83 | | 0-24" Wet, tan/white, medium to coarse SAND, little fine Gravel | |
| 16 | | Geoprobe | | 117.0 | 24-38" Wet, orange/brown, fine to medium SAND | |
| 17 | | Geoprobe | | | 38-50" Wet, orange/brown, fine to medium SAND, grey/brown Clay and Silt striations | |
| 18 | | Geoprobe | | | | |
| 19 | | Geoprobe | | | | |
| 20 | | Geoprobe | 87 | 134.0 | 0-4" Wet, orange/brown, fine to medium SAND, grey/brown Clay and Silt striations | |
| 21 | | Geoprobe | | 134.0 | 4-15" Fine to medium SAND, trace Silt | |
| 22 | | Geoprobe | | 112.0 | 15-23" Striated SILT and CLAY | |
| | | Geoprobe | | 136.0 | 23-27" Moist, yellow/brown, fine SAND | |
| 23 | | Geoprobe | | 136.0 | 27-32" Dry, red/brown, SILT, little Sand | |
| | | Geoprobe | | 120.0 | 32-35" White fine to medium SAND | |
| | | Geoprobe | | 190.0 | 35-47" Red/brown SILT, little fine Sand, trace fine Gravel, trace Clay | |
| 24 | | Geoprobe | | 77.0 | 47-56" Dry, grey/brown, SILT and CLAY | |
| 25 | | Geoprobe | 83 | 124.0 | 0-2" Dry, grey/brown, SILT and CLAY | |
| 26 | | Geoprobe | | 80.2 | 2-15" Wet, tan/yellow, fine SAND, trace Silt | |
| 27 | | Geoprobe | | 54.2 | 15-19" Red/brown, fine SAND and SILT, trace Clay | |
| | | Geoprobe | | 54.2 | 19-23" Yellow/white, fine SAND | |
| 28 | | Geoprobe | | 55.5 | 23-38" Moist, red/brown, fine to medium SAND, bands of Clay and medium Sand | |
| | | Geoprobe | | 57.5 | 38-42" Yellow/brown fine to medium SAND, trace Silt | |
| 29 | | Geoprobe | | 57.5 | 42-50" Dry, drak grey/brown, fine to medium SAND, little Silt, little Clay | |
| 30 | | Geoprobe | 100 | 20 | 0-8" White/light grey, fine SAND | |
| 31 | | Geoprobe | | 0 | 8-13" Red/brown, fine to medium SAND, little Clay | |
| 32 | | Geoprobe | | 0 | 13-39" Wet, red/brown, fine to coarse SAND, trace fine to coarse Gravel | |
| 33 | | Geoprobe | | 0 | 39-58" Red, SILT and fine SAND, bands of fine to medium Sand | |
| 34 | | Geoprobe | | 0 | 58-60" Moist, grey, CLAY and SILT | |
| 35 | | Geoprobe | 100 | 0 | 0-30" Wet, yellow/brown, fine to medium SAND, little Silt | |
| 36 | | Geoprobe | | 0 | 30-45" Grey, fine SAND and SILT, trace fine to coarse angular to sub-round Gravel | |
| 37 | | Geoprobe | | 0 | 45-48" Light grey, fine SAND | |
| 38 | | Geoprobe | | 0 | 48-56" Brown, fine to medium SAND | |
| 39 | SB-46 (39-40) | Geoprobe | | 0 | 56-60" Grey, fine to medium SAND | |
| 40 | | | | | **End of Boring at 40 ft bgs** | |

**SAMPLING METHOD**
WH = WEIGHT OF HAMMER
HC = HAND CLEARED
VC = VACUUM CLEARED
WOR = WEIGHT OF RODS

**COMMENTS:**
0-5 ft bgs was hand cleared
5-40 ft bgs advanced utilizing direct push Geoprobe methods

**PARSONS**
**DRILLING RECORD**

**BORING/WELL ID: SB-47**

Sheet 1 of 1

**Contractor:** Advanced Drilling Technology (ADT)
**Driller:** Shawn Miller, Bernie Cruz
**Inspector:** Zohar Lavy
**Rig Type:** Truck CME-85

**PROJECT NAME:** Con Edison /Farrington Street Works
**PROJECT NUMBER:** 446109-06000

**Location Description:** Pathmark Parking Lot

**Weather:** Cloudy, Snow, Mid Teens, Gusty
**Date/Time Start:** 12/24/13 0730
**Date/Time Finish:** 01/2/14 0938

See Site Plan

| GROUNDWATER OBSERVATIONS | | | | |
|---|---|---|---|---|
| Water Level | DTW ~ 8 ft bgs | DTW | | |
| Date | 1/2/14 | | | |
| Time | 835 | | | |
| Meas. From | Split Spoon | | | |

| Sample Depth | Sample I.D. | SPT | Rec. (%) | PID (ppm) | FIELD IDENTIFICATION OF MATERIAL | COMMENTS |
|---|---|---|---|---|---|---|
| +1 | | | | | | |
| | | | | | | |
| 0 | | Vactron | | NA | 0-4" ASPHALT | |
| 1 | | Vactron | | 0.0 | 4"-5' Dry, brown, fine to medium SAND, some Concrete, little Cobble, trace Wood | |
| 2 | | Vactron | | 0.0 | | |
| 3 | | Vactron | | 0.0 | | |
| 4 | | Vactron | | 0.0 | | |
| 5 | | 12-9-9-17 | 50 | 1.1 | Dry, brown, fine to medium SAND, some angular to sub-angular fine to coarse Gravel | |
| 6 | | | | | | |
| 7 | | 22-11-12-15 | 58 | 1.9 | 0-7" Dry, brown, fine to medium SAND, some angular to sub-angular fine to coarse Gravel; 7-14" Wet, black, fine SAND and fine to coarse angular GRAVEL, trace Brick | |
| 8 | | | | | | |
| 9 | | 11-15-6-3 | 58 | 4.5 | 0-5" Wet, black, fine SAND and fine to coarse angular Gravel, trace Brick; 5-14" Moist, brown, fine to medium SAND, some fine to medium sub-angular Gravel, trace Concrete, trace Silt | |
| 10 | | | | | | |
| 11 | | 1-1-1-1 | 25 | 132.0 | Wet, fine to medium angular GRAVEL, little fine Sand, trace Wood, moderate hydrocarbon odor, staning, NAPL blebs, sheens | |
| 12 | | | | | | |
| 13 | | 6-5-3-1 | 25 | 73.5 | Wet, fine to medium angular GRAVEL, little fine Sand, trace Wood, trace Slag, moderate hydrocarbon odor, staning, NAPL blebs, sheens | |
| 14 | | | | | | |
| 15 | SB-47 (15-17) | 7-8-2-7 | 83 | 234.0 | 0-16" Wet, dark brown/black, fine to medium SAND and fine to medium angular to sub-angular GRAVEL, hydrocarbon odor, staining, NAPL blebs, sheens; 16-20" PEAT | |
| 16 | | | | 162.0 | | |
| 17 | | 1-1-1-1 | 83 | 177.0 | 0-6" PEAT; 6-20" Moist, grey CLAY and PEAT | |
| 18 | | | | | | |
| 19 | | 1-1-1-1 | 50 | 83.0 | Moist, grey CLAY and PEAT | |
| 20 | | | | | | |
| 21 | | WH-1-1-1 | 50 | 35.7 | Moist, grey CLAY | |
| 22 | | | | | | |
| 23 | | 2-2-1-2 | 58 | 23.6 | Moist, grey CLAY | |
| 24 | | | | | | |
| 25 | | 2-3-3-3 | 83 | 16.4 | 0-12" Moist grey CLAY; 12-20" Wet, tan, fine SAND, some Silt | |
| 26 | | | | | | |
| 27 | | 3-4-6-5 | 58 | 3.6 | Wet, brown, medium SAND, trace fine to medium sub-angular Gravel | |
| 28 | | | | | | |
| 29 | SB-47 (29-31) | 2-2-3-4 | 100 | 4.1 | Wet, brown, medium SAND, trace fine to medium sub-angular Gravel | |
| 30 | | | | | | |
| 31 | | | | | **End of Boring at 31 ft bgs** | |

**SAMPLING METHOD**
WH = WEIGHT OF HAMMER
HC = HAND CLEARED
VC = VACUUM CLEARED
WOR = WEIGHT OF RODS

**COMMENTS:**
0-5 ft bgs was hand cleared
5-31 ft bgs advanced utilizing hollow stem augers and split spoons
NAPL encountered from approximately 11 to 17 ft bgs

**PARSONS**
**DRILLING RECORD**

**BORING/WELL ID: CSB-48**

Sheet 1 of 1

**Contractor:** Advanced Drilling Technology (ADT)
**Driller:** Shawn Miller, Bernie Cruz
**Inspector:** Zohar Lavy
**Rig Type:** Truck CME-85

**PROJECT NAME:** Con Edison /Farrington Street Works
**PROJECT NUMBER:** 446109-06000

**Location Description:** Pathmark Parking Lot

**Weather:** Cloudy, 13 F, Windy
**Date/Time Start:** 1/6/14 0720
**Date/Time Finish:** 01/7/14 1030

See Site Plan

| GROUNDWATER OBSERVATIONS | | | | |
|---|---|---|---|---|
| Water Level | DTW ~ 7 ft bgs | DTW | | |
| Date | 1/7/14 | | | |
| Time | 923 | | | |
| Meas. From | Split Spoon | | | |

| Sample Depth | Sample I.D. | SPT | Rec. (%) | PID (ppm) | FIELD IDENTIFICATION OF MATERIAL | COMMENTS |
|---|---|---|---|---|---|---|
| +3 | | | | | | |
| | | | | | | |
| +2 | | | | | | |
| | | | | | | |
| +1 | | | | | | |
| | | | | | | |
| 0 | | Vactron | | NA | 0-4" ASPHALT | |
| 1 | | Vactron | | 0.0 | 4"-5.5' Dry, brown, fine to coarse SAND, some Concrete, little Asphalt, little fine to coarse sub-angular to sub-round Gravel | |
| 2 | | Vactron | | 0.0 | | |
| 3 | | Vactron | | 0.0 | | |
| 4 | | Vactron | | 0.0 | | |
| 5 | | 8-3-3-12 | 58 | 3.2 | Moist, dark brown, fine to medium SAND, some fine to medium angular to sub-round Gravel, trace Slag, trace Wood | |
| 6 | | | | | | |
| 7 | | 4-4-6-11 | 33 | 6.3 | 0-6" Moist, dark brown, fine to medium SAND, some fine to medium angular to sub-round Gravel, trace Slag, trace Wood; 6-8" Wet, dark brown, fine to medium SAND, some fine to medium angular to sub-round Gravel, trace Slag, trace Wood | |
| 8 | | | | | | |
| 9 | | 4-3-7-4 | 25 | 8.9 | Wet, black, medium SAND and fine to medium sub-angular GRAVEL, slight hydrocarbon odor | |
| 10 | | | | | | |
| 11 | | 4-6-6-5 | 42 | 59.7 | Wet, black, medium SAND and fine to medium sub-angular GRAVEL, moderate hydrocarbon odor, NAPL Blebs | |
| 12 | | | | | | |
| 13 | | 4-7-11-7 | 50 | 433.0 | Wet, black, medium SAND and fine to medium sub-angular GRAVEL, strong hydrocarbon odor, NAPL Saturation | |
| 14 | | | | | | |
| 15 | CSB-48 (15-17) | 2-2-1-2 | 75 | 439.0 | 0-8" Wet, black, medium SAND and fine to medium sub-angular GRAVEL, strong hydrocarbon odor, NAPL Saturation; 8-18" PEAT, moderate hydrocarbon odor | |
| 16 | | | | 221.0 | | |
| 17 | CSB-48 (17-19)) | 1-1/18" | 25 | 98.3 | PEAT, moderate hydrocarbon odor | |
| 18 | | | | | | |
| 19 | | | | | **End of Boring at 19 ft bgs** | |

**SAMPLING METHOD**
WH = WEIGHT OF HAMMER
HC = HAND CLEARED
VC = VACUUM CLEARED
WOR = WEIGHT OF RODS

**COMMENTS:**
0-5 ft bgs was hand cleared
5-19 ft bgs advanced utilizing hollow stem augers and split spoons
NAPL encountered from approximately 11-16 ft bgs

**PARSONS**
**DRILLING RECORD**

**BORING/WELL ID: CSB-48D**
Sheet 1 of 1

**Contractor:** Advanced Drilling Technology (ADT)
**Driller:** Dave Moon, Bernie Cruz
**Inspector:** Zohar Lavy
**Rig Type:** Track Sonic

**PROJECT NAME:** Con Edison /Farrington Street Works
**PROJECT NUMBER:** 446109-06000

**Location Description:** Pathmark Parking Lot

| GROUNDWATER OBSERVATIONS | | | | |
|---|---|---|---|---|
| Water Level | DTW ~ 7 ft bgs | DTW | | |
| Date | 1/7/14 | | | |
| Time | 923 | | | |
| Meas. From | Split Spoon - See CSB-48 Boring Log | | | |

**Weather:** Clear, up to high 40s
**Date/Time Start:** 2/20/14 0820
**Date/Time Finish:** 2/20/14 1430

See Site Plan

| Sample Depth | Sample I.D. | SPT | Rec. (%) | PID (ppm) | FIELD IDENTIFICATION OF MATERIAL | | COMMENTS |
|---|---|---|---|---|---|---|---|
| 1 | | Vactron | | NA | 0-4" ASPHALT | | |
| 2 | | Vactron | | 0.0 | 4"-5' Dry, brown, fine to medium SAND, some Cobble, little Boulder | | |
| 3 | | Vactron | | 0.0 | | | |
| 4 | | Vactron | | 0.0 | | | |
| 5 | | Vactron | | 0.0 | | | |
| | | | | | | | |
| 25 | CSB-48D (25-30) | NA | 100 | 142 | Moist, grey, CLAY, slight sulfur and hydrocarbon odor | | See CSB-48 log for 0-19 ft bgs lithology. 7" Sonic casing was utilized to seal off clay confining unit to 25 ft bgs |
| 26 | CSB-148 (25-30) | NA | | | | | |
| 27 | | NA | | | | | |
| 28 | | NA | | | | | |
| 29 | | NA | | | | | |
| 30 | | NA | 100 | 72.5 | 0-40" Wet, brown, medium SAND, little round to angular fine to medium Gravel, trace Cobble, slight hydrocarbon odor | | |
| 31 | | NA | | | | | |
| 32 | | NA | | 12.8 | 40-60" Moist, brown, fine SAND, some Silt, little fine angular to round Gravel, trace Clay | | |
| 33 | | NA | | | | | |
| 34 | | NA | | | | | |
| 35 | | NA | 100 | 3.7 | 0-10" Moist, brown, fine SAND, some Silt, little fine angular to round Gravel, trace Clay | | |
| 36 | | NA | | 3.7 | 10-42" Wet, brown, medium SAND, trace fine sub-angular Gravel | | |
| 37 | | NA | | 1.1 | 42-60" Moist, brown fine SAND, some Silt, little fine angular to round Gravel, trace Clay | | |
| 38 | | NA | | | | | |
| 39 | | NA | | | | | |
| 40 | CSB-48D (40-45) | NA | 100 | 3.6 | 0-12" Moist, brown, fine SAND, some Silt, little fine angular to round Gravel, trace Clay | | |
| 41 | | NA | | 0.8 | 12-50" Wet, brown, fine to coarse SAND, trace fine sub-angular Gravel | | |
| 42 | | NA | | 0.8 | 50-60" Wet, dark brown, fine to coarse SAND, trace fine sub-angular Gravel | | |
| 43 | | NA | | | | | |
| 44 | | NA | | | | | |
| 45 | | NA | 73 | 0.8 | 0-30" Wet, dark brown, fine to coarse SAND, trace fine sub-angular Gravel | | |
| 46 | | NA | | | 30-44" Moist, tan/orange, fine to medium SAND | | |
| 47 | | NA | | | | | |
| 48 | | NA | | | | | |
| 49 | | NA | | | | | |
| 50 | | | | | **End of Boring at 50 ft bgs** | | |

**SAMPLING METHOD**
WH = WEIGHT OF HAMMER
HC = HAND CLEARED
VC = VACUUM CLEARED
WOR = WEIGHT OF RODS

**COMMENTS:**
0-5 ft bgs was hand cleared
5-50 bgs bgs was advanced utilizing Sonic methods

**PARSONS**
**DRILLING RECORD**

**BORING/WELL ID: SB-49**

Sheet 1 of 1

**Contractor:** Advanced Drilling Technology (ADT)
**Driller:** Shawn Miller, Bernie Cruz
**Inspector:** Zohar Lavy
**Rig Type:** Truck CME-85

**PROJECT NAME:** Con Edison /Farrington Street Works
**PROJECT NUMBER:** 446109-06000

**Location Description:** Pathmark Parking Lot

**Weather:** Clear, Mid 20s
**Date/Time Start:** 12/27/13 0730
**Date/Time Finish:** 01/8/14 1100

See Site Plan

| GROUNDWATER OBSERVATIONS | | | | |
|---|---|---|---|---|
| Water Level | DTW ~ 9 ft bgs | DTW | | |
| Date | 1/8/14 | | | |
| Time | 945 | | | |
| Meas. From | Split Spoon | | | |

| Sample Depth | Sample I.D. | SPT | Rec. (%) | PID (ppm) | FIELD IDENTIFICATION OF MATERIAL | COMMENTS |
|---|---|---|---|---|---|---|
| +3 | | | | | | |
| | | | | | | |
| +2 | | | | | | |
| | | | | | | |
| +1 | | | | | | |
| | | | | | | |
| 0 | | Vactron | | NA | 0-4" ASPHALT | |
| 1 | | Vactron | | 0.0 | 4"-5' Dry, brown, fine to medium SAND, some Concrete, little Cobble, trace Wood | |
| 2 | | Vactron | | 0.0 | | |
| 3 | | Vactron | | 0.0 | | |
| 4 | | Vactron | | 0.0 | | |
| 5 | | 12-19-25-24 | 75 | 2.2 | Dry, brown, fine to medium SAND and CONCRETE, some Asphalt, trace Cobble | |
| 6 | | | | | | |
| 7 | | 14-36-13-21 | 58 | 2.6 | 0-10" Dry, brown, fine to medium SAND and CONCRETE, some Asphalt, trace Cobble; 10-14" Moist, black, fine SAND and SLAG | |
| 8 | | | | | | |
| 9 | | 30-11-12-14 | 25 | 92.1 | Wet, dark brown, fine to medium SAND and fine to coarse sub-angular GRAVEL | |
| 10 | | | | | | |
| 11 | SB-49 (11-13) | 4-1-19-7 | 50 | 153.0 | Wet, black, fine to medium SAND and medium angular to sub-angular GRAVEL, sheens and hydrocarbon odor | |
| 12 | | | | | | |
| 13 | | 2-2-1-2 | 25 | 138.0 | 0-4" Wet, medium to coarse GRAVEL, NAPL Blebs, sheen, hydrocarbon odor; 4-6" PEAT | |
| 14 | | | | | | |
| 15 | | 1-2-1-2 | 0 | NA | No Recovery | |
| 16 | | | | | | |
| 17 | | 1-1-1-1 | 0 | NA | No Recovery | |
| 18 | | | | | | |
| 19 | | 2-1-2-2 | 8 | 39.7 | Wet, black, fine SAND, trace Silt, sheen | |
| 20 | | | | | | |
| 21 | | 1-1-1-1 | 42 | 33.2 | Moist, grey CLAY, trace Shell (high plasticity) | |
| 22 | | | | | | |
| 23 | | 2-2-2-3 | 50 | 5.8 | Moist, brown, fine SAND, some Silt, trace Mica | |
| 24 | | | | | | |
| 25 | | 3-3-10-11 | 67 | 3.2 | Moist, dark brown/grey, fine SAND, little Silt | |
| 26 | | | | | | |
| 27 | | 15-16-14-13 | 50 | 3.3 | Moist, tan/brown, fine SAND, little Silt, trace Clay | |
| 28 | | | | | | |
| 29 | SB-49 (29-31) | 12-9-12-14 | 58 | 1.6 | Moist, tan/brown fine SAND, trace Silt | |
| 30 | | | | | | |
| 31 | | | | | **End of Boring at 31 ft bgs** | |

**SAMPLING METHOD**
WH = WEIGHT OF HAMMER
HC = HAND CLEARED
VC = VACUUM CLEARED
WOR = WEIGHT OF RODS

**COMMENTS:**
0-5 ft bgs was hand cleared
5-31 ft bgs advanced utilizing hollow stem augers and split spoons
NAPL encountered from approximately 13-15 ft bgs

**PARSONS**
**DRILLING RECORD**

**BORING/WELL ID: SB-50**

Sheet 1 of 1

**Contractor:** Advanced Drilling Technology (ADT)
**Driller:** Shawn Miller, Bernie Cruz
**Inspector:** Zohar Lavy
**Rig Type:** Truck CME-85

**PROJECT NAME:** Con Edison /Farrington Street Works
**PROJECT NUMBER:** 446109-06000

**Location Description:** Pathmark Parking Lot

| GROUNDWATER OBSERVATIONS | | | | |
|---|---|---|---|---|
| Water Level | DTW ~ 9 ft bgs | DTW | | |
| Date | 1/8/14 | | | |
| Time | 1315 | | | |
| Meas. From | Split Spoon | | | |

**Weather:** Clear, Mid 20s

**Date/Time Start:** 12/30/13 0800

**Date/Time Finish:** 01/8/14 1405

See Site Plan

| Sample Depth | Sample I.D. | SPT | Rec. (%) | PID (ppm) | FIELD IDENTIFICATION OF MATERIAL | COMMENTS |
|---|---|---|---|---|---|---|
| +3 | | | | | | |
| | | | | | | |
| +2 | | | | | | |
| | | | | | | |
| +1 | | | | | | |
| | | | | | | |
| 0 | | Vactron | | NA | 0-4" ASPHALT | |
| 1 | | Vactron | | 0.0 | 4"-5' Dry, brown, fine to medium SAND and COBBLE, some Boulder, little Gravel, trace Wood, trace Metal | |
| 2 | | Vactron | | 0.0 | | |
| 3 | | Vactron | | 0.0 | | |
| 4 | | Vactron | | 0.0 | | |
| 5 | | 6-11-7-14 | 17 | 0.7 | Dry, dark brown, fine to medium SAND, little sub-angular Gravel, trace Silt | |
| 6 | | | | | | |
| 7 | | 50/5" | 0 | NA | No Recovery | |
| 8 | | | | | | |
| 9 | | 16-15-5-7 | 33 | 0.2 | Wet, dark brown/grey, fine to coarse SAND, some sub-angular to sub-round Gravel | |
| 10 | | | | | | |
| 11 | | 11-2-2-3 | 0 | NA | No Recovery (Sheens observed on spoon) | |
| 12 | | | | | | |
| 13 | | 3-3-4-3 | 17 | 0.6 | Wet, grey, fine to medium SAND, little fine to medium sub-angular Gravel, slight hydrocarbon odor, slight Sheens | |
| 14 | | | | | | |
| 15 | SB-50 (15-16) | 6-2-1-2-2 | 77 | 1.2 | 0-10" Wet, dark grey, fine to medium SAND, little angular fine to medium Gravel | Macrocore was utilized from 15-30 ft bgs in attempt to increase recoveries from borehole. |
| 16 | | 3-1-2-3-4 | | 0.7 | 10-24" PEAT | |
| 17 | | | | 0.7 | 24-46" Moist, grey CLAY and PEAT | |
| 18 | | | | | | |
| 19 | | | | | | |
| 20 | | 2-2-2-1-2 | 75 | 1.0 | 0-10" PEAT | |
| 21 | | 3-3-3-4-3 | | 1.0 | 10-24" Grey CLAY and PEAT | |
| 22 | | | | 0.4 | 24-36" Wet, dark grey fine to medium SAND | |
| 23 | | | | 0.4 | 36-45" Moist, tan, fine SAND, some Silt, trace Clay | |
| 24 | | | | 0.4 | | |
| 25 | SB-50 (25-30) | WH-1-2-1-1 | 40 | 0.3 | Wet, brown/orange, medium to coarse SAND, little fine to medium sub-angular to round Gravel | |
| 26 | | 10-5-17-21-11 | | | | |
| 27 | | | | | | |
| 28 | | | | | | |
| 29 | | | | | | |
| 30 | | | | | **End of Boring at 30 ft bgs** | |

**SAMPLING METHOD**
WH = WEIGHT OF HAMMER
HC = HAND CLEARED
VC = VACUUM CLEARED
WOR = WEIGHT OF RODS

**COMMENTS:**
0-5 ft bgs was hand cleared
5-30 ft bgs advanced utilizing hollow stem augers and split spoons

**PARSONS**
**DRILLING RECORD**

**BORING/WELL ID: CSB-51**
Sheet 1 of 1

**Contractor:** Advanced Drilling Technology (ADT)
**Driller:** Shawn Miller, Bernie Cruz
**Inspector:** Zohar Lavy
**Rig Type:** Truck CME-85

**PROJECT NAME:** Con Edison /Farrington Street Works
**PROJECT NUMBER:** 446109-06000

**Location Description:** Pathmark Parking Lot

| GROUNDWATER OBSERVATIONS | | | | |
|---|---|---|---|---|
| Water Level | DTW ~ 9 ft bgs | DTW | | |
| Date | 1/20/14 | | | |
| Time | 1200 | | | |
| Meas. From | Split Spoon | | | |

**Weather:** Cloudy, mid 40s, breezy
**Date/Time Start:** 1/15/14 0800
**Date/Time Finish:** 01/20/14 1345

See Site Plan

| Sample Depth | Sample I.D. | SPT | Rec. (%) | PID (ppm) | FIELD IDENTIFICATION OF MATERIAL | COMMENTS |
|---|---|---|---|---|---|---|
| +3 | | | | | | |
| | | | | | | |
| +2 | | | | | | |
| | | | | | | |
| +1 | | | | | | |
| | | | | | | |
| 0 | | Vactron | | NA | 0-4" ASPHALT | |
| 1 | | Vactron | | 0.0 | 4"-4' Dry, brown, fine to medium SAND, some angular to sub-round fine to coarse Gravel, little Concrete debris | |
| 2 | | Vactron | | 0.0 | | |
| 3 | | Vactron | | 0.0 | 4-5' Dry, brown, fine to medium SAND, some angular to sub-round fine to coarse Gravel, little Concrete debris, little Asphalt | |
| 4 | | Vactron | | 0.0 | | |
| 5 | | 4-9-20-19 | 75 | 1.5 | 0-13" Dry, dark brown, fine to medium SAND, some sub-angular Gravel, little Brick; 13-18" Dry, dark brown, fine to medium SAND and ASPHALT, some sub-angular Gravel, little Brick | |
| 6 | | | | | | |
| 7 | | 24-24-20-14 | 58 | 0.9 | Moist, black, fine to medium SAND, some fine Slag, little Coal, little fine to medium sub-angular Gravel | |
| 8 | | | | | | |
| 9 | | 1-2-1-1 | 33 | 1.2 | Wet, dark brown/grey, fine SAND, some fine to coarse sub-angular to sub-round Gravel, trace Silt, trace Porcelain | |
| 10 | | | | | | |
| 11 | | WH-1-2-1 | 25 | 6.3 | Moist, dark grey, fine SAND and SILT, little Clay, trace fine round Gravel | |
| 12 | | | | | | |
| 13 | | 2-3-6-6 | 33 | 13.5 | Wet, dark grey, fine SAND, some Silt, little fine to medium sub-angular Gravel, little staining, slight hydrocarbon odor | |
| 14 | | | | | | |
| 15 | CSB-51 (15-17) | 5-2-4-1 | 83 | 22.5 | 0-10" Wet, dark grey, fine SAND, some Silt, little fine to medium sub-angular Gravel, little staining, slight hydrocarbon odor, sheens, trace Glass, trace Wood; 10-20" PEAT | |
| 16 | | 2 | | | | |
| 17 | | 4-2-3-3 | 75 | 3.6 | 0-12" PEAT; 12-18" PEAT and grey CLAY | |
| 18 | | | | | | |
| 19 | | WH-2-2-2 | 58 | 1.1 | 0-5" PEAT and grey CLAY; 5-14" Moist, tan/grey, fine to medium SAND, little Silt, little fine to medium sub-round to sub-angular Gravel | |
| 20 | | | | | | |
| 21 | | 1-1-2-3 | 58 | 1.2 | Moist, tan/orange, fine to medium SAND | |
| 22 | | | | | | |
| 23 | | 1-8-9-9 | 0 | NA | No Recovery | |
| 24 | | | | | | |
| 25 | | 7-10-12-9 | 50 | 5.6 | Moist, tan/orange, fine to medium SAND, slight hydrocarbon odor, slight staining | |
| 26 | | | | | | |
| 27 | | 9-10-8-9 | 67 | 4.2 | Moist, tan/orange, fine to medium SAND, little rounded fine to medium Gravel | |
| 28 | | | | | | |
| 29 | CSB-51 (29-31) | 9-11-12-10 | 75 | 1.5 | Moist, tan/orange, fine to medium SAND, little rounded fine to medium Gravel | |
| 30 | | | | | | |
| 31 | | | | | **End of Boring at 31 ft bgs** | |

**SAMPLING METHOD**
WH = WEIGHT OF HAMMER
HC = HAND CLEARED
VC = VACUUM CLEARED
WOR = WEIGHT OF RODS

**COMMENTS:**
0-5 ft bgs was hand cleared
5-31 ft bgs advanced utilizing hollow stem augers and split spoons

**PARSONS**
**DRILLING RECORD**

**BORING/WELL ID: SB-52**



**Contractor:** Advanced Drilling Technology (ADT)
**Driller:** Shawn Miller, Bernie Cruz
**Inspector:** Zohar Lavy
**Rig Type:** Truck CME-85

**PROJECT NAME:** Con Edison /Farrington Street Works
**PROJECT NUMBER:** 446109-06000

**Location Description:** Pathmark Parking Lot

**Weather:** Light Rain, Mid 30s, Windy
**Date/Time Start:** 01/2/14 0750
**Date/Time Finish:** 01/6/14 1125

See Site Plan

| GROUNDWATER OBSERVATIONS | | | | |
|---|---|---|---|---|
| Water Level | DTW ~ 7 ft bgs | DTW | | |
| Date | 1/6/14 | | | |
| Time | 835 | | | |
| Meas. From | Split Spoon | | | |

| Sample Depth | Sample I.D. | SPT | Rec. (%) | PID (ppm) | FIELD IDENTIFICATION OF MATERIAL | COMMENTS |
|---|---|---|---|---|---|---|
| +3 | | | | | | |
| | | | | | | |
| +2 | | | | | | |
| | | | | | | |
| +1 | | | | | | |
| | | | | | | |
| 0 | | Vactron | | NA | 0-4" CONCRETE | |
| 1 | | Vactron | | 0.0 | 4"-4' Dry, brown, fine to medium SAND, some fine to coarse sub-angular Gravel, trace Wood, trace Brick, trace Cobble | |
| 2 | | Vactron | | 0.0 | | |
| 3 | | Vactron | | 0.0 | 4-7' Dry, brown, fine to medium SAND, little fine to coarse sub-angular Gravel | |
| 4 | | Vactron | | 0.0 | | |
| 5 | | Vactron | | 0.0 | | |
| 6 | | Vactron | | 0.0 | | |
| 7 | SB-52 (7-9) | 6-4-3-5 | 75 | 0.8 | 0-8" Wet, dark grey, fine to medium SAND, some round to sub-angular fine to medium Gravel; 8-18" Wet, tan/orange, fine to medium SAND, some Silt, trace fine sub-angular Gravel | |
| 8 | | | | | | |
| 9 | | 4-2-5-8 | 75 | 0.6 | 0-14" Wet, tan/orange, fine to medium SAND, some Silt, trace fine sub-angular Gravel; 14-18" Moist, orange, medium SAND | |
| 10 | | | | | | |
| 11 | | 11-7-5-7 | 58 | 0.6 | Moist, orange, fine to medium SAND | |
| 12 | | | | | | |
| 13 | | 3-6-6-7 | 67 | 0.7 | Moist, orange/brown, fine to medium SAND | |
| 14 | | | | | | |
| 15 | | 2-2-4-3 | 92 | 0.8 | 0-10" Moist, brown, fine to medium SAND; 10-14" Moist, brown, fine to coarse SAND, little round fine to coarse Gravel; 14-22" Moist, brown, fine to medium SAND | |
| 16 | | | | | | |
| 17 | | 5-6-4-6 | 100 | 0.9 | Moist, brown, fine to medium SAND, trace sub-angular to sub-round fine to coarse Gravel | |
| 18 | | | | | | |
| 19 | | 2-8-6-7 | 83 | 0.9 | Wet, brown, fine to medium SAND, trace Mica | |
| 20 | | | | | | |
| 21 | | 14-7-9-11 | 100 | 0.8 | Wet, grey/brown, fine to medium SAND, trace sub-angular to sub-round fine to medium Gravel | |
| 22 | | | | | | |
| 23 | | 11-12-13-12 | 100 | 1.0 | Wet, grey/brown, fine to medium SAND, trace sub-angular to sub-round fine to medium Gravel | |
| 24 | | | | | | |
| 25 | | 10-17-14-13 | 100 | 0.8 | Wet, grey/brown, fine to coarse SAND, trace sub-round fine Gravel | |
| 26 | | | | | | |
| 27 | | 11-14-13-23 | 100 | 0.6 | Wet, grey/brown, medium to coarse SAND | |
| 28 | | | | | | |
| 29 | | 27-14-13-13 | 0 | 1.1 | No Recovery | |
| 30 | | | | | | |
| 31 | | 22-20-21-21 | 50 | 1.2 | Wet, grey, medium SAND | |
| 32 | | | | | | |
| 33 | | *10-8-6-7-18- | 100 | 1 | 0-40" Wet, grey, medium SAND | A 5 ft Macrocore was run from 33 to 38 ft bgs in an attempt to increase recovery |
| 34 | | 9-11-13-14-22 | | | 40-48" Wet, grey, medium SAND, little fine to medium round to subround Gravel | |
| 35 | | | | | 48-60" Moist, red/orange, fine SAND and SILT, some fine angular Gravel (till) | |
| 36 | | | | | | |
| 37 | | | | | | |

**SAMPLING METHOD**
WH = WEIGHT OF HAMMER
HC = HAND CLEARED
VC = VACUUM CLEARED
WOR = WEIGHT OF RODS

**COMMENTS:**
0-7 ft bgs was hand cleared
7-50 ft bgs advanced utilizing hollow stem augers and split spoons

**PARSONS**
**DRILLING RECORD**

**BORING/WELL ID: SB-52**
Sheet 2 of 2

**Contractor:** Advanced Drilling Technology (ADT)
**Driller:** Shawn Miller, Bernie Cruz
**Inspector:** Zohar Lavy
**Rig Type:** Truck CME-85

**PROJECT NAME:** Con Edison /Farrington Street Works
**PROJECT NUMBER:** 446109-06000

**Location Description:** Pathmark Parking Lot

| GROUNDWATER OBSERVATIONS | | | | |
|---|---|---|---|---|
| Water Level | DTW ~ 7 ft bgs | DTW | | |
| Date | 1/6/14 | | | |
| Time | 835 | | | |
| Meas. From | Split Spoon | | | |

**Weather:** Light Rain, Mid 30s, Windy

**Date/Time Start:** 01/2/14 0750

**Date/Time Finish:** 01/6/14 1125

See Site Plan

| Sample Depth | Sample I.D. | SPT | Rec. (%) | PID (ppm) | FIELD IDENTIFICATION OF MATERIAL | | COMMENTS |
|---|---|---|---|---|---|---|---|
| 38 | | 15-13-12-12 | 25 | 0.9 | Moist, red/orange, fine SAND and SILT | | |
| 39 | | | | | | | |
| 40 | | 8-3-9-13 | 50 | 0.8 | 0-6" Moist, red/orange, fine SAND and SILT; 6-12" Moist, grey, fine to medium SAND, | | |
| 41 | | | | | some Silt, trace fine sub-round Gravel | | |
| 42 | | 14-17-20-17 | 58 | 1.1 | Moist, grey, fine to medium SAND, some Silt, trace fine sub-round Gravel | | |
| 43 | | | | | | | |
| 44 | | 7-8-3-13 | 50 | 1.0 | 0-10" Wet, orange, medium to coarse SAND, trace Silt; 10-12" Moist, grey, SILT, some Clay | | |
| 45 | | | | | | | |
| 46 | | WH-WH-7-14 | 50 | 1.0 | Wet, orange, medium SAND, trace fine round Gravel | | |
| 47 | | | | | | | |
| 48 | SB-52 (48-50) | 4-4-5-7 | 100 | 1.0 | Wet, orange, medium SAND, trace fine round Gravel | | |
| 49 | | | | | | | |
| 50 | | | | | **End of Boring at 50 ft bgs** | | |

**SAMPLING METHOD**
WH = WEIGHT OF HAMMER
HC = HAND CLEARED
VC = VACUUM CLEARED
WOR = WEIGHT OF RODS

**COMMENTS:**
0-7 ft bgs was hand cleared
7-50 ft bgs advanced utilizing hollow stem augers and split spoons

**PARSONS**
**DRILLING RECORD**

**BORING/WELL ID: SB-53**

Sheet 1 of 1

**Contractor:** Advanced Drilling Technology (ADT)
**Driller:** Shawn Miller, Bernie Cruz
**Inspector:** Zohar Lavy
**Rig Type:** Truck CME-85

**PROJECT NAME:** Con Edison /Farrington Street Works
**PROJECT NUMBER:** 446109-06000

**Location Description:** Pathmark Parking Lot

**Weather:** Clear, Mid 30s
**Date/Time Start:** 12/26/13 0945
**Date/Time Finish:** 12/31/13 1100

See Site Plan

| GROUNDWATER OBSERVATIONS | | | | |
|---|---|---|---|---|
| Water Level | DTW ~ 9 ft bgs | DTW | | |
| Date | 12/31/13 | | | |
| Time | 940 | | | |
| Meas. From | Split Spoon | | | |

| Sample Depth | Sample I.D. | SPT | Rec. (%) | PID (ppm) | FIELD IDENTIFICATION OF MATERIAL | COMMENTS |
|---|---|---|---|---|---|---|
| +1 | | | | | | |
| | | | | | | |
| 0 | | Vactron | | NA | 0-4" ASPHALT | |
| 1 | | Vactron | | 0.0 | 4"-5' Dry, brown, fine to medium SAND, some Cobble, little Concrete, trace Wood | |
| 2 | | Vactron | | 0.0 | | |
| 3 | | Vactron | | 0.0 | | |
| 4 | | Vactron | | 0.0 | | |
| 5 | | 2-4-9-21 | 50 | 1.6 | Dry, grey/black, fine to medium SAND, trace Silt, trace Slag | |
| 6 | | | | | | |
| 7 | | 13-8-4-8 | 50 | 2.1 | Dry, black, fine SAND and COAL, some Slag | |
| 8 | | | | | | |
| 9 | | 8-5-5-6 | 25 | 26.5 | Wet, brown/olive, fine to medium SAND, trace Silt, trace fine Gravel, trace Wood | |
| 10 | | | | | | |
| 11 | SB-53 (11-13) | 4-2-2-2 | 58 | 331.0 | Wet, black, fine SAND and fine sub-angular GRAVEL, NAPL blebs, slight Sheen, staining, hydrocarbon odor | |
| 12 | | | | | | |
| 13 | | 2-1-1-1 | 33 | 298.0 | 0-5" Wet, black, fine SAND and fine sub-angular GRAVEL, NAPL blebs, slight Sheen, staining, hydrocarbon odor; 5-8" Moist, olive, fine SAND, some Silt, little Organics, hydrocarbon odor | |
| 14 | | | | | | |
| 15 | | 3-2-1-1 | 67 | 54.5 | Moist, PEAT and grey CLAY | |
| 16 | | | | | | |
| 17 | | 1-1-1-1 | 75 | 40.3 | 0-10" Moist, PEAT and grey CLAY; 10-18" Grey CLAY | |
| 18 | | | | | | |
| 19 | | 3-2-3-2 | 0 | NA | No Recovery | |
| 20 | | | | | | |
| 21 | | 7-6-5-5 | 75 | 82.6 | 0-15" Wet, dark grey, fine to medium SAND, little Silt, trace red Gravel, trace Wood; 15-18" Moist, tan, fine SAND, little Silt | |
| 22 | | | | | | |
| 23 | | 4-13-19-17 | 58 | 15.7 | Moist, tan, fine SAND, some Silt | |
| 24 | | | | | | |
| 25 | | 10-11-13-13 | 75 | 6.7 | Wet, orange/brown, fine to medium SAND | |
| 26 | | | | | | |
| 27 | | WH-1-1-2 | 12.5 | 8.6 | Wet, orange/brown, fine to medium SAND, trace Wood | |
| 28 | | | | | | |
| 29 | SB-53 (29-31) | 6-5-7-7 | 58 | 3.3 | Moist, brown medium SAND, trace fine to coarse sub-angular Gravel | |
| 30 | | | | | | |
| 31 | | | | | **End of Boring at 31 ft bgs** | |

**SAMPLING METHOD**
WH = WEIGHT OF HAMMER
HC = HAND CLEARED
VC = VACUUM CLEARED
WOR = WEIGHT OF RODS

**COMMENTS:**
0-5 ft bgs was hand cleared
5-31 ft bgs advanced utilizing hollow stem augers and split spoons
NAPL encountered from approximately 11-15 ft bgs

**PARSONS**
**DRILLING RECORD**

**BORING/WELL ID: SB-54**

Sheet 1 of 1

**Contractor:** Advanced Drilling Technology (ADT)
**Driller:** Shawn Miller, Bernie Cruz
**Inspector:** Zohar Lavy
**Rig Type:** Truck CME-85

**PROJECT NAME:** Con Edison /Farrington Street Works
**PROJECT NUMBER:** 446109-06000

**Location Description:** Pathmark Parking Lot

| GROUNDWATER OBSERVATIONS | | | | |
|---|---|---|---|---|
| Water Level | DTW ~ 9 ft bgs | DTW | | |
| Date | 1/17/14 | | | |
| Time | 903 | | | |
| Meas. From | Split Spoon | | | |

**Weather:** Clear, Up to high 40s

**Date/Time Start:** 1/16/14 1245

**Date/Time Finish:** 01/17/14 1000

See Site Plan

| Sample Depth | Sample I.D. | SPT | Rec. (%) | PID (ppm) | FIELD IDENTIFICATION OF MATERIAL | COMMENTS |
|---|---|---|---|---|---|---|
| +3 | | | | | | |
| | | | | | | |
| +2 | | | | | | |
| | | | | | | |
| +1 | | | | | | |
| | | | | | | |
| 0 | | Vactron | | NA | 0-4" ASPHALT | |
| 1 | | Vactron | | 0.0 | 4"-10" ASPHALT and GRAVEL | |
| 2 | | Vactron | | 0.0 | 10"-5' Dry, brown, fine to medium SAND, Some Cobble, little Concrete | |
| 3 | | Vactron | | 0.0 | | |
| 4 | | Vactron | | 0.0 | | |
| 5 | | 6-16-5-7 | 42 | 0.0 | 0-6" Dry, dark brown, fine to medium SAND, some sub-angular medium Gravel; 6-10" CONCRETE | |
| 6 | | | | | | |
| 7 | | 4-5-12-19 | 50 | 0.0 | Dry, dark brown, fine to medium SAND, little sub-angular fine to medium Gravel, little Wood, trace Silt | |
| 8 | | | | | | |
| 9 | | 32-20-17-8 | 50 | 0.0 | 0-6" Wet, dark brown, fine to medium SAND, little sub-angular fine to medium Gravel, trace Silt; 6-12" CONCRETE | |
| 10 | | | | | | |
| 11 | | 3-2-1-2 | 58 | 10.5 | Wet, black, medium to coarse SAND and fine to medium sub-angular GRAVEL, trace Slag, sheen, hydrocarbon odor | |
| 12 | | | | | | |
| 13 | | 3-2-3-5 | 25 | 32.5 | Wet, brown, fine to medium SAND, trace Organics, sheen, hydrocarbon odor | |
| 14 | | | | | | |
| 15 | | 6-4-4-3 | 0 | NA | No Recovery | |
| 16 | | | | | | |
| 17 | | 2-3-3-4 | 0 | NA | No Recovery | |
| 18 | | | | | | |
| 19 | SB-54 (19-21) | 2-1-2-2 | 100 | 147.0 | 0-6" Wet, dark brown, fine to medium SAND, NAPL Blebs, sheens; 6-18" PEAT; 18-24" PEAT and grey CLAY | 0-6" within the 19-21 ft bgs interval is likely to be sluff from above. |
| 20 | | | | | | |
| 21 | | WH/24" | 75 | 55.6 | Wet, dark brown/grey, fine to medium SAND, trace fine round Gravel | |
| 22 | | | | | | |
| 23 | | 1-1-1-1 | 25 | 41.2 | PEAT and CLAY | |
| 24 | | | | | | |
| 25 | SB-54 (28-30) | 2-2-3-2-3 | 50 | 0.0 | 0-10" Wet, dark brown/grey, fine SAND and SILT | Macrocore was utilized from 25-30 ft bgs in attempt to increase recoveries from borehole. |
| 26 | | 5-3-7-7-11 | | | 10-30" Wet, dark grey fine to coarse SAND, little fine round to sub-angular Gravel | |
| 27 | | | | | | |
| 28 | | | | | | |
| 29 | | | | | | |
| 30 | | | | | **End of Boring at 30 ft bgs** | |

**SAMPLING METHOD**
WH = WEIGHT OF HAMMER
HC = HAND CLEARED
VC = VACUUM CLEARED
WOR = WEIGHT OF RODS

**COMMENTS:**
0-5 ft bgs was hand cleared
5-30 ft bgs advanced utilizing hollow stem augers and split spoons
NAPL encountered from approximately 19-19.5 ft bgs

**PARSONS**
**DRILLING RECORD**

**BORING/WELL ID: SB-55**

Sheet 1 of 1

**Contractor:** Advanced Drilling Technology (ADT)
**Driller:** Shawn Miller, Bernie Cruz
**Inspector:** Zohar Lavy
**Rig Type:** Truck CME-85

**PROJECT NAME:** Con Edison /Farrington Street Works
**PROJECT NUMBER:** 446109-06000

**Location Description:** Pathmark Parking Lot

| GROUNDWATER OBSERVATIONS | | | | |
|---|---|---|---|---|
| Water Level | DTW ~ 9 ft bgs | DTW | | |
| Date | 1/17/14 | | | |
| Time | 1215 | | | |
| Meas. From | Split Spoon | | | |

**Weather:** Clear, Up to high 40s

**Date/Time Start:** 1/15/14 1150

**Date/Time Finish:** 01/17/14 1300

See Site Plan

| Sample Depth | Sample I.D. | SPT | Rec. (%) | PID (ppm) | FIELD IDENTIFICATION OF MATERIAL | | COMMENTS |
|---|---|---|---|---|---|---|---|
| +3 | | | | | | | |
| | | | | | | | |
| +2 | | | | | | | |
| | | | | | | | |
| +1 | | | | | | | |
| | | | | | | | |
| 0 | | Vactron | | NA | 0-4" ASPHALT | | |
| 1 | | Vactron | | 0.0 | 4"-3.5' Dry, brown, fine to medium SAND, some Concrete, little Cobble | | |
| 2 | | Vactron | | 0.0 | 3.5-5' Dry, brown, fine to medium SAND and ASPHALT debris | | |
| 3 | | Vactron | | 0.0 | | | |
| 4 | | Vactron | | 0.0 | | | |
| 5 | | 9-11-17-19 | 58 | 5.5 | 0-11" Dry, dark brown, fine to medium SAND, little Asphalt, trace Brick fragments; 11-14" CONCRETE | | |
| 6 | | | | | | | |
| 7 | | 7-41-10-14 | 75 | 9.6 | 0-12" Moist, dark brown, fine to medium SAND, some fine to medium sub-angular Gravel; 12-16" CONCRETE; 16-18" Wet, dark brown, fine to medium SAND, some fine to medium sub-angular Gravel | | |
| 8 | | | | | | | |
| 9 | | 21-23-6-6 | 58 | 32.5 | 0-10" Wet, dark brown, fine to medium SAND, some fine to medium sub-angular Gravel; 10-14" Wet, brown, medium to coarse SAND, little Slag | | |
| 10 | | | | | | | |
| 11 | | 3-3-2-4 | 75 | 59.7 | 0-10" Wet, brown, medium to coarse SAND, little Slag, sheens, hydrocarbon odor; 10-18" Moist, dark brown, fine to medium SAND | | |
| 12 | | | | | | | |
| 13 | | 6-11-4-1 | 75 | 167.0 | 0-8" Wet, grey/brown, medium to coarse SAND and fine angular to sub-angular GRAVEL, NAPL Blebs, sheens; 8-18" PEAT | | |
| 14 | | | | | | | |
| 15 | SB-55 (15-17) | 2-2-2-1 | 67 | 565.0 | 0-8" PEAT and black, fine to medium SAND, NAPL saturation, staining, strong hydrocarbon odor; 8-16" PEAT | | |
| 16 | | | | 221.0 | | | |
| 17 | SB-55 (17-19) | WH-WH-1-1 | 50 | 13.6 | Grey CLAY, some Peat | | |
| 18 | | | | | | | |
| 19 | | | | | **End of Boring at 19 ft bgs** | | |

**SAMPLING METHOD**
WH = WEIGHT OF HAMMER
HC = HAND CLEARED
VC = VACUUM CLEARED
WOR = WEIGHT OF RODS

**COMMENTS:**
0-5 ft bgs was hand cleared
5-19 ft bgs advanced utilizing hollow stem augers and split spoons
NAPL encountered from 13 to 16.5 ft bgs

**PARSONS**
**DRILLING RECORD**

**BORING/WELL ID: SB-55D**
Sheet 1 of 1

**Contractor:** Advanced Drilling Technology (ADT)
**Driller:** Dave Moon, Bernie Cruz
**Inspector:** Zohar Lavy
**Rig Type:** Track Sonic

**PROJECT NAME:** Con Edison /Farrington Street Works
**PROJECT NUMBER:** 446109-06000

**Location Description:** Pathmark Parking Lot

**Weather:** Cloudy, light rain, up to low 50s
**Date/Time Start:** 2/21/14 0915
**Date/Time Finish:** 2/21/14 1140

See Site Plan

| GROUNDWATER OBSERVATIONS | | | | |
|---|---|---|---|---|
| Water Level | DTW ~ 9 ft bgs | DTW | | |
| Date | 1/17/14 | | | |
| Time | 1215 | | | |
| Meas. From | Split Spoon | | | |

| Sample Depth | Sample I.D. | SPT | Rec. (%) | PID (ppm) | FIELD IDENTIFICATION OF MATERIAL | COMMENTS |
|---|---|---|---|---|---|---|
| 1 | | Vactron | | NA | 0-4" ASPHALT | |
| 2 | | Vactron | | 0.0 | 4"-5' Dry, brown, fine to medium SAND, some Cobble, little Concrete, little Brick | |
| 3 | | Vactron | | 0.0 | | |
| 4 | | Vactron | | 0.0 | | |
| 5 | | Vactron | | 0.0 | | |
| | | | | | | |
| 20 | | NA | 80 | 0.0 | 0-18" Moist, grey CLAY and PEAT | See SB-55 log for 0-19 ft bgs lithology. 7" Sonic casing was utilized to seal off clay confining unit to 20 ft bgs |
| 21 | | NA | | | 18-48" Moist, grey CLAY | |
| 22 | | NA | | | | |
| 23 | | NA | | | | |
| 24 | | NA | | | | |
| 25 | SB-55D (25-26) | NA | 100 | 0.1 | 0-10" Wet, brown, fine to medium SAND, little sub-angular to sub-round fine to medium Gravel | |
| 26 | | NA | | | | |
| 27 | | NA | | | 10-48" Moist, tan/grey SILT and CLAY, some fine tan/grey Sand, little fine to coarse round to angular Gravel, trace round Cobble (Till) | |
| 28 | | NA | | | | |
| 29 | | NA | | | 48-60" Moist, brown, fine to medium SAND, little fine to medium sub-angular Gravel | |
| 30 | | NA | 100 | 0.1 | 0-12" Moist, tan/brown, fine SAND and CLAY, some Silt, little fine to coarse round to sub-angular Gravel | |
| 31 | | NA | | | | |
| 32 | | NA | | | 12-20" Wet, brown/orange, fine to coarse SAND, some fine sub-angular Gravel, little Silt | |
| 33 | | NA | | | 20-60" Moist, grey/purple, fine SAND and CLAY, some Silt, little fine to coarse round to angular Gravel | |
| 34 | | NA | | | | |
| 35 | | NA | 100 | 0.1 | 0-40" Moist, light brown/orange, fine SAND and CLAY, some Silt, little fine to coarse round to angular Gravel | |
| 36 | | NA | | | | |
| 37 | | NA | | | 40-60" Moist, brown, fine SAND, little Silt | |
| 38 | | NA | | | | |
| 39 | | NA | | | | |
| 40 | SB-55D (40-42) | NA | 40 | 0.0 | Wet, brown, fine to coarse SAND, some fine round to sub-round Gravel | |
| 41 | | NA | | | | |
| 42 | | NA | | | | |
| 43 | | NA | | | | |
| 44 | | NA | | | | |
| 45 | | NA | 63 | 0.0 | Wet, brown, fine to coarse SAND, some fine round to sub-round Gravel | |
| 46 | | NA | | | | |
| 47 | | NA | | | | |
| 48 | | NA | | | | |
| 49 | | NA | | | | |
| 50 | | | | | **End of Boring at 50 ft bgs** | |

**SAMPLING METHOD**
WH = WEIGHT OF HAMMER
HC = HAND CLEARED
VC = VACUUM CLEARED
WOR = WEIGHT OF RODS

**COMMENTS:**
0-5 ft bgs was hand cleared
5-50 bgs was advanced utilizing Sonic methods

**PARSONS**
**DRILLING RECORD**

**BORING/WELL ID: SB-56**

Sheet 1 of 1

**Contractor:** Advanced Drilling Technology (ADT)
**Driller:** Shawn Miller, Bernie Cruz
**Inspector:** Zohar Lavy
**Rig Type:** Truck CME-85

**PROJECT NAME:** Con Edison /Farrington Street Works
**PROJECT NUMBER:** 446109-06000

**Location Description:** Pathmark Parking Lot

| GROUNDWATER OBSERVATIONS | | | | |
|---|---|---|---|---|
| Water Level | DTW ~ 9 ft bgs | DTW | | |
| Date | 1/20/14 | | | |
| Time | 855 | | | |
| Meas. From | Split Spoon | | | |

**Weather:** Cloudy, mid 40s, breezy
**Date/Time Start:** 1/16/14 0800
**Date/Time Finish:** 01/20/14 0945

See Site Plan

| Sample Depth | Sample I.D. | SPT | Rec. (%) | PID (ppm) | FIELD IDENTIFICATION OF MATERIAL | COMMENTS |
|---|---|---|---|---|---|---|
| +3 | | | | | | |
| | | | | | | |
| +2 | | | | | | |
| | | | | | | |
| +1 | | | | | | |
| | | | | | | |
| 0 | | Vactron | | NA | 0-4" ASPHALT | |
| 1 | | Vactron | | 0.0 | 4"-5' Dry, brown, fine to medium SAND, some Concrete, trace Metal, trace Plastic, trace Brick | |
| 2 | | Vactron | | 0.0 | | |
| 3 | | Vactron | | 0.0 | | |
| 4 | | Vactron | | 0.0 | | |
| 5 | | 6-14-24-29 | 75 | 1.3 | Dry, brown, fine to medium SAND, some angular to sub-angular fine to coarse Gravel, little Concrete, trace Brick | |
| 6 | | | | | | |
| 7 | SB-56 (7-9) | 17-31-24-22 | 75 | 1.4 | 0-14" Dry, brown, fine to medium SAND, some angular to sub-angular fine to coarse Gravel, little Concrete, trace Brick; 14-18" Moist, black, fine to coarse SAND and fine SLAG, some sub-angular fine to coarse Gravel | |
| 8 | | | | | | |
| 9 | | 17-14-7-5 | 58 | 1.1 | Wet, brown, fine to medium SAND, some fine to coarse round to sub-angular Gravel, trace Cobble | |
| 10 | | | | | | |
| 11 | | 7-5-4-3 | 33 | 0.6 | Wet, brown, fine to medium SAND, some fine to coarse round to sub-angular Gravel, trace Cobble | |
| 12 | | | | | | |
| 13 | | 4-4-2-2 | 58 | 0.5 | 0-10" Wet, fine to coarse angular to sub-round GRAVEL, little fine to medium SAND, trace Slag; 10-14" Moist, dark grey/brown, fine SAND, some Peat, trace Silt | |
| 14 | | | | | | |
| 15 | | 1-2-1-2 | 67 | 0.6 | PEAT | |
| 16 | | | | | | |
| 17 | | 1-1-1-1 | 0 | NA | No Recovery | |
| 18 | | | | | | |
| 19 | | 2-1-1-1 | 16.5 | 0.6 | Wet, black, fine SAND, some Silt | |
| 20 | | | | | | |
| 21 | | WH/24" | 33 | 0.5 | Moist, grey CLAY (high plasticity) | |
| 22 | | | | | | |
| 23 | | 1-4-7-5 | 67 | 0.3 | 0-8" Moist, grey CLAY and SILT, trace fine Sand; 8-16" Moist, grey, fine to medium SAND, some fine round Gravel, little Silt | |
| 24 | | | | | | |
| 25 | | 4-7-9-9 | 50 | 0.4 | Moist, brown/orange fine SAND | |
| 26 | | | | | | |
| 27 | | 3-7-6-9 | 50 | 0.5 | Moist, brown/orange fine SAND | |
| 28 | | | | | | |
| 29 | SB-56 (29-31) | 1-2-6-9 | 75 | 0.4 | Moist, brown/orange fine SAND, trace fine round Gravel | |
| 30 | | | | | | |
| 31 | | | | | **End of Boring at 31 ft bgs** | |

**SAMPLING METHOD**
WH = WEIGHT OF HAMMER
HC = HAND CLEARED
VC = VACUUM CLEARED
WOR = WEIGHT OF RODS

**COMMENTS:**
0-5 ft bgs was hand cleared
5-31 ft bgs advanced utilizing hollow stem augers and split spoons

**PARSONS**
**DRILLING RECORD**

**BORING/WELL ID: CSB-57**
Sheet 1 of 1

**Contractor:** Advanced Drilling Technology (ADT)
**Driller:** Shawn Miller, Bernie Cruz
**Inspector:** Zohar Lavy
**Rig Type:** Truck CME-85

**PROJECT NAME:** Con Edison /Farrington Street Works
**PROJECT NUMBER:** 446109-06000

**Location Description:** Pathmark Parking Lot

**Weather:** Cloudy, mid 40s, breezy
**Date/Time Start:** 1/20/14 1145
**Date/Time Finish:** 01/21/14 1120

See Site Plan

| GROUNDWATER OBSERVATIONS | | | | |
|---|---|---|---|---|
| Water Level | DTW ~ 8.5 ft bgs | DTW | | |
| Date | 1/21/14 | | | |
| Time | 1026 | | | |
| Meas. From | Split Spoon | | | |

| Sample Depth | Sample I.D. | SPT | Rec. (%) | PID (ppm) | FIELD IDENTIFICATION OF MATERIAL | COMMENTS |
|---|---|---|---|---|---|---|
| +3 | | | | | | |
| | | | | | | |
| +2 | | | | | | |
| | | | | | | |
| +1 | | | | | | |
| | | | | | | |
| 0 | | Vactron | | NA | 0-4" ASPHALT | |
| 1 | | Vactron | | 0.0 | 4"-5' Dry, dark brown, fine to medium SAND, some Concrete debris | |
| 2 | | Vactron | | 0.0 | | |
| 3 | | Vactron | | 0.0 | | |
| 4 | | Vactron | | 0.0 | | |
| 5 | | 7-20-21-7 | 75 | 1.5 | Dry, dark brown, fine to medium SAND, some fine to medium sub-angular to round Gravel, little Concrete debris | |
| 6 | | | | | | |
| 7 | | 19-22-17-11 | 92 | 2.9 | 0-16" Moist, dark brown, fine to medium SAND, some fine to medium sub-angular to round Gravel, little Concrete debris; 16-22" Wet, fine to medium angular GRAVEL and medium to coarse black SAND, some Slag | |
| 8 | | | | | | |
| 9 | | 20-22-5-4 | 42 | 4.6 | Dry, brown, fine to medium SAND and CONCRETE | |
| 10 | | | | | | |
| 11 | | 8-4-3-3 | 33 | 49.7 | Wet, fine angular to sub-angular GRAVEL and medium to coarse SAND, Sheen, strong hydrocarbon odor | |
| 12 | | | | | | |
| 13 | | 1-1-1-1 | 0 | NA | No Recovery | |
| 14 | | | | | | |
| 15 | CSB-57(15-17) | 4-1-1-1 | 83 | 165.0 | 0-8" Wet, fine angular to sub-angular GRAVEL and black, fine to coarse SAND, NAPL Blebs, staining, hydrocarbon odor; 8-20" PEAT | |
| 16 | | | | | | |
| 17 | | WH/24" | 50 | 32.3 | Grey CLAY, slight hydrocarbon odor | |
| 18 | | | | | | |
| 19 | | 1-1-1-1 | 67 | 21.1 | Grey CLAY, little Peat | |
| 20 | | | | | | |
| 21 | | WH/12"-1-1 | 67 | 19.6 | Grey CLAY | |
| 22 | | | | | | |
| 23 | | WH/12"-1-1 | 0 | NA | No Recovery | |
| 24 | | | | | | |
| 25 | | WH-1-1-1 | 75 | 12.2 | Grey CLAY | |
| 26 | | | | | | |
| 27 | | 1-2-2-2 | 67 | 8.7 | 0-6" Grey CLAY; 6-16" Wet, grey fine to medium SAND, little Silt | |
| 28 | | | | | | |
| 29 | CSB-57(29-31) | 4-4-5-6 | 75 | 6.5 | Wet, grey, fine to medium SAND, little Silt, sulphur odor | |
| 30 | | | | | | |
| 31 | | | | | **End of Boring at 31 ft bgs** | |

**SAMPLING METHOD**
WH = WEIGHT OF HAMMER
HC = HAND CLEARED
VC = VACUUM CLEARED
WOR = WEIGHT OF RODS

**COMMENTS:**
0-5 ft bgs was hand cleared
5-31 ft bgs advanced utilizing hollow stem augers and split spoons
NAPL was encountered from approximately 15-16.5 ft bgs

**PARSONS**
**DRILLING RECORD**

**BORING/WELL ID: CSB-58**
Sheet 1 of 1

**Contractor:** Advanced Drilling Technology (ADT)
**Driller:** Shawn Miller, Bernie Cruz
**Inspector:** Zohar Lavy
**Rig Type:** Truck CME-85

**PROJECT NAME:** Con Edison /Farrington Street Works
**PROJECT NUMBER:** 446109-06000

**Location Description:** Pathmark Parking Lot

| GROUNDWATER OBSERVATIONS | | | | |
|---|---|---|---|---|
| Water Level | DTW ~ 9 ft bgs | DTW | | |
| Date | 1/21/14 | | | |
| Time | 842 | | | |
| Meas. From | Split Spoon | | | |

**Weather:** Cloudy, mid 40s, breezy
**Date/Time Start:** 1/20/14 0820
**Date/Time Finish:** 01/21/14 0920

See Site Plan

| Sample Depth | Sample I.D. | SPT | Rec. (%) | PID (ppm) | FIELD IDENTIFICATION OF MATERIAL | | COMMENTS |
|---|---|---|---|---|---|---|---|
| +3 | | | | | | | |
| | | | | | | | |
| +2 | | | | | | | |
| | | | | | | | |
| +1 | | | | | | | |
| | | | | | | | |
| 0 | | Vactron | | NA | 0-4" ASPHALT | | |
| 1 | | Vactron | | 0.0 | 4"-2.5' Dry, dark brown, fine to medium SAND, some Concrete debris | | |
| 2 | | Vactron | | 0.0 | 2.5-5' Wet, dark brown, fine to medium SAND, some Concrete, little Brick | | |
| 3 | | Vactron | | 0.0 | | | |
| 4 | | Vactron | | 0.0 | | | |
| 5 | | 3-12-7-11 | 67 | 1.1 | Wet, brown, fine to medium SAND and angular to sub-angular fine to coarse GRAVEL, little Brick | | |
| 6 | | | | | | | |
| 7 | | 18-17-11-7 | 92 | 1.5 | 0-6" Moist, brown, fine to medium SAND, little Silt; 6-18" Moist, brown, fine to medium SAND, some fine to medium angular to sub-angular Gravel, little Silt; 18-22" Black SLAG | | |
| 8 | | | | | | | |
| 9 | | 5-6-6-9 | 25 | 0.0 | Wet, dark brown, fine to medium SAND, some fine sub-angular Gravel | | |
| 10 | | | | | | | |
| 11 | | 3-2-3-3 | 58 | 5.7 | Wet, fine to medium angular to sub-round GRAVEL and brown/grey, medium to coarse SAND, little Shell, trace Slag | | |
| 12 | | | | | | | |
| 13 | | 4-5-2-2 | 67 | 12.6 | Wet, fine to medium angular to sub-round GRAVEL and brown/grey, medium to coarse SAND, little Shell, Sheens, hydrocarbon odor | | |
| 14 | | | | | | | |
| 15 | | 4-3-3-2 | 0 | NA | No Recovery | | |
| 16 | | | | | | | |
| 17 | | 2-2-1-1 | 42 | 59.7 | Wet, dark grey/black, fine SAND, some fine angular to sub-angular Gravel, little Silt, NAPL Blebs, strong hydrocarbon odor, Sheens, staining | | |
| 18 | | | | | | | |
| 19 | CSB-58(19-21) | 1-1-1-1 | 50 | 110.0 | 0-2" Wet, dark grey/black, fine SAND, some fine angular to sub-angular Gravel, little Silt, NAPL Saturation, strong hydrocarbon odor, Sheens, staining; 2-12" PEAT and CLAY | | |
| 20 | | | | | | | |
| 21 | | 1-1-1-1 | 0 | NA | No Recovery | | |
| 22 | | | | | | | |
| 23 | CSB-58 (23-25) | WH/24" | 83 | 26.5 | 0-12" Grey CLAY and PEAT, little fine Sand, trace Shell, Sheens, hydrocarbon odor; 12-20" Grey CLAY | | |
| 24 | | | | | | | |
| 25 | | | | | **End of Boring at 25 ft bgs** | | |

**SAMPLING METHOD**
WH = WEIGHT OF HAMMER
HC = HAND CLEARED
VC = VACUUM CLEARED
WOR = WEIGHT OF RODS

**COMMENTS:**
0-5 ft bgs was hand cleared
5-25 ft bgs advanced utilizing hollow stem augers and split spoons
NAPL encountered from approximately 17-20 ft bgs

**PARSONS**
**DRILLING RECORD**

**BORING/WELL ID: SB-59**
Sheet 1 of 1

**Contractor:** Advanced Drilling Technology (ADT)
**Driller:** Shawn Miller, Dylan Jewell
**Inspector:** Zohar Lavy
**Rig Type:** Truck CME-85

**PROJECT NAME:** Con Edison /Farrington Street Works
**PROJECT NUMBER:** 446109-06000

**Location Description:** Pathmark Parking Lot

| GROUNDWATER OBSERVATIONS | | | | |
|---|---|---|---|---|
| Water Level | DTW ~ 7 ft bgs | DTW | | |
| Date | 2/25/14 | | | |
| Time | 1304 | | | |
| Meas. From | Split Spoon | | | |

**Weather:** Cloudy, up to low 30s
**Date/Time Start:** 2/25/14 1300
**Date/Time Finish:** 2/25/14 1335

See Site Plan

| Sample Depth | Sample I.D. | SPT | Rec. (%) | PID (ppm) | FIELD IDENTIFICATION OF MATERIAL | COMMENTS |
|---|---|---|---|---|---|---|
| +1 | | | | | | |
| | | | | | | |
| 0 | | Vactron | | NA | 0-6" ASPHALT | |
| 1 | | Vactron | | 0.0 | 6"-5' Dry, dark brown, fine to medium SAND, some Concrete, trace Brick, trace Wood | |
| 2 | | Vactron | | | | |
| 3 | | Vactron | | | | |
| 4 | | Vactron | | | | |
| 5 | | WH-2-4-3 | 25 | 2.5 | Moist, brown, fine to medium SAND, little Silt, trace sub-angular fine Gravel | |
| 6 | | | | | | |
| 7 | | 15-12-12-13 | 75 | 3.7 | 0-12" Wet, black, fine to medium SAND, some Ash, little fine to coarse angular to sub-angular Gravel, trace Cobble; 12-18" WOOD | |
| 8 | | | | | | |
| 9 | | 7-5-4-3 | 33 | 28.5 | Wet, brown, fine to medium SAND, some medium to coarse sub-angular Gravel, little Silt | |
| 10 | | | | | | |
| 11 | | 3-2-2-1 | 67 | 78.5 | 0-8" Wet, dark grey, fine angular GRAVEL, some dark grey medium to coarse Sand; 8-16" Wet, dark grey/black fine to medium SAND and fine to medium angular GRAVEL, little Silt, trace Ash, hydrocarbon odor, sheens | |
| 12 | | | | | | |
| 13 | | 2-1-1-2 | 0 | NA | No Recovery | |
| 14 | | | | | | |
| 15 | | 3-2-1-2 | 0 | NA | No Recovery | |
| 16 | | | | | | |
| 17 | | 1-1-1-2 | 0 | NA | No Recovery | |
| 18 | | | | | | |
| 19 | | WH-WH-1-2-1- | 40 | 69.8 | 0-4" Wet, black, fine to medium SAND, little Silt, hydrocarbon odor, sheens; 4-24" Moist, dark grey CLAY | Macrocore was utilized from 19 to 24 ft bgs in attempt to gain more recovery; recovery was mixed with overburden |
| 20 | | 3-1-2-2-4 | | | | |
| 21 | | | | | | |
| 22 | | | | | | |
| 23 | | | | | | |
| 24 | | | | | **End of Boring at 24 ft bgs** | |

**SAMPLING METHOD**
WH = WEIGHT OF HAMMER
HC = HAND CLEARED
VC = VACUUM CLEARED
WOR = WEIGHT OF RODS

**COMMENTS:**
0-5 ft bgs was hand cleared
5-24 ft bgs advanced utilizing hollow stem augers and split spoons

**PARSONS**
**DRILLING RECORD**

**BORING/WELL ID: MW-CSB-60**
Sheet 1 of 1

**Contractor:** Advanced Drilling Technology (ADT)
**Driller:** Shawn Miller, Dylan Jewell
**Inspector:** Zohar Lavy
**Rig Type:** Truck CME-85

**PROJECT NAME:** Con Edison /Farrington Street Works
**PROJECT NUMBER:** 446109-06000

**Location Description:** Pathmark Parking Lot

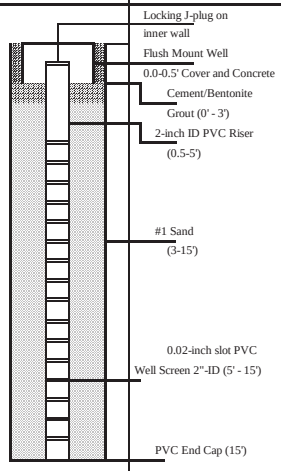
**Weather:** Clear, up to low 20s
**Date/Time Start:** 2/28/14 0938
**Date/Time Finish:** 2/28/14 1038

See Site Plan

| GROUNDWATER OBSERVATIONS | | | | |
|---|---|---|---|---|
| Water Level | DTW ~ 9 ft bgs | DTW 5.65 | | |
| Date | 2/28/14 | 6/8/15 | | |
| Time | 947 | 1300 | | |
| Meas. From | Split Spoon | Top of PVC | | |

| Sample Depth | Sample I.D. | SPT | Rec. (%) | PID (ppm) | FIELD IDENTIFICATION OF MATERIAL |
|---|---|---|---|---|---|
| +1 | | | | | |
| | | | | | |
| 0 | | Vactron | | NA | 0-6" ASPHALT |
| 1 | | Vactron | | 0.0 | 6"-2' Dry, brown, fine to medium SAND and COBBLE, trace Boulder |
| 2 | | Vactron | | 0.0 | 2-2.5' WOOD |
| 3 | | Vactron | | 0.0 | 2.5-5' Dry, brown, fine to medium SAND and COBBLE, trace Boulder, trace Concrete, trace |
| 4 | | Vactron | | | Brick |
| 5 | | 14-16-23-18 | 58 | 1.2 | Dry, black, fine to coarse SAND, some fine to medium angular to subangular Gravel, trace |
| 6 | | | | | Silt, trace Slag |
| 7 | CSB-60 (7-9) | 15-22-25-22 | 75 | 4.6 | Moist, black, fine to coarse SAND, some fine to medium angular to subangular Gravel, little |
| 8 | | | | | Ash, trace Coal, trace Silt, trace Slag |
| 9 | | 4-2-WH/12" | 92 | 1.9 | 0-10" Wet, black, fine to medium SAND, some fine angular to sub-angular Gravel; 10-22" |
| 10 | | | | | Moist, fine to medium SAND and PEAT, trace Silt |
| 11 | | 1-2-2-1 | 17 | 1.0 | Wet, dark grey, angular fine to medium GRAVEL, little Slag, trace Glass |
| 12 | | | | | |
| 13 | | 4-1-1-1 | 75 | 2.1 | 0-6" Wet, dark grey, angular fine to medium GRAVEL, little Slag, trace Glass; 6-18" PEAT |
| 14 | | | | | |
| 15 | | WH/24" | 0 | NA | No Recovery |
| 16 | | | | | |
| 17 | | 1-2-1-1 | 100 | 0.8 | PEAT and grey CLAY |
| 18 | | | | | |
| 19 | | WH/24" | 0 | NA | No Recovery |
| 20 | | | | | |
| 21 | | WH/24" | 83 | 1.1 | PEAT and grey CLAY |
| 22 | | | | | |
| 23 | | 3-3-7-11 | 50 | 1.8 | Wet, grey fine SAND, some Silt |
| 24 | | | | | |
| 25 | | WH/18"-1 | 0 | NA | No Recovery |
| 26 | | | | | |
| 27 | | 1-2-2-3 | 92 | 0.8 | 0-14" Wet, grey, fine SAND, some Silt; 14-22" Wet, tan, medium SAND |
| 28 | | | | | |
| 29 | CSB-60 (29-31) | 8-8-10-12 | 92 | 0.9 | 0-16" Wet, grey, medium SAND, trace medium sub-angular Gravel; 16-22" Moist, brown, fine |
| 30 | | | | | SAND, trace Silt |
| 31 | | | | | **End of Boring at 31 ft bgs** |

**SCHEMATIC**




**COMMENTS**

**SAMPLING METHOD**
WH = WEIGHT OF HAMMER
HC = HAND CLEARED
VC = VACUUM CLEARED
WOR = WEIGHT OF RODS

**COMMENTS:**
0-5 ft bgs was hand cleared
5-31 ft bgs advanced utilizing hollow stem augers and split spoons

**PARSONS**
**DRILLING RECORD**

**BORING/WELL ID: SB-61**

Sheet 1 of 1

**Contractor:** Advanced Drilling Technology (ADT)
**Driller:** Shawn Miller, Dylan Jewell
**Inspector:** Zohar Lavy
**Rig Type:** Truck CME-85

**PROJECT NAME:** Con Edison /Farrington Street Works
**PROJECT NUMBER:** 446109-06000

**Location Description:** Pathmark Parking Lot

| GROUNDWATER OBSERVATIONS | | | | |
|---|---|---|---|---|
| Water Level | DTW ~ 9 ft bgs | DTW | | |
| Date | 2/24/14 | | | |
| Time | 1008 | | | |
| Meas. From | Split Spoon | | | |

**Weather:** Clear, up to high 30s, breezy

**Date/Time Start:** 2/24/14 1002

**Date/Time Finish:** 02/24/14 1115

See Site Plan

| Sample Depth | Sample I.D. | SPT | Rec. (%) | PID (ppm) | FIELD IDENTIFICATION OF MATERIAL | COMMENTS |
|---|---|---|---|---|---|---|
| +1 | | | | | | |
| | | | | | | |
| 0 | | Vactron | | NA | 0-4" ASPHALT | |
| 1 | | Vactron | | 0.0 | 4"-2.5' Dry, brown, fine to medium SAND, some Cobble | |
| 2 | | Vactron | | 0.0 | 2.5-3.5' ASPHALT and CONCRETE | |
| 3 | | Vactron | | 0.0 | 3.5-5' Dry, brown, fine to medium SAND, some fine to coarse angular to sub-round Gravel, little Cobble, trace Brick | |
| 4 | | Vactron | | 0.0 | | |
| 5 | | 3-5-8-17 | 67 | 27.6 | Moist, dark brown fine to medium SAND, little Cobble, little fine to medium sub-angular Gravel | |
| 6 | | | | | | |
| 7 | | 17-23-12-9 | 83 | 42.5 | 0-12" Moist, grey, fine to medium SAND, little Cobble, little fine to medium sub-angular Gravel; 12-20" Wet, dark grey/black, medium to coarse SAND and fine angular GRAVEL, little Slag | |
| 8 | | | | | | |
| 9 | | 5-7-3-3 | 67 | 983.0 | Wet, dark grey/black, medium to coarse SAND and fine angular GRAVEL, little Slag, Sheens, Staining, NAPL Blebs, hydrocarbon odor | |
| 10 | | | | | | |
| 11 | | 2-2-1-1 | 75 | 1737.0 | 0-8" Wet, black, fine to coarse SAND and fine angular GRAVEL, little Slag, Sheens, Staining, NAPL Blebs, hydrocarbon odor; 8-18" Wet, black, fine to medium SAND, little Wood, little sub-angular fine to medium Gravel, strong hydrocarbon odor, Staining, NAPL Blebs | |
| 12 | | | | | | |
| 13 | SB-61 (13-15) | 4-1-2-1 | 83 | 1927.0 | 0-14" Wet, black, fine to coarse SAND, little Wood, little sub-angular fine to medium Gravel, strong hydrocarbon odor, Staining, NAPL Blebs; 14-20" PEAT, NAPL Blebs, strong hydrocarbon odor | |
| 14 | | | | | | |
| 15 | | WH/24" | 42 | 167.0 | PEAT, slight hydrocarbon odor | |
| 16 | | | | | | |
| 17 | | WH/12"-1-1 | 75 | 239.0 | 0-8" PEAT, little grey Clay | |
| 18 | | | | 572.0 | 8-10" PEAT, some black fine to medium Sand | |
| | | | | 156.0 | 10-18" PEAT and grey CLAY | |
| 19 | | WH/24" | 42 | 211.0 | PEAT, Sulfur odor | |
| 20 | | | | | | |
| 21 | | WH/24" | 50 | 125.0 | Moist, grey CLAY, little Peat, Sulfur odor | |
| 22 | | | | | | |
| 23 | | WH/24" | 75 | 26.8 | Grey CLAY, trace Shell | |
| 24 | | | | | | |
| 25 | | WH/24" | 50 | 30.2 | Grey CLAY, trace Shell, Sulfur odor | |
| 26 | | | | | | |
| 27 | | WH/24" | 53 | 20.9 | Grey CLAY, Sulfur odor | |
| 28 | | | | | | |
| 29 | | WH/24" | 17 | 48.5 | Grey CLAY, Sulfur odor | |
| 30 | | WH/48"-5-9 | 100 | 36.2 | 0-20" Grey CLAY | Macrocore was utilized from 30 to 35 ft bgs in attempt to gain more recovery |
| 31 | | | | 7.8 | 20-60" Grey CLAY | |
| 32 | SB-61 (32-34) | | | | | |
| 33 | | | | | | |
| 34 | | | | | | |
| 35 | | | | | **End of Boring at 35 ft bgs** | |

**SAMPLING METHOD**
WH = WEIGHT OF HAMMER
HC = HAND CLEARED
VC = VACUUM CLEARED
WOR = WEIGHT OF RODS

**COMMENTS:**
0-5 ft bgs was hand cleared
5-35 ft bgs advanced utilizing hollow stem augers and split spoons
NAPL encountered from approximately 9-15 ft bgs

**PARSONS**
**DRILLING RECORD**

**BORING/WELL ID: SB-62**

Sheet 1 of 1

**Contractor:** Advanced Drilling Technology (ADT)
**Driller:** Shawn Miller, Dylan Jewell
**Inspector:** Zohar Lavy
**Rig Type:** Truck CME-85

**PROJECT NAME:** Con Edison /Farrington Street Works
**PROJECT NUMBER:** 446109-06000

**Location Description:** Pathmark Parking Lot

| GROUNDWATER OBSERVATIONS | | | | |
|---|---|---|---|---|
| Water Level | DTW ~ 7 ft bgs | DTW | | |
| Date | 2/25/14 | | | |
| Time | 920 | | | |
| Meas. From | Split Spoon | | | |

**Weather:** Cloudy, up to low 30s

**Date/Time Start:** 2/25/14 0915

**Date/Time Finish:** 2/25/14 1030

See Site Plan

| Sample Depth | Sample I.D. | SPT | Rec. (%) | PID (ppm) | FIELD IDENTIFICATION OF MATERIAL | | COMMENTS |
|---|---|---|---|---|---|---|---|
| +1 | | | | | | | |
| | | | | | | | |
| 0 | | Vactron | | NA | 0-4" ASPHALT | | |
| 1 | | Vactron | | 0.0 | 4"-5' Dry, brown, fine to medium SAND, some Concrete, little Cobble | | |
| 2 | | Vactron | | | | | |
| 3 | | Vactron | | | | | |
| 4 | | Vactron | | | | | |
| 5 | | 2-2-4-7 | 0 | NA | No Recovery | | |
| 6 | | | | | | | |
| 7 | | 14-9-11-12 | 53 | 1.5 | Wet, black, medium to coarse SAND and fine angular GRAVEL, some Slag | | |
| 8 | | | | | | | |
| 9 | | 10-6-2-3 | 25 | 1.1 | Wet, brown, fine to medium SAND, some fine to coarse angular to sub-angular Gravel, trace | | |
| 10 | | | | | Silt, trace Slag | | |
| 11 | | 3-1-1-2 | 67 | 12.3 | Wet, black/dark grey, fine to medium GRAVEL, some fine to medium Sand, trace Slag | | |
| 12 | | | | | | | |
| 13 | | 3-5-3-4 | 0 | NA | No Recovery | | |
| 14 | | | | | | | |
| 15 | | 5-4-2-1 | 42 | 68.2 | Wet, black/dark grey, medium to coarse SAND and fine to medium sub-angular to round | | |
| 16 | | | | | GRAVEL | | |
| 17 | SB-62 (17-19) | 2-2-2-1 | 83 | 103.0 | 0-8" Wet, black/dark grey, medium to coarse SAND and fine to medium sub-angular to round | | |
| 18 | | | | | GRAVEL, slight NAPL Blebs, hydrocarbon odor; 8-20" PEAT, some Clay | | |
| 19 | | 1-1-1-1 | 25 | 19.5 | Grey CLAY, little Peat | | |
| 20 | | | | | | | |
| 21 | | WH-1-1-1 | 42 | 16.2 | Dark grey CLAY, some Peat | | |
| 22 | | | | | | | |
| 23 | | 1-1-2-1 | 50 | 2.9 | Grey CLAY, little Shell | | |
| 24 | | | | | | | |
| 25 | | WH/24" | 100 | 4.3 | 0-18" Grey CLAY, little Shell; 18-24" Grey CLAY | | |
| 26 | | | | | | | |
| 27 | | WH/24" | 53 | 5.6 | Grey CLAY, trace Shell | | |
| 28 | | | | | | | |
| 29 | SB-62 (29-31) | WH/24" | 50 | 3.2 | Grey CLAY, trace Shell | | |
| 30 | | | | | | | |
| 31 | | | | | **End of Boring at 31 ft bgs** | | |

**SAMPLING METHOD**
WH = WEIGHT OF HAMMER
HC = HAND CLEARED
VC = VACUUM CLEARED
WOR = WEIGHT OF RODS

**COMMENTS:**
0-5 ft bgs was hand cleared
5-31 ft bgs advanced utilizing hollow stem augers and split spoons
NAPL encountered from approximately 17-18 ft bgs

**PARSONS**
**DRILLING RECORD**

**BORING/WELL ID: CSB-63**

Sheet 1 of 1

**Contractor:** Advanced Drilling Technology (ADT)
**Driller:** Shawn Miller, Dylan Jewell
**Inspector:** Zohar Lavy
**Rig Type:** Truck CME-85

**PROJECT NAME:** Con Edison /Farrington Street Works
**PROJECT NUMBER:** 446109-06000

**Location Description:** Pathmark Parking Lot

| GROUNDWATER OBSERVATIONS | | | | |
|---|---|---|---|---|
| Water Level | DTW ~ 7 ft bgs | DTW | | |
| Date | 2/28/14 | | | |
| Time | 1326 | | | |
| Meas. From | Split Spoon | | | |

**Weather:** Clear, up to low 20s
**Date/Time Start:** 2/28/14 1323
**Date/Time Finish:** 2/28/14 1433

See Site Plan

| Sample Depth | Sample I.D. | SPT | Rec. (%) | PID (ppm) | FIELD IDENTIFICATION OF MATERIAL | COMMENTS |
|---|---|---|---|---|---|---|
| +1 | | | | | | |
| | | | | | | |
| 0 | | Vactron | | NA | 0-6" ASPHALT | |
| 1 | | Vactron | | 0.0 | 6"-5' Dry, brown, fine to medium SAND, some Concrete debris, little Cobble, little Brick | |
| 2 | | Vactron | | | | |
| 3 | | Vactron | | | | |
| 4 | | Vactron | | | | |
| 5 | | 5-6-7-9 | 100 | 1.9 | Moist, dark grey, fine to medium SAND and fine to coarse angular to sub-angular GRAVEL, little Silt, little Concrete | |
| 6 | | | | | | |
| 7 | | 5-5-8-9 | 75 | 1.8 | Wet, dark grey, fine to medium SAND and fine to coarse angular to sub-angular GRAVEL, little Silt, trace Slag | |
| 8 | | | | | | |
| 9 | | 5-6-7-8 | 92 | 1.5 | 0-18" Moist, brown/grey, fine to medium SAND, little fine to medium angular to round Gravel, little Silt, trace Ash; 18-22" Wet, black, fine SAND and fine angular GRAVEL, little Ash, trace Slag | |
| 10 | | | | | | |
| 11 | | 3-3-4-3 | 83 | 5.2 | Wet, grey, fine SAND and fine angular GRAVEL, little Ash, trace Slag | |
| 12 | | | | | | |
| 13 | SB-63 (13-15) | 4-2-2-2 | 67 | 13.2 | 0-3" Moist, black, fine to medium SAND, little fine sub-round Gravel, slight staining | |
| 14 | | | | 1.5 | 3-16" PEAT | |
| 15 | | WH/24" | 0 | NA | No Recovery | |
| 16 | | | | | | |
| 17 | | WH/24" | 25 | 13.5 | Moist, grey, fine SAND, some Silt, Sheen, slight hydrocarbon odor | The material described is likely sluff from above |
| 18 | | | | | | |
| 19 | | WH/24" | 67 | 0.8 | Moist, grey CLAY, little Shell | |
| 20 | | | | | | |
| 21 | | WH/24" | 50 | 1.0 | Moist, grey CLAY, trace sub-angular medium Gravel | |
| 22 | | | | | | |
| 23 | | WH/24" | 83 | 0.9 | Moist, grey CLAY, trace Shell | |
| 24 | | | | | | |
| 25 | | WH/24" | 92 | 1.1 | Moist, grey CLAY, trace Shell | |
| 26 | | | | | | |
| 27 | | WH/24" | 100 | 0.8 | Moist, grey CLAY, trace Shell | |
| 28 | | | | | | |
| 29 | SB-63 (29-31) | WH/24" | 92 | 0.9 | Moist, grey CLAY, trace Shell | |
| 30 | | | | | | |
| 31 | | | | | **End of Boring at 31 ft bgs** | |

**SAMPLING METHOD**
WH = WEIGHT OF HAMMER
HC = HAND CLEARED
VC = VACUUM CLEARED
WOR = WEIGHT OF RODS

**COMMENTS:**
0-5 ft bgs was hand cleared
5-31 ft bgs advanced utilizing hollow stem augers and split spoons

**PARSONS**
**DRILLING RECORD**

**BORING/WELL ID: CSB-64**

Sheet 1 of 1

**Contractor:** Advanced Drilling Technology (ADT)
**Driller:** Shawn Miller, Dylan Jewell
**Inspector:** Zohar Lavy
**Rig Type:** Truck CME-85

**PROJECT NAME:** Con Edison /Farrington Street Works
**PROJECT NUMBER:** 446109-06000

**Location Description:** Pathmark Parking Lot

| GROUNDWATER OBSERVATIONS | | | | |
|---|---|---|---|---|
| Water Level | DTW ~ 7 ft bgs | DTW | | |
| Date | 3/5/14 | | | |
| Time | 1254 | | | |
| Meas. From | Split Spoon | | | |

**Weather:** Cloudy, up to high 30s

**Date/Time Start:** 3/5/14 1250

**Date/Time Finish:** 3/5/14 1338

See Site Plan

| Sample Depth | Sample I.D. | SPT | Rec. (%) | PID (ppm) | FIELD IDENTIFICATION OF MATERIAL | | COMMENTS |
|---|---|---|---|---|---|---|---|
| +1 | | | | | | | |
| | | | | | | | |
| 0 | | Vactron | | NA | 0-6" ASPHALT | | |
| 1 | | Vactron | | 0.0 | 6"-5' Dry, brown, fine to medium SAND, some Concrete, little Cobble, trace brick | | |
| 2 | | Vactron | | | | | |
| 3 | | Vactron | | | | | |
| 4 | | Vactron | | | | | |
| 5 | | 20-11-12-27 | 50 | 6.8 | Moist, brown, fine to medium SAND, little fine to coarse angular to sub-angular Gravel, little Silt, trace Concrete | | |
| 6 | | | | | | | |
| 7 | CSB-64 (7-9) | 24-30-25-19 | 75 | 9.5 | 0-14" Wet, black, fine SAND and fine to medium angular GRAVEL, some Slag; 14-18" Moist, tan, fine to medium SAND, trace angular fine Gravel | | |
| 8 | | | | | | | |
| 9 | | 12-5-11-14 | 83 | 2.3 | 0-12" Moist, tan, fine to medium SAND, trace angular fine Gravel; 12-20" Wet, black, fine SAND and SLAG, some fine to medium angular Gravel, trace Coal | | |
| 10 | | | | | | | |
| 11 | | 7-5-5-4 | 67 | 7.7 | 0-10" Moist, grey, fine to medium SAND, little fine to medium angular to sub-angular Gravel; 10-16" Wet, grey, fine to medium SAND and ASH, some Slag | | |
| 12 | | | | | | | |
| 13 | | 4-2-3-3 | 50 | 8.1 | 0-8" Wet, black, fine to medium SAND, some fine angular to sub-angular Gravel, little Wood, little Ash, trace Slag; 8-12" PEAT | | |
| 14 | | | | | | | |
| 15 | | 2-3-2-2 | 33 | 0.5 | PEAT | | |
| 16 | | | | | | | |
| 17 | | 1-2-1-1 | 42 | 0.5 | Grey CLAY and PEAT | | |
| 18 | | | | | | | |
| 19 | | WH/24" | 0 | NA | No Recovery | | |
| 20 | | | | | | | |
| 21 | | WH/12"-1-2 | 25 | 0.8 | Grey CLAY | | |
| 22 | | | | | | | |
| 23 | | WH/24" | 67 | 1.1 | Wet, grey fine SAND, some Silt, little Clay | | |
| 24 | | | | | | | |
| 25 | | WH/24" | 92 | 1.1 | 0-14" Grey CLAY, some Peat; 14-22" Grey CLAY | | |
| 26 | | | | | | | |
| 27 | | WH/24" | 92 | 1.3 | Grey CLAY, trace Shell | | |
| 28 | | | | | | | |
| 29 | CSB-64 (29-31) | WH/24" | 83 | 1.1 | Grey CLAY, trace Shell | | |
| 30 | | | | | | | |
| 31 | | | | | **End of Boring at 31 ft bgs** | | |

**SAMPLING METHOD**
WH = WEIGHT OF HAMMER
HC = HAND CLEARED
VC = VACUUM CLEARED
WOR = WEIGHT OF RODS

**COMMENTS:**
0-5 ft bgs was hand cleared
5-31 ft bgs advanced utilizing hollow stem augers and split spoons

**PARSONS**
**DRILLING RECORD**

**BORING/WELL ID: CSB-65**

Sheet 1 of 1

**Contractor:** Advanced Drilling Technology (ADT)
**Driller:** Shawn Miller, Dylan Jewell
**Inspector:** Zohar Lavy
**Rig Type:** Truck CME-85

**PROJECT NAME:** Con Edison /Farrington Street Works
**PROJECT NUMBER:** 446109-06000

**Location Description:** Pathmark Parking Lot

| GROUNDWATER OBSERVATIONS | | | | |
|---|---|---|---|---|
| Water Level | DTW ~ 7 ft bgs | DTW | | |
| Date | 2/27/14 | | | |
| Time | 956 | | | |
| Meas. From | Split Spoon | | | |

**Weather:** Clear, up to low 30s
**Date/Time Start:** 2/27/14 0953
**Date/Time Finish:** 2/27/14 1115

See Site Plan

| Sample Depth | Sample I.D. | SPT | Rec. (%) | PID (ppm) | FIELD IDENTIFICATION OF MATERIAL | COMMENTS |
|---|---|---|---|---|---|---|
| +1 | | | | | | |
| | | | | | | |
| 0 | | Vactron | | NA | 0-6" ASPHALT | |
| 1 | | Vactron | | 0.0 | 6"-1' Dry, brown, fine to medium SAND, little Metal, little Brick, trace Silt, trace COBBLE | |
| 2 | | Vactron | | 0.0 | 1-3' Dry, brown, fine to medium SAND and CONCRETE, little Metal, little Brick, trace Silt, | |
| 3 | | Vactron | | | trace COBBLE; 3-4.5' Dry, dark brown, fine to medium SAND, little Cobble, trace Brick, | |
| 4 | | Vactron | | | trace Silt; 4.5-5' Wet, dark brown, fine to medium SAND, little Cobble, trace Brick, trace Silt | |
| 5 | | 5-24-21-24 | 67 | 2.1 | Moist, grey/brown, medium SAND, some fine to coarse angular to sub-round Gravel, trace | |
| 6 | | | | | Silt, trace Ash | |
| 7 | | 14-22-13-10 | 83 | 2.6 | 0-14" Wet, Moist, grey/brown, medium SAND, some fine to coarse angular to sub-round | |
| 8 | | | | | Gravel, trace Silt, trace Ash; 14-20" Wet, black, medium SAND and fine angular GRAVEL, some Slag, little Ash | |
| 9 | | 11-5-2-2 | 33 | 2.3 | Wet, black, medium SAND and fine angular GRAVEL, some Slag, little Ash | |
| 10 | | | | | | |
| 11 | | 4-3-1-2 | 33 | 1.8 | Wet, black, medium SAND and fine angular GRAVEL, some Ash, little Slag | |
| 12 | | | | | | |
| 13 | | 4-2-2-2 | 0 | NA | | A rock was lodged in the cutting shoe from 13-15' bgs and NAPL blebs noted on the rock |
| 14 | | | | | | |
| 15 | CSB-65 (15-17) | 2-1-1-1 | 75 | 38.5 | 0-3" Wet, black, fine to medium SAND and fine angular to sub-angular GRAVEL, | |
| 16 | | | | | | |
| 17 | | WH/24" | 0 | NA | No recovery | |
| 18 | | | | | | |
| 19 | | WH/24" | 50 | 22.3 | PEAT, some grey Clay, sulfur odor | |
| 20 | | | | | | |
| 21 | | WH/24" | 83 | 18.7 | Grey CLAY, little Shell | |
| 22 | | | | | | |
| 23 | | WH/24" | 100 | 21.5 | Grey CLAY, little Shell | |
| 24 | | | | | | |
| 25 | | WH/24" | 83 | 23.7 | Grey CLAY, trace Shell | |
| 26 | | | | | | |
| 27 | | WH/24" | 92 | 25.8 | Grey CLAY | |
| 28 | | | | | | |
| 29 | CSB-65 (29-31) | WH/24" | 83 | 34.2 | Grey CLAY, little Shell, strong sulfur odor | |
| 30 | | | | | | |
| 31 | | WH/24" | 92 | 24.6 | Grey CLAY | |
| 32 | | | | | | |
| 33 | | WH/24" | 92 | 21.5 | Grey CLAY | |
| 34 | | | | | | |
| 35 | | WH/24" | 83 | 10.3 | 0-20" Grey CLAY, trace Shell | |
| 36 | | | | | | |
| 37 | CSB-65 (37-39) | 9-9-11-10 | 42 | 1.1 | Moist, brown SILT and fine SAND, little Clay, little fine round Gravel | |
| 38 | | | | | | |
| 39 | | | | | **End of Boring at 39 ft bgs** | |

**SAMPLING METHOD**
WH = WEIGHT OF HAMMER
HC = HAND CLEARED
VC = VACUUM CLEARED
WOR = WEIGHT OF RODS

**COMMENTS:**
0-5 ft bgs was hand cleared
5-39 ft bgs advanced utilizing hollow stem augers and split spoons
An unknown quantity of NAPL encountered in the 13-15 ft bgs interval.

**PARSONS**
**DRILLING RECORD**

**BORING/WELL ID: CSB-66**
Sheet 1 of 1

**Contractor:** Advanced Drilling Technology (ADT)
**Driller:** Shawn Miller, Dylan Jewell
**Inspector:** Zohar Lavy
**Rig Type:** Truck CME-85

**PROJECT NAME:** Con Edison /Farrington Street Works
**PROJECT NUMBER:** 446109-06000

**Location Description:** Pathmark Parking Lot

| GROUNDWATER OBSERVATIONS | | | | |
|---|---|---|---|---|
| Water Level | DTW ~ 7 ft bgs | DTW | | |
| Date | 2/26/14 | | | |
| Time | 1258 | | | |
| Meas. From | Split Spoon | | | |

**Weather:** Cloudy, flurries, up to low 30s
**Date/Time Start:** 2/26/14 1255
**Date/Time Finish:** 2/26/14 1340

See Site Plan

| Sample Depth | Sample I.D. | SPT | Rec. (%) | PID (ppm) | FIELD IDENTIFICATION OF MATERIAL | COMMENTS |
|---|---|---|---|---|---|---|
| +1 | | | | | | |
| | | | | | | |
| 0 | | Vactron | | NA | 0-4" ASPHALT | |
| 1 | | Vactron | | 0.0 | 4"-3' Dry, brown, medium SAND and COBBLE | |
| 2 | | Vactron | | 0.0 | 3-5' Dry, dark brown, fine to medium SAND, some Concrete, little Cobble | |
| 3 | | Vactron | | | | |
| 4 | | Vactron | | | | |
| 5 | | 5-15-15-21 | 67 | 2.2 | Moist, brown, fine to medium SAND, some sub-angular Gravel, little Coal | |
| 6 | | | | | | |
| 7 | | 7-6-4-4 | 75 | 1.5 | Wet, dark, grey/black, coarse SAND and fine angular to sub-angular GRAVEL, some Ash, little Slag | |
| 8 | | | | | | |
| 9 | | 6-5-4-3 | 58 | 6.7 | Wet, dark grey SILT, some fine Sand, little Clay, little Peat, trace medium sub-angular Gravel | |
| 10 | | | | | | |
| 11 | CSB-66 (11-13) | 1-2-WH-1 | 83 | 42.6 | 0-12" Wet, dark grey SILT, some fine Sand, little Clay, little Peat, trace medium sub-angular Gravel; 12-20" Wet, black, fine to medium SAND, some fine to coarse angular to sub-angular Gravel, little Silt, hydrocarbon odor, sheens, slight staining, slight NAPL blebs | |
| 12 | | | | | | |
| 13 | | 2-1-1-1 | 0 | NA | No Recovery | |
| 14 | | | | | | |
| 15 | | 2-1-1-1 | 83 | 5.9 | 0-8" Moist, grey CLAY and PEAT; 8-12" Wet, dark grey, fine to medium SAND, some fine sub-angular Gravel | |
| | | | | | | |
| 16 | | | | 16.6 | 12-20" Moist, grey CLAY and PEAT | |
| 17 | | WH/24" | 100 | 4.3 | Moist, grey CLAY, little Peat, sulfur odor | |
| 18 | | | | | | |
| 19 | | WH/24" | 92 | 4.2 | Moist, grey CLAY, little Peat, sulfur odor | |
| 20 | | | | | | |
| 21 | | WOR/24" | 67 | 1.5 | Moist, grey CLAY, trace Shell, sulfur odor | |
| 22 | | | | | | |
| 23 | | WH/18"-2 | 83 | 1.9 | Moist, grey CLAY, trace Shell, sulfur odor | |
| 24 | | | | | | |
| 25 | | WOR/1'-WH/1' | 100 | 2.1 | Moist, grey CLAY, trace Shell, sulfur odor | |
| 26 | | | | | | |
| 27 | | WH/24" | 100 | 1.1 | Moist, grey CLAY, trace Shell | |
| 28 | | | | | | |
| 29 | CSB-66 (29-31) | WH/24" | 100 | 1.2 | Moist, grey CLAY | |
| 30 | | | | | | |
| 31 | | | | | **End of Boring at 31 ft bgs** | |

**SAMPLING METHOD**
WH = WEIGHT OF HAMMER
HC = HAND CLEARED
VC = VACUUM CLEARED
WOR = WEIGHT OF RODS

**COMMENTS:**
0-5 ft bgs was hand cleared
5-31 ft bgs advanced utilizing hollow stem augers and split spoons
NAPL encountered from approximately 12-13 ft bgs

**PARSONS**
**DRILLING RECORD**

**BORING/WELL ID: CSB-67**
Sheet 1 of 1

**Contractor:** Advanced Drilling Technology (ADT)
**Driller:** Shawn Miller, Dylan Jewell
**Inspector:** Zohar Lavy
**Rig Type:** Truck CME-85

**PROJECT NAME:** Con Edison /Farrington Street Works
**PROJECT NUMBER:** 446109-06000

**Location Description:** Pathmark Parking Lot

| GROUNDWATER OBSERVATIONS | | | | |
|---|---|---|---|---|
| Water Level | DTW ~ 6 ft bgs | DTW | | |
| Date | 3/3/14 | | | |
| Time | 1230 | | | |
| Meas. From | Split Spoon | | | |

**Weather:** Cloudy, snow, up to high 20s
**Date/Time Start:** 3/3/14 1230
**Date/Time Finish:** 3/3/14 1324

See Site Plan

| Sample Depth | Sample I.D. | SPT | Rec. (%) | PID (ppm) | FIELD IDENTIFICATION OF MATERIAL | | COMMENTS |
|---|---|---|---|---|---|---|---|
| +1 | | | | | | | |
| | | | | | | | |
| 0 | | Vactron | | NA | 0-6" ASPHALT | | |
| 1 | | Vactron | | 0.0 | 6"-4.5' Dry, brown, fine to medium SAND, some Concrete debris, little Brick, little fine to coarse sub-angular to round Gravel | | |
| 2 | | Vactron | | | | | |
| 3 | | Vactron | | | 4.5-5' WOOD | | |
| 4 | | Vactron | | | | | |
| 5 | | 7-4-11-15 | 75 | 2.6 | 0-8" Moist, dark grey, fine to medium SAND, some fine to medium angular Gravel; 8-18" Wet, dark grey, fine to medium SAND, some fine to medium angular Gravel, little Slag | | |
| 6 | | | | | | | |
| 7 | | 9-7-6-3 | 58 | 3.7 | Wet, black, medium SAND and fine to coarse angular to sub-angular GRAVEL | | |
| 8 | | | | | | | |
| 9 | | 6-3-3-4 | 33 | 11.2 | Wet, black, medium SAND and fine to coarse angular to sub-angular GRAVEL, some Slag, slight Sheen | | |
| 10 | | | | | | | |
| 11 | SB-67 (11-13) | 2-4-2-2 | 58 | 25.2 | 0-6" Wet, black, medium SAND and fine to coarse angular to sub-angular GRAVEL, some Slag, NAPL Blebs, Sheens, hydrocarbon odor; 6-14" Wet, black, fine to medium SAND, some fine to medium angular Gravel, little Slag, NAPL Blebs, hydrocarbon odor and staining | | |
| 12 | | | | | | | |
| 13 | | 2-1-2-2 | 83 | 20.6 | 0-6" Wet, black, fine to medium SAND, some fine to medium angular Gravel, little Slag, NAPL Blebs, hydrocarbon odor and staining | | |
| 14 | | | | 6.7 | 6-20" PEAT | | |
| 15 | | 1-1-1-1 | 0 | NA | No Recovery | | |
| 16 | | | | | | | |
| 17 | | WH/24" | 33 | 5.2 | Grey CLAY, trace Peat | | |
| 18 | | | | | | | |
| 19 | | WH/24" | 92 | 0.0 | Grey CLAY, trace Peat, trace Shell | | |
| 20 | | | | | | | |
| 21 | | WH/24" | 83 | 0.0 | Grey CLAY, trace Peat, trace Shell | | |
| 22 | | | | | | | |
| 23 | | WH/24" | 92 | 0.0 | Grey CLAY, trace Shell | | |
| 24 | | | | | | | |
| 25 | | WH/24" | 75 | 0.0 | Grey CLAY, some Silt | | |
| 26 | | | | | | | |
| 27 | | WH/24" | 75 | 0.0 | Grey CLAY | | |
| 28 | | | | | | | |
| 29 | SB-67 (29-31) | WH/24" | 83 | 0.0 | Grey CLAY, trace Shell | | |
| 30 | | | | | | | |
| 31 | | | | | **End of Boring at 31 ft bgs** | | |

**SAMPLING METHOD**
WH = WEIGHT OF HAMMER
HC = HAND CLEARED
VC = VACUUM CLEARED
WOR = WEIGHT OF RODS

**COMMENTS:**
0-5 ft bgs was hand cleared
5-31 ft bgs advanced utilizing hollow stem augers and split spoons
NAPL encountered from approximaetly 11-14 ft bgs

**PARSONS**
**DRILLING RECORD**

**BORING/WELL ID: CSB-68**

Sheet 1 of 1

**Contractor:** Advanced Drilling Technology (ADT)
**Driller:** Shawn Miller, Dylan Jewell
**Inspector:** Zohar Lavy
**Rig Type:** Truck CME-85

**PROJECT NAME:** Con Edison /Farrington Street Works
**PROJECT NUMBER:** 446109-06000

**Location Description:** Pathmark Parking Lot

**Weather:** Cloudy, up to high 30s

**Date/Time Start:** 3/5/14 0925

**Date/Time Finish:** 3/5/14 1033

See Site Plan

| GROUNDWATER OBSERVATIONS | | | | |
|---|---|---|---|---|
| Water Level | DTW ~ 7 ft bgs | DTW | | |
| Date | 3/5/14 | | | |
| Time | 928 | | | |
| Meas. From | Split Spoon | | | |

| Sample Depth | Sample I.D. | SPT | Rec. (%) | PID (ppm) | FIELD IDENTIFICATION OF MATERIAL | COMMENTS |
|---|---|---|---|---|---|---|
| +1 | | | | | | |
| | | | | | | |
| 0 | | Vactron | | NA | 0-6" ASHPHALT | |
| 1 | | Vactron | | 0.0 | 6"-5' Dry, brown, fine to medium SAND, some Concrete debris, little Wood, trace Silt | |
| 2 | | Vactron | | | | |
| 3 | | Vactron | | | | |
| 4 | | Vactron | | | | |
| 5 | | 4-10-12-25 | 58 | 5.3 | Moist, brown, fine to medium SAND, some fine to coarse sub-angular Gravel, little Cobble, trace Silt | |
| 6 | | | | | | |
| 7 | | 28-50/4" | 42 | 13.6 | 0-7" Wet, brown, fine to medium SAND, some fine to coarse sub-angular Gravel, little Cobble, trace Silt; 7-10" Wet, black, fine to medium SAND and fine angular GRAVEL, slight hydrocarbon odor | |
| 8 | | | | | | |
| 9 | | 13-7-3-2 | 0 | NA | No Recovery | |
| 10 | | | | | | |
| 11 | | 2-3-2-4 | 67 | 63.7 | 0-10" Wet, black, fine to medium SAND and fine sub-angular to angular GRAVEL, little Ash, trace Silt, hydrocarbon odor, staining; 10-16" Wet, grey, fine to medium SAND and fine sub-angular to angular GRAVEL, little Ash, trace Silt, hydrocarbon odor, staining | |
| 12 | | | | | | |
| 13 | | 39-11-3-3 | 50 | 32.6 | Wet, black, fine to medium SAND and fine sub-angular to angular GRAVEL, little Ash, trace Silt,trace Coal, hydrocarbon odor, staining | |
| 14 | | | | | | |
| 15 | | 3-5-5-7 | 25 | 25.5 | Wet, black, fine to medium SAND and fine sub-angular to angular GRAVEL, little Ash, trace Silt,trace Coal, hydrocarbon odor, staining | |
| 16 | | | | | | |
| 17 | CSB-68 (17-19) | 2-2-2-3 | 75 | 116.0 | 0-10" Wet, black, fine to medium SAND, some fine to medium sub-angular Gravel, trace Silt, hydrocarbon odor; 10-18" PEAT | |
| 18 | | | | | | |
| 19 | | 4-2-2-2 | 83 | 23.8 | Grey CLAY, little Peat, trace Shell | |
| 20 | | | | | | |
| 21 | | WH/24" | 83 | 22.5 | Grey CLAY, some Peat | |
| 22 | | | | | | |
| 23 | | WH/24" | 0 | NA | No Recovery | |
| 24 | | | | | | |
| 25 | | WH/24" | 50 | 10.1 | Grey CLAY, some Peat | |
| 26 | | | | | | |
| 27 | | WH/24" | 67 | 7.6 | Grey CLAY, some Peat | |
| 28 | | | | | | |
| 29 | | WH/24" | 58 | 8.3 | Grey CLAY | |
| | | | | | | |
| 30 | | 1-1-1-2-1 | 100 | 0.5 | 0-44" Grey CLAY | Macrocore was utilized from 30 to 35 ft bgs in attempt to gain more recovery |
| 31 | | 4-5-1-16-14 | | 0.0 | 44-50" Moist, grey, fine SAND, some Silt | |
| 32 | | | | | 50-60" Moist, tan/brown, fine to medium SAND | |
| 33 | | | | | | |
| 34 | CSB-68 (34-35) | | | | | |
| 35 | | | | | **End of Boring at 35 ft bgs** | |

**SAMPLING METHOD**
WH = WEIGHT OF HAMMER
HC = HAND CLEARED
VC = VACUUM CLEARED
WOR = WEIGHT OF RODS

**COMMENTS:**
0-5 ft bgs was hand cleared
5-35 ft bgs advanced utilizing hollow stem augers and split spoons

**PARSONS**
**DRILLING RECORD**

**BORING/WELL ID: SB-69**
Sheet 1 of 1

**Contractor:** Advanced Drilling Technology (ADT)
**Driller:** Shawn Miller, Dylan Jewell
**Inspector:** Zohar Lavy
**Rig Type:** Truck CME-85

**PROJECT NAME:** Con Edison /Farrington Street Works
**PROJECT NUMBER:** 446109-06000

**Location Description:** Pathmark Parking Lot

| GROUNDWATER OBSERVATIONS | | | | |
|---|---|---|---|---|
| Water Level | DTW ~ 7 ft bgs | DTW | | |
| Date | 2/26/14 | | | |
| Time | 910 | | | |
| Meas. From | Split Spoon | | | |

**Weather:** Cloudy, flurries, up to low 30s
**Date/Time Start:** 2/26/14 0850
**Date/Time Finish:** 2/26/14 1004

See Site Plan

| Sample Depth | Sample I.D. | SPT | Rec. (%) | PID (ppm) | FIELD IDENTIFICATION OF MATERIAL | COMMENTS |
|---|---|---|---|---|---|---|
| +1 | | | | | | |
| | | | | | | |
| 0 | | Vactron | | NA | 0-4" ASPHALT | |
| 1 | | Vactron | | 0.0 | 4"-3' Dry, brown, medium SAND and COBBLE | |
| 2 | | Vactron | | 0.0 | 3-5' Dry, dark brown, fine to medium SAND, some Concrete, little Cobble | |
| 3 | | Vactron | | | | |
| 4 | | Vactron | | | | |
| 5 | | 3-5-38-14 | 50 | 2.7 | Moist, brown, fine to medium SAND, some Cobble, little fine to medium angular to sub-angular Gravel, trace Concrete | |
| 6 | | | | | | |
| 7 | | 26-29-34-9 | 83 | 2.3 | 0-4" Moist, brown, fine to medium SAND, some Cobble, little fine to medium angular to sub-angular Gravel, trace Concrete; 4-20" Wet, black, medium to coarse SAND and fine angular GRAVEL, some Slag, little Ash, trace Cobble | |
| 8 | | | | | | |
| 9 | SB-69 (9-11) | 16-9-7-6 | 33 | 45.6 | Wet, brown, fine SAND and fiber board, some sub-angular medium to coarse Gravel | |
| 10 | | | | | | |
| 11 | | 3-2-2-1 | 67 | 25.5 | 0-12" Wet, grey, fine angular GRAVEL, some Ash; 12-16" Wet, grey, fine to medium SAND, some Ash, little fine to medium sub-angular to angular Gravel | |
| 12 | | | | | | |
| 13 | | 1-2-1-2 | 83 | 10.5 | 0-8" Wet, grey, fine to medium SAND, some Ash, little fine to medium sub-angular to angular Gravel, little Slag; 8-20" PEAT | |
| 14 | | | | | | |
| 15 | | 1-2-1-1 | 75 | 4.2 | Moist, PEAT, little grey Clay | |
| 16 | | | | | | |
| 17 | | 1-1-1-1 | 92 | 5.1 | Moist, grey CLAY, little Peat | |
| 18 | | | | | | |
| 19 | | 3-7-2-1 | 100 | 4.5 | Moist, PEAT, trace Clay | |
| 20 | | | | | | |
| 21 | | 2-2-1-1 | 83 | 3.6 | Moist, grey CLAY | |
| 22 | | | | | | |
| 23 | | 13-14-17-11 | 0 | NA | No Recovery | |
| 24 | | | | | | |
| 25 | | 3-2-5-7 | 100 | 0.5 | 0-20" Moist, PEAT, some grey Clay; 20-24" Moist, tan, fine to medium SAND, little Silt | |
| 26 | | | | | | |
| 27 | | 3-4-7-11 | 83 | 0.8 | 0-6" Wet, tan/orange, medium to coarse SAND; 6-20" Moist, tan/orange, fine SAND | |
| 28 | | | | | | |
| 29 | SB-69 (29-31) | 9-12-12-12 | 92 | 0.5 | Wet, tan/red, fine to medium SAND, little fine sub-angular Gravel | |
| 30 | | | | | | |
| 31 | | | | | **End of Boring at 31 ft bgs** | |

**SAMPLING METHOD**
WH = WEIGHT OF HAMMER
HC = HAND CLEARED
VC = VACUUM CLEARED
WOR = WEIGHT OF RODS

**COMMENTS:**
0-5 ft bgs was hand cleared
5-31 ft bgs advanced utilizing hollow stem augers and split spoons

**PARSONS**
**DRILLING RECORD**

**BORING/WELL ID: SB-70**

Sheet 1 of 1

**Contractor:** Advanced Drilling Technology (ADT)
**Driller:** Shawn Miller, Dylan Jewell
**Inspector:** Zohar Lavy
**Rig Type:** Truck CME-85

**PROJECT NAME:** Con Edison /Farrington Street Works
**PROJECT NUMBER:** 446109-06000

**Location Description:** Pathmark Parking Lot

| GROUNDWATER OBSERVATIONS | | | | |
|---|---|---|---|---|
| Water Level | DTW ~ 9 ft bgs | DTW | | |
| Date | 2/24/14 | | | |
| Time | 1355 | | | |
| Meas. From | Split Spoon | | | |

**Weather:** Clear, up to high 30s, breezy
**Date/Time Start:** 2/24/14 1345
**Date/Time Finish:** 02/24/14 1445

See Site Plan

| Sample Depth | Sample I.D. | SPT | Rec. (%) | PID (ppm) | FIELD IDENTIFICATION OF MATERIAL | | COMMENTS |
|---|---|---|---|---|---|---|---|
| +1 | | | | | | | |
| | | | | | | | |
| 0 | | Vactron | | NA | 0-6" ASPHALT | | |
| 1 | | Vactron | | 0.0 | 6"-1' Wet, coarse GRAVEL (sub-base) | | |
| 2 | | Vactron | | 0.0 | 1-3' Moist, brown, fine to medium SAND, some round Cobble | | |
| 3 | | Vactron | | 0.0 | 3-4' COBBLE | | |
| 4 | | Vactron | | 0.0 | 4-5' Moist, brown, fine to medium SAND, some round Cobble, trace Brick | | |
| 5 | | 2-4-6-7 | 75 | 2.1 | Wet, dark grey/brown, fine to medium SAND, some fine to coarse angular to sub-round Gravel, trace brick, trace Silt. | | |
| 6 | | | | | | | |
| 7 | SB-70 (7-9) | 4-11-15-8 | 92 | 19.5 | Moist, dark grey/brown, fine to medium SAND, little Cobble, trace Slag, trace Ash, trace Wood | | |
| 8 | | | | | | | |
| 9 | | 3-3-1-2 | 75 | 2.1 | 0-10" Moist, dark grey/brown, fine to medium SAND, some ASH, little Cobble, trace Slag, trace Wood; 10-18" Wet, grey, fine to medium SAND and fine angular to sub-angular GRAVEL, little Ash, trace Silt | | |
| 10 | | | | | | | |
| 11 | | 1-1-1-1 | 42 | 1.1 | Wet, grey, fine to medium SAND and fine angular to sub-angular GRAVEL, little Ash, trace Silt, trace Brick | | |
| 12 | | | | | | | |
| 13 | | 1/12"-1-1 | 25 | 0.8 | Wet, black, fine to medium SAND and fine angular GRAVEL, trace Silt, trace Organics | | |
| 14 | | | | | | | |
| 15 | | 1-2-1-2 | 83 | 1.0 | 0-8" Wet, black, fine to medium SAND and fine angular GRAVEL, trace Silt, trace Organics; 8-20" PEAT | | |
| 16 | | | | | | | |
| 17 | | WH/24" | 100 | 0.9 | 0-5" PEAT; 5-24" Moist, grey CLAY, little Peat | | |
| 18 | | | | | | | |
| 19 | | WH/12"-2-4 | 53 | 0.8 | 0-12" Moist, grey CLAY, little Peat; 12-14" Moist, grey CLAY, little grey, fine to medium Sand | | |
| 20 | | | | | | | |
| 21 | | 4-5-5-7 | 75 | 0.8 | 0-14" Moist grey/olive, fine SAND, trace Silt; 14-18" Moist, brown, fine SAND, trace Silt | | |
| 22 | | | | | | | |
| 23 | | 2-4-6-4 | 53 | 0.9 | Moist, brown, fine SAND, trace Silt | | |
| 24 | | | | | | | |
| 25 | | 3-4-7-6 | 67 | 1.0 | Moist, brown, fine SAND, trace Silt | | |
| 26 | | | | | | | |
| 27 | | WH-4-7-5 | 83 | 0.8 | Moist, brown, fine SAND | | |
| 28 | | | | | | | |
| 29 | SB-70 (29-31) | 4-9-11-14 | 83 | 0.8 | Moist, brown, fine SAND | | |
| 30 | | | | | | | |
| 31 | | | | | **End of Boring at 31 ft bgs** | | |

**SAMPLING METHOD**
WH = WEIGHT OF HAMMER
HC = HAND CLEARED
VC = VACUUM CLEARED
WOR = WEIGHT OF RODS

**COMMENTS:**
0-5 ft bgs was hand cleared
5-31 ft bgs advanced utilizing hollow stem augers and split spoons

**PARSONS**
**DRILLING RECORD**

**BORING/WELL ID: CSB-71**

Sheet 1 of 1

**Contractor:** Advanced Drilling Technology (ADT)
**Driller:** Shawn Miller, Dylan Jewell
**Inspector:** Zohar Lavy
**Rig Type:** Truck CME-85

**PROJECT NAME:** Con Edison /Farrington Street Works
**PROJECT NUMBER:** 446109-06000

**Location Description:** Pathmark Parking Lot

**Weather:** Partly cloudy, up to high 20s

**Date/Time Start:** 3/6/14 1038

**Date/Time Finish:** 3/6/14 1138

See Site Plan

| GROUNDWATER OBSERVATIONS | | | | |
|---|---|---|---|---|
| Water Level | DTW ~ 6.5 ft bgs | DTW | | |
| Date | 3/6/14 | | | |
| Time | 1038 | | | |
| Meas. From | Split Spoon | | | |

| Sample Depth | Sample I.D. | SPT | Rec. (%) | PID (ppm) | FIELD IDENTIFICATION OF MATERIAL | COMMENTS |
|---|---|---|---|---|---|---|
| +1 | | | | | | |
| | | | | | | |
| 0 | | Vactron | | NA | 0-6" ASPHALT | |
| 1 | | Vactron | | 0.0 | 6"-5' Dry, brown, fine to medium SAND, some Concrete, little Cobble, trace brick | |
| 2 | | Vactron | | | | |
| 3 | | Vactron | | | | |
| 4 | | Vactron | | | | |
| 5 | | 9-5-5-4 | 83 | 1.1 | 0-16" Moist, dark brown, fine SAND, some fine to medium angular to sub-angular Gravel, little Silt; 16-20" Wet, black, fine SAND, some fine to medium angular to sub-angular Gravel, little Silt | |
| 6 | | | | | | |
| 7 | CSB-71 (7-9) | 4-3-3-2 | 67 | 2.6 | Wet, dark grey, fine to medium SAND, little sub-angular fine Gravel, little Silt | |
| 8 | | | | | | |
| 9 | | 2-2-1-1 | 50 | 1.0 | 0-11" Wet, dark grey, fine to medium SAND, little sub-angular fine Gravel, little Silt; 11-12" Black COAL | |
| 10 | | | | | | |
| 11 | | 3-2-2-1 | 50 | 0.9 | Wet, dark grey, fine to medium SAND and fine angular GRAVEL, some Ash | |
| 12 | | | | | | |
| 13 | | 3-1-1-2 | 75 | 0.8 | 0-12" Moist, grey, fine SAND, little Silt; 12-18" Grey CLAY, little Peat | |
| 14 | | | | | | |
| 15 | | 1-1-2-1 | 75 | 0.0 | Grey CLAY, little Peat | |
| 16 | | | | | | |
| 17 | CSB-68 (17-19) | WH/24" | 67 | 0.0 | Grey/olive CLAY, trace Peat | |
| 18 | | | | | | |
| 19 | | 1-1-2-2 | 92 | 0.0 | Grey CLAY, trace Peat | |
| 20 | | | | | | |
| 21 | | WH/24" | 92 | 0.0 | Grey CLAY, trace Peat | |
| 22 | | | | | | |
| 23 | | WH/24" | 83 | 0.1 | Grey CLAY, trace Peat, trace Shell | |
| 24 | | | | | | |
| 25 | | WH/24" | 92 | 0.0 | Grey CLAY, trace Shell | |
| 26 | | | | | | |
| 27 | | WH/24" | 83 | 0 | Grey CLAY | |
| 28 | | | | | | |
| 29 | | WH/24" | 0 | NA | No Recovery | |
| | | | | | | |
| 30 | CSB-71 (30-35) | WH/60" | 17 | 0.0 | Grey CLAY | Macrocore was utilized from 30 to 35 ft bgs in attempt to gain more recovery |
| 31 | | | | | | |
| 32 | | | | | | |
| 33 | | | | | | |
| 34 | | | | | | |
| 35 | | | | | **End of Boring at 35 ft bgs** | |

**SAMPLING METHOD**
WH = WEIGHT OF HAMMER
HC = HAND CLEARED
VC = VACUUM CLEARED
WOR = WEIGHT OF RODS

**COMMENTS:**
0-5 ft bgs was hand cleared
5-35 ft bgs advanced utilizing hollow stem augers and split spoons

**PARSONS**
**DRILLING RECORD**

**BORING/WELL ID: SB-72**

Sheet 1 of 1

**Contractor:** Advanced Drilling Technology (ADT)
**Driller:** German Torres, Cameron Morgan
**Inspector:** Zohar Lavy
**Rig Type:** Sonic

**PROJECT NAME:** Con Edison /Farrington Street Works
**PROJECT NUMBER:** 449045-01000

**Location Description:** Along Whitestone Epressway (East Bound)

| GROUNDWATER OBSERVATIONS | | | | |
|---|---|---|---|---|
| Water Level | DTW ~ 10 ft bgs | DTW | | |
| Date | 12/15/15 | | | |
| Time | 1315 | | | |
| Meas. From | Hand Clearance | | | |

**Weather:** Clear, up to mid 40s
**Date/Time Start:** 12/15/15 1150
**Date/Time Finish:** 12/15/15 1445

See Site Plan

| Sample Depth | Sample I.D. | SPT | Rec. (%) | PID (ppm) | FIELD IDENTIFICATION OF MATERIAL | | COMMENTS |
|---|---|---|---|---|---|---|---|
| +1 | | | | | | | |
| | | | | | | | |
| 0 | | Vactron | | NA | 0-6" CONCRETE | | |
| 1 | | Vactron | | 0.0 | 6"-3.5' SLAG and black fine to medium SAND | | |
| 2 | | Vactron | | 0.0 | 3.5-6.5' Moist, brown fine to medium SAND, some Slag | | |
| 3 | | Vactron | | 0.0 | | | Hand clearing was conducted to 6.5 ft bgs. Sonic sampling began at 5 ft bgs. |
| 4 | | Vactron | | 0.0 | | | |
| 5 | | | 80 | 0.7 | 0-24" Dry, black, medium to coarse SAND and fine to coarse angular to sub-angular GRAVEL, little Slag | | |
| 6 | | | | | | | |
| 7 | SB-72 (7-9) | Sonic | | 0.7 | 24-36" Moist, brown, fine to medium SAND, little round to sub-angular Gravel | | |
| 8 | | | | 0.7 | 36-48" Moist, brown, fine to medium SAND, little round to sub-angular Gravel, some Ash, little Slag, trace Glass | | |
| 9 | | | | | | | |
| 10 | | | 60 | 0.8 | Moist, brown, fine to medium SAND, little round to sub-angular Gravel, some Ash, trace Glass | | |
| 11 | | | | | | | |
| 12 | | Sonic | | | | | |
| 13 | | | | | | | |
| 14 | | | | | | | |
| 15 | SB-72 (15-17) | | 100 | 1.1 | 0-24" Wet, grey, fine to medium SAND, some Silt, trace fine sub-round Gravel, slight sheen | | |
| 16 | | | | | | | |
| 17 | | Sonic | | 1.5 | 24-30" Wet, grey, fine to medium SAND and PEAT, some Silt, trace fine sub-round Gravel, slight sheen | | |
| 18 | | | | | | | |
| 19 | | | | 4.6 | 30-48" Moist, brown PEAT | | |
| | | | | 4.6 | 48-60" Moist PEAT and grey CLAY | | |
| 20 | | | 100 | 6.2 | Moist, grey CLAY, little Shell | | |
| 21 | | | | | | | |
| 22 | | Sonic | | | | | |
| 23 | | | | | | | |
| 24 | | | | | | | |
| 25 | | | 100 | 6.8 | Moist, grey CLAY | | |
| 26 | | | | | | | |
| 27 | | Sonic | | | | | |
| 28 | | | | | | | |
| 29 | | | | | | | |
| **End of Boring at 30 ft bgs** | | | | | | | |

**SAMPLING METHOD**
WH = WEIGHT OF HAMMER
HC = HAND CLEARED
VC = VACUUM CLEARED
WOR = WEIGHT OF RODS

**COMMENTS:**
0-6.5 ft bgs was hand cleared
6.5-30 ft bgs advanced utilizing Sonic methods

**PARSONS**
**DRILLING RECORD**

**BORING/WELL ID: SB-73**

Sheet 1 of 1

**Contractor:** Advanced Drilling Technology (ADT)
**Driller:** Brian Kirchik, Mike Brody
**Inspector:** Zohar Lavy
**Rig Type:** Track CME-55

**PROJECT NAME:** Con Edison /Farrington Street Works
**PROJECT NUMBER:** 449045-01000

**Location Description:** Downing Realty Parking Lot

**Weather:** Clear, down to mid 20s
**Date/Time Start:** 1/13/15 0915
**Date/Time Finish:** 1/13/15 1200

See Site Plan

| GROUNDWATER OBSERVATIONS | | | | |
|---|---|---|---|---|
| Water Level | DTW ~ 6.5 ft bgs | DTW | | |
| Date | 1/12/15 | | | |
| Time | 1330 | | | |
| Meas. From | Hand Clearance | | | |

| Sample Depth | Sample I.D. | SPT | Rec. (%) | PID (ppm) | FIELD IDENTIFICATION OF MATERIAL | COMMENTS |
|---|---|---|---|---|---|---|
| +1 | | | | | | |
| | | | | | | |
| 0 | | Vactron | | NA | 0-4" ASPHALT | |
| 1 | | Vactron | | 0.0 | 4"-4' Dry, brown, fine to medium SAND and CONCRETE debris, some Cobble | |
| 2 | | Vactron | | 0.0 | 4'-6.5' Moist, brown, fine to medium SAND, some Cobble | |
| 3 | | Vactron | | 0.0 | 6.5-10' NA | Water table encountered at 6.5 ft bgs. Utilized air knife to clear from 6.5-10 ft bgs. |
| 4 | | Vactron | | 0.0 | | |
| 5 | | Vactron | | 0.0 | | |
| 6 | | Vactron | | 0.0 | | |
| 7 | | Vactron | | 0.0 | | |
| 8 | | Vactron | | 0.0 | | |
| 9 | | Vactron | | 0.0 | | |
| 10 | | 2-2-2-2 | 17 | 0.5 | Wet, grey, fine to medium SAND and medium sub-angular GRAVEL | |
| 11 | | | | | | |
| 12 | | 2-1-2-2 | 33 | 1.1 | Wet, grey, fine to medium SAND and medium sub-angular GRAVEL, trace Silt | |
| 13 | | | | | | |
| 14 | SB-73 (14-16) | 12-14-16-15 | 50 | 1.1 | 0-10" Moist, drak grey/brown, fine to coarse SAND, little sub-round fine to medium Gravel, trace Silt; 10-12" PEAT, some Gray Silt | |
| 15 | | | | | | |
| 16 | | 2-1-1-2 | 75 | 1.2 | 0-14" PEAT, some grey Clay, sulphur odor; 14-18" PEAT and grey CLAY | |
| 17 | | | | | | |
| 18 | | 1-1-WH/12" | 100 | 0.9 | 0-6" PEAT and grey CLAY; 6-24" Grey CLAY, trace Shell | |
| 19 | | | | | | |
| 20 | | 1-WH-1-WH | 100 | 0.8 | 0-12" Grey CLAY, trace Shell; 12-24" Grey CLAY, trace Shell, trace Peat | |
| 21 | | | | | | |
| 22 | | WH/12"-1-WH | 100 | 1.3 | Grey CLAY, trace Shell | |
| 23 | | | | | | |
| 24 | | WH/24" | 100 | 1.3 | Grey CLAY | |
| 25 | | | | | | |
| 26 | | WH/24" | 100 | 1.2 | 0-20" Grey CLAY, trace Shell; 20-24" Wet, grey, fine to medium SAND, little Silt | |
| 27 | | | | | | |
| 28 | SB-73 (28-30) | 8-10-12-16 | 67 | 1.1 | 0-14" Wet, grey, fine to medium SAND, little Silt, trace sub-angular fine to medium Gravel; | |
| 29 | | | | | 14-16" Moist, brown, fine SAND, little Silt, little sub-round to sub-angular fine to medium Gravel | |
| | | | | | **End of Boring at 30 ft bgs** | |

**SAMPLING METHOD**
WH = WEIGHT OF HAMMER
HC = HAND CLEARED
VC = VACUUM CLEARED
WOR = WEIGHT OF RODS

**COMMENTS:**
0-10 ft bgs was hand cleared
10-30 ft bgs advanced utilizing hollow stem augers and split spoons

**PARSONS**
**DRILLING RECORD**

**BORING/WELL ID: SB-74**
Sheet 1 of 1

**Contractor:** Advanced Drilling Technology (ADT)
**Driller:** Dave Moon, Dylan Jewell
**Inspector:** Zohar Lavy
**Rig Type:** Truck CME-85

**PROJECT NAME:** Con Edison /Farrington Street Works
**PROJECT NUMBER:** 449045-01000

**Location Description:** Downing Realty Parking Lot

| GROUNDWATER OBSERVATIONS | | | | |
|---|---|---|---|---|
| Water Level | DTW ~ 8 ft bgs | DTW | | |
| Date | 11/10/14 | | | |
| Time | 1255 | | | |
| Meas. From | Split Spoon | | | |

**Weather:** Clear, up to low 60s
**Date/Time Start:** 11/10/14 1250
**Date/Time Finish:** 11/10/14 1400

See Site Plan

| Sample Depth | Sample I.D. | SPT | Rec. (%) | PID (ppm) | FIELD IDENTIFICATION OF MATERIAL | COMMENTS |
|---|---|---|---|---|---|---|
| +1 | | | | | | |
| | | | | | | |
| 0 | | Vactron | | NA | 0-6" ASPHALT | |
| 1 | | Vactron | | 0.0 | 6"-4' Dry, black/dark brown fine to medium SAND and CONCRETE debris, little Slag, little Brick | |
| 2 | | Vactron | | 0.0 | | |
| 3 | | Vactron | | 0.0 | 4'-5' Moist, brown/grey fine to medium SAND, little Silt | |
| 4 | | Vactron | | 0.0 | | |
| 5 | | 8-6-13-19 | 83 | 2.5 | Dry, fine to medium, dark brown SAND, some Slag, little fine to coarse sub-angular to round Gravel, trace Silt, hydrocarbon odor | |
| 6 | | | | | | |
| 7 | SB-74 (7-9) | 12-8-5-4 | 75 | 72.5 | 0-12" Dry, fine to medium, dark brown SAND, some Slag, little fine to coarse sub-angular to round Gravel, trace Silt, hydrocarbon odor; 12-14" BRICK; 14-18" Wet, black, fine to medium SAND and fine to medium angular to sub-round GRAVEL, hydrocarbon odor, sheen, few NAPL blebs | |
| 8 | | | | | | |
| 9 | | 10-6-1-1 | 67 | 6.5 | 0-10" Wet, grey, fine to medium SAND; 10-16" Wet, dark grey, fine to medium angular to sub-angular GRAVEL | |
| 10 | | | | | | |
| 11 | | 3-2-1-1 | 83 | 7.2 | 0-12" Wet, dark grey, fine to medium angular to sub-angular GRAVEL, some fine to medium SAND; 12-20" Moist, grey, fine SAND, some Silt, little fine to medium sub-round Gravel | |
| 12 | | | | | | |
| 13 | SB-74 (13-15) | 4-3-3-1 | 75 | 1.6 | 0-12" Moist, grey, fine SAND, some Silt, little fine to medium sub-round Gravel; 12-18" PEAT | |
| 14 | | | | | | |
| 15 | | 5-4-3-2 | 58 | 1.5 | PEAT | |
| 16 | | | | | | |
| 17 | | 2-2-2-3 | 75 | 1.5 | 0-6" PEAT; 6-14" PEAT, some Clay; 14-18" CLAY | |
| 18 | | | | | | |
| | | | | | **End of Boring at 19 ft bgs** | |

**SAMPLING METHOD**
WH = WEIGHT OF HAMMER
HC = HAND CLEARED
VC = VACUUM CLEARED
WOR = WEIGHT OF RODS

**COMMENTS:**
0-5 ft bgs was hand cleared
5-19 ft bgs advanced utilizing hollow stem augers and split spoons

**PARSONS**
**DRILLING RECORD**

**BORING/WELL ID: SB-75**
Sheet 1 of 1

**Contractor:** Advanced Drilling Technology (ADT)
**Driller:** Dave Moon, Dylan Jewell
**Inspector:** Zohar Lavy
**Rig Type:** Truck CME-85

**PROJECT NAME:** Con Edison /Farrington Street Works
**PROJECT NUMBER:** 449045-01000

**Location Description:** Downing Realty Parking Lot

| GROUNDWATER OBSERVATIONS | | | | |
|---|---|---|---|---|
| Water Level | DTW ~ 8 ft bgs | DTW | | |
| Date | 11/10/14 | | | |
| Time | 910 | | | |
| Meas. From | Split Spoon | | | |

**Weather:** Clear, up to low 60s
**Date/Time Start:** 11/10/14 0900
**Date/Time Finish:** 11/10/14 1005

See Site Plan

| Sample Depth | Sample I.D. | SPT | Rec. (%) | PID (ppm) | FIELD IDENTIFICATION OF MATERIAL | COMMENTS |
|---|---|---|---|---|---|---|
| +1 | | | | | | |
| | | | | | | |
| 0 | | Vactron | | NA | 0-4" ASPHALT | |
| 1 | | Vactron | | 0.0 | 4"-5' Dry, brown, fine to medium SAND, little Slag, little Brick, little fine to coarse angular to sub-round Gravel, trace Concrete, trace Metal | |
| 2 | | Vactron | | 0.0 | | |
| 3 | | Vactron | | 0.0 | | |
| 4 | | Vactron | | 0.0 | | |
| 5 | SB-75 (5-7) | 15-4-6-12 | 75 | 82.5 | Dry, dark brown/black, fine to medium SAND, some Brick, little Concrete, gasoline like odor, slight sheen | |
| 6 | | | | | | |
| 7 | | 8-8-8-6 | 50 | 22.3 | 0-8" Moist, brown, fine to medium SAND, trace Cobble, gasoline/chlorinated like odor; 8-12" Wet, brown, fine to medium SAND, trace Cobble, gasoline/chlorinated like odor | |
| 8 | | | | | | |
| 9 | | 3-1-1-1 | 17 | 6.2 | Wet, black, fine to medium SAND, trace Cobble, gasoline/chlorinated like odor | |
| 10 | | | | | | |
| 11 | | 8-8-2-1 | 100 | 13.5 | 0-22" Wet, grey, fine to medium SAND, little Silt, little sub-angular to sub-round fine to medium Gravel, slight gasoline/chlorinated like odor; 22-24" Black PEAT | |
| 12 | | | | | | |
| 13 | | 5-5-2-3 | 50 | 13.7 | Moist grey CLAY, little fine Sand, trace Peat | |
| 14 | | | | | | |
| 15 | SB-75 (15-20) | WH/5' | 50 | 2.5 | 0-10" Moist, dark brown CLAY, trace sub-angular to sub-round fine Gravel, trace fine Sand; 10-30" Moist, grey CLAY, some Silt, trace fine Sand | A 5' Macrocore was run from 15-20 ft due to no recovery in split spoon from 15-17 ft bgs. |
| 16 | | | | | | |
| 17 | | | | | | |
| 18 | | | | | | |
| 19 | | | | | | |
| | | | | | **End of Boring at 20 ft bgs** | |

**SAMPLING METHOD**
WH = WEIGHT OF HAMMER
HC = HAND CLEARED
VC = VACUUM CLEARED
WOR = WEIGHT OF RODS

**COMMENTS:**
0-5 ft bgs was hand cleared
5-20 ft bgs advanced utilizing hollow stem augers, split spoons, and macrocore

**PARSONS**
**DRILLING RECORD**

**BORING/WELL ID: SB-76**

Sheet 1 of 1

**Contractor:** Aquifer Drilling & Testing
**Driller:** Joey McGill
**Inspector:** Zohar Lavy
**Rig Type:** Truck Mounted Sonic

**PROJECT NAME:** Consolidated Edison - Farrington Street Works
**PROJECT NUMBER:** 449045-01000

**Location Description:** Northeast corner of Asahi property

**Weather:** Clear, up to low 90s
**Date/Time Start:** 6-23-15/ 1050
**Date/Time Finish:** 6-23-15/1130

**Location Plan**

See Site Plan

| GROUNDWATER OBSERVATIONS | | | | |
|---|---|---|---|---|
| Water Level | DTW ~5' bgs | DTW | | |
| Date | 6-23-15 | | | |
| Time | 1050 | | | |
| Meas. From | ft bgs - Sonic Macrocore | Top of Casing | | |

| Sample Depth | Location/ Sample I.D. | SPT | Rec. (%) | PID (ppm) | FIELD IDENTIFICATION OF MATERIAL | SCHEMATIC | COMMENTS |
|---|---|---|---|---|---|---|---|
| +2 | | | | | | | |
| +1 | | | | | | | |
| 0 | | Vactron | 100 | 0.0 | 0-4" ASPHALT<br>4"-3' Dry, dark brown fine to medium SAND, some Boulder, little fine to coarse sub-angular Gravel | | |
| 1 | | | | | | | |
| 2 | | | | | | | |
| 3 | | | | | 3-6.3' Dry, dark brown fine to medium SAND, little fine to coarse sub-angular Gravel, little Cobble | | |
| 4 | | | | | | | |
| 5 | | Sonic | 70 | 0.0 | Wet, dark grey/brown, fine to medium SAND, some fine to coarse angular to sub-round Gravel, trace Silt | | |
| 6 | | | | | | | |
| 7 | | | | | | | |
| 8 | SB-76 (8-10) | | | | | | |
| 9 | | | | | | | |
| 10 | | Sonic | 100 | 0.0 | 0-16" Wet, dark grey/brown, fine to medium SAND, some fine to coarse angular to sub-round Gravel, trace Silt | | |
| 11 | SB-76 (11-13) | | | | | | |
| 12 | | | | 0.5 | 16-36" Moist, dark brown/black, fine to medium SAND, some fine to coarse sub-angular to round Gravel, little Silt | | |
| 13 | | | | | | | |
| 14 | | | | 0.3 | 36-60" PEAT and CLAY | | |
| 15 | | Sonic | 100 | 0.0 | 0-40" Moist, light brown, fine SAND and CLAY, some fine to coarse sub-round to round Gravel<br>40-60" Moist light brown fine SAND | | |
| 16 | | | | | | | |
| 17 | | | | | | | |
| 18 | | | | | | | |
| 19 | | | | | | | |
| 20 | | Sonic | 100 | 0.0 | 0-30" Moist, light brown fine SAND and CLAY, some fine to medium round Gravel<br>30-38" Moist, light brown, fine SAND<br>38-60" Moist, light brown fine SAND and CLAY, some fine to medium round Gravel | | |
| 21 | | | | | | | |
| 22 | | | | | | | |
| 23 | | | | | | | |
| 24 | | | | | | | |
| 25 | | Sonic | 100 | 0.0 | 0-24" Moist, light brown fine SAND and CLAY, some fine to medium round Gravel<br>24-36" Moist, orange/brown fine to medium SAND, trace fine to coarse sub-round Gravel<br>36-48" Moist, light brown fine SAND and CLAY, some fine round Gravel<br>48-60" Moist, orange/brown, fine to medium SAND, some Clay, little fine to medium sub-round to round Gravel | | |
| 26 | | | | | | | |
| 27 | | | | | | | |
| 28 | | | | | | | |
| 29 | | | | | | | |
| 30 | End of Boring at 30 ft bgs | | | | | | |

**SAMPLING METHOD**
SS = SPLIT SPOON
A = AUGER CUTTINGS
C = CORED
WH = WEIGHT OF HAMMER (RODS)

0-5 ft bgs was hand cleared
5-30 ft bgs was advanced utilizing Sonic methods

**PARSONS**
**DRILLING RECORD**

**BORING/WELL ID: SB-77**

Sheet 1 of 1

**Contractor:** Aquifer Drilling & Testing
**Driller:** German Torres
**Inspector:** Zohar Lavy
**Rig Type:** Track Mounted Sonic

**PROJECT NAME:** Consolidated Edison - Farrington Street Works
**PROJECT NUMBER:** 449045-01000

**Location Description:**
Southwest intersection of Ulmer St. and Whitestone Expressway, behind Wendy's

**Location Plan**
See Site Plan

**Weather:** Clear, up to high 30s
**Date/Time Start:** 12-16-14/ 0800
**Date/Time Finish:** 12-16-14/ 0900

| GROUNDWATER OBSERVATIONS | | | | |
|---|---|---|---|---|
| Water Level | DTW ~5' bgs | DTW | | |
| Date | 12-16-14 | | | |
| Time | 810 | | | |
| Meas. From | ft bgs - Sonic Macrocore | Top of Casing | | |

| Sample Depth | Location/ Sample I.D. | SPT | Rec. (%) | PID (ppm) | FIELD IDENTIFICATION OF MATERIAL | SCHEMATIC | COMMENTS |
|---|---|---|---|---|---|---|---|
| +2 | | | | | | | |
| +1 | | | | | | | |
| 0 | | Vactron | 100 | 0.0 | 0-6" CONCRETE<br>6"-4' Dry, dark brown, fine to coarse SAND, some Cobble, little Brick, trace Wood<br>4'-5' Moist, dark brown, fine to coarse SAND, some Cobble, little Brick | | |
| 1 | | | | | | | |
| 2 | | | | | | | |
| 3 | | | | | | | |
| 4 | | | | | | | |
| 5 | | Sonic | 30 | 1.1 | Wet, brown/dark brown, fine to coarse SAND, some Silt and Cobble | | |
| 6 | | | | | | | |
| 7 | SB-77 (7-9) | | | | | | |
| 8 | | | | | | | |
| 9 | | | | | | | |
| 10 | | Sonic | 100 | 0.9 | Wet, medium brown SILT and fine SAND, some coarse Sand, trace fine Gravel | | |
| 11 | | | | | | | |
| 12 | | | | | | | |
| 13 | | | | | | | |
| 14 | | | | | | | |
| 15 | | Sonic | 60 | 72.3 | 0-10" Wet, brown/black SILT, some Clay and fine to coarse SAND, little fine Gravel, slight organic<br>10-36" Wet, dark grey/dark brown CLAY and Silt, some Peat and organics material, strong organic odor | | 72.3 ppm reading was recorded in the bottom 12" of the 15-20' interval |
| 16 | | | | | | | |
| 17 | | | | | | | |
| 18 | | | | | | | |
| 19 | | | | | | | |
| 20 | | Sonic | 83 | 19.3 | Wet, grey CLAY, some Peat and Shell, strong organic odor | | |
| 21 | | | | | | | |
| 22 | | | | | | | |
| 23 | | | | | | | |
| 24 | | | | | | | |
| 25 | | Sonic | 100 | 42.8 | Wet, grey CLAY, little Silt, trace Shell, strong organic odor, high plasticity | | |
| 26 | | | | | | | |
| 27 | | | | | | | |
| 28 | SB-77 (28-30) | | | | | | |
| 29 | | | | | | | |
| 30 | End of Boring at 30 ft bgs | | | | | | |

**SAMPLING METHOD**
SS = SPLIT SPOON
A = AUGER CUTTINGS
C = CORED
WH = WEIGHT OF HAMMER (RODS)

0-5 ft bgs was hand cleared
5-30 ft bgs was advanced utilizing Sonic methods

**PARSONS**
**DRILLING RECORD**

**BORING/WELL ID: SB-79**

Sheet 1 of 1

**Contractor:** Aquifer Drilling & Testing
**Driller:** Chris Migliori
**Inspector:** Zohar Lavy
**Rig Type:** Track Mounted Sonic

**PROJECT NAME:** Consolidated Edison - Farrington Street Works
**PROJECT NUMBER:** 449045-01000

**Location Description:** Northeast corner of the 31st Rd. and Downing St. Intersection

| GROUNDWATER OBSERVATIONS | | | | |
|---|---|---|---|---|
| Water Level | DTW ~6' bgs | DTW | | |
| Date | 12-12-14 | | | |
| Time | 1130 | | | |
| Meas. From | ft bgs - Hand Clearance | Top of Casing | | |

**Weather:** Clear, up mid 40s
**Date/Time Start:** 12-15-14/ 0900
**Date/Time Finish:** 12-15-14/1030

**Location Plan**

See Site Plan

| Sample Depth | Location/ Sample I.D. | SPT | Rec. (%) | PID (ppm) | FIELD IDENTIFICATION OF MATERIAL | SCHEMATIC | COMMENTS |
|---|---|---|---|---|---|---|---|
| +2 | | | | | | | |
| +1 | | | | | | | |
| 0 | | Vactron | NA | 0.0 | 0-6" CONCRETE<br>6"-6' Dry, light brown, fine to medium SAND, little Cobble<br>6'-7' Wet, light brown, fine to medium SAND, little Cobble | | |
| 1 | | | | | | | |
| 2 | | | | | | | |
| 3 | | | | | | | |
| 4 | | | | | | | |
| 5 | | | | | | | |
| 6 | | | | | | | |
| 7 | SB-79 (7-10) | Sonic | 67 | 0.3 | Wet, dark brown/black medium to coarse SAND and fine to medium angular to sub-round GRAVEL, little Slag | | |
| 8 | | | | | | | |
| 9 | | | | | | | |
| 10 | | Sonic | 100 | 1.5 | 0-36" Wet, dark brown/black medium to coarse SAND and fine to medium angular to sub-round GRAVEL, some round fine Cobble, little Slag<br>36-60" Moist, black, fine to medium SAND, little Silt, little Glass, trace Metal, trace Pocelain, trace fine to medium sub-angular Gravel, trace Wood | | |
| 11 | | | | | | | |
| 12 | | | | | | | |
| 13 | | | | | | | |
| 14 | | | | | | | |
| 15 | SB-79 (15-18) | Sonic | 100 | 1.7 | 0-36" Wet, black, fine to medium SAND and fine to coarse round to angular GRAVEL, little Silt, little Glass, trace Metal, trace Pocelain, trace fine to medium sub-angular Gravel, trace Wood, slight sheen | | |
| 16 | | | | | | | |
| 17 | | | | 1.2 | 36-48" Moist, dark brown PEAT, sulphur odor | | |
| 18 | | | | 6.2 | 48-60" Moist, grey CLAY, trace Shell, strong sulphur odor | | |
| 19 | | | | | | | |
| 20 | | Sonic | 0 | | No Recovery | | |
| 21 | | | | | | | |
| 22 | | | | | | | |
| 23 | | | | | | | |
| 24 | | | | | | | |
| 25 | | Sonic | 0 | | No Recovery | | |
| 26 | | | | | | | |
| 27 | | | | | | | |
| 28 | | | | | | | |
| 29 | | | | | | | |
| 30 | End of Boring at 30 ft bgs | | | | | | |

**SAMPLING METHOD**
SS = SPLIT SPOON
A = AUGER CUTTINGS
C = CORED
WH = WEIGHT OF HAMMER (RODS)

0-5 ft bgs was hand cleared
5-30 ft bgs was advanced utilizing Sonic methods

**PARSONS**
**DRILLING RECORD**

**BORING/WELL ID: SB-84**

Sheet 1 of 1

**Contractor:** Advanced Drilling Technology (ADT)
**Driller:** German Torres, Mike Brody
**Inspector:** Zohar Lavy
**Rig Type:** Track CME-55

**PROJECT NAME:** Con Edison /Farrington Street Works
**PROJECT NUMBER:** 449045-01000

**Location Description:** North side of Whitestone Expw between Downing St. and 31st Ave.

| GROUNDWATER OBSERVATIONS | | | | |
|---|---|---|---|---|
| Water Level | DTW ~ 6.5 ft bgs | DTW | | |
| Date | 12/12/14 | | | |
| Time | 1520 | | | |
| Meas. From | Hand Clearance | | | |

**Weather:** Partly cloudy, up to mid 30s

**Date/Time Start:** 1/14/15 0920

**Date/Time Finish:** 1/14/15 1220

See Site Plan

| Sample Depth | Sample I.D. | SPT | Rec. (%) | PID (ppm) | FIELD IDENTIFICATION OF MATERIAL | COMMENTS |
|---|---|---|---|---|---|---|
| +1 | | | | | | |
| | | | | | | |
| 0 | | Vactron | NA | NA | 0-6" CONCRETE | |
| 1 | | Vactron | NA | 0.0 | 6"-1' Dry, medium to coarse sub-angular GRAVEL | |
| 2 | | Vactron | NA | 0.0 | 1'-4' Moist, dark brown, fine to coarse SAND, little fine to medium sub-angular Gravel | |
| 3 | | Vactron | NA | 0.0 | 4'-6.5' Moist, dark brown, fine to coarse SAND and BRICK, little fine to medium sub-angular | Water table encountered at 6.5 ft bgs. Utilized air knife to clear from 6.5-7 ft bgs. |
| 4 | | Vactron | NA | 0.0 | Gravel | |
| 5 | | Vactron | NA | 0.0 | 6.5'-7' Wet, COBBLE | |
| 6 | | Vactron | NA | 0.0 | | |
| 7 | | 5-3-3-2 | 33 | 0.5 | Wet, dark brown/black, fine to medium SAND, some coarse sub-angular Gravel, trace Silt | |
| 8 | | | | | | |
| 9 | | 2-1-2-2 | 67 | 0.4 | 0-10" Wet, dark brown/black, fine to medium SAND, some coarse sub-angular Gravel, trace Silt; 10-16" Wet, dark brown/black, fine to medium SAND and fine to medium angular to sub- | |
| 10 | | | | | angular GRAVEL, some Slag, little Porcelain, trace Wood | |
| 11 | | 4-5-4-4 | 33 | 0.8 | Wet, dark brown/black, fine to medium SAND and fine to medium angular to sub-angular | |
| 12 | | | | | GRAVEL, some Slag, little Porcelain, trace Wood | |
| 13 | | 2-3-2-1 | 50 | 0.8 | Wet, black, fine to medium SAND and fine angular to sub-angular GRAVEL, trace Slag | |
| 14 | | | | | | |
| 15 | | 3-1-3-2 | 0 | NA | No recovery | |
| 16 | | | | | | |
| 17 | SB-84 (17-19) | 3-4-4-4 | 92 | 1.5 | 0-14" Wet, dark grey, fine to medium SAND, some fine angular to sub-angular Gravel, trace | |
| 18 | | | | | Silt; 14-22" PEAT, some grey Clay | |
| 19 | | 2-2-1-1 | 83 | 1.1 | Moist, grey CLAY, little Peat, trace Shell | |
| 20 | | | | | | |
| 21 | | 1-2-1-1 | 83 | 0.5 | Moist, grey CLAY, little Peat, trace Shell | |
| 22 | | | | | | |
| 23 | | 3-2-1-1 | 42 | 0.9 | Moist, grey CLAY, little Peat, little fine Sand, trace fine sub-round Gravel, trace Shell | |
| 24 | | | | | | |
| 25 | | 2-2-1-2 | 50 | 1.1 | Moist, grey CLAY, trace Shell | |
| 26 | | | | | | |
| 27 | | WH/12"-1-1 | 0 | NA | No Recovery | |
| 28 | | | | | | |
| 29 | SB-84 (29-31) | WOR/12"-1-1 | 75 | 1.2 | Moist, grey CLAY | |
| 30 | | | | | | |
| 31 | | | | | **End of Boring at 31 ft bgs** | |

**SAMPLING METHOD**
WH = WEIGHT OF HAMMER
HC = HAND CLEARED
VC = VACUUM CLEARED
WOR = WEIGHT OF RODS

**COMMENTS:**
0-7 ft bgs was hand cleared
7-31 ft bgs advanced utilizing hollow stem augers and split spoons

**PARSONS**
**DRILLING RECORD**

**BORING/WELL ID: SB-85**

Sheet 1 of 1

**Contractor:** Advanced Drilling Technology (ADT)
**Driller:** German Torres, Mike Brody
**Inspector:** Zohar Lavy
**Rig Type:** Track CME-55

**PROJECT NAME:** Con Edison /Farrington Street Works
**PROJECT NUMBER:** 449045-01000

**Location Description:** Southeast corner Ulmer St. and Whitestone Expw intersection

| GROUNDWATER OBSERVATIONS | | | | |
|---|---|---|---|---|
| Water Level | DTW ~ 5 ft bgs | DTW | | |
| Date | 12/17/14 | | | |
| Time | 1100 | | | |
| Meas. From | Hand Clearance | | | |

**Weather:** Partly cloudy, up to mid 30s

**Date/Time Start:** 1/15/15 0850

**Date/Time Finish:** 1/15/15 1130

See Site Plan

| Sample Depth | Sample I.D. | SPT | Rec. (%) | PID (ppm) | FIELD IDENTIFICATION OF MATERIAL | | COMMENTS |
|---|---|---|---|---|---|---|---|
| +1 | | | | | | | |
| | | | | | | | |
| 0 | | Vactron | NA | NA | 0-6" CONCRETE | | |
| 1 | | Vactron | NA | 0.0 | 6"-5' Dry, light brown, fine to medium SAND, some fine to medium Gravel | | |
| 2 | | Vactron | NA | 0.0 | 5'-7' Wet, light to medium brown, fine to medium SAND, some fine to medium Cobble | | |
| 3 | | Vactron | NA | 0.0 | | | |
| 4 | | Vactron | NA | 0.0 | | | |
| 5 | | Vactron | NA | 0.0 | | | |
| 6 | | Vactron | NA | 0.0 | | | |
| 7 | SB-85 (7-9) | 3-2-2-2 | 75 | 0.3 | 0-12" Wet, dark brown/black, fine to medium SAND and fine angular to sub-angular | | |
| 8 | | | | | GRAVEL, some Ash, trace Glass; 12-18" Moist, dark brown, fine SAND and SILT, trace | | |
| 9 | | WH-1/18" | 50 | 0.4 | Moist, PEAT, some grey CLAY | | |
| 10 | | | | | | | |
| 11 | | 2-1-1-1 | 75 | 0.3 | Moist, PEAT, some grey Clay, strong sulphur odor | | |
| 12 | | | | | | | |
| 13 | | WH-1/18" | 33 | 0.2 | Moist, grey CLAY, trace Shell | | |
| 14 | | | | | | | |
| 15 | | 2-2-1-WH | 83 | 0.3 | Moist, grey CLAY, trace Peat, trace Shell | | |
| 16 | | | | | | | |
| 17 | | WH-24" | 75 | 0.3 | Moist, grey CLAY, trace Peat, trace Shell | | |
| 18 | | | | | | | |
| 19 | | 1/24" | 0 | NA | No Recovery | | |
| 20 | | | | | | | |
| 21 | | WH-1-1/12" | 92 | 0.2 | 0-16" Moist, grey CLAY, trace Peat; 16-22" Moist, grey CLAY | | |
| 22 | | | | | | | |
| 23 | | WH/24" | 33 | 0.1 | Moist, grey CLAY | | |
| 24 | | | | | | | |
| 25 | | 1-1-1-1 | 83 | 0.5 | Moist, grey CLAY | | |
| 26 | | | | | | | |
| 27 | | 1-1-1-1 | 75 | 0.1 | Moist, grey CLAY, trace Shell | | |
| 28 | | | | | | | |
| 29 | SB-85 (29-31) | 1-1-2-1 | 83 | 0.3 | Moist, grey CLAY | | |
| 30 | | | | | | | |
| 31 | | | | | **End of Boring at 31 ft bgs** | | |

**SAMPLING METHOD**
WH = WEIGHT OF HAMMER
HC = HAND CLEARED
VC = VACUUM CLEARED
WOR = WEIGHT OF RODS

**COMMENTS:**
0-7 ft bgs was hand cleared
7-31 ft bgs advanced utilizing hollow stem augers and split spoons

# APPENDIX B

# GROUNDWATER SAMPLING LOGS

# PARSONS

## GROUNDWATER SAMPLING RECORD

**SITE NAME:** Con Edison (Farrington Street)
**PROJECT NUMBER:** 446109-03000
**Purge Date:** 11/16/11
**Sampling Date:** 11/16/11
**Samplers:** Lopa Naik and Zohar Lavy of Parsons / Somerset, NJ

**SAMPLE ID:** CMW-36
**Sampling Method:** Low flow purge (Whale Pump)

**WELL PURGING**

Static Water Level (TOC): 12.20
Depth to Well Bottom (TOC): 22.97

| | | | | | |
|---|---|---|---|---|---|
| **CALCULATIONS:** | Ft. of Water in Well | | X (GAL / FT) = | | Gallons |
| **2-inch Casing:** | Ft. of Water in Well | 10.77 | x 0.16 = | 1.72 | Gallons |
| 3-inch Casing: | Ft. of Water in Well | | x 0.32 = | | Gallons |
| 4-inch Casing: | Ft. of Water in Well | | x 0.64 = | | Gallons |

Method: Low Flow Pump

**SAMPLE DESCRIPTION**

Odor : No odor
Other : Clear

**FIELD TESTS**

| | PURGE | PURGE | PURGE | PURGE | PURGE | PURGE | PURGE | PURGE |
|---|---|---|---|---|---|---|---|---|
| Time | 1110 | 1115 | 1120 | 1125 | 1130 | 1135 | 1140 | 1145 |
| Depth To Water (TOC) (ft) | 12.25 | 12.29 | 12.27 | 12.29 | 12.27 | 12.27 | 12.26 | 12.25 |
| Depth To Pump (TOC) (ft) | 21.97 | 21.97 | 21.97 | 21.97 | 21.97 | 21.97 | 21.97 | 21.97 |
| Flow Rate (ml/min) | ~300 | ~350 | ~250 | ~350 | ~300 | ~300 | ~300 | ~300 |
| Volume of Water Purged | ~0.5 | ~1 | ~1.5 | ~2.25 | ~3 | ~3.5 | ~4 | ~4.5 |
| pH (s.u.) | 6.34 | 6.38 | 6.33 | 6.33 | 6.33 | 6.34 | 6.34 | 6.33 |
| Conductivity (mS/cm) | 2.32 | 2.33 | 2.25 | 2.31 | 2.35 | 2.34 | 2.33 | 2.34 |
| Turbidity (NTUs) | 2965 | 892 | 591 | 512 | 172 | 104 | 72 | 50.9 |
| Dissolved Oxygen (mg/L) | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Temperature (Degrees C) | 17.5 | 17.5 | 17.7 | 17.7 | 17.8 | 17.8 | 17.7 | 17.8 |
| ORP (mV) | 114 | 120 | 129 | 138 | 145 | 147 | 149 | 151 |
| Salinity (%) | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 |
| TDS (g/L) | 1.5 | 1.5 | 1.4 | 1.5 | 1.5 | 1.5 | 1.5 | 1.4 |

**SAMPLE ANALYSIS / LABORATORY**

Analyze For: TCL VOC's / SVOC's, TAL Metals, Total Cyanide

Shipped Via: Chemtech
Laboratory

Other Notes: Purged 5 gallons of water; sampled at 1150

# PARSONS

## GROUNDWATER SAMPLING RECORD

**SITE NAME:** Con Edison (Farrington Street)
**PROJECT NUMBER:** 446109-03000
**Purge Date:** 11/16/11
**Sampling Date:** 11/16/11
**Samplers:** Lopa Naik and Zohar Lavy of Parsons / Somerset, NJ

**SAMPLE ID:** CMW-36
**Sampling Method:** Low flow purge (Whale Pump)

**WELL PURGING**

Static Water Level (TOC): 12.20
Depth to Well Bottom (TOC): 22.97

| | | | | |
|---|---|---|---|---|
| **CALCULATIONS:** | Ft. of Water in Well | | X (GAL / FT) = | Gallons |
| **2-inch Casing:** | Ft. of Water in Well 10.77 | x 0.16 = | 1.72 | Gallons |
| 3-inch Casing: | Ft. of Water in Well | x 0.32 = | | Gallons |
| 4-inch Casing: | Ft. of Water in Well | x 0.64 = | | Gallons |

Method: Low Flow Pump

**SAMPLE DESCRIPTION**

Odor : No odor
Other : Clear

**FIELD TESTS**

| | SAMPLE |
|---|---|
| Time | 1150 |
| Depth To Water (TOC) (ft) | 12.27 |
| Depth To Pump (TOC) (ft) | 21.97 |
| Flow Rate (ml/min) | ~300 |
| Volume of Water Purged | ~5 |
| pH (s.u.) | 6.34 |
| Conductivity (mS/cm) | 2.34 |
| Turbidity (NTUs) | 41.3 |
| Dissolved Oxygen (mg/L) | 0.00 |
| Temperature (Degrees C) | 17.8 |
| ORP (mV) | 153 |
| Salinity (%) | 0.1 |
| TDS (g/L) | 1.5 |

**SAMPLE ANALYSIS / LABORATORY**

Analyze For: TCL VOC's / SVOC's, TAL Metals, Total Cyanide

Shipped Via: Chemtech
Laboratory

Other Notes: Purged 5 gallons of water; sampled at 1150

# PARSONS

## GROUNDWATER SAMPLING RECORD

**SITE NAME:** Con Edison (Farrington Street)
**PROJECT NUMBER:** 446109-03000
**Purge Date:**
**Sampling Date:** 11/13/11
**Samplers:** Lopa Naik and Zohar Lavy of Parsons / Somerset, NJ

**SAMPLE ID:** CMW-39
**Sampling Method:** Low flow purge (Whale Pump)

**WELL PURGING**

Static Water Level (TOC): 9.40
Depth to Well Bottom (TOC): 20.35
**CALCULATIONS:** Ft. of Water in Well ____ X (GAL / FT) = ____ Gallons
**2-inch Casing:** Ft. of Water in Wel ____ x 0.16 = ____ Gallons
3-inch Casing: Ft. of Water in Well ____ x 0.32 = ____ Gallons
4-inch Casing: Ft. of Water in Well ____ x 0.64 = ____ Gallons
Method: Low Flow Pump

**SAMPLE DESCRIPTION**

Odor :
Other :

**FIELD TESTS**

| | PURGE | PURGE | PURGE | PURGE | PURGE | PURGE | SAMPLE | |
|---|---|---|---|---|---|---|---|---|
| Time | 15:40 | 15:45 | 15:50 | 15:55 | 16:00 | 16:05 | 16:10 | |
| Depth To Water (TOC) (ft) | 10.50 | 15.00 | 18.10 | dry | 17.50 | dry | 17.50 | |
| Depth To Pump (TOC) (ft) | 19 | 19 | 19 | 19 | 19 | 19 | 19 | |
| Flow Rate (ml/min) | | | | | | | | |
| Volume of Water Purged | | | | | | | | |
| pH (s.u.) | 8.83 | 9.10 | 9.23 | | 9.20 | | | |
| Conductivity (mS/cm) | 5.87 | 4.41 | 5.3 | | 5.3 | | | |
| Turbidity (NTUs) | 150 | 140 | 142 | | 130 | | | |
| Dissolved Oxygen (mg/L) | 0.09 | 0.89 | 0.26 | | 0.24 | | | |
| Temperature (Degrees C) | 20.26 | 20.48 | 20.49 | | 20.5 | | | |
| ORP (mV) | -201 | -200 | -202 | | -201 | | | |
| Salinity (%) | 0.3 | 0.2 | 0.3 | | 0.2 | | | |
| TDS (g/L) | 3.6 | 3.1 | 3.3 | | 3.3 | | | |

**SAMPLE ANALYSIS / LABORATORY**

Analyze For: TCL VOC's / SVOC's, TAL Metals, Total Cyanide

Shipped Via: Chemtech
Laboratory

Other Notes: well dry at 15:55 pm allowed 5 min to recharge, well dry again at 16.05 pm, collected sample at 16:10 pm. Turbidity was 100 NTU. Collected filtered and unfiltered sample for metals. Purged 6 gallons of water.

# PARSONS

## GROUNDWATER SAMPLING RECORD

**SITE NAME:** Con Edison (Farrington Street)
**PROJECT NUMBER:** 446109-03000
**Purge Date:**
**Sampling Date:** 11/18/11
**Samplers:** Lopa Naik and Zohar Lavy of Parsons / Somerset, NJ

**SAMPLE ID:** CMW-38
**Sampling Method:** Low flow purge (Whale Pump)

**WELL PURGING**

Static Water Level (TOC):
Depth to Well Bottom (TOC):
**CALCULATIONS:** Ft. of Water in Well ____ X (GAL / FT) = ____ Gallons
**2-inch Casing:** Ft. of Water in Wel ____ x 0.16 = ____ Gallons
3-inch Casing: Ft. of Water in Well ____ x 0.32 = ____ Gallons
4-inch Casing: Ft. of Water in Well ____ x 0.64 = ____ Gallons
Method: Low Flow Pump

**SAMPLE DESCRIPTION**

Odor : HC Odor
Other : Purged 7 gallons of product and water mixture prior to collecting field test data.

**FIELD TESTS**

| | PURGE | PURGE | PURGE | PURGE | PURGE | SAMPLE |
|---|---|---|---|---|---|---|
| Time | 8:20 | 8:25 | 8:30 | 8:35 | 8:40 | 8:45 |
| Depth To Water (TOC) (ft) | | | | | | |
| Depth To Pump (TOC) (ft) | | | | | | |
| Flow Rate (ml/min) | | | | | | |
| Volume of Water Purged | | | | | | |
| pH (s.u.) | 6.75 | 7.05 | 7.03 | 7.04 | 7.03 | 7.03 |
| Conductivity (mS/cm) | 2.29 | 2.61 | 2.62 | 2.63 | 2.61 | 2.61 |
| Turbidity (NTUs) | 55 | 50 | 48.1 | 40 | 41 | 38.1 |
| Dissolved Oxygen (mg/L) | 1.81 | 0.33 | 0.32 | 0.31 | 0.31 | 0.31 |
| Temperature (Degrees C) | 15.4 | 15.41 | 15.42 | 15.44 | 15.41 | 15.4 |
| ORP (mV) | 59 | 49 | 45 | 46 | 42 | 42 |
| Salinity (%) | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 |
| TDS (g/L) | 1.6 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 |

**SAMPLE ANALYSIS / LABORATORY**

Analyze For: TCL VOC's / SVOC's, TAL Metals, Total Cyanide
NAPL was collected and analyzed for Hydrocarbon Fingerprinting

Shipped Via: Chemtech
Laboratory

Other Notes: Purged 5 gallons of water, sample time 8:45.

# PARSONS

## GROUNDWATER SAMPLING RECORD

**SITE NAME:** Con Edison (Farrington Street)
**PROJECT NUMBER:** 446109-03000
**Purge Date:**
**Sampling Date:** 11/13/11
**Samplers:** Lopa Naik and Zohar Lavy of Parsons / Somerset, NJ

**SAMPLE ID:** CMW-37
**Sampling Method:** Low flow purge (Whale Pump)

**WELL PURGING**

Static Water Level (TOC): 11.00
Depth to Well Bottom (TOC): 20.45
**CALCULATIONS:** Ft. of Water in Well ____ X (GAL / FT) = ____ Gallons
**2-inch Casing:** Ft. of Water in Wel ____ x 0.16 = ____ Gallons
3-inch Casing: Ft. of Water in Well ____ x 0.32 = ____ Gallons
4-inch Casing: Ft. of Water in Well ____ x 0.64 = ____ Gallons
Method: Low Flow Pump

**SAMPLE DESCRIPTION**

Odor :
Other :

**FIELD TESTS**

| | PURGE | PURGE | PURGE | PURGE | PURGE | PURGE | PURGE | SAMPLE |
|---|---|---|---|---|---|---|---|---|
| Time | 14:00 | 14:05 | 14:10 | 14:15 | 14:20 | 14:25 | 14:30 | 14:35 |
| Depth To Water (TOC) (ft) | 11.75 | 11.65 | 11.50 | 11.50 | 11.50 | 11.50 | 11.50 | 11.50 |
| Depth To Pump (TOC) (ft) | 18 | 18 | 18 | 18 | 18 | 18 | 18 | 18 |
| Flow Rate (ml/min) | | | | | | | | |
| Volume of Water Purged | | | | | | | | |
| pH (s.u.) | 6.57 | 6.61 | 6.66 | 6.82 | 6.80 | 6.80 | 6.8 | 6.8 |
| Conductivity (mS/cm) | 1.99 | 2 | 1.99 | 1.99 | 1.98 | 1.98 | 1.98 | 1.97 |
| Turbidity (NTUs) | 50 | 55 | 12.8 | 7.4 | 23.1 | 2.5 | 0 | 0 |
| Dissolved Oxygen (mg/L) | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 |
| Temperature (Degrees C) | 17.41 | 17.27 | 17.26 | 17.19 | 17.03 | 16.97 | 17.01 | 17.03 |
| ORP (mV) | -148 | -155 | -151 | -161 | -162 | -162 | -162 | -162 |
| Salinity (%) | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 |
| TDS (g/L) | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 |

**SAMPLE ANALYSIS / LABORATORY**

Analyze For: TCL VOC's / SVOC's, TAL Metals, TAL Metals Dissolved, Total Cyanide

Shipped Via: Chemtech
Laboratory

Other Notes: Purged 8 gallons of water, sample time 14:35 pm. Collected filtered and unfiltered samples for metals.

# PARSONS

## GROUNDWATER SAMPLING RECORD

**SITE NAME:** Con Edison (Farrington Street)
**PROJECT NUMBER:** 446109-03000
**Purge Date:**
**Sampling Date:** 11/15/11
**Samplers:** Lopa Naik and Zohar Lavy of Parsons / Somerset, NJ

**SAMPLE ID:** CMW-40
**Sampling Method:** Low flow purge (Whale Pump)

**WELL PURGING**

Static Water Level (TOC): 13.40
Depth to Well Bottom (TOC): 23.40
**CALCULATIONS:** Ft. of Water in Well ____ X (GAL / FT) = ____ Gallons
**2-inch Casing:** Ft. of Water in Wel ____ x 0.16 = ____ Gallons
3-inch Casing: Ft. of Water in Well ____ x 0.32 = ____ Gallons
4-inch Casing: Ft. of Water in Well ____ x 0.64 = ____ Gallons
Method: Low Flow Pump

**SAMPLE DESCRIPTION**

Odor :
Other :

**FIELD TESTS**

| | PURGE | PURGE | PURGE | PURGE | PURGE | PURGE | SAMPLE |
|---|---|---|---|---|---|---|---|
| Time | 12:50 | 12:55 | 13:00 | 13:05 | 13:10 | 13:15 | 13:20 |
| Depth To Water (TOC) (ft) | 13.40 | 13.40 | 13.40 | 13.40 | 13.40 | 13.40 | 13.40 |
| Depth To Pump (TOC) (ft) | 22 | 22 | 22 | 22 | 22 | 22 | 22 |
| Flow Rate (ml/min) | | | | | | | |
| Volume of Water Purged | | | | | | | |
| pH (s.u.) | 6.71 | 6.77 | 6.75 | 6.75 | 6.75 | 6.75 | 6.75 |
| Conductivity (mS/cm) | 2.47 | 2.37 | 2.41 | 2.37 | 2.37 | 2.37 | 2.37 |
| Turbidity (NTUs) | 114 | 110 | 23.7 | 15 | 7.5 | 5.4 | 5.2 |
| Dissolved Oxygen (mg/L) | 1.04 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 |
| Temperature (Degrees C) | 17.82 | 18.16 | 18.22 | 18.2 | 18.23 | 18.2 | 18.21 |
| ORP (mV) | -92 | -117 | -111 | -112 | -114 | -112 | -113 |
| Salinity (%) | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 |
| TDS (g/L) | 1.6 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 |

**SAMPLE ANALYSIS / LABORATORY**

Analyze For: TCL VOC's / SVOC's, TAL Metals, Total Cyanide

Shipped Via: Chemtech
Laboratory

Purged 8 gallons of water, sample time 13:20 pm.
Other Notes:

# PARSONS

## GROUNDWATER SAMPLING RECORD

**SITE NAME:** Con Edison (Farrington Street)
**PROJECT NUMBER:** 446109-03000
**Purge Date:**
**Sampling Date:** 11/17/11
**Samplers:** Lopa Naik and Zohar Lavy of Parsons / Somerset, NJ

**SAMPLE ID:** MW-13
**Sampling Method:** Low flow purge (Whale Pump)

**WELL PURGING**

Static Water Level (TOC): 12.56
Depth to Well Bottom (TOC): 25.65
**CALCULATIONS:** Ft. of Water in Well ____ X (GAL / FT) = ____ Gallons
**2-inch Casing:** Ft. of Water in Wel ____ x 0.16 = ____ Gallons
3-inch Casing: Ft. of Water in Well ____ x 0.32 = ____ Gallons
4-inch Casing: Ft. of Water in Well ____ x 0.64 = ____ Gallons
Method: Low Flow Pump

**SAMPLE DESCRIPTION**

Odor :
Other :

**FIELD TESTS**

| | PURGE | PURGE | PURGE | PURGE | PURGE | PURGE | PURGE | SAMPLE |
|---|---|---|---|---|---|---|---|---|
| Time | 9:25 | 9:30 | 9:35 | 9:40 | 9:45 | 9:50 | 9:55 | 10:00 |
| Depth To Water (TOC) (ft) | 12.56 | 12.56 | 12.56 | 12.56 | 12.56 | 12.56 | 12.56 | 12.56 |
| Depth To Pump (TOC) (ft) | 24 | 24 | 24 | 24 | 24 | 24 | 24 | 24 |
| Flow Rate (ml/min) | | | | | | | | |
| Volume of Water Purged | | | | | | | | |
| pH (s.u.) | 7.18 | 7.09 | 7.08 | 7.09 | 7.08 | 7.07 | 7.07 | 7.07 |
| Conductivity (mS/cm) | 0.96 | 0.862 | 0.866 | 0.866 | 0.867 | 0.869 | 0.869 | 0.868 |
| Turbidity (NTUs) | 70 | 50 | 34 | 27 | 17 | 5 | 2 | 0 |
| Dissolved Oxygen (mg/L) | 0.08 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 |
| Temperature (Degrees C) | 18.18 | 18.6 | 18.6 | 18.57 | 18.65 | 18.61 | 18.62 | 18.61 |
| ORP (mV) | -6 | -30 | -53 | -55 | -57 | -60 | -60 | -60 |
| Salinity (%) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| TDS (g/L) | 0.6 | 0.55 | 0.55 | 0.55 | 0.55 | 0.55 | 0.56 | 0.56 |

**SAMPLE ANALYSIS / LABORATORY**

Analyze For: TCL VOC's / SVOC's, TAL Metals, Total Cyanide

Shipped Via: Chemtech
Laboratory

Other Notes: Purged 8 gallons of water, sample time 10:00 am.

# PARSONS

## GROUNDWATER SAMPLING RECORD

**SITE NAME:** Con Edison (Farrington Street)
**PROJECT NUMBER:** 446109-03000
**Purge Date:** 11/18/11
**Sampling Date:** 11/18/11
**Samplers:** Lopa Naik and Zohar Lavy of Parsons / Somerset, NJ

**SAMPLE ID:** MW-15
**Sampling Method:** Low flow purge (Whale Pump)

**WELL PURGING**

Static Water Level (TOC): 11.51
Depth to Well Bottom (TOC): 28.13

| | | | | |
|---|---|---|---|---|
| **CALCULATIONS:** | Ft. of Water in Well | | X (GAL / FT) = | Gallons |
| **2-inch Casing:** | Ft. of Water in Wel | 16.62 | x 0.16 = 2.66 | Gallons |
| 3-inch Casing: | Ft. of Water in Well | | x 0.32 = | Gallons |
| 4-inch Casing: | Ft. of Water in Well | | x 0.64 = | Gallons |

Method: Low Flow Pump

**SAMPLE DESCRIPTION**

Odor : Strong Hydrocarbon odor
Other : Sheens

**FIELD TESTS**

| | PURGE | PURGE | PURGE | PURGE | PURGE | PURGE | SAMPLE |
|---|---|---|---|---|---|---|---|
| Time | 0705 | 0710 | 0715 | 0720 | 0725 | 0730 | 0735 |
| Depth To Water (TOC) (ft) | 11.56 | 11.61 | 11.58 | 11.59 | 11.59 | 11.59 | 11.59 |
| Depth To Pump (TOC) (ft) | 25.13 | 25.13 | 25.13 | 25.13 | 25.13 | 25.13 | 25.13 |
| Flow Rate (ml/min) | ~350 | ~350 | ~300 | ~350 | ~300 | ~300 | ~300 |
| Volume of Water Purged | ~0.75 | ~1.5 | ~2 | ~2.75 | ~3.25 | ~3.3 | ~4.25 |
| pH (s.u.) | 6.58 | 6.77 | 6.77 | 6.76 | 6.79 | 6.80 | 6.81 |
| Conductivity (mS/cm) | 9.51 | 9.47 | 9.25 | 9.07 | 9.16 | 9.17 | 9.18 |
| Turbidity (NTUs) | 235 | 161 | 50.5 | 51.6 | 45.9 | 40.6 | 14.8 |
| Dissolved Oxygen (mg/L) | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Temperature (Degrees C) | 18.6 | 18.7 | 18.8 | 18.7 | 18.8 | 18.8 | 18.7 |
| ORP (mV) | -82 | -94 | -107 | -113 | -115 | -116 | -117 |
| Salinity (%) | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 |
| TDS (g/L) | 5.7 | 5.9 | 5.8 | 5.7 | 5.8 | 5.8 | 5.8 |

**SAMPLE ANALYSIS / LABORATORY**

Analyze For: TCL VOC's / SVOC's, TAL Metals, Total Cyanide
NAPL was collected and analyzed for Hydrocarbon Fingerprinting

Shipped Via: Chemtech
Laboratory

Other Notes: Purged 4.25 gallons of water; sampled at 0735

# PARSONS

## GROUNDWATER SAMPLING RECORD

**SITE NAME:** Con Edison (Farrington Street)
**PROJECT NUMBER:** 446109-03000
**Purge Date:**
**Sampling Date:** 11/17/11
**Samplers:** Lopa Naik and Zohar Lavy of Parsons / Somerset, NJ

**SAMPLE ID:** MW-16
**Sampling Method:** Low flow purge (Whale Pump)

**WELL PURGING**

Static Water Level (TOC): 13.67
Depth to Well Bottom (TOC): 29.29
**CALCULATIONS:** Ft. of Water in Well ____ X (GAL / FT) = ____ Gallons
**2-inch Casing:** Ft. of Water in Wel ____ x 0.16 = ____ Gallons
3-inch Casing: Ft. of Water in Well ____ x 0.32 = ____ Gallons
4-inch Casing: Ft. of Water in Well ____ x 0.64 = ____ Gallons
Method: Low Flow Pump

**SAMPLE DESCRIPTION**

Odor : HC Odor
Other : Sheen on purged water

**FIELD TESTS**

| | PURGE | PURGE | PURGE | PURGE | PURGE | PURGE | PURGE | SAMPLE |
|---|---|---|---|---|---|---|---|---|
| Time | 11:00 | 11:05 | 11:10 | 11:15 | 11:20 | 11:25 | 11:30 | 11:35 |
| Depth To Water (TOC) (ft) | 13.67 | 13.67 | 13.67 | 13.67 | 13.67 | 13.67 | 13.67 | 13.67 |
| Depth To Pump (TOC) (ft) | 28 | 28 | 28 | 28 | 28 | 28 | 28 | 28 |
| Flow Rate (ml/min) | | | | | | | | |
| Volume of Water Purged | | | | | | | | |
| pH (s.u.) | 7.62 | 7.52 | 7.41 | 7.35 | 7.36 | 7.35 | 7.35 | 7.35 |
| Conductivity (mS/cm) | 0.282 | 0.297 | 0.317 | 0.38 | 0.381 | 0.381 | 0.383 | 0.386 |
| Turbidity (NTUs) | 100 | 95 | 80 | 48.6 | 34 | 24 | 10 | 2 |
| Dissolved Oxygen (mg/L) | 1.98 | 0.25 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 |
| Temperature (Degrees C) | 15.34 | 15.58 | 15.63 | 15.65 | 15.65 | 15.65 | 15.66 | 15.67 |
| ORP (mV) | -99 | -102 | -113 | -119 | -124 | -127 | -128 | -129 |
| Salinity (%) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| TDS (g/L) | 0.18 | 0.18 | 0.22 | 0.22 | 0.22 | 0.25 | 0.25 | 0.25 |

**SAMPLE ANALYSIS / LABORATORY**

Analyze For: TCL VOC's / SVOC's, TAL Metals, Total Cyanide

Shipped Via: Chemtech
Laboratory

Other Notes: Purged 8 gallons of water, sample time 11:35 am.

# PARSONS

## GROUNDWATER SAMPLING RECORD

**SITE NAME:** Con Edison (Farrington Street)
**PROJECT NUMBER:** 446109-03000
**Purge Date:** 11/16/11
**Sampling Date:** 11/16/11
**Samplers:** Lopa Naik and Zohar Lavy of Parsons / Somerset, NJ

**SAMPLE ID:** MW-17 and MW-17A (Duplicate)
**Sampling Method:** Low flow purge (Whale Pump)

**WELL PURGING**

Static Water Level (TOC): 12.79
Depth to Well Bottom (TOC): 22.75

| | | | | |
|---|---|---|---|---|
| **CALCULATIONS:** | Ft. of Water in Well | | X (GAL / FT) = | Gallons |
| **2-inch Casing:** | Ft. of Water in Wel | 9.96 | x 0.16 = 1.59 | Gallons |
| 3-inch Casing: | Ft. of Water in Well | | x 0.32 = | Gallons |
| 4-inch Casing: | Ft. of Water in Well | | x 0.64 = | Gallons |

Method: Low Flow Pump

**SAMPLE DESCRIPTION**

Odor : Hydrocarbon Odor
Other : Clear, some particulates, slight sheen

**FIELD TESTS**

| | PURGE | PURGE | PURGE | PURGE | PURGE | PURGE | PURGE | SAMPLE |
|---|---|---|---|---|---|---|---|---|
| Time | 0905 | 0910 | 0915 | 0920 | 0925 | 0930 | 0935 | 0940 |
| Depth To Water (TOC) (ft) | 12.98 | 13.03 | 13.11 | 13.17 | 13.21 | 13.25 | 13.25 | 13.25 |
| Depth To Pump (TOC) (ft) | 21.75 | 21.75 | 21.75 | 21.75 | 21.75 | 21.75 | 21.75 | 21.75 |
| Flow Rate (ml/min) | ~250 | ~200 | ~250 | ~300 | ~300 | ~300 | ~300 | ~300 |
| Volume of Water Purged | ~0.5 | ~1 | ~1.5 | ~2 | ~2.5 | ~3 | ~3.5 | ~4 |
| pH (s.u.) | 6.51 | 6.51 | 6.36 | 6.57 | 6.58 | 6.58 | 6.59 | 6.59 |
| Conductivity (mS/cm) | 1.6 | 1.67 | 1.71 | 1.7 | 1.71 | 1.7 | 1.67 | 1.67 |
| Turbidity (NTUs) | 233 | 191 | 139 | 56.7 | 20.2 | 25.9 | 34 | 31.1 |
| Dissolved Oxygen (mg/L) | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Temperature (Degrees C) | 16.8 | 16.8 | 16.8 | 16.9 | 16.8 | 16.8 | 16.7 | 16.8 |
| ORP (mV) | -140 | -124 | -130 | -132 | -134 | -135 | -137 | -137 |
| Salinity (%) | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 |
| TDS (g/L) | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 |

**SAMPLE ANALYSIS / LABORATORY**

Analyze For: TCL VOC's / SVOC's, TAL Metals, Total Cyanide

Shipped Via: Chemtech
Laboratory

Other Notes: Purged ~4 gallons of water; sampled at 0940

# PARSONS

## GROUNDWATER SAMPLING RECORD

**SITE NAME:** Con Edison (Farrington Street)
**PROJECT NUMBER:** 446109-03000
**Purge Date:** 11/17/11
**Sampling Date:** 11/17/11
**Samplers:** Lopa Naik and Zohar Lavy of Parsons / Somerset, NJ

**SAMPLE ID:** MW-18
**Sampling Method:** Low flow purge (Whale Pump)

**WELL PURGING**

Static Water Level (TOC): 13.54
Depth to Well Bottom (TOC): 25.05

| | | | | |
|---|---|---|---|---|
| **CALCULATIONS:** | Ft. of Water in Well | | X (GAL / FT) = | Gallons |
| **2-inch Casing:** | Ft. of Water in Wel | 11.51 | x 0.16 = 1.84 | Gallons |
| 3-inch Casing: | Ft. of Water in Well | | x 0.32 = | Gallons |
| 4-inch Casing: | Ft. of Water in Well | | x 0.64 = | Gallons |

Method: Low Flow Pump

**SAMPLE DESCRIPTION**

Odor : Hydrocarbon Odor
Other : Clear, Sheen

**FIELD TESTS**

| | PURGE | PURGE | PURGE | PURGE | PURGE | PURGE | SAMPLE |
|---|---|---|---|---|---|---|---|
| Time | 1405 | 1410 | 1415 | 1420 | 1425 | 1430 | 1435 |
| Depth To Water (TOC) (ft) | 13.55 | 13.54 | 13.56 | 13.59 | 13.60 | 13.60 | 13.60 |
| Depth To Pump (TOC) (ft) | 22.05 | 22.05 | 22.05 | 22.05 | 22.05 | 22.05 | 22.05 |
| Flow Rate (ml/min) | ~250 | ~350 | ~350 | ~300 | ~300 | ~300 | ~350 |
| Volume of Water Purged | ~0.5 | ~1.25 | ~1.75 | ~2.25 | ~3 | ~3.5 | ~4 |
| pH (s.u.) | 6.65 | 6.71 | 6.69 | 6.66 | 6.67 | 6.68 | 6.69 |
| Conductivity (mS/cm) | 0.334 | 0.338 | 0.39 | 0.538 | 0.669 | 0.68 | 0.686 |
| Turbidity (NTUs) | 361 | 276 | 210 | 41.2 | 21.9 | 16.7 | 6.75 |
| Dissolved Oxygen (mg/L) | 2.11 | 2.45 | 3.00 | 1.94 | 1.26 | 1.32 | 1.06 |
| Temperature (Degrees C) | 14.4 | 14.6 | 14.6 | 14.9 | 15.1 | 15.1 | 15.2 |
| ORP (mV) | -56 | -59 | -67 | -79 | -89 | -80 | -91 |
| Salinity (%) | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| TDS (g/L) | 0.22 | 0.22 | 0.26 | 0.33 | 0.42 | 0.42 | 0.45 |

**SAMPLE ANALYSIS / LABORATORY**

Analyze For: TCL VOC's / SVOC's, TAL Metals, Total Cyanide
NAPL was collected and analyzed for Hydrocarbon Fingerprinting

Shipped Via: Chemtech
Laboratory

Other Notes: Purged 4 gallons of water; sampled at 1435

# PARSONS

## GROUNDWATER SAMPLING RECORD

**SITE NAME:** Con Edison (Farrington Street)
**PROJECT NUMBER:** 446109-03000
**Purge Date:**
**Sampling Date:** 11/17/11
**Samplers:** Lopa Naik and Zohar Lavy of Parsons / Somerset, NJ

**SAMPLE ID:** MW-19
**Sampling Method:** Low flow purge (Whale Pump)

**WELL PURGING**

Static Water Level (TOC): 13.51
Depth to Well Bottom (TOC): 29.10
**CALCULATIONS:** Ft. of Water in Well ____ X (GAL / FT) = ____ Gallons
**2-inch Casing:** Ft. of Water in Wel ____ x 0.16 = ____ Gallons
3-inch Casing: Ft. of Water in Well ____ x 0.32 = ____ Gallons
4-inch Casing: Ft. of Water in Well ____ x 0.64 = ____ Gallons
Method: Low Flow Pump

**SAMPLE DESCRIPTION**

Odor : HC Odor
Other : Sheen on the purged water

**FIELD TESTS**

| | PURGE | PURGE | PURGE | PURGE | PURGE | PURGE | SAMPLE |
|---|---|---|---|---|---|---|---|
| Time | 13:30 | 13:35 | 13:40 | 13:45 | 13:50 | 13:55 | 14:00 |
| Depth To Water (TOC) (ft) | 13.51 | 13.51 | 13.51 | 13.51 | 13.51 | 13.51 | 13.51 |
| Depth To Pump (TOC) (ft) | 28 | 28 | 28 | 28 | 28 | 28 | 28 |
| Flow Rate (ml/min) | | | | | | | |
| Volume of Water Purged | | | | | | | |
| pH (s.u.) | 6.92 | 7.03 | 7.03 | 7.02 | 7.04 | 7.04 | 7.04 |
| Conductivity (mS/cm) | 1.57 | 1.46 | 1.44 | 1.4 | 1.46 | 1.47 | 1.47 |
| Turbidity (NTUs) | 100 | 80.7 | 44 | 3 | 1 | 1 | 0.13 |
| Dissolved Oxygen (mg/L) | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Temperature (Degrees C) | 15.2 | 15.23 | 15.2 | 15.2 | 16.1 | 16.1 | 16.1 |
| ORP (mV) | -148 | -163 | -162 | -160 | -165 | -166 | -166 |
| Salinity (%) | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 |
| TDS (g/L) | 1 | 0.9 | 0.9 | 0.9 | 0.9 | 0.9 | 0.9 |

**SAMPLE ANALYSIS / LABORATORY**

Analyze For: TCL VOC's / SVOC's, TAL Metals, Total Cyanide

Shipped Via: Chemtech
Laboratory

Other Notes: Purged 7 gallons of water, sample time 14:00 pm.

# PARSONS

## GROUNDWATER SAMPLING RECORD

**SITE NAME:** Con Edison (Farrington Street)
**PROJECT NUMBER:** 446109-03000
**Purge Date:**
**Sampling Date:** 11/16/11
**Samplers:** Lopa Naik and Zohar Lavy of Parsons / Somerset, NJ

**SAMPLE ID:** MW-20
**Sampling Method:** Low flow purge (Whale Pump)

**WELL PURGING**

Static Water Level (TOC): 13.45
Depth to Well Bottom (TOC): 21.38
**CALCULATIONS:** Ft. of Water in Well ____ X (GAL / FT) = ____ Gallons
**2-inch Casing:** Ft. of Water in Wel ____ x 0.16 = ____ Gallons
3-inch Casing: Ft. of Water in Well ____ x 0.32 = ____ Gallons
4-inch Casing: Ft. of Water in Well ____ x 0.64 = ____ Gallons
Method: Low Flow Pump

**SAMPLE DESCRIPTION**

Odor :
Other :

**FIELD TESTS**

| | PURGE | PURGE | PURGE | PURGE | PURGE | PURGE | SAMPLE | |
|---|---|---|---|---|---|---|---|---|
| Time | 11:05 | 11:10 | 11:15 | 11:20 | 11:25 | 11:30 | 11:35 | 11:40 |
| Depth To Water (TOC) (ft) | 13.45 | 13.45 | 13.45 | 13.45 | 13.45 | 13.45 | 13.45 | 13.45 |
| Depth To Pump (TOC) (ft) | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 |
| Flow Rate (ml/min) | | | | | | | | |
| Volume of Water Purged | | | | | | | | |
| pH (s.u.) | 6.53 | 6.62 | 6.58 | 6.63 | 6.68 | 6.65 | 6.63 | 6.62 |
| Conductivity (mS/cm) | 1.43 | 1.4 | 1.45 | 1.45 | 1.46 | 1.49 | 1.48 | 1.48 |
| Turbidity (NTUs) | 360 | 165 | 132 | 11.9 | 5.6 | 4 | 2.9 | 1.9 |
| Dissolved Oxygen (mg/L) | 0.73 | 0.85 | 0.81 | 0.47 | 0.28 | 0.28 | 0.27 | 0.29 |
| Temperature (Degrees C) | 18.85 | 19.25 | 19.23 | 18.98 | 19.15 | 19.17 | 19.03 | 19.05 |
| ORP (mV) | 140 | -150 | -153 | -108 | -112 | -133 | -130 | -130 |
| Salinity (%) | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 |
| TDS (g/L) | 0.9 | 0.9 | 0.9 | 0.9 | 0.9 | 0.9 | 1 | 1 |

**SAMPLE ANALYSIS / LABORATORY**

Analyze For: TCL VOC's / SVOC's, TAL Metals, Total Cyanide

Shipped Via: Chemtech
Laboratory

Other Notes: Purged 8 gallons of water, sample time 11:40 pm.

# PARSONS

## GROUNDWATER SAMPLING RECORD

**SITE NAME:** Con Edison (Farrington Street)
**PROJECT NUMBER:** 446109-03000
**Purge Date:**
**Sampling Date:** 11/16/11
**Samplers:** Lopa Naik and Zohar Lavy of Parsons / Somerset, NJ

**SAMPLE ID:** MW-21, MW-21 MS, MW-21 MSD
**Sampling Method:** Low flow purge (Whale Pump)

**WELL PURGING**

Static Water Level (TOC): 11.84
Depth to Well Bottom (TOC): 22.08
**CALCULATIONS:** Ft. of Water in Well ____ X (GAL / FT) = ____ Gallons
**2-inch Casing:** Ft. of Water in Wel ____ x 0.16 = ____ Gallons
3-inch Casing: Ft. of Water in Well ____ x 0.32 = ____ Gallons
4-inch Casing: Ft. of Water in Well ____ x 0.64 = ____ Gallons
Method: Low Flow Pump

**SAMPLE DESCRIPTION**

Odor :
Other :

**FIELD TESTS**

| | PURGE | PURGE | PURGE | PURGE | PURGE | PURGE | PURGE | SAMPLE |
|---|---|---|---|---|---|---|---|---|
| Time | 9:00 | 9:05 | 9:10 | 9:15 | 9:20 | 9:25 | 9:30 | 9:35 |
| Depth To Water (TOC) (ft) | 11.84 | 11.84 | 11.84 | 11.84 | 11.84 | 11.84 | 11.84 | 11.84 |
| Depth To Pump (TOC) (ft) | 21 | 21 | 21 | 21 | 21 | 21 | 21 | 21 |
| Flow Rate (ml/min) | | | | | | | | |
| Volume of Water Purged | | | | | | | | |
| pH (s.u.) | 6.86 | 6.95 | 6.95 | 6.95 | 6.95 | 6.95 | 6.96 | 6.96 |
| Conductivity (mS/cm) | 2.96 | 2.96 | 2.96 | 2.96 | 2.96 | 2.96 | 2.96 | 2.96 |
| Turbidity (NTUs) | 400 | 237 | 139 | 126 | 80 | 66.6 | 70 | 72 |
| Dissolved Oxygen (mg/L) | 0.43 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 |
| Temperature (Degrees C) | 19.96 | 20.03 | 20.01 | 20.06 | 20 | 19.82 | 19.89 | 19.96 |
| ORP (mV) | -170 | -175 | -174 | -174 | -175 | -173 | -170 | -170 |
| Salinity (%) | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 |
| TDS (g/L) | 1.9 | 1.9 | 1.9 | 1.9 | 1.9 | 1.9 | 1.9 | 1.9 |

**SAMPLE ANALYSIS / LABORATORY**

Analyze For: TCL VOC's / SVOC's, TAL Metals, TAL Metals Dissolved, Total Cyanide

Shipped Via: Chemtech
Laboratory

Other Notes: Purged 10 gallons of water, sample time 9:35 am. Collected filtered and unfiltered samples for metals.

# PARSONS

## GROUNDWATER SAMPLING RECORD

**SITE NAME:** Con Edison (Farrington Street)
**PROJECT NUMBER:** 446109-03000
**Purge Date:** 11/17/11
**Sampling Date:** 11/17/11
**Samplers:** Lopa Naik and Zohar Lavy of Parsons / Somerset, NJ

**SAMPLE ID:** MW-25
**Sampling Method:** Low flow purge (Whale Pump)

**WELL PURGING**

Static Water Level (TOC): 11.15
Depth to Well Bottom (TOC): 43.51

| | | | | |
|---|---|---|---|---|
| **CALCULATIONS:** | Ft. of Water in Well | | X (GAL / FT) = | Gallons |
| **2-inch Casing:** | Ft. of Water in Wel | 32.36 | x 0.16 = 5.18 | Gallons |
| 3-inch Casing: | Ft. of Water in Well | | x 0.32 = | Gallons |
| 4-inch Casing: | Ft. of Water in Well | | x 0.64 = | Gallons |

Method: Low Flow Pump

**SAMPLE DESCRIPTION**

Odor : Slight Hydrocarbon Odor
Other : Turbid

**FIELD TESTS**

| | PURGE | PURGE | PURGE | PURGE | PURGE | PURGE | PURGE | PURGE |
|---|---|---|---|---|---|---|---|---|
| Time | 1005 | 1010 | 1015 | 1020 | 1025 | 1030 | 1035 | 1040 |
| Depth To Water (TOC) (ft) | 12.45 | 12.49 | 12.70 | 13.00 | 13.26 | 13.49 | 13.68 | 13.95 |
| Depth To Pump (TOC) (ft) | 40.51 | 40.51 | 40.51 | 40.51 | 40.51 | 40.51 | 40.51 | 40.51 |
| Flow Rate (ml/min) | ~350 | ~350 | ~350 | ~300 | ~350 | ~350 | ~300 | ~300 |
| Volume of Water Purged | ~0.75 | ~1.5 | ~2.25 | ~2.75 | ~3.5 | ~4 | ~4.5 | ~5.25 |
| pH (s.u.) | 6.53 | 6.53 | 6.53 | 6.50 | 6.48 | 6.44 | 6.51 | 6.52 |
| Conductivity (mS/cm) | 0.433 | 0.433 | 0.436 | 0.403 | 0.397 | 0.386 | 0.41 | 0.427 |
| Turbidity (NTUs) | 502 | 670 | 1025 | 971 | 722 | 611 | 860 | 701 |
| Dissolved Oxygen (mg/L) | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Temperature (Degrees C) | 16.1 | 16.1 | 16.2 | 16.2 | 16.1 | 16 | 16.1 | 16.2 |
| ORP (mV) | -34 | -38 | -31 | -22 | -21 | -18 | -24 | -33 |
| Salinity (%) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| TDS (g/L) | 0.28 | 0.28 | 0.28 | 0.26 | 0.26 | 0.25 | 0.27 | 0.28 |

**SAMPLE ANALYSIS / LABORATORY**

Analyze For: TCL VOC's / SVOC's, TAL Metals, TAL Metals Dissolved, Total Cyanide

Shipped Via: Chemtech
Laboratory

Other Notes: Purged 15 gallons of water; sampled at 1205. Collected filtered and unfiltered samples for metals.

# PARSONS

## GROUNDWATER SAMPLING RECORD

**SITE NAME:** Con Edison (Farrington Street)
**PROJECT NUMBER:** 446109-03000
**Purge Date:** 11/17/11
**Sampling Date:** 11/17/11
**Samplers:** Lopa Naik and Zohar Lavy of Parsons / Somerset, NJ

**SAMPLE ID:** MW-25
**Sampling Method:** Low flow purge (Whale Pump)

**WELL PURGING**

Static Water Level (TOC): 11.15
Depth to Well Bottom (TOC): 43.51

| | | | | |
|---|---|---|---|---|
| **CALCULATIONS:** | Ft. of Water in Well | | X (GAL / FT) = | Gallons |
| **2-inch Casing:** | Ft. of Water in Wel | 32.36 | x 0.16 = 5.18 | Gallons |
| 3-inch Casing: | Ft. of Water in Well | | x 0.32 = | Gallons |
| 4-inch Casing: | Ft. of Water in Well | | x 0.64 = | Gallons |

Method: Low Flow Pump

**SAMPLE DESCRIPTION**

Odor : Slight Hydrocarbon Odor
Other : Turbid

**FIELD TESTS**

| | PURGE | PURGE | PURGE | PURGE | PURGE | PURGE | PURGE | PURGE |
|---|---|---|---|---|---|---|---|---|
| Time | 1045 | 1050 | 1055 | 1100 | 1105 | 1110 | 1115 | 1120 |
| Depth To Water (TOC) (ft) | 13.86 | 13.91 | 14.53 | 14.41 | 15.10 | 15.10 | 15.11 | 15.23 |
| Depth To Pump (TOC) (ft) | 40.51 | 40.51 | 40.51 | 40.51 | 40.51 | 40.51 | 40.51 | 40.51 |
| Flow Rate (ml/min) | ~300 | ~300 | ~300 | ~300 | ~250 | ~250 | ~250 | ~350 |
| Volume of Water Purged | ~6 | ~6.5 | ~7 | ~7.5 | ~8 | ~8.5 | ~9 | ~9.75 |
| pH (s.u.) | 6.52 | 6.53 | 6.54 | 6.53 | 6.65 | 6.65 | 6.69 | 6.68 |
| Conductivity (mS/cm) | 0.437 | 0.441 | 0.423 | 0.424 | 0.482 | 0.484 | 0.502 | 0.48 |
| Turbidity (NTUs) | 1522 | 2367 | 3735 | 3699 | 4775 | 5601 | 3266 | 4201 |
| Dissolved Oxygen (mg/L) | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Temperature (Degrees C) | 16 | 16.1 | 16.5 | 16.4 | 16.1 | 16.1 | 16.2 | 16.1 |
| ORP (mV) | -35 | -36 | -35 | -35 | -50 | -52 | -56 | -54 |
| Salinity (%) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| TDS (g/L) | 0.28 | 0.28 | 0.27 | 0.28 | 0.31 | 0.32 | 0.32 | 0.31 |

**SAMPLE ANALYSIS / LABORATORY**

Analyze For: TCL VOC's / SVOC's, TAL Metals, TAL Metals Dissolved, Total Cyanide

Shipped Via: Chemtech
Laboratory

Other Notes: Purged 15 gallons of water; sampled at 1205. Collected filtered and unfiltered samples for metals.

# PARSONS
## GROUNDWATER SAMPLING RECORD

**SITE NAME:** Con Edison (Farrington Street)
**PROJECT NUMBER:** 446109-03000
**Purge Date:** 11/17/11
**Sampling Date:** 11/17/11
**Samplers:** Lopa Naik and Zohar Lavy of Parsons / Somerset, NJ

**SAMPLE ID:** MW-25
**Sampling Method:** Low flow purge (Whale Pump)

**WELL PURGING**

Static Water Level (TOC): 11.15
Depth to Well Bottom (TOC): 43.51

| | | | | |
|---|---|---|---|---|
| **CALCULATIONS:** | Ft. of Water in Well | | X (GAL / FT) = | Gallons |
| **2-inch Casing:** | Ft. of Water in Well 32.36 | x 0.16 = | 5.18 | Gallons |
| 3-inch Casing: | Ft. of Water in Well | x 0.32 = | | Gallons |
| 4-inch Casing: | Ft. of Water in Well | x 0.64 = | | Gallons |

Method: Low Flow Pump

**SAMPLE DESCRIPTION**

Odor : Slight Hydrocarbon Odor
Other : Turbid

**FIELD TESTS**

| | PURGE | PURGE | PURGE | PURGE | PURGE | PURGE | PURGE | PURGE |
|---|---|---|---|---|---|---|---|---|
| Time | 1125 | 1130 | 1135 | 1140 | 1145 | 1150 | 1155 | 1200 |
| Depth To Water (TOC) (ft) | 15.25 | 15.35 | 15.39 | 15.65 | 15.46 | 15.59 | 15.62 | 15.65 |
| Depth To Pump (TOC) (ft) | 40.51 | 40.51 | 40.51 | 40.51 | 40.51 | 40.51 | 40.51 | 40.51 |
| Flow Rate (ml/min) | ~300 | ~300 | ~250 | ~350 | ~300 | ~300 | ~300 | ~250 |
| Volume of Water Purged | ~10.25 | ~10.75 | ~11.25 | ~12 | ~12.75 | ~13.25 | ~13.75 | ~14.5 |
| pH (s.u.) | 6.67 | 6.67 | 6.67 | 6.65 | 6.71 | 6.68 | 6.68 | 6.67 |
| Conductivity (mS/cm) | 0.475 | 0.473 | 0.471 | 0.463 | 0.523 | 0.516 | 0.527 | 0.53 |
| Turbidity (NTUs) | 5287 | 5493 | 4790 | 3262 | 3171 | 4270 | 3647 | 2102 |
| Dissolved Oxygen (mg/L) | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Temperature (Degrees C) | 16.3 | 16.4 | 16.4 | 16.5 | 16.3 | 16.3 | 6.3 | 16.4 |
| ORP (mV) | -54 | -54 | -54 | -51 | -62 | -63 | -62 | -63 |
| Salinity (%) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| TDS (g/L) | 0.31 | 0.31 | 0.31 | 0.3 | 0.32 | 0.32 | 0.32 | 0.31 |

**SAMPLE ANALYSIS / LABORATORY**

Analyze For: TCL VOC's / SVOC's, TAL Metals, TAL Metals Dissolved, Total Cyanide

Shipped Via: Chemtech
Laboratory

Other Notes: Purged 15 gallons of water; sampled at 1205. Collected filtered and unfiltered samples for metals.

# PARSONS
## GROUNDWATER SAMPLING RECORD

**SITE NAME:** Con Edison (Farrington Street)
**PROJECT NUMBER:** 446109-03000
**Purge Date:** 11/17/11
**Sampling Date:** 11/17/11
**Samplers:** Lopa Naik and Zohar Lavy of Parsons / Somerset, NJ

**SAMPLE ID:** MW-25
**Sampling Method:** Low flow purge (Whale Pump)

**WELL PURGING**

Static Water Level (TOC): 11.15
Depth to Well Bottom (TOC): 43.51

| | | | | |
|---|---|---|---|---|
| **CALCULATIONS:** | Ft. of Water in Well | | X (GAL / FT) = | Gallons |
| **2-inch Casing:** | Ft. of Water in Well 32.36 | x 0.16 = | 5.18 | Gallons |
| 3-inch Casing: | Ft. of Water in Well | x 0.32 = | | Gallons |
| 4-inch Casing: | Ft. of Water in Well | x 0.64 = | | Gallons |

Method: Low Flow Pump

**SAMPLE DESCRIPTION**

Odor : Slight Hydrocarbon Odor
Other : Turbid

**FIELD TESTS**

| | PURGE |
|---|---|
| Time | 1205 |
| Depth To Water (TOC) (ft) | 15.73 |
| Depth To Pump (TOC) (ft) | 40.51 |
| Flow Rate (ml/min) | ~300 |
| Volume of Water Purged | ~15 |
| pH (s.u.) | 6.68 |
| Conductivity (mS/cm) | 0.531 |
| Turbidity (NTUs) | 3433 |
| Dissolved Oxygen (mg/L) | 0 |
| Temperature (Degrees C) | 16.3 |
| ORP (mV) | -63 |
| Salinity (%) | 0 |
| TDS (g/L) | 0.32 |

**SAMPLE ANALYSIS / LABORATORY**

Analyze For: TCL VOC's / SVOC's, TAL Metals, TAL Metals Dissolved, Total Cyanide

Shipped Via: Chemtech
Laboratory

Other Notes: Purged 15 gallons of water; sampled at 1205. Collected filtered and unfiltered samples for metals.

# PARSONS

## GROUNDWATER SAMPLING RECORD

**SITE NAME:** Con Edison (Farrington Street)
**PROJECT NUMBER:** 446109-03000
**Purge Date:** 11/14/11
**Sampling Date:** 11/14/11
**Samplers:** Lopa Naik and Zohar Lavy of Parsons / Somerset, NJ

**SAMPLE ID:** MW-27
**Sampling Method:** Low flow purge (Whale Pump)

**WELL PURGING**

Static Water Level (TOC): 10.84
Depth to Well Bottom (TOC): 22.55
**CALCULATIONS:** Ft. of Water in Well ____ X (GAL / FT) = ____ Gallons
**2-inch Casing:** Ft. of Water in Wel 11.71 x 0.16 = 1.87 Gallons
3-inch Casing: Ft. of Water in Well ____ x 0.32 = ____ Gallons
4-inch Casing: Ft. of Water in Well ____ x 0.64 = ____ Gallons
Method: Low Flow Pump

**SAMPLE DESCRIPTION**

Odor : No odor
Other : Clear

**FIELD TESTS**

| | PURGE | PURGE | PURGE | PURGE | PURGE | PURGE | PURGE | SAMPLE |
|---|---|---|---|---|---|---|---|---|
| Time | 1430 | 1435 | 1440 | 1445 | 1450 | 1455 | 1500 | 1505 |
| Depth To Water (TOC) (ft) | 11.01 | 11.01 | 10.99 | 10.95 | 11.01 | 11.02 | 11.00 | 11.00 |
| Depth To Pump (TOC) (ft) | 21.55 | 21.55 | 21.55 | 21.55 | 21.55 | 21.55 | 21.55 | 21.55 |
| Flow Rate (ml/min) | ~250 | ~300 | ~350 | ~300 | ~350 | ~350 | ~300 | ~300 |
| Volume of Water Purged | ~0.5 | ~1 | ~1.75 | ~2.5 | ~3.25 | ~4 | ~4.5 | ~5 |
| pH (s.u.) | 5.20 | 5.34 | 5.39 | 5.43 | 5.54 | 5.66 | 5.67 | 5.66 |
| Conductivity (mS/cm) | 0.394 | 0.39 | 0.39 | 0.39 | 0.391 | 0.39 | 0.392 | 0.391 |
| Turbidity (NTUs) | 103 | 72 | 83.1 | 62.3 | 40.2 | 19.5 | 12.2 | 10.1 |
| Dissolved Oxygen (mg/L) | 3.42 | 3.64 | 3.71 | 3.73 | 3.76 | 3.84 | 3.86 | 3.91 |
| Temperature (Degrees C) | 17.4 | 17.4 | 17.4 | 17.4 | 17.4 | 17.4 | 17.4 | 17.4 |
| ORP (mV) | 169 | 167 | 166 | 166 | 164 | 163 | 163 | 162 |
| Salinity (%) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| TDS (g/L) | 0.26 | 0.25 | 0.25 | 0.25 | 0.25 | 0.25 | 0.25 | 0.25 |

**SAMPLE ANALYSIS / LABORATORY**

Analyze For: TCL VOC's / SVOC's, TAL Metals, Total Cyanide

Shipped Via: Chemtech
Laboratory

Other Notes: Purged ~5 gallons of water; sampled at 1505

# PARSONS

## GROUNDWATER SAMPLING RECORD

**SITE NAME:** Con Edison (Farrington Street)
**PROJECT NUMBER:** 446109-03000
**Purge Date:** 11/14/11
**Sampling Date:** 11/14/11
**Samplers:** Lopa Naik and Zohar Lavy of Parsons / Somerset, NJ

**SAMPLE ID:** MW-28
**Sampling Method:** Low flow purge (Whale Pump)

**WELL PURGING**

Static Water Level (TOC): 12.55
Depth to Well Bottom (TOC): 20.95

| | | | | |
|---|---|---|---|---|
| **CALCULATIONS:** | Ft. of Water in Well | | X (GAL / FT) = | Gallons |
| **2-inch Casing:** | Ft. of Water in Wel | 8.40 | x 0.16 = 1.34 | Gallons |
| 3-inch Casing: | Ft. of Water in Well | | x 0.32 = | Gallons |
| 4-inch Casing: | Ft. of Water in Well | | x 0.64 = | Gallons |

Method: Low Flow Pump

**SAMPLE DESCRIPTION**

Odor : No odor
Other : Clear

**FIELD TESTS**

| | PURGE | PURGE | PURGE | PURGE | PURGE | PURGE | PURGE | SAMPLE |
|---|---|---|---|---|---|---|---|---|
| Time | 1530 | 1535 | 1540 | 1545 | 1550 | 1555 | 1600 | 1605 |
| Depth To Water (TOC) (ft) | 12.65 | 13.06 | 13.32 | 13.55 | 13.56 | 12.98 | 12.99 | 12.72 |
| Depth To Pump (TOC) (ft) | 19.95 | 19.95 | 19.95 | 19.95 | 19.95 | 19.95 | 19.95 | 19.95 |
| Flow Rate (ml/min) | ~350 | ~300 | ~250 | ~250 | ~250 | ~200 | ~250 | ~250 |
| Volume of Water Purged | ~0.5 | ~1 | ~1.5 | ~2 | ~2.5 | ~3 | ~3.5 | ~4 |
| pH (s.u.) | 6.92 | 6.79 | 6.61 | 6.65 | 6.68 | 6.69 | 6.7 | 6.68 |
| Conductivity (mS/cm) | 1.46 | 1.39 | 1.37 | 1.35 | 1.33 | 1.32 | 1.31 | 1.3 |
| Turbidity (NTUs) | 362 | 275 | 153 | 109 | 111 | 79.1 | 34.6 | 10.9 |
| Dissolved Oxygen (mg/L) | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Temperature (Degrees C) | 17.8 | 17.9 | 17.8 | 18 | 18 | 17.9 | 18 | 17.9 |
| ORP (mV) | 129 | 128 | 128 | 128 | 127 | 127 | 126 | 126 |
| Salinity (%) | 0 | 0 | 0.1 | 0.1 | 0 | 0 | 0 | 0 |
| TDS (g/L) | 0.7 | 0.8 | 0.8 | 0.7 | 0.8 | 0.8 | 0.8 | 0.8 |

**SAMPLE ANALYSIS / LABORATORY**

Analyze For: TCL VOC's / SVOC's, TAL Metals, Total Cyanide

Shipped Via: Chemtech
Laboratory

Other Notes: Purged ~4 gallons of water; sampled at 1605

# PARSONS

## GROUNDWATER SAMPLING RECORD

**SITE NAME:** Con Edison (Farrington Street)
**PROJECT NUMBER:** 446109-03000
**Purge Date:** 11/16/11
**Sampling Date:** 11/16/11
**Samplers:** Lopa Naik and Zohar Lavy of Parsons / Somerset, NJ

**SAMPLE ID:** MW-30
**Sampling Method:** Low flow purge (Whale Pump)

**WELL PURGING**

Static Water Level (TOC): 14.05
Depth to Well Bottom (TOC): 32.80

| | | | | |
|---|---|---|---|---|
| **CALCULATIONS:** | Ft. of Water in Well | | X (GAL / FT) = | Gallons |
| **2-inch Casing:** | Ft. of Water in Wel | 18.75 | x 0.16 = | 3.00 Gallons |
| 3-inch Casing: | Ft. of Water in Well | | x 0.32 = | Gallons |
| 4-inch Casing: | Ft. of Water in Well | | x 0.64 = | Gallons |

Method: Low Flow Pump

**SAMPLE DESCRIPTION**

Odor : Slight Hydrocarbon Odor
Other : Clear

**FIELD TESTS**

| | PURGE | PURGE | PURGE | PURGE | PURGE | PURGE | PURGE | SAMPLE |
|---|---|---|---|---|---|---|---|---|
| Time | 1305 | 1310 | 1315 | 1320 | 1325 | 1330 | 1335 | 1340 |
| Depth To Water (TOC) (ft) | 14.07 | 14.10 | 14.08 | 14.06 | 14.05 | 14.06 | 14.08 | 14.07 |
| Depth To Pump (TOC) (ft) | 31.8 | 31.8 | 31.8 | 31.8 | 31.8 | 31.8 | 31.8 | 31.8 |
| Flow Rate (ml/min) | ~350 | ~300 | ~300 | ~350 | ~350 | ~300 | ~350 | ~350 |
| Volume of Water Purged | ~0.75 | ~1.25 | ~2 | ~2.75 | ~3.5 | ~4 | ~4.5 | ~5.25 |
| pH (s.u.) | 7.22 | 7.27 | 7.26 | 7.27 | 7.29 | 7.30 | 7.31 | 7.3 |
| Conductivity (mS/cm) | 2.83 | 2.74 | 2.71 | 2.58 | 2.53 | 2.58 | 2.57 | 2.49 |
| Turbidity (NTUs) | 240 | 173 | 134 | 122 | 115 | 82.5 | 59.3 | 45.2 |
| Dissolved Oxygen (mg/L) | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Temperature (Degrees C) | 15.3 | 15.3 | 15.3 | 15.4 | 15.4 | 15.4 | 15.4 | 15.3 |
| ORP (mV) | 182 | -187 | -188 | -192 | -192 | -189 | -192 | -194 |
| Salinity (%) | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 |
| TDS (g/L) | 1.8 | 1.8 | 1.8 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 |

**SAMPLE ANALYSIS / LABORATORY**

Analyze For: TCL VOC's / SVOC's, TAL Metals, Total Cyanide

Shipped Via: Chemtech
Laboratory

Other Notes: Purged ~5.25 gallons of water; sampled at 1340

# PARSONS

## GROUNDWATER SAMPLING RECORD

**SITE NAME:** Con Edison (Farrington Street)
**PROJECT NUMBER:** 449045-01000
**Purge Date:** 6-10-15
**Sampling Date:** 6-10-15
**Samplers:** Zohar Lavy of Parsons / Somerset, NJ

**SAMPLE ID:** MW-13
**Sampling Method:** Low flow purge (Monsoon Pump)

**WELL PURGING**

Static Water Level (TOC): 14.34
Depth to Well Bottom (TOC): 25.70

| | | | | |
|---|---|---|---|---|
| **CALCULATIONS:** | Ft. of Water in Well | | X (GAL / FT) = | Gallons |
| **2-inch Casing:** | Ft. of Water in Well | 11.36 | x 0.16 = | 1.82 Gallons |
| 3-inch Casing: | Ft. of Water in Well | | x 0.32 = | Gallons |
| 4-inch Casing: | Ft. of Water in Well | | x 0.64 = | Gallons |

Method: Low Flow Pump

**SAMPLE DESCRIPTION**

Odor : No odor
Other : Clear

**FIELD TESTS**

| | PURGE | PURGE | PURGE | PURGE | PURGE | PURGE | PURGE | PURGE |
|---|---|---|---|---|---|---|---|---|
| Time | 1305 | 1310 | 1315 | 1320 | 1325 | 1330 | 1335 | 1340 |
| Depth To Water (TOC) (ft) | 14.46 | 14.43 | 14.48 | 14.45 | 14.46 | 14.46 | 14.46 | 14.46 |
| Depth To Pump (TOC) (ft) | 23.70 | 23.70 | 23.70 | 23.70 | 23.70 | 23.70 | 23.70 | 23.70 |
| Flow Rate (ml/min) | ~500 | ~400 | ~500 | ~500 | ~500 | ~450 | ~500 | ~450 |
| Volume of Water Purged | ~1.0 | ~2.0 | ~3.0 | ~3.75 | ~4.5 | ~5.25 | ~6.0 | ~6.75 |
| pH (s.u.) | 6.37 | 6.22 | 6.21 | 6.19 | 6.17 | 6.15 | 6.16 | 6.17 |
| Conductivity (mS/cm) | 1.99 | 2.01 | 2.05 | 2.06 | 2.07 | 2.08 | 2.08 | 2.09 |
| Turbidity (NTUs) | 150 | 415 | 63.7 | 67.1 | 65.8 | 55.7 | 172 | 217 |
| Dissolved Oxygen (mg/L) | 17.61 | 14.04 | 10.32 | 8.66 | 6.25 | 4.39 | 3.11 | 2.38 |
| Temperature (Degrees C) | 13.45 | 13.59 | 13.11 | 13.19 | 13.26 | 13.52 | 13.45 | 13.48 |
| ORP (mV) | 31 | 35 | 31 | 31 | 32 | 32 | 32 | 33 |
| Salinity (%) | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| TDS (g/L) | 1.28 | 1.29 | 1.31 | 1.32 | 1.32 | 1.33 | 1.33 | 1.33 |

**SAMPLE ANALYSIS / LABORATORY**

Analyze For: TCL VOC's / SVOC's, TAL Metals, Total Cyanide

Shipped Via: Chemtech
Laboratory

Other Notes: Purged approximately 9.5 gallons of water; sampled at 1400

# PARSONS

## GROUNDWATER SAMPLING RECORD

**SITE NAME:** Con Edison (Farrington Street)
**PROJECT NUMBER:** 449045-01000
**Purge Date:** 6-10-15
**Sampling Date:** 6-10-15
**Samplers:** Zohar Lavy of Parsons / Somerset, NJ

**SAMPLE ID:** MW-13
**Sampling Method:** Low flow purge (Monsoon Pump)

**WELL PURGING**

Static Water Level (TOC): 14.34
Depth to Well Bottom (TOC): 25.70

| | | | | | |
|---|---|---|---|---|---|
| **CALCULATIONS:** | Ft. of Water in Well | | X (GAL / FT) = | | Gallons |
| **2-inch Casing:** | Ft. of Water in Well | 11.36 | x 0.16 = | 1.82 | Gallons |
| 3-inch Casing: | Ft. of Water in Well | | x 0.32 = | | Gallons |
| 4-inch Casing: | Ft. of Water in Well | | x 0.64 = | | Gallons |

Method: Low Flow Pump

**SAMPLE DESCRIPTION**

Odor : No odor
Other : Clear

**FIELD TESTS**

| | PURGE | PURGE | PURGE | SAMPLE |
|---|---|---|---|---|
| Time | 1345 | 1350 | 1355 | 1400 |
| Depth To Water (TOC) (ft) | 14.46 | 14.45 | 14.45 | 14.46 |
| Depth To Pump (TOC) (ft) | 23.70 | 23.70 | 23.70 | 23.70 |
| Flow Rate (ml/min) | ~450 | ~400 | ~500 | ~450 |
| Volume of Water Purged | ~7.5 | ~8.25 | ~9.0 | ~9.5 |
| pH (s.u.) | 6.17 | 6.16 | 6.16 | 6.17 |
| Conductivity (mS/cm) | 2.09 | 2.10 | 2.10 | 2.10 |
| Turbidity (NTUs) | 122 | 65.7 | 50.2 | 38.7 |
| Dissolved Oxygen (mg/L) | 1.98 | 1.86 | 1.77 | 1.72 |
| Temperature (Degrees C) | 13.49 | 13.42 | 13.51 | 13.46 |
| ORP (mV) | 33 | 33 | 32 | 33 |
| Salinity (%) | 1.00 | 1.00 | 1.00 | 1.00 |
| TDS (g/L) | 1.33 | 1.33 | 1.33 | 1.33 |

**SAMPLE ANALYSIS / LABORATORY**

Analyze For: TCL VOC's / SVOC's, TAL Metals, Total Cyanide

Shipped Via: Chemtech
Laboratory

Other Notes: Purged approximately 9.5 gallons of water; sampled at 1400

# PARSONS

## GROUNDWATER SAMPLING RECORD

**SITE NAME:** Con Edison (Farrington Street)
**PROJECT NUMBER:** 449045-01000
**Purge Date:** 6-11-15
**Sampling Date:** 6-11-15
**Samplers:** Zohar Lavy of Parsons / Somerset, NJ

**SAMPLE ID:** MW-16
**Sampling Method:** Low flow purge (Monsoon Pump)

**WELL PURGING**

Static Water Level (TOC): 16.18
Depth to Well Bottom (TOC): 29.35

| | | | | |
|---|---|---|---|---|
| **CALCULATIONS:** | Ft. of Water in Well | | X (GAL / FT) = | Gallons |
| **2-inch Casing:** | Ft. of Water in Wel | 13.17 | x 0.16 = 2.11 | Gallons |
| 3-inch Casing: | Ft. of Water in Well | | x 0.32 = | Gallons |
| 4-inch Casing: | Ft. of Water in Well | | x 0.64 = | Gallons |

Method: Low Flow Pump

**SAMPLE DESCRIPTION**

Odor : Strong Hydrocarbon Odor
Other : Clear, heavy sheen

**FIELD TESTS**

| | PURGE | PURGE | PURGE | PURGE | PURGE | PURGE | PURGE | SAMPLE |
|---|---|---|---|---|---|---|---|---|
| Time | 1355 | 1400 | 1405 | 1410 | 1415 | 1420 | 1425 | 1430 |
| Depth To Water (TOC) (ft) | 16.35 | 16.25 | 16.25 | 16.25 | 16.25 | 16.25 | 16.26 | 16.26 |
| Depth To Pump (TOC) (ft) | 27.35 | 27.35 | 27.35 | 27.35 | 27.35 | 27.35 | 27.35 | 27.35 |
| Flow Rate (ml/min) | ~500 | ~400 | ~400 | ~350 | ~350 | ~400 | ~400 | ~400 |
| Volume of Water Purged | ~1.0 | ~1.75 | ~2.5 | ~3.25 | ~3.75 | ~4.5 | ~5.25 | ~6.0 |
| pH (s.u.) | 7.05 | 7.02 | 7.06 | 7.10 | 7.13 | 7.14 | 7.15 | 7.15 |
| Conductivity (mS/cm) | 1.95 | 2.02 | 2.00 | 1.99 | 1.58 | 1.56 | 1.55 | 1.55 |
| Turbidity (NTUs) | 384 | 323 | 211 | 103 | 73.6 | 55.7 | 32.3 | 22.1 |
| Dissolved Oxygen (mg/L) | 6.27 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Temperature (Degrees C) | 16.3 | 17.41 | 16.32 | 16.43 | 16.43 | 16.32 | 16.25 | 16.18 |
| ORP (mV) | -65 | -90 | -97 | -109 | -115 | -120 | -124 | -128 |
| Salinity (%) | 0.1 | 1.0 | 1.0 | 0.9 | 0.8 | 0.8 | 0.8 | 0.8 |
| TDS (g/L) | 0.645 | 1.28 | 1.13 | 1.01 | 1.01 | 1.00 | 0.99 | 0.99 |

**SAMPLE ANALYSIS / LABORATORY**

Analyze For: TCL VOC's / SVOC's, TAL Metals, Total Cyanide

Shipped Via: Chemtech
Laboratory

Other Notes: Purged approximately 6 gallons of water; sampled at 1430

# PARSONS

## GROUNDWATER SAMPLING RECORD

**SITE NAME:** Con Edison (Farrington Street)
**PROJECT NUMBER:** 449045-01000
**Purge Date:** 6-10-15
**Sampling Date:** 6-10-15
**Samplers:** Zohar Lavy of Parsons / Somerset, NJ

**SAMPLE ID:** MW-17
**Sampling Method:** Low flow purge (Monsoon Pump)

**WELL PURGING**

Static Water Level (TOC): 15.28
Depth to Well Bottom (TOC): 22.75

| **CALCULATIONS:** | Ft. of Water in Well | | X (GAL / FT) = | | Gallons |
|---|---|---|---|---|---|
| **2-inch Casing:** | Ft. of Water in Wel | 7.47 | x 0.16 = | 1.20 | Gallons |
| 3-inch Casing: | Ft. of Water in Well | | x 0.32 = | | Gallons |
| 4-inch Casing: | Ft. of Water in Well | | x 0.64 = | | Gallons |

Method: Low Flow Pump

**SAMPLE DESCRIPTION**

Odor : No odor
Other : Clear

**FIELD TESTS**

| | PURGE | PURGE | PURGE | PURGE | PURGE | PURGE | PURGE | SAMPLE |
|---|---|---|---|---|---|---|---|---|
| Time | 1430 | 1435 | 1440 | 1445 | 1450 | 1455 | 1500 | 1505 |
| Depth To Water (TOC) (ft) | 15.89 | 16.08 | 16.02 | 16.03 | 15.82 | 15.63 | 15.65 | 15.68 |
| Depth To Pump (TOC) (ft) | 20.75 | 20.75 | 20.75 | 20.75 | 20.75 | 20.75 | 20.75 | 20.75 |
| Flow Rate (ml/min) | ~500 | ~500 | ~500 | ~500 | ~400 | ~350 | ~350 | ~350 |
| Volume of Water Purged | ~1.0 | ~2.0 | ~2.75 | ~3.75 | ~4.25 | ~5.0 | ~5.5 | ~6.0 |
| pH (s.u.) | 6.62 | 6.66 | 6.63 | 6.61 | 6.63 | 6.61 | 6.61 | 6.61 |
| Conductivity (mS/cm) | 3.39 | 3.32 | 3.13 | 2.98 | 2.74 | 2.8 | 2.82 | 2.84 |
| Turbidity (NTUs) | 591 | 173 | 100 | 76.5 | 65.4 | 53.3 | 49.9 | 43.1 |
| Dissolved Oxygen (mg/L) | 3.55 | 3.26 | 2.86 | 2.61 | 2.58 | 2.53 | 2.46 | 2.39 |
| Temperature (Degrees C) | 15.83 | 15.89 | 16.04 | 16.01 | 15.82 | 15.78 | 15.77 | 15.82 |
| ORP (mV) | -90 | -93 | -95 | -98 | -102 | -103 | -103 | -104 |
| Salinity (%) | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 |
| TDS (g/L) | 2.02 | 2.02 | 1.97 | 1.97 | 1.97 | 1.97 | 1.97 | 1.97 |

**SAMPLE ANALYSIS / LABORATORY**

Analyze For: TCL VOC's / SVOC's, TAL Metals, Total Cyanide

Shipped Via: Chemtech
Laboratory

Other Notes: Purged approximately 6 gallons of water; sampled at 1505

# PARSONS

## GROUNDWATER SAMPLING RECORD

**SITE NAME:** Con Edison (Farrington Street)
**PROJECT NUMBER:** 449045-01000
**Purge Date:** 6-9-15
**Sampling Date:** 6-9-15
**Samplers:** Zohar Lavy of Parsons / Somerset, NJ

**SAMPLE ID:** MW-20
**Sampling Method:** Low flow purge (Monsoon Pump)

**WELL PURGING**

Static Water Level (TOC): 16.33
Depth to Well Bottom (TOC): 21.45

| | | | | |
|---|---|---|---|---|
| **CALCULATIONS:** | Ft. of Water in Well | | X (GAL / FT) = | Gallons |
| **2-inch Casing:** | Ft. of Water in Wel | 5.12 | x 0.16 = 0.82 | Gallons |
| 3-inch Casing: | Ft. of Water in Well | | x 0.32 = | Gallons |
| 4-inch Casing: | Ft. of Water in Well | | x 0.64 = | Gallons |

Method: Low Flow Pump

**SAMPLE DESCRIPTION**

Odor : No odor
Other : Clear

**FIELD TESTS**

| | PURGE | PURGE | PURGE | PURGE | PURGE | PURGE | PURGE | SAMPLE |
|---|---|---|---|---|---|---|---|---|
| Time | 1225 | 1230 | 1235 | 1240 | 1245 | 1250 | 1255 | 1300 |
| Depth To Water (TOC) (ft) | 16.40 | 16.40 | 16.40 | 16.41 | 16.42 | 16.42 | 16.42 | 16.40 |
| Depth To Pump (TOC) (ft) | 19.45 | 19.45 | 19.45 | 19.45 | 19.45 | 19.45 | 19.45 | 19.45 |
| Flow Rate (ml/min) | ~350 | ~350 | ~350 | ~350 | ~400 | ~400 | ~350 | ~350 |
| Volume of Water Purged | ~0.5 | ~1.25 | ~1.75 | ~2.25 | ~3.0 | ~3.5 | ~4.25 | ~4.75 |
| pH (s.u.) | 6.13 | 5.91 | 5.89 | 5.90 | 5.91 | 5.91 | 5.91 | 5.92 |
| Conductivity (mS/cm) | 2.37 | 2.46 | 2.42 | 2.4 | 2.38 | 2.39 | 2.39 | 2.4 |
| Turbidity (NTUs) | 281 | 125 | 59.6 | 21.2 | 9.8 | 9.2 | 8.6 | 8.3 |
| Dissolved Oxygen (mg/L) | 16.78 | 3.10 | 2.40 | 1.91 | 1.67 | 1.62 | 1.55 | 1.49 |
| Temperature (Degrees C) | 15.28 | 16.19 | 15.31 | 14.98 | 15.23 | 15.33 | 15.62 | 15.61 |
| ORP (mV) | 66 | 97 | 101 | 102 | 101 | 101 | 101 | 102 |
| Salinity (%) | 1.2 | 1.3 | 1.2 | 1.2 | 1.2 | 1.2 | 1.2 | 1.2 |
| TDS (g/L) | 1.52 | 1.58 | 1.55 | 1.54 | 1.54 | 1.54 | 1.53 | 1.53 |

**SAMPLE ANALYSIS / LABORATORY**

Analyze For: TCL VOC's / SVOC's, TAL Metals, Total Cyanide

Shipped Via: Chemtech
Laboratory

Other Notes: Purged approximately 4.75 gallons of water; sampled at 1300

# PARSONS

## GROUNDWATER SAMPLING RECORD

**SITE NAME:** Con Edison (Farrington Street)
**PROJECT NUMBER:** 449045-01000
**Purge Date:** 6-9-15
**Sampling Date:** 6-9-15
**Samplers:** Zohar Lavy of Parsons / Somerset, NJ

**SAMPLE ID:** MW-21
**Sampling Method:** Low flow purge (Monsoon Pump)

**WELL PURGING**

Static Water Level (TOC): 15.91
Depth to Well Bottom (TOC): 22.10

| | | | | |
|---|---|---|---|---|
| **CALCULATIONS:** | Ft. of Water in Well | | X (GAL / FT) = | Gallons |
| **2-inch Casing:** | Ft. of Water in Wel 6.19 | x 0.16 = | 0.99 | Gallons |
| 3-inch Casing: | Ft. of Water in Well | x 0.32 = | | Gallons |
| 4-inch Casing: | Ft. of Water in Well | x 0.64 = | | Gallons |

Method: Low Flow Pump

**SAMPLE DESCRIPTION**

Odor : No odor
Other : Clear

**FIELD TESTS**

| | PURGE | PURGE | PURGE | PURGE | PURGE | PURGE | PURGE | SAMPLE |
|---|---|---|---|---|---|---|---|---|
| Time | 0900 | 0905 | 0910 | 0915 | 0920 | 0925 | 0930 | 0935 |
| Depth To Water (TOC) (ft) | 16.21 | 16.08 | 16.09 | 16.10 | 16.10 | 16.10 | 16.10 | 16.10 |
| Depth To Pump (TOC) (ft) | 20.10 | 20.10 | 20.10 | 20.10 | 20.10 | 20.10 | 20.10 | 20.10 |
| Flow Rate (ml/min) | ~450 | ~200 | ~200 | ~250 | ~200 | ~250 | ~200 | ~250 |
| Volume of Water Purged | ~0.75 | ~1.25 | ~1.75 | ~2.25 | ~2.5 | ~2.75 | ~3.25 | ~3.5 |
| pH (s.u.) | 6.48 | 6.48 | 6.48 | 6.48 | 6.48 | 6.48 | 6.48 | 6.48 |
| Conductivity (mS/cm) | 4.34 | 4.35 | 4.35 | 4.37 | 4.34 | 4.34 | 4.33 | 4.33 |
| Turbidity (NTUs) | 562 | 317 | 269 | 198 | 102 | 74.5 | 64.1 | 44.6 |
| Dissolved Oxygen (mg/L) | 0.39 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Temperature (Degrees C) | 15.22 | 16.06 | 16.13 | 15.93 | 15.99 | 15.72 | 15.79 | 15.71 |
| ORP (mV) | -106 | -116 | -119 | -123 | -125 | -125 | -126 | -127 |
| Salinity (%) | 2.3 | 2.3 | 2.3 | 2.3 | 2.3 | 2.3 | 2.3 | 2.3 |
| TDS (g/L) | 2.78 | 2.78 | 2.78 | 2.79 | 2.78 | 2.78 | 2.78 | 2.78 |

**SAMPLE ANALYSIS / LABORATORY**

Analyze For: TCL VOC's / SVOC's, TAL Metals, otal Cyanide

Shipped Via: Chemtech
Laboratory

Other Notes: Purged approximately 3.5 gallons of water; sampled at 0935

# PARSONS

## GROUNDWATER SAMPLING RECORD

**SITE NAME:** Con Edison (Farrington Street)
**PROJECT NUMBER:** 449045-01000
**Purge Date:** 6-11-15
**Sampling Date:** 6-11-15
**Samplers:** Zohar Lavy of Parsons / Somerset, NJ

**SAMPLE ID:** MW-25
**Sampling Method:** Low flow purge (Monsoon Pump)

**WELL PURGING**

Static Water Level (TOC): 13.03
Depth to Well Bottom (TOC): 43.41

| | | | | |
|---|---|---|---|---|
| **CALCULATIONS:** | Ft. of Water in Well | | X (GAL / FT) = | Gallons |
| **2-inch Casing:** | Ft. of Water in Wel | 30.38 | x 0.16 = 4.86 | Gallons |
| 3-inch Casing: | Ft. of Water in Well | | x 0.32 = | Gallons |
| 4-inch Casing: | Ft. of Water in Well | | x 0.64 = | Gallons |

Method: Low Flow Pump

**SAMPLE DESCRIPTION**

Odor : No odor
Other : Clear

**FIELD TESTS**

| | PURGE | PURGE | PURGE | PURGE | PURGE | PURGE | PURGE | PURGE |
|---|---|---|---|---|---|---|---|---|
| Time | 1045 | 1050 | 1055 | 1100 | 1105 | 1110 | 1115 | 1120 |
| Depth To Water (TOC) (ft) | 13.28 | 14.03 | 13.96 | 14.03 | 14.25 | 14.37 | 14.28 | 14.43 |
| Depth To Pump (TOC) (ft) | 41.41 | 41.41 | 41.41 | 41.41 | 41.41 | 41.41 | 41.41 | 41.41 |
| Flow Rate (ml/min) | ~400 | ~400 | ~300 | ~250 | ~250 | ~250 | ~200 | ~200 |
| Volume of Water Purged | ~0.75 | ~1.5 | ~2.0 | ~2.25 | ~2.75 | ~3.0 | ~3.25 | ~3.5 |
| pH (s.u.) | 6.18 | 6.13 | 6.12 | 6.12 | 6.12 | 6.12 | 6.15 | 6.18 |
| Conductivity (mS/cm) | 0.655 | 0.66 | 0.661 | 0.66 | 0.66 | 0.658 | 0.66 | 0.665 |
| Turbidity (NTUs) | 327 | 452 | 346 | 277 | 202 | 134 | 101 | 87.6 |
| Dissolved Oxygen (mg/L) | 0.99 | 0.46 | 0.39 | 0.33 | 0.25 | 0.19 | 0.36 | 0.51 |
| Temperature (Degrees C) | 17.92 | 17.21 | 17.21 | 17.56 | 17.58 | 17.49 | 17.00 | 16.95 |
| ORP (mV) | 121 | 108 | 106 | 101 | 99 | 96 | 90 | 87 |
| Salinity (%) | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 |
| TDS (g/L) | 0.418 | 0.423 | 0.424 | 0.421 | 0.42 | 0.419 | 1.423 | 0.425 |

**SAMPLE ANALYSIS / LABORATORY**

Analyze For: TCL VOC's / SVOC's, TAL Metals, Total Cyanide

Shipped Via: Chemtech
Laboratory

Other Notes: Purged approximately 4.4 gallons of water; sampled at 1145
1110-1115 - Cleared out flow through cell

# PARSONS
## GROUNDWATER SAMPLING RECORD

**SITE NAME:** Con Edison (Farrington Street)
**PROJECT NUMBER:** 449045-01000
**Purge Date:** 6-11-15
**Sampling Date:** 6-11-15
**Samplers:** Zohar Lavy of Parsons / Somerset, NJ

**SAMPLE ID:** MW-25
**Sampling Method:** Low flow purge (Monsoon Pump)

**WELL PURGING**

Static Water Level (TOC): 13.03
Depth to Well Bottom (TOC): 43.41

| | | | | |
|---|---|---|---|---|
| **CALCULATIONS:** | Ft. of Water in Well | | X (GAL / FT) = | Gallons |
| **2-inch Casing:** | Ft. of Water in Well 30.38 | x 0.16 = | 4.86 | Gallons |
| 3-inch Casing: | Ft. of Water in Well | x 0.32 = | | Gallons |
| 4-inch Casing: | Ft. of Water in Well | x 0.64 = | | Gallons |

Method: Low Flow Pump

**SAMPLE DESCRIPTION**

Odor : No odor
Other : Clear

**FIELD TESTS**

| | PURGE | PURGE | PURGE | PURGE | SAMPLE |
|---|---|---|---|---|---|
| Time | 1125 | 1130 | 1135 | 1140 | 1145 |
| Depth To Water (TOC) (ft) | 14.58 | 14.73 | 14.96 | 15.15 | 15.33 |
| Depth To Pump (TOC) (ft) | 41.41 | 41.41 | 41.41 | 41.41 | 41.41 |
| Flow Rate (ml/min) | ~200 | ~200 | ~150 | ~150 | ~150 |
| Volume of Water Purged | ~3.75 | ~4.0 | ~4.125 | ~4.25 | ~4.4 |
| pH (s.u.) | 6.15 | 6.15 | 6.15 | 6.15 | 6.16 |
| Conductivity (mS/cm) | 0.653 | 0.653 | 0.655 | 0.656 | 0.657 |
| Turbidity (NTUs) | 82.1 | 74.9 | 64.7 | 53.6 | 48.1 |
| Dissolved Oxygen (mg/L) | 0.78 | 1.42 | 1.00 | 0.97 | 0.92 |
| Temperature (Degrees C) | 17.57 | 17.72 | 17.95 | 18.16 | 18.27 |
| ORP (mV) | 85 | 81 | 76 | 73 | 72 |
| Salinity (%) | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 |
| TDS (g/L) | 0.42 | 0.42 | 0.42 | 0.421 | 4.421 |

**SAMPLE ANALYSIS / LABORATORY**

Analyze For: TCL VOC's / SVOC's, TAL Metals, Total Cyanide

Shipped Via: Chemtech
Laboratory

Other Notes: Purged approximately 4.4 gallons of water; sampled at 1145
1110-1115 - Cleared out flow through cell

# PARSONS

## GROUNDWATER SAMPLING RECORD

**SITE NAME:** Con Edison (Farrington Street)
**PROJECT NUMBER:** 449045-01000
**Purge Date:** 6-9-15
**Sampling Date:** 6-9-15
**Samplers:** Zohar Lavy of Parsons / Somerset, NJ

**SAMPLE ID:** MW-27
**Sampling Method:** Low flow purge (Monsoon Pump)

**WELL PURGING**

Static Water Level (TOC): 12.50
Depth to Well Bottom (TOC): 22.62

| | | | | |
|---|---|---|---|---|
| **CALCULATIONS:** | Ft. of Water in Well | | X (GAL / FT) = | Gallons |
| **2-inch Casing:** | Ft. of Water in Wel | 10.12 | x 0.16 = 1.62 | Gallons |
| 3-inch Casing: | Ft. of Water in Well | | x 0.32 = | Gallons |
| 4-inch Casing: | Ft. of Water in Well | | x 0.64 = | Gallons |

Method: Low Flow Pump

**SAMPLE DESCRIPTION**

Odor : No odor
Other : Clear

**FIELD TESTS**

| | PURGE | PURGE | PURGE | PURGE | PURGE | PURGE | PURGE | PURGE |
|---|---|---|---|---|---|---|---|---|
| Time | 1355 | 1400 | 1405 | 1410 | 1415 | 1420 | 1425 | 1430 |
| Depth To Water (TOC) (ft) | 12.63 | 12.65 | 12.65 | 12.67 | 12.67 | 12.67 | 12.67 | 12.66 |
| Depth To Pump (TOC) (ft) | 20.62 | 20.62 | 20.62 | 20.62 | 20.62 | 20.62 | 20.62 | 20.62 |
| Flow Rate (ml/min) | ~350 | ~350 | ~350 | ~350 | ~300 | ~300 | ~300 | ~300 |
| Volume of Water Purged | ~0.5 | ~1.25 | ~2.0 | ~2.5 | ~3.0 | ~3.5 | ~4.0 | ~4.5 |
| pH (s.u.) | 6.33 | 6.04 | 6.02 | 6.02 | 6.02 | 6.02 | 6.03 | 6.04 |
| Conductivity (mS/cm) | 0.723 | 0.73 | 0.735 | 0.72 | 0.713 | 0.704 | 0.704 | 0.701 |
| Turbidity (NTUs) | 740 | Error | 556 | 464 | 265 | 131 | 75.8 | 57.6 |
| Dissolved Oxygen (mg/L) | 11.09 | 7.07 | 6.10 | 5.61 | 5.03 | 4.88 | 4.62 | 4.31 |
| Temperature (Degrees C) | 19.5 | 17.15 | 17.6 | 17.56 | 17.43 | 17.63 | 17.39 | 17.88 |
| ORP (mV) | 88 | 105 | 109 | 110 | 111 | 107 | 107 | 106 |
| Salinity (%) | 0.4 | 0.4 | 0.4 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 |
| TDS (g/L) | 0.464 | 0.469 | 0.47 | 0.459 | 0.457 | 0.452 | 0.453 | 0.45 |

**SAMPLE ANALYSIS / LABORATORY**

Analyze For: TCL VOC's / SVOC's, TAL Metals, Total Cyanide

Shipped Via: Chemtech
Laboratory

Other Notes: Purged approximately 6.5 gallons of water; sampled at 1450
1415 - 1420 Cleared out flow through cell

# PARSONS

## GROUNDWATER SAMPLING RECORD

**SITE NAME:** Con Edison (Farrington Street)
**PROJECT NUMBER:** 449045-01000
**Purge Date:** 6-9-15
**Sampling Date:** 6-9-15
**Samplers:** Zohar Lavy of Parsons / Somerset, NJ

**SAMPLE ID:** MW-27
**Sampling Method:** Low flow purge (Monsoon Pump)

**WELL PURGING**

Static Water Level (TOC): 12.50
Depth to Well Bottom (TOC): 22.62

| | | | | |
|---|---|---|---|---|
| **CALCULATIONS:** | Ft. of Water in Well | | X (GAL / FT) = | Gallons |
| **2-inch Casing:** | Ft. of Water in Wel | 10.12 | x 0.16 = | 1.62 Gallons |
| 3-inch Casing: | Ft. of Water in Well | | x 0.32 = | Gallons |
| 4-inch Casing: | Ft. of Water in Well | | x 0.64 = | Gallons |

Method: Low Flow Pump

**SAMPLE DESCRIPTION**

Odor : No odor
Other : Clear

**FIELD TESTS**

| | PURGE | PURGE | PURGE | SAMPLE |
|---|---|---|---|---|
| Time | 1435 | 1440 | 1445 | 1450 |
| Depth To Water (TOC) (ft) | 12.67 | 12.66 | 12.67 | 12.66 |
| Depth To Pump (TOC) (ft) | 20.62 | 20.62 | 20.62 | 20.62 |
| Flow Rate (ml/min) | ~300 | ~300 | ~350 | ~350 |
| Volume of Water Purged | ~5.0 | ~5.5 | ~6.0 | ~6.5 |
| pH (s.u.) | 6.04 | 6.04 | 6.04 | 6.04 |
| Conductivity (mS/cm) | 0.706 | 0.704 | 0.703 | 0.704 |
| Turbidity (NTUs) | 57.2 | 52.1 | 47.6 | 42.5 |
| Dissolved Oxygen (mg/L) | 4.24 | 4.19 | 4.13 | 4.08 |
| Temperature (Degrees C) | 18.10 | 18.21 | 18.18 | 18.23 |
| ORP (mV) | 106 | 106 | 106 | 106 |
| Salinity (%) | 0.3 | 0.3 | 0.3 | 0.3 |
| TDS (g/L) | 0.451 | 0.451 | 0.452 | 0.451 |

**SAMPLE ANALYSIS / LABORATORY**

Analyze For: TCL VOC's / SVOC's, TAL Metals, Total Cyanide

Shipped Via: Chemtech
Laboratory

Other Notes: Purged approximately 6.5 gallons of water; sampled at 1450
1415 - 1420 Cleared out flow through cell

# PARSONS

## GROUNDWATER SAMPLING RECORD

**SITE NAME:** Con Edison (Farrington Street)
**PROJECT NUMBER:** 449045-01000
**Purge Date:** 6-11-15
**Sampling Date:** 6-11-15
**Samplers:** Zohar Lavy of Parsons / Somerset, NJ

**SAMPLE ID:** MW-28
**Sampling Method:** Low flow purge (Monsoon Pump)

**WELL PURGING**

Static Water Level (TOC): 13.79
Depth to Well Bottom (TOC): 20.65

| | | | | |
|---|---|---|---|---|
| **CALCULATIONS:** | Ft. of Water in Well | | X (GAL / FT) = | Gallons |
| **2-inch Casing:** | Ft. of Water in Wel | 6.86 | x 0.16 = 1.10 | Gallons |
| 3-inch Casing: | Ft. of Water in Well | | x 0.32 = | Gallons |
| 4-inch Casing: | Ft. of Water in Well | | x 0.64 = | Gallons |

Method: Low Flow Pump

**SAMPLE DESCRIPTION**

Odor : No odor
Other : Clear

**FIELD TESTS**

| | PURGE | PURGE | PURGE | PURGE | PURGE | PURGE | PURGE | PURGE |
|---|---|---|---|---|---|---|---|---|
| Time | 0915 | 0920 | 0925 | 0930 | 0935 | 0940 | 0945 | 0950 |
| Depth To Water (TOC) (ft) | 14.63 | 14.50 | 14.60 | 14.62 | 14.65 | 14.65 | 14.65 | 14.63 |
| Depth To Pump (TOC) (ft) | 18.65 | 18.65 | 18.65 | 18.65 | 18.65 | 18.65 | 18.65 | 18.65 |
| Flow Rate (ml/min) | ~300 | ~250 | ~200 | ~200 | ~200 | ~200 | ~200 | ~200 |
| Volume of Water Purged | ~0.75 | ~1.25 | ~1.5 | ~1.75 | ~2.0 | ~2.25 | ~2.5 | ~2.75 |
| pH (s.u.) | 6.34 | 6.34 | 6.34 | 6.35 | 6.35 | 6.35 | 6.35 | 6.35 |
| Conductivity (mS/cm) | 0.808 | 0.802 | 0.797 | 0.794 | 0.797 | 0.797 | 0.797 | 0.798 |
| Turbidity (NTUs) | 306 | 227 | 125 | 78.5 | 74.2 | 65.1 | 59.7 | 52.6 |
| Dissolved Oxygen (mg/L) | 2.24 | 1.45 | 0.85 | 0.53 | 0.59 | 0.55 | 0.50 | 0.47 |
| Temperature (Degrees C) | 18.76 | 18.78 | 18.55 | 18.66 | 18.67 | 18.63 | 18.47 | 18.23 |
| ORP (mV) | 180 | 178 | 172 | 167 | 164 | 161 | 158 | 156 |
| Salinity (%) | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 |
| TDS (g/L) | 0.516 | 0.512 | 0.51 | 0.508 | 0.510 | 0.510 | 0.511 | 0.511 |

**SAMPLE ANALYSIS / LABORATORY**

Analyze For: TCL VOC's / SVOC's, TAL Metals, Total Cyanide

Shipped Via: Chemtech
Laboratory

Other Notes: Purged approximately 3 gallons of water; sampled at 0955

# PARSONS

## GROUNDWATER SAMPLING RECORD

**SITE NAME:** Con Edison (Farrington Street)
**PROJECT NUMBER:** 449045-01000
**Purge Date:** 6-11-15
**Sampling Date:** 6-11-15
**Samplers:** Zohar Lavy of Parsons / Somerset, NJ

**SAMPLE ID:** MW-28
**Sampling Method:** Low flow purge (Monsoon Pump)

**WELL PURGING**

Static Water Level (TOC): 13.79
Depth to Well Bottom (TOC): 20.65

| **CALCULATIONS:** | Ft. of Water in Well | | X (GAL / FT) = | | Gallons |
|---|---|---|---|---|---|
| **2-inch Casing:** | Ft. of Water in Wel | 6.86 | x 0.16 = | 1.10 | Gallons |
| 3-inch Casing: | Ft. of Water in Well | | x 0.32 = | | Gallons |
| 4-inch Casing: | Ft. of Water in Well | | x 0.64 = | | Gallons |

Method: Low Flow Pump

**SAMPLE DESCRIPTION**

Odor : No odor
Other : Clear

**FIELD TESTS**

| | SAMPLE |
|---|---|
| Time | 0955 |
| Depth To Water (TOC) (ft) | 14.60 |
| Depth To Pump (TOC) (ft) | 18.65 |
| Flow Rate (ml/min) | ~200 |
| Volume of Water Purged | ~3.0 |
| pH (s.u.) | 6.35 |
| Conductivity (mS/cm) | 0.797 |
| Turbidity (NTUs) | 45.9 |
| Dissolved Oxygen (mg/L) | 0.43 |
| Temperature (Degrees C) | 18.43 |
| ORP (mV) | 154 |
| Salinity (%) | 0.4 |
| TDS (g/L) | 0.510 |

**SAMPLE ANALYSIS / LABORATORY**

Analyze For: TCL VOC's / SVOC's, TAL Metals, Total Cyanide

Shipped Via: Chemtech
Laboratory

Other Notes: Purged approximately 3 gallons of water; sampled at 0955

# PARSONS

## GROUNDWATER SAMPLING RECORD

**SITE NAME:** Con Edison (Farrington Street)
**PROJECT NUMBER:** 449045-01000
**Purge Date:** 6-11-15
**Sampling Date:** 6-11-15
**Samplers:** Zohar Lavy of Parsons / Somerset, NJ

**SAMPLE ID:** MW-30
**Sampling Method:** Low flow purge (Monsoon Pump)

**WELL PURGING**

Static Water Level (TOC): 16.65
Depth to Well Bottom (TOC): 32.85

**CALCULATIONS:** Ft. of Water in Well ____ X (GAL / FT) = ____ Gallons
**2-inch Casing:** Ft. of Water in Well 16.20 x 0.16 = 2.59 Gallons
3-inch Casing: Ft. of Water in Well ____ x 0.32 = ____ Gallons
4-inch Casing: Ft. of Water in Well ____ x 0.64 = ____ Gallons
Method: Low Flow Pump

**SAMPLE DESCRIPTION**

Odor : Slight hydrocarbon odor
Other : Clear

**FIELD TESTS**

| | PURGE | PURGE | PURGE | PURGE | PURGE | PURGE | PURGE | PURGE |
|---|---|---|---|---|---|---|---|---|
| Time | 1225 | 1230 | 1235 | 1240 | 1245 | 1250 | 1255 | 1300 |
| Depth To Water (TOC) (ft) | 16.75 | 16.78 | 16.78 | 16.75 | 16.67 | 16.67 | 16.67 | 16.67 |
| Depth To Pump (TOC) (ft) | 30.85 | 30.85 | 30.85 | 30.85 | 30.85 | 30.85 | 30.85 | 30.85 |
| Flow Rate (ml/min) | ~300 | ~500 | ~500 | ~450 | ~400 | ~350 | ~300 | ~300 |
| Volume of Water Purged | ~0.5 | ~1.5 | ~2.5 | ~3.0 | ~3.75 | ~4.25 | ~4.75 | ~5.5 |
| pH (s.u.) | 6.73 | 7.07 | 7.12 | 7.10 | 7.13 | 6.99 | 7.2 | 7.18 |
| Conductivity (mS/cm) | 2.08 | 2.10 | 1.86 | 1.91 | 2.01 | 2.02 | 2.02 | 2.00 |
| Turbidity (NTUs) | 562 | 879 | Error | Error | 869 | 580 | 376 | 336 |
| Dissolved Oxygen (mg/L) | 12.62 | 5.32 | 2.77 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Temperature (Degrees C) | 20.6 | 16.39 | 17.10 | 16.77 | 16.73 | 16.78 | 16.59 | 16.65 |
| ORP (mV) | -57 | -115 | -126 | -130 | -137 | -114 | -132 | -138 |
| Salinity (%) | 1.10 | 1.10 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| TDS (g/L) | 1.34 | 1.34 | 1.17 | 1.23 | 1.28 | 1.3 | 1.3 | 1.29 |

**SAMPLE ANALYSIS / LABORATORY**

Analyze For: TCL VOC's / SVOC's, TAL Metals, Total Cyanide

Shipped Via: Chemtech
Laboratory

Other Notes: Purged approximately 9 gallons of water; sampled at 1330

# PARSONS

## GROUNDWATER SAMPLING RECORD

**SITE NAME:** Con Edison (Farrington Street)
**PROJECT NUMBER:** 449045-01000
**Purge Date:** 6-11-15
**Sampling Date:** 6-11-15
**Samplers:** Zohar Lavy of Parsons / Somerset, NJ

**SAMPLE ID:** MW-30
**Sampling Method:** Low flow purge (Monsoon Pump)

**WELL PURGING**

Static Water Level (TOC): 16.65
Depth to Well Bottom (TOC): 32.85

| | | | | |
|---|---|---|---|---|
| **CALCULATIONS:** | Ft. of Water in Well | | X (GAL / FT) = | Gallons |
| **2-inch Casing:** | Ft. of Water in Well 16.20 | x 0.16 = | 2.59 | Gallons |
| 3-inch Casing: | Ft. of Water in Well | x 0.32 = | | Gallons |
| 4-inch Casing: | Ft. of Water in Well | x 0.64 = | | Gallons |

Method: Low Flow Pump

**SAMPLE DESCRIPTION**

Odor : Slight hydrocarbon odor
Other : Clear

**FIELD TESTS**

| | PURGE | PURGE | PURGE | PURGE | PURGE | SAMPLE |
|---|---|---|---|---|---|---|
| Time | 1305 | 1310 | 1315 | 1320 | 1325 | 1330 |
| Depth To Water (TOC) (ft) | 16.67 | 16.67 | 16.67 | 16.67 | 16.67 | 16.67 |
| Depth To Pump (TOC) (ft) | 30.85 | 30.85 | 30.85 | 30.85 | 30.85 | 30.85 |
| Flow Rate (ml/min) | ~300 | ~300 | ~300 | ~300 | ~300 | ~300 |
| Volume of Water Purged | ~6.25 | ~7.0 | ~7.5 | ~8.0 | ~8.5 | ~9.0 |
| pH (s.u.) | 7.17 | 7.15 | 7.16 | 7.17 | 7.19 | 7.21 |
| Conductivity (mS/cm) | 2.00 | 1.97 | 1.99 | 2.00 | 2.01 | 2.02 |
| Turbidity (NTUs) | 279 | 228 | 107 | 77.3 | 58.2 | 47.3 |
| Dissolved Oxygen (mg/L) | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Temperature (Degrees C) | 17.69 | 17.76 | 17.83 | 17.95 | 17.97 | 17.99 |
| ORP (mV) | -145 | -150 | -153 | -155 | -156 | -158 |
| Salinity (%) | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |
| TDS (g/L) | 1.27 | 1.27 | 1.28 | 1.28 | 1.28 | 1.28 |

**SAMPLE ANALYSIS / LABORATORY**

Analyze For: TCL VOC's / SVOC's, TAL Metals, Total Cyanide

Shipped Via: Chemtech
Laboratory

Other Notes: Purged approximately 9 gallons of water; sampled at 1330

# PARSONS

## GROUNDWATER SAMPLING RECORD

**SITE NAME:** Con Edison (Farrington Street)
**PROJECT NUMBER:** 449045-01000
**Purge Date:** 6-10-15
**Sampling Date:** 6-10-15
**Samplers:** Zohar Lavy of Parsons / Somerset, NJ

**SAMPLE ID:** CMW-36
**Sampling Method:** Low flow purge (Monsoon Pump)

**WELL PURGING**

Static Water Level (TOC): 13.78
Depth to Well Bottom (TOC): 23.00

| | | | | |
|---|---|---|---|---|
| **CALCULATIONS:** | Ft. of Water in Well | | X (GAL / FT) = | Gallons |
| **2-inch Casing:** | Ft. of Water in Well | 9.22 | x 0.16 = | 1.48 Gallons |
| 3-inch Casing: | Ft. of Water in Well | | x 0.32 = | Gallons |
| 4-inch Casing: | Ft. of Water in Well | | x 0.64 = | Gallons |

Method: Low Flow Pump

**SAMPLE DESCRIPTION**

Odor : No odor
Other : Clear

**FIELD TESTS**

| | PURGE | PURGE | PURGE | PURGE | PURGE | PURGE | PURGE | PURGE |
|---|---|---|---|---|---|---|---|---|
| Time | 0925 | 0930 | 0935 | 0940 | 0945 | 0950 | 0955 | 1000 |
| Depth To Water (TOC) (ft) | 13.85 | 13.85 | 13.80 | 13.80 | 13.81 | 13.81 | 13.81 | 13.81 |
| Depth To Pump (TOC) (ft) | 21.00 | 21.00 | 21.00 | 21.00 | 21.00 | 21.00 | 21.00 | 21.00 |
| Flow Rate (ml/min) | ~500 | ~400 | ~300 | ~300 | ~350 | ~300 | ~300 | ~300 |
| Volume of Water Purged | ~0.75 | 1.50 | ~2.0 | ~2.5 | ~3.0 | ~3.5 | ~4.0 | ~4.5 |
| pH (s.u.) | 6.31 | 6.11 | 6.08 | 6.08 | 6.08 | 6.08 | 6.08 | 6.09 |
| Conductivity (mS/cm) | 8.55 | 8.54 | 8.72 | 8.8 | 8.87 | 8.87 | 8.87 | 8.84 |
| Turbidity (NTUs) | Error | Error | 971 | 545 | 208 | 123 | 103 | 56.8 |
| Dissolved Oxygen (mg/L) | 10.71 | 1.80 | 1.71 | 1.26 | 1.11 | 0.87 | 0.83 | 0.77 |
| Temperature (Degrees C) | 13.7 | 13.52 | 13.84 | 13.68 | 13.64 | 13.76 | 13.98 | 13.78 |
| ORP (mV) | 174 | 180 | 182 | 182 | 181 | 180 | 178 | 175 |
| Salinity (%) | 4.7 | 4.7 | 4.8 | 4.9 | 4.9 | 4.9 | 4.9 | 4.9 |
| TDS (g/L) | 5.38 | 5.39 | 5.5 | 5.55 | 5.59 | 5.59 | 5.59 | 5.57 |

**SAMPLE ANALYSIS / LABORATORY**

Analyze For: TCL VOC's / SVOC's, TAL Metals, Total Cyanide

Shipped Via: Chemtech
Laboratory

Other Notes: Purged approximately 5 gallons of water; sampled at 1005

# PARSONS

## GROUNDWATER SAMPLING RECORD

**SITE NAME:** Con Edison (Farrington Street)
**PROJECT NUMBER:** 449045-01000
**Purge Date:** 6-10-15
**Sampling Date:** 6-10-15
**Samplers:** Zohar Lavy of Parsons / Somerset, NJ

**SAMPLE ID:** CMW-36
**Sampling Method:** Low flow purge (Monsoon Pump)

**WELL PURGING**

Static Water Level (TOC): 13.78
Depth to Well Bottom (TOC): 23.00

| | | | | | |
|---|---|---|---|---|---|
| **CALCULATIONS:** | Ft. of Water in Well | | X (GAL / FT) = | | Gallons |
| **2-inch Casing:** | Ft. of Water in Well | 9.22 | x 0.16 = | 1.48 | Gallons |
| 3-inch Casing: | Ft. of Water in Well | | x 0.32 = | | Gallons |
| 4-inch Casing: | Ft. of Water in Well | | x 0.64 = | | Gallons |

Method: Low Flow Pump

**SAMPLE DESCRIPTION**

Odor : No odor
Other : Clear

**FIELD TESTS**

| | SAMPLE |
|---|---|
| Time | 1005 |
| Depth To Water (TOC) (ft) | 13.81 |
| Depth To Pump (TOC) (ft) | 21.00 |
| Flow Rate (ml/min) | ~300 |
| Volume of Water Purged | ~5.0 |
| pH (s.u.) | 6.09 |
| Conductivity (mS/cm) | 8.82 |
| Turbidity (NTUs) | 41.3 |
| Dissolved Oxygen (mg/L) | 0.73 |
| Temperature (Degrees C) | 13.82 |
| ORP (mV) | 172 |
| Salinity (%) | 4.9 |
| TDS (g/L) | 5.57 |

**SAMPLE ANALYSIS / LABORATORY**

Analyze For: TCL VOC's / SVOC's, TAL Metals, Total Cyanide

Shipped Via: Chemtech
Laboratory

Other Notes: Purged approximately 6 gallons of water; sampled at 1505

# PARSONS

## GROUNDWATER SAMPLING RECORD

**SITE NAME:** Con Edison (Farrington Street)
**PROJECT NUMBER:** 449045-01000
**Purge Date:** 6-10-15
**Sampling Date:** 6-10-15
**Samplers:** Zohar Lavy of Parsons / Somerset, NJ

**SAMPLE ID:** CMW-37
**Sampling Method:** Low flow purge (Monsoon Pump)

**WELL PURGING**

Static Water Level (TOC): 13.75
Depth to Well Bottom (TOC): 20.50

| | | | | |
|---|---|---|---|---|
| **CALCULATIONS:** | Ft. of Water in Well | | X (GAL / FT) = | Gallons |
| **2-inch Casing:** | Ft. of Water in Wel | 6.75 | x 0.16 = 1.08 | Gallons |
| 3-inch Casing: | Ft. of Water in Well | | x 0.32 = | Gallons |
| 4-inch Casing: | Ft. of Water in Well | | x 0.64 = | Gallons |

Method: Low Flow Pump

**SAMPLE DESCRIPTION**

Odor : Slight Hydrocarbon odor
Other : Clear

**FIELD TESTS**

| | PURGE | PURGE | PURGE | PURGE | PURGE | PURGE | PURGE | SAMPLE |
|---|---|---|---|---|---|---|---|---|
| Time | 1100 | 1105 | 1110 | 1115 | 1120 | 1125 | 1130 | 1135 |
| Depth To Water (TOC) (ft) | 14.35 | 14.35 | 14.35 | 14.35 | 14.35 | 14.35 | 14.35 | 14.35 |
| Depth To Pump (TOC) (ft) | 18.50 | 18.50 | 18.50 | 18.50 | 18.50 | 18.50 | 18.50 | 18.50 |
| Flow Rate (ml/min) | ~500 | ~400 | ~400 | ~300 | ~300 | ~350 | ~350 | ~350 |
| Volume of Water Purged | ~0.75 | ~1.5 | ~2.25 | ~2.75 | ~3.25 | ~3.75 | ~4.25 | ~4.75 |
| pH (s.u.) | 6.53 | 6.53 | 6.52 | 6.50 | 6.52 | 6.57 | 6.59 | 6.60 |
| Conductivity (mS/cm) | 3.69 | 3.69 | 3.67 | 3.67 | 3.67 | 3.66 | 3.65 | 3.65 |
| Turbidity (NTUs) | 472 | 291 | 90.6 | 48.2 | 42.1 | 39.6 | 35.3 | 30.2 |
| Dissolved Oxygen (mg/L) | 9.01 | 7.67 | 4.32 | 3.73 | 2.33 | 2.19 | 2.08 | 1.97 |
| Temperature (Degrees C) | 15.24 | 15.42 | 15.46 | 15.71 | 15.77 | 15.75 | 15.83 | 15.80 |
| ORP (mV) | -98 | -107 | -116 | -118 | -115 | -113 | -110 | -109 |
| Salinity (%) | 1.9 | 1.9 | 1.9 | 1.9 | 1.9 | 1.9 | 1.9 | 1.9 |
| TDS (g/L) | 2.36 | 2.36 | 2.35 | 2.35 | 2.34 | 2.34 | 2.34 | 2.34 |

**SAMPLE ANALYSIS / LABORATORY**

Analyze For: TCL VOC's / SVOC's, TAL Metals, Total Cyanide

Shipped Via: Chemtech
Laboratory

Other Notes: Purged approximately 4.75 gallons of water; sampled at 1135

# PARSONS

## GROUNDWATER SAMPLING RECORD

**SITE NAME:** Con Edison (Farrington Street)
**PROJECT NUMBER:** 449045-01000
**Purge Date:** 6-9-15
**Sampling Date:** 6-9-15
**Samplers:** Zohar Lavy of Parsons / Somerset, NJ

**SAMPLE ID:** CMW-40
**Sampling Method:** Low flow purge (Monsoon Pump)

**WELL PURGING**

Static Water Level (TOC): 17.00
Depth to Well Bottom (TOC): 23.45

| | | | | |
|---|---|---|---|---|
| **CALCULATIONS:** | Ft. of Water in Well | | X (GAL / FT) = | Gallons |
| **2-inch Casing:** | Ft. of Water in Wel | 6.45 | x 0.16 = 1.03 | Gallons |
| 3-inch Casing: | Ft. of Water in Well | | x 0.32 = | Gallons |
| 4-inch Casing: | Ft. of Water in Well | | x 0.64 = | Gallons |

Method: Low Flow Pump

**SAMPLE DESCRIPTION**

Odor : Slight Hydrocarbon Odor
Other : Clear

**FIELD TESTS**

| | PURGE | PURGE | PURGE | PURGE | PURGE | PURGE | PURGE | PURGE |
|---|---|---|---|---|---|---|---|---|
| Time | 1020 | 1025 | 1030 | 1035 | 1040 | 1045 | 1050 | 1055 |
| Depth To Water (TOC) (ft) | 17.10 | 17.10 | 17.10 | 1.05 | 17.05 | 17.05 | 17.05 | 17.05 |
| Depth To Pump (TOC) (ft) | 21.45 | 21.45 | 21.45 | 21.45 | 21.45 | 21.45 | 21.45 | 21.45 |
| Flow Rate (ml/min) | ~400 | ~400 | ~400 | ~350 | ~300 | ~350 | ~350 | ~350 |
| Volume of Water Purged | ~0.75 | `1.5 | ~2.25 | ~2.5 | ~3.0 | ~3.5 | ~4.0 | ~4.5 |
| pH (s.u.) | 6.71 | 6.65 | 6.66 | 6.67 | 6.67 | 6.67 | 6.68 | 6.68 |
| Conductivity (mS/cm) | 3.1 | 2.87 | 2.41 | 2.84 | 2.82 | 2.79 | 2.77 | 2.75 |
| Turbidity (NTUs) | 176 | 377 | 285 | 251 | 199 | 191 | 172 | 164 |
| Dissolved Oxygen (mg/L) | 15.54 | 15.98 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Temperature (Degrees C) | 15.74 | 15.02 | 16.14 | 16.13 | 16.02 | 15.87 | 15.89 | 15.95 |
| ORP (mV) | -96 | -111 | -114 | -120 | -120 | -119 | -119 | -119 |
| Salinity (%) | 1.6 | 1.5 | 1.5 | 1.5 | 1.5 | 1.4 | 1.4 | 1.4 |
| TDS (g/L) | 1.98 | 1.84 | 1.83 | 1.81 | 1.80 | 1.80 | 1.78 | 1.77 |

**SAMPLE ANALYSIS / LABORATORY**

Analyze For: TCL VOC's / SVOC's, TAL Metals, Total Cyanide

Shipped Via: Chemtech
Laboratory

Other Notes: Purged approximately 7.5 gallons of water; sampled at 1125

# PARSONS

## GROUNDWATER SAMPLING RECORD

**SITE NAME:** Con Edison (Farrington Street)
**PROJECT NUMBER:** 449045-01000
**Purge Date:** 6-9-15
**Sampling Date:** 6-9-15
**Samplers:** Zohar Lavy of Parsons / Somerset, NJ

**SAMPLE ID:** CMW-40
**Sampling Method:** Low flow purge (Monsoon Pump)

**WELL PURGING**

Static Water Level (TOC): 17.00
Depth to Well Bottom (TOC): 23.45

| | | | | |
|---|---|---|---|---|
| **CALCULATIONS:** | Ft. of Water in Well | | X (GAL / FT) = | Gallons |
| **2-inch Casing:** | Ft. of Water in Wel | 6.45 | x 0.16 = 1.03 | Gallons |
| 3-inch Casing: | Ft. of Water in Well | | x 0.32 = | Gallons |
| 4-inch Casing: | Ft. of Water in Well | | x 0.64 = | Gallons |

Method: Low Flow Pump

**SAMPLE DESCRIPTION**

Odor : Slight Hydrocarbon Odor
Other : Clear

**FIELD TESTS**

| | PURGE | PURGE | PURGE | PURGE | PURGE | SAMPLE |
|---|---|---|---|---|---|---|
| Time | 1100 | 1105 | 1110 | 1115 | 1120 | 1125 |
| Depth To Water (TOC) (ft) | 17.05 | 17.05 | 17.05 | 17.07 | 17.07 | 17.07 |
| Depth To Pump (TOC) (ft) | 21.45 | 21.45 | 21.45 | 21.45 | 21.45 | 21.45 |
| Flow Rate (ml/min) | ~300 | ~300 | ~300 | ~350 | ~350 | ~350 |
| Volume of Water Purged | ~5.0 | ~5.5 | ~6.0 | ~6.5 | ~7.0 | ~7.5 |
| pH (s.u.) | 6.68 | 6.68 | 6.68 | 6.69 | 6.69 | 6.69 |
| Conductivity (mS/cm) | 2.75 | 2.73 | 2.73 | 2.72 | 2.72 | 2.71 |
| Turbidity (NTUs) | 89.2 | 73.6 | 55.7 | 42.1 | 34.3 | 29.2 |
| Dissolved Oxygen (mg/L) | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Temperature (Degrees C) | 15.92 | 15.73 | 15.85 | 15.91 | 15.93 | 15.92 |
| ORP (mV) | -119 | -119 | -120 | -120 | -120 | -121 |
| Salinity (%) | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 |
| TDS (g/L) | 1.77 | 1.77 | 1.78 | 1.78 | 1.78 | 1.78 |

**SAMPLE ANALYSIS / LABORATORY**

Analyze For: TCL VOC's / SVOC's, TAL Metals, Total Cyanide

Shipped Via: Chemtech
Laboratory

Other Notes: Purged approximately 7.5 gallons of water; sampled at 1125

# PARSONS

## GROUNDWATER SAMPLING RECORD

**SITE NAME:** Con Edison (Farrington Street)
**PROJECT NUMBER:** 449045-01000
**Purge Date:** 6-8-15
**Sampling Date:** 6-8-15
**Samplers:** Zohar Lavy of Parsons / Somerset, NJ

**SAMPLE ID:** MW-41
**Sampling Method:** Low flow purge (Monsoon Pump)

**WELL PURGING**

Static Water Level (TOC): 4.13
Depth to Well Bottom (TOC): 12.76

| | | | | |
|---|---|---|---|---|
| **CALCULATIONS:** | Ft. of Water in Well | | X (GAL / FT) = | Gallons |
| **2-inch Casing:** | Ft. of Water in Wel | 8.63 | x 0.16 = 1.38 | Gallons |
| 3-inch Casing: | Ft. of Water in Well | | x 0.32 = | Gallons |
| 4-inch Casing: | Ft. of Water in Well | | x 0.64 = | Gallons |

Method: Low Flow Pump

**SAMPLE DESCRIPTION**

Odor : No odor
Other : Clear

**FIELD TESTS**

| | PURGE | PURGE | PURGE | PURGE | PURGE | PURGE | PURGE | SAMPLE |
|---|---|---|---|---|---|---|---|---|
| Time | 1405 | 1410 | 1415 | 1420 | 1425 | 1430 | 1435 | 1440 |
| Depth To Water (TOC) (ft) | 4.57 | 4.52 | 4.52 | 4.52 | 4.52 | 4.53 | 4.52 | 4.50 |
| Depth To Pump (TOC) (ft) | 10.76 | 10.76 | 10.76 | 10.76 | 10.76 | 10.76 | 10.76 | 10.76 |
| Flow Rate (ml/min) | ~500 | ~400 | ~400 | ~400 | ~400 | ~400 | ~300 | ~300 |
| Volume of Water Purged | ~1.0 | ~1.75 | ~2.5 | ~3.25 | ~3.75 | ~4.25 | ~4.75 | ~5.25 |
| pH (s.u.) | 6.80 | 6.85 | 6.82 | 6.83 | 6.81 | 6.80 | 6.8 | 6.79 |
| Conductivity (mS/cm) | 23 | 25.5 | 24.9 | 24.7 | 24.8 | 24.8 | 24.9 | 25 |
| Turbidity (NTUs) | 610 | 232 | 165 | 100 | 62.7 | 53.6 | 48.2 | 30.7 |
| Dissolved Oxygen (mg/L) | 9.98 | 3.54 | 1.73 | 0.10 | 0.00 | 0.00 | 0.00 | 0.00 |
| Temperature (Degrees C) | 17.30 | 18.07 | 18.08 | 18.09 | 17.39 | 17.34 | 17.60 | 17.53 |
| ORP (mV) | -102 | -142 | -149 | -153 | -154 | -155 | -156 | -157 |
| Salinity (%) | 15.8 | 15.5 | 15.2 | 15.1 | 15.1 | 15.1 | 15.1 | 15.1 |
| TDS (g/L) | 16.1 | 15.8 | 15.6 | 15.4 | 15.4 | 15.4 | 15.5 | 15.5 |

**SAMPLE ANALYSIS / LABORATORY**

Analyze For: TCL VOC's / SVOC's, TAL Metals, TAL Metals Dissolved, Total Cyanide

Shipped Via: Chemtech
Laboratory

Other Notes: Purged approximately 5.25 gallons of water; sampled at 1440

# PARSONS
## GROUNDWATER SAMPLING RECORD

**SITE NAME:** Con Edison (Farrington Street)
**PROJECT NUMBER:** 449045-01000
**Purge Date:** 6-9-15
**Sampling Date:** 6-9-15
**Samplers:** Zohar Lavy of Parsons / Somerset, NJ

**SAMPLE ID:** MW-CSB-60
**Sampling Method:** Low flow purge (Monsoon Pump)

**WELL PURGING**

Static Water Level (TOC): 5.69
Depth to Well Bottom (TOC): 15.10

| | | | | |
|---|---|---|---|---|
| **CALCULATIONS:** | Ft. of Water in Well | | X (GAL / FT) = | Gallons |
| **2-inch Casing:** | Ft. of Water in Well 9.41 | x 0.16 = | 1.51 | Gallons |
| 3-inch Casing: | Ft. of Water in Well | x 0.32 = | | Gallons |
| 4-inch Casing: | Ft. of Water in Well | x 0.64 = | | Gallons |

Method: Low Flow Pump

**SAMPLE DESCRIPTION**

Odor : No Odor
Other : Clear

**FIELD TESTS**

| | PURGE | PURGE | PURGE | PURGE | PURGE | PURGE | PURGE | SAMPLE |
|---|---|---|---|---|---|---|---|---|
| Time | 0725 | 0730 | 0735 | 0740 | 0745 | 0750 | 0755 | 0800 |
| Depth To Water (TOC) (ft) | 5.72 | 5.72 | 5.72 | 5.72 | 5.72 | 5.72 | 5.72 | 5.73 |
| Depth To Pump (TOC) (ft) | 13.10 | 13.10 | 13.10 | 13.10 | 13.10 | 13.10 | 13.10 | 13.10 |
| Flow Rate (ml/min) | ~300 | ~400 | ~450 | ~450 | ~400 | ~450 | ~400 | ~450 |
| Volume of Water Purged | ~0.5 | ~1.25 | ~2.0 | ~2.75 | ~3.25 | ~3.75 | ~4.5 | ~5.25 |
| pH (s.u.) | 6.59 | 6.57 | 6.56 | 6.56 | 6.56 | 6.56 | 6.56 | 6.56 |
| Conductivity (mS/cm) | 5.39 | 5.37 | 5.37 | 5.36 | 5.35 | 5.35 | 5.35 | 5.35 |
| Turbidity (NTUs) | 154 | 44.1 | 55.8 | 17.9 | 12.4 | 11.5 | 10.7 | 9.7 |
| Dissolved Oxygen (mg/L) | 8.03 | 4.05 | 2.59 | 1.79 | 1.18 | 1.13 | 1.08 | 1.05 |
| Temperature (Degrees C) | 16.16 | 15.18 | 15.53 | 15.66 | 15.75 | 15.74 | 15.83 | 15.85 |
| ORP (mV) | -141 | -140 | -141 | -141 | -142 | -142 | -142 | -142 |
| Salinity (%) | 2.9 | 2.9 | 2.9 | 2.9 | 2.9 | 2.9 | 2.9 | 2.9 |
| TDS (g/L) | 3.41 | 3.38 | 3.38 | 3.38 | 3.37 | 3.36 | 3.36 | 3.36 |

**SAMPLE ANALYSIS / LABORATORY**

Analyze For: TCL VOC's / SVOC's, TAL Metals, TAL Metals Dissolved, Total Cyanide

Shipped Via: Chemtech
Laboratory

Other Notes: Purged approximately 5.25 gallons of water; sampled at 0800

# APPENDIX C

# SOIL GAS LABORATORY ANALYTICAL REPORT


Air
Toxics LTD.
Laboratory Services Since 1989
Electronic Comprehensive Validation Package (eCVP)

AN ENVIRONMENTAL ANALYTICAL LABORATORY

# COMPREHENSIVE VALIDATION PACKAGE

Modified TO-15

INVENTORY SHEET

Work Order #: 1108582

| | Page Nos. | |
|---|---|---|
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| 1. Work Order Cover Page & Laboratory Narrative | 1 | 4 |
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| 2. Sample Results and Raw Data (Organized by Sample) | 5 | 393 |
| a. ATL Sample Results Form | | |
| b. Target Compound Raw Data | | |
| -Internal Standard Area and Retention Time Summary | | |
| -Surrogate Recovery Summary (If Applicable) | | |
| -Chromatogram(s) and Ion Profiles (If Applicable) | | |
| 3. QC Results and Raw Data | | |
| a. Method Blank (Results+ Raw Data) | 394 | 410 |
| b. Surrogate Recover Summary Form (If Applicable) | 411 | 411 |
| c. Internal Standard Summary Form (If Applicable) | 412 | 413 |
| d. Duplicate Results Summary Sheet | 414 | 417 |
| e. Matrix Spike/Matrix Spike Duplicate (Results + Raw Data | -- | -- |
| f. Initial Calibration Data (Summary Sheet + Raw Data) | 418 | 568 |
| g. MDL Study (If Applicable) | -- | -- |
| h. Continuing Calibration Verification Data (Summary Sheet | 569 | 610 |
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| j. Extraction Logs | -- | -- |
| k. Instrument Run Logs/Software Verification | 679 | 682 |
| l. GC/MS Tune (Results + Raw Data) | 683 | 702 |
| 4. Shipping/Receiving Documents | | |
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| b. Chain-of-Custody Records | 705 | 705 |
| c. Sample Log-In Sheet | 706 | 707 |
| d. Misc Shipping/Receiving Records (list of individual records) | | |
| Sample Receipt Discrepancy Report | 708 | 710 |
| 5. Other Records (describe or list) | | |
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| d. Canister Dilution Factors | 718 | 719 |
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| f. CAS Number Reference | 720 | 721 |
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| h. Canister Certification | 722 | 745 |
| i. Data Review Check Sheet | 746 | 746 |

Comments:

Completed by:

| Kara McKiernan | Kara McKiernan / Document Control | 9/19/11 |
|---|---|---|
| (Signature) | ( Print Name & Title) | (Date) |

Air Toxics LTD.
Laboratory Services Since 1989

# WORK ORDER #: 1108582

Work Order Summary

| | | | |
|---|---|---|---|
| **CLIENT:** | Mr. Shane Blauvelt<br>Parsons<br>290 Elwood Davis Road<br>Suite 312<br>Liverpool, NY 13088 | **BILL TO:** | Mr. Shane Blauvelt<br>Parsons<br>290 Elwood Davis Road<br>Suite 312<br>Liverpool, NY 13088 |
| **PHONE:** | 315-451-9560 x2120 | **P.O. #** | |
| **FAX:** | | **PROJECT #** | 446109-03000 Farrington St. |
| **DATE RECEIVED:** | 08/30/2011 | **CONTACT:** | Ausha Scott |
| **DATE COMPLETED:** | 09/13/2011 | | |

| FRACTION # | NAME | TEST | RECEIPT VAC./PRES. | FINAL PRESSURE |
|---|---|---|---|---|
| 01A | SG-6 | Modified TO-15 | 7.5 "Hg | 5 psi |
| 02A | SG-7 | Modified TO-15 | 7.0 "Hg | 5 psi |
| 03A | SG-10 | Modified TO-15 | 6.0 "Hg | 5 psi |
| 04A | SG-8 | Modified TO-15 | 6.0 "Hg | 5 psi |
| 05A | SG-9 | Modified TO-15 | 5.5 "Hg | 5 psi |
| 06A | SG-1 | Modified TO-15 | 6.5 "Hg | 5 psi |
| 07A | SG-2 | Modified TO-15 | 6.0 "Hg | 5 psi |
| 08A | SG-11 | Modified TO-15 | 6.0 "Hg | 5 psi |
| 09A | Lab Blank | Modified TO-15 | NA | NA |
| 09B | Lab Blank | Modified TO-15 | NA | NA |
| 10A | CCV | Modified TO-15 | NA | NA |
| 10B | CCV | Modified TO-15 | NA | NA |
| 11A | LCS | Modified TO-15 | NA | NA |
| 11AA | LCSD | Modified TO-15 | NA | NA |
| 11B | LCS | Modified TO-15 | NA | NA |
| 11BB | LCSD | Modified TO-15 | NA | NA |

CERTIFIED BY: Linda D. Frumarn DATE: 09/13/11

Laboratory Director

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

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

**LABORATORY NARRATIVE**
**Modified TO-15**
**Parsons**
**Workorder# 1108582**

Eight 6 Liter Summa Special (100% Certified) samples were received on August 30, 2011. The laboratory performed analysis via modified EPA Method TO-15 using GC/MS in the full scan mode.

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

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

| ***Requirement*** | ***TO-15*** | ***ATL Modifications*** |
|---|---|---|
| ICAL %RSD acceptance criteria | +- 30% RSD with 2 compounds allowed out to < 40% RSD | 30% RSD with 4 compounds allowed out to < 40% RSD |
| Daily Calibration | +- 30% Difference | </= 30% Difference with four allowed out up to </=40%.; flag and narrate outliers |
| Blank and standards | Zero air | Nitrogen |
| Method Detection Limit | Follow 40CFR Pt.136 App. B | The MDL met all relevant requirements in Method TO-15 (statistical MDL less than the LOQ). The concentration of the spiked replicate may have exceeded 10X the calculated MDL in some cases |
| Sample collection media | Summa canister | ATL recommends use of summa canisters to insure data defensibility, but will report results from Tedlar bags at client request |

## Receiving Notes

There were no receiving discrepancies.

## Analytical Notes

The reported CCV for each daily batch may be derived from more than one analytical file due to the client's request for non-standard compounds.

Non-standard compounds may have different acceptance criteria than the standard TO-14A/TO-15 compound list as per contract or verbal agreement.

All Quality Control Limit exceedences and affected sample results are noted by flags. Each flag is defined at the bottom of this Case Narrative and on each Sample Result Summary page. Target compound non-detects in the samples that are associated with high bias in QC analyses have not been flagged.

Dilution was performed on samples SG-7, SG-10, SG-8, SG-9, SG-1, SG-2 and SG-11 due to the presence of high level target species.

Due to matrix interference in the Total Ion Chromatogram internal standard Chlorobenzene-d5 was not used to calculate concentration of TICs in sample SG-8.

2,2-Dimethylpentane, 2-Methypentane, Indene and Indan are calibrated over a reduced concentration range which is 20 times lower than the standard VOCs in order to effectively target the typical levels measured in samples. The following samples had results for these non-standard compounds at levels above the abbreviated calibration range and were reported with 'E' flags: samples SG-6, SG-7, SG-9 and SG-2 had 2-Methylpentane, samples SG-9 and SG-2 had 2,3-Dimethylpentane, sample SG-7 had Indene and sample SG-9 had Indan. Further dilution to bring these compounds below their upper level was not performed so that the lowest reporting limit was reported for the full list of target compounds.

**Definition of Data Qualifying Flags**

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

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

J - Estimated value.

E - Exceeds instrument calibration range.

S - Saturated peak.

Q - Exceeds quality control limits.

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

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

N - The identification is based on presumptive evidence.

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

a-File was requantified

b-File was quantified by a second column and detector

r1-File was requantified for the purpose of reissue

## Table 1

| Client Sample ID | Lab Sample ID | Date Collected | Date Received | Date Extracted | Sample Holding Time (Days) | Sample Extract Date Analyzed | Sample Extract Holding Time (Days) | Sample Condition |
|---|---|---|---|---|---|---|---|---|
| SG-6 | 1108582-01A | 8/25/2011 | 8/30/2011 | NA | 6 | 8/31/2011 | NA | Good |
| SG-7 | 1108582-02A | 8/25/2011 | 8/30/2011 | NA | 6 | 8/31/2011 | NA | Good |
| SG-10 | 1108582-03A | 8/25/2011 | 8/30/2011 | NA | 6 | 8/31/2011 | NA | Good |
| SG-8 | 1108582-04A | 8/24/2011 | 8/30/2011 | NA | 7 | 8/31/2011 | NA | Good |
| SG-9 | 1108582-05A | 8/24/2011 | 8/30/2011 | NA | 8 | 9/ 1/2011 | NA | Good |
| SG-1 | 1108582-06A | 8/24/2011 | 8/30/2011 | NA | 8 | 9/ 1/2011 | NA | Good |
| SG-2 | 1108582-07A | 8/24/2011 | 8/30/2011 | NA | 7 | 8/31/2011 | NA | Good |
| SG-11 | 1108582-08A | 8/26/2011 | 8/30/2011 | NA | 5 | 8/31/2011 | NA | Good |
| Lab Blank | 1108582-09A | NA | NA | NA | NA | 8/31/2011 | NA | Good |
| Lab Blank | 1108582-09B | NA | NA | NA | NA | 9/ 1/2011 | NA | Good |
| CCV | 1108582-10A | NA | NA | NA | NA | 8/31/2011 | NA | Good |
| CCV | 1108582-10B | NA | NA | NA | NA | 9/ 1/2011 | NA | Good |
| LCS | 1108582-11A | NA | NA | NA | NA | 8/31/2011 | NA | Good |
| LCSD | 1108582-11AA | NA | NA | NA | NA | 8/31/2011 | NA | Good |
| LCS | 1108582-11B | NA | NA | NA | NA | 9/ 1/2011 | NA | Good |
| LCSD | 1108582-11BB | NA | NA | NA | NA | 9/ 1/2011 | NA | Good |

# Sample Results and Raw Data

Air Toxics LTD.
Laboratory Services Since 1989

# Summary of Detected Compounds
# MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

**Client Sample ID: SG-6**

**Lab ID#: 1108582-01A**

| Compound | Rpt. Limit (ppbv) | Amount (ppbv) | Rpt. Limit (ug/m3) | Amount (ug/m3) |
|---|---|---|---|---|
| Freon 12 | 0.18 | 0.42 | 0.88 | 2.1 |
| Chloromethane | 0.18 | 0.58 | 0.37 | 1.2 |
| Freon 11 | 0.18 | 0.26 | 1.0 | 1.5 |
| Ethanol | 0.90 | 5.4 J | 1.7 | 10 J |
| Acetone | 0.90 | 380 E | 2.1 | 890 E |
| 2-Propanol | 0.90 | 1.8 | 2.2 | 4.5 |
| Carbon Disulfide | 0.90 | 15 | 2.8 | 47 |
| Methylene Chloride | 0.36 | 1.3 | 1.2 | 4.6 |
| Hexane | 0.18 | 2.6 | 0.63 | 9.3 |
| 2-Butanone (Methyl Ethyl Ketone) | 0.90 | 4.8 | 2.6 | 14 |
| Cyclohexane | 0.18 | 1.9 | 0.62 | 6.6 |
| 2,2,4-Trimethylpentane | 0.90 | 1.8 | 4.2 | 8.7 |
| Benzene | 0.18 | 19 | 0.57 | 62 |
| Heptane | 0.18 | 1.8 | 0.73 | 7.3 |
| Toluene | 0.18 | 13 | 0.67 | 48 |
| Tetrachloroethene | 0.18 | 5.5 | 1.2 | 37 |
| 2-Hexanone | 0.90 | 1.1 | 3.7 | 4.5 |
| Chlorobenzene | 0.18 | 12 | 0.82 | 54 |
| Ethyl Benzene | 0.18 | 4.7 | 0.78 | 20 |
| m,p-Xylene | 0.18 | 14 | 0.78 | 63 |
| o-Xylene | 0.18 | 4.0 | 0.78 | 18 |
| Styrene | 0.18 | 0.42 | 0.76 | 1.8 |
| Cumene | 0.18 | 0.72 | 0.88 | 3.6 |
| Propylbenzene | 0.18 | 0.50 | 0.88 | 2.5 |
| 4-Ethyltoluene | 0.18 | 2.1 | 0.88 | 10 |
| 1,3,5-Trimethylbenzene | 0.18 | 0.65 | 0.88 | 3.2 |
| 1,2,4-Trimethylbenzene | 0.18 | 1.7 | 0.88 | 8.3 |
| 1,4-Dichlorobenzene | 0.18 | 0.34 | 1.1 | 2.0 |
| 2,3-Dimethylpentane | 0.90 | 1.5 | 3.7 | 6.3 |
| 2-Methylpentane | 0.90 | 5.0 E | 3.2 | 18 E |
| Isopentane | 0.90 | 7.2 | 2.6 | 21 |

Air Toxics LTD.
Laboratory Services Since 1989

# Summary of Detected Compounds
# MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

**Client Sample ID: SG-6**

**Lab ID#: 1108582-01A**

**TENTATIVELY IDENTIFIED COMPOUNDS**

| Compound | CAS Number | Match Quality | Amount (ppbv) |
|---|---|---|---|
| 1-Propene | 115-07-1 | 53% | 75 NJ |
| 2-Butene, (Z)- | 590-18-1 | 80% | 170 NJ |
| Acetaldehyde | 75-07-0 | 80% | 36 NJ |
| Cyclohexane, methyl- | 108-87-2 | 96% | 19 NJ |
| Butanal, 3-methyl- | 590-86-3 | 53% | 9.8 NJ |
| Unknown | NA | NA | 9.4 J |
| 2-Heptanone | 110-43-0 | 91% | 11 NJ |
| .alpha.-Pinene | 80-56-8 | 96% | 11 NJ |
| Heptane, 2,2,4-trimethyl- | 14720-74-2 | 59% | 11 NJ |
| 1-Hexen-3-one | 1629-60-3 | 53% | 10 NJ |

Air Toxics LTD.
Laboratory Services Since 1989

**Client Sample ID: SG-6**

**Lab ID#: 1108582-01A**

**MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN**

| | | | |
|---|---|---|---|
| **File Name:** | **a083111** | **Date of Collection:** | **8/25/11 8:35:00 AM** |
| **Dil. Factor:** | **1.79** | **Date of Analysis:** | **8/31/11 03:44 PM** |

| Compound | Rpt. Limit (ppbv) | Amount (ppbv) | Rpt. Limit (ug/m3) | Amount (ug/m3) |
|---|---|---|---|---|
| Freon 12 | 0.18 | 0.42 | 0.88 | 2.1 |
| Freon 114 | 0.18 | Not Detected | 1.2 | Not Detected |
| Chloromethane | 0.18 | 0.58 | 0.37 | 1.2 |
| Vinyl Chloride | 0.18 | Not Detected | 0.46 | Not Detected |
| 1,3-Butadiene | 0.18 | Not Detected | 0.40 | Not Detected |
| Bromomethane | 0.18 | Not Detected | 0.70 | Not Detected |
| Chloroethane | 0.90 | Not Detected | 2.4 | Not Detected |
| Freon 11 | 0.18 | 0.26 | 1.0 | 1.5 |
| Ethanol | 0.90 | 5.4 J | 1.7 | 10 J |
| Freon 113 | 0.18 | Not Detected | 1.4 | Not Detected |
| 1,1-Dichloroethene | 0.18 | Not Detected | 0.71 | Not Detected |
| Acetone | 0.90 | 380 E | 2.1 | 890 E |
| 2-Propanol | 0.90 | 1.8 | 2.2 | 4.5 |
| Carbon Disulfide | 0.90 | 15 | 2.8 | 47 |
| 3-Chloropropene | 0.90 | Not Detected | 2.8 | Not Detected |
| Methylene Chloride | 0.36 | 1.3 | 1.2 | 4.6 |
| Methyl tert-butyl ether | 0.18 | Not Detected | 0.64 | Not Detected |
| trans-1,2-Dichloroethene | 0.18 | Not Detected | 0.71 | Not Detected |
| Hexane | 0.18 | 2.6 | 0.63 | 9.3 |
| 1,1-Dichloroethane | 0.18 | Not Detected | 0.72 | Not Detected |
| 2-Butanone (Methyl Ethyl Ketone) | 0.90 | 4.8 | 2.6 | 14 |
| cis-1,2-Dichloroethene | 0.18 | Not Detected | 0.71 | Not Detected |
| Tetrahydrofuran | 0.90 | Not Detected | 2.6 | Not Detected |
| Chloroform | 0.18 | Not Detected | 0.87 | Not Detected |
| 1,1,1-Trichloroethane | 0.18 | Not Detected | 0.98 | Not Detected |
| Cyclohexane | 0.18 | 1.9 | 0.62 | 6.6 |
| Carbon Tetrachloride | 0.18 | Not Detected | 1.1 | Not Detected |
| 2,2,4-Trimethylpentane | 0.90 | 1.8 | 4.2 | 8.7 |
| Benzene | 0.18 | 19 | 0.57 | 62 |
| 1,2-Dichloroethane | 0.18 | Not Detected | 0.72 | Not Detected |
| Heptane | 0.18 | 1.8 | 0.73 | 7.3 |
| Trichloroethene | 0.18 | Not Detected | 0.96 | Not Detected |
| 1,2-Dichloropropane | 0.18 | Not Detected | 0.83 | Not Detected |
| 1,4-Dioxane | 0.18 | Not Detected | 0.64 | Not Detected |
| Bromodichloromethane | 0.18 | Not Detected | 1.2 | Not Detected |
| cis-1,3-Dichloropropene | 0.18 | Not Detected | 0.81 | Not Detected |
| 4-Methyl-2-pentanone | 0.18 | Not Detected | 0.73 | Not Detected |
| Toluene | 0.18 | 13 | 0.67 | 48 |
| trans-1,3-Dichloropropene | 0.18 | Not Detected | 0.81 | Not Detected |
| 1,1,2-Trichloroethane | 0.18 | Not Detected | 0.98 | Not Detected |
| Tetrachloroethene | 0.18 | 5.5 | 1.2 | 37 |

Air Toxics LTD.
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**Client Sample ID: SG-6**

**Lab ID#: 1108582-01A**

**MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN**

| | | | |
|---|---|---|---|
| **File Name:** | **a083111** | **Date of Collection:** | **8/25/11 8:35:00 AM** |
| **Dil. Factor:** | **1.79** | **Date of Analysis:** | **8/31/11 03:44 PM** |

| Compound | Rpt. Limit (ppbv) | Amount (ppbv) | Rpt. Limit (ug/m3) | Amount (ug/m3) |
|---|---|---|---|---|
| 2-Hexanone | 0.90 | 1.1 | 3.7 | 4.5 |
| Dibromochloromethane | 0.18 | Not Detected | 1.5 | Not Detected |
| 1,2-Dibromoethane (EDB) | 0.18 | Not Detected | 1.4 | Not Detected |
| Chlorobenzene | 0.18 | 12 | 0.82 | 54 |
| Ethyl Benzene | 0.18 | 4.7 | 0.78 | 20 |
| m,p-Xylene | 0.18 | 14 | 0.78 | 63 |
| o-Xylene | 0.18 | 4.0 | 0.78 | 18 |
| Styrene | 0.18 | 0.42 | 0.76 | 1.8 |
| Bromoform | 0.18 | Not Detected | 1.8 | Not Detected |
| Cumene | 0.18 | 0.72 | 0.88 | 3.6 |
| 1,1,2,2-Tetrachloroethane | 0.18 | Not Detected | 1.2 | Not Detected |
| Propylbenzene | 0.18 | 0.50 | 0.88 | 2.5 |
| 4-Ethyltoluene | 0.18 | 2.1 | 0.88 | 10 |
| 1,3,5-Trimethylbenzene | 0.18 | 0.65 | 0.88 | 3.2 |
| 1,2,4-Trimethylbenzene | 0.18 | 1.7 | 0.88 | 8.3 |
| 1,3-Dichlorobenzene | 0.18 | Not Detected | 1.1 | Not Detected |
| 1,4-Dichlorobenzene | 0.18 | 0.34 | 1.1 | 2.0 |
| alpha-Chlorotoluene | 0.18 | Not Detected | 0.93 | Not Detected |
| 1,2-Dichlorobenzene | 0.18 | Not Detected | 1.1 | Not Detected |
| 1,2,4-Trichlorobenzene | 0.90 | Not Detected | 6.6 | Not Detected |
| Hexachlorobutadiene | 0.90 | Not Detected | 9.5 | Not Detected |
| 2,3-Dimethylpentane | 0.90 | 1.5 | 3.7 | 6.3 |
| 2-Methylpentane | 0.90 | 5.0 E | 3.2 | 18 E |
| Indene | 0.90 | Not Detected | 4.2 | Not Detected |
| Indan | 0.90 | Not Detected | 4.3 | Not Detected |
| Isopentane | 0.90 | 7.2 | 2.6 | 21 |
| Naphthalene | 0.90 | Not Detected | 4.7 | Not Detected |
| Thiophene | 0.90 | Not Detected | 3.1 | Not Detected |

J = Estimated value due to bias in the CCV.
E = Exceeds instrument calibration range.

**TENTATIVELY IDENTIFIED COMPOUNDS**

| Compound | CAS Number | Match Quality | Amount ((ppbv)) |
|---|---|---|---|
| 1-Propene | 115-07-1 | 53% | 75 NJ |
| 2-Butene, (Z)- | 590-18-1 | 80% | 170 NJ |
| Acetaldehyde | 75-07-0 | 80% | 36 NJ |
| Cyclohexane, methyl- | 108-87-2 | 96% | 19 NJ |
| Butanal, 3-methyl- | 590-86-3 | 53% | 9.8 NJ |
| Unknown | NA | NA | 9.4 J |
| 2-Heptanone | 110-43-0 | 91% | 11 NJ |

Air Toxics LTD.
Laboratory Services Since 1989

**Client Sample ID: SG-6**

**Lab ID#: 1108582-01A**

**MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN**

| | | | |
|---|---|---|---|
| **File Name:** | **a083111** | **Date of Collection: 8/25/11 8:35:00 AM** | |
| **Dil. Factor:** | **1.79** | **Date of Analysis: 8/31/11 03:44 PM** | |

**TENTATIVELY IDENTIFIED COMPOUNDS**

| Compound | CAS Number | Match Quality | Amount ((ppbv)) |
|---|---|---|---|
| .alpha.-Pinene | 80-56-8 | 96% | 11 NJ |
| Heptane, 2,2,4-trimethyl- | 14720-74-2 | 59% | 11 NJ |
| 1-Hexen-3-one | 1629-60-3 | 53% | 10 NJ |

NJ =The identification is based on presumptive evidence; estimated value.

**Container Type: 6 Liter Summa Special (100% Certified)**

| Surrogates | %Recovery | Method Limits |
|---|---|---|
| 1,2-Dichloroethane-d4 | 101 | 70-130 |
| Toluene-d8 | 98 | 70-130 |
| 4-Bromofluorobenzene | 106 | 70-130 |

Air Toxics Ltd.

AMBIENT AIR METHOD TO14/TO15

Data file : /chem/msda.i/31Aug2011.b/a083111.d
Lab Smp Id: 1108582-01A
Inj Date : 31-AUG-2011 15:44
Operator : jc Inst ID: msda.i
Smp Info : 250mL #25250
Misc Info : 7.5"Hg-5psi
Comment :
Method : /chem/msda.i/31Aug2011.b/a11l0818b.m
Meth Date : 13-Sep-2011 12:21 ejakob Quant Type: ISTD
Cal Date : 31-AUG-2011 11:39 Cal File: a083106.d
Als bottle: 28
Dil Factor: 1.79000
Integrator: HP RTE Compound Sublist: Par16136.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

| | | | | CONCENTRATIONS ON-COL | CONCENTRATIONS FINAL | | |
|---|---|---|---|---|---|---|---|
| RT | EXP RT (REL RT) | MASS | RESPONSE | ( PPBV) | ( PPBV) | TARGET RANGE | RATIO |
| * 52 Bromochloromethane | | | | | CAS #: 74-97-5 | | |
| 15.406 | 15.406 (1.000) | 130 | 218184 | 10.0000 | | 80.00- 120.00 | 100.00 |
| 15.406 | 15.406 (1.000) | 128 | 168376 | | | 0.00- 30.00 | 77.17 |
| 15.406 | 15.406 (1.000) | 49 | 373735 | | | 0.00- 30.00 | 171.29 |
| * 66 1,4-Difluorobenzene | | | | | CAS #: 540-36-3 | | |
| 16.825 | 16.825 (1.000) | 114 | 974703 | 10.0000 | | 80.00- 120.00 | 100.00 |
| 16.825 | 16.825 (1.000) | 88 | 165514 | | | 0.00- 30.00 | 16.98 |
| * 88 Chlorobenzene-d5 | | | | | CAS #: 3114-55-4 | | |
| 21.614 | 21.614 (1.000) | 117 | 686313 | 10.0000 | | 80.00- 120.00 | 100.00 |
| 21.614 | 21.614 (1.000) | 82 | 440509 | | | 0.00- 30.00 | 64.18 |
| $ 61 1,2-Dichloroethane-d4 | | | | | CAS #: 17060-07-0 | | |
| 16.248 | 16.248 (1.055) | 65 | 398040 | 10.1381 | 10.138 | 80.00- 120.00 | 100.00 |
| 16.248 | 16.248 (1.055) | 67 | 210287 | | | 21.17- 81.17 | 52.83 |
| $ 80 Toluene-d8 | | | | | CAS #: 2037-26-5 | | |
| 19.411 | 19.411 (1.154) | 98 | 932075 | 9.83673 | 9.837 | 80.00- 120.00 | 100.00 |
| 19.411 | 19.411 (1.154) | 70 | 123170 | | | 0.00- 41.96 | 13.21 |

| RT | EXP RT (REL RT) | MASS | RESPONSE | CONCENTRATIONS ON-COL ( PPBV) | FINAL ( PPBV) | TARGET RANGE | RATIO |
|---|---|---|---|---|---|---|---|
| $ 80 Toluene-d8 (continued) | | | | | | | |
| 19.411 | 19.411 (1.154) | 100 | 623981 | | | 36.91- 96.91 | 66.95 |
| $ 100 Bromofluorobenzene | | | | | CAS #: 460-00-4 | | |
| 23.068 | 23.068 (1.067) | 174 | 378221 | 10.5807 | 10.581 | 80.00- 120.00 | 100.00 |
| 23.068 | 23.068 (1.067) | 95 | 576519 | | | 114.98- 174.98 | 152.43 |
| 23.068 | 23.068 (1.067) | 176 | 369689 | | | 67.23- 127.23 | 97.74 |
| 4 Dichlorodifluoromethane/Fr12 | | | | | CAS #: 75-71-8 | | |
| 5.324 | 5.613 (0.346) | 85 | 33901 | 0.23650 | 0.4233 | 80.00- 120.00 | 100.00 |
| 5.324 | 5.613 (0.346) | 87 | 10237 | | | 2.29- 62.29 | 30.20 |
| 7 Chloromethane | | | | | CAS #: 74-87-3 | | |
| 7.132 | 7.276 (0.463) | 50 | 17120 | 0.32498 | 0.5817 | 80.00- 120.00 | 100.00 |
| 7.132 | 7.276 (0.463) | 52 | 5359 | | | 2.29- 62.29 | 31.30 |
| 16 Trichlorofluoromethane/Fr11 | | | | | CAS #: 75-69-4 | | |
| 10.840 | 10.841 (0.704) | 101 | 16893 | 0.14816 | 0.2652 | 80.00- 120.00 | 100.00 |
| 10.840 | 10.841 (0.704) | 103 | 12221 | | | 34.85- 94.85 | 72.34 |
| 20 Ethanol | | | | | CAS #: 64-17-5 | | |
| 11.690 | 11.690 (0.759) | 45 | 23692 | 2.99720 | 5.365 | 80.00- 120.00 | 100.00 |
| 11.690 | 11.690 (0.759) | 43 | 8271 | | | 0.00- 57.08 | 34.91 |
| 11.690 | 11.690 (0.759) | 46 | 9047 | | | 10.87- 70.87 | 38.19 |
| 26 Carbon Disulfide | | | | | CAS #: 75-15-0 | | |
| 12.478 | 12.499 (0.810) | 76 | 990303 | 8.50431 | 15.223 | 80.00- 120.00 | 100.00 |
| 24 Acetone | | | | | CAS #: 67-64-1 | | |
| 12.416 | 12.416 (0.806) | 58 | 5945951 | 209.517 | 375.03 | 80.00- 120.00 | 100.00(A) |
| 12.416 | 12.416 (0.806) | 43 | 18450632 | | | 283.54- 343.54 | 310.31 |
| 27 2-Propanol | | | | | CAS #: 67-63-0 | | |
| 12.727 | 12.727 (0.826) | 45 | 134179 | 1.02406 | 1.833 | 80.00- 120.00 | 100.00 |
| 12.727 | 12.727 (0.826) | 43 | 25270 | | | 0.00- 49.76 | 18.83 |
| 12.727 | 12.727 (0.826) | 59 | 5255 | | | 0.00- 34.09 | 3.92 |
| 33 Methylene Chloride | | | | | CAS #: 75-09-2 | | |
| 13.132 | 13.160 (0.852) | 84 | 36595 | 0.74288 | 1.330 | 80.00- 120.00 | 100.00 |
| 13.160 | 13.160 (0.854) | 49 | 12555 | | | 112.00- 172.00 | 34.31 |
| 13.160 | 13.160 (0.854) | 51 | 9012 | | | 13.10- 73.10 | 24.63 |
| 40 Hexane | | | | | CAS #: 110-54-3 | | |
| 13.819 | 13.819 (0.897) | 57 | 161697 | 1.48090 | 2.651 | 80.00- 120.00 | 100.00 |
| 13.819 | 13.819 (0.897) | 43 | 114089 | | | 33.38- 93.38 | 70.56 |
| 13.819 | 13.819 (0.897) | 86 | 26320 | | | 0.00- 46.43 | 16.28 |

| RT | EXP RT (REL RT) | MASS | RESPONSE | CONCENTRATIONS ON-COL ( PPBV) | CONCENTRATIONS FINAL ( PPBV) | TARGET RANGE | RATIO |
|---|---|---|---|---|---|---|---|
| 48 2-Butanone | | | | | CAS #: 78-93-3 | | |
| 15.065 | 15.065 (0.978) | 72 | 86408 | 2.65684 | 4.756 | 80.00- 120.00 | 100.00 |
| 15.065 | 15.065 (0.978) | 43 | 539740 | | | 298.82- 358.82 | 624.64 |
| 15.065 | 15.065 (0.978) | 57 | 29841 | | | 0.00- 56.09 | 34.53 |
| 55 Cyclohexane | | | | | CAS #: 110-82-7 | | |
| 15.714 | 15.714 (1.020) | 84 | 96942 | 1.06462 | 1.906 | 80.00- 120.00 | 100.00 |
| 15.714 | 15.714 (1.020) | 56 | 214875 | | | 97.99- 157.99 | 221.65 |
| 15.683 | 15.714 (1.018) | 41 | 130178 | | | 37.94- 97.94 | 134.28 |
| 60 Benzene | | | | | CAS #: 71-43-2 | | |
| 16.248 | 16.248 (0.966) | 78 | 1963424 | 10.8455 | 19.414 | 80.00- 120.00 | 100.00 |
| 16.248 | 16.248 (0.966) | 77 | 454519 | | | 0.00- 53.14 | 23.15 |
| 64 Heptane | | | | | CAS #: 142-82-5 | | |
| 16.413 | 16.413 (0.976) | 57 | 59931 | 0.99328 | 1.778 | 80.00- 120.00 | 100.00 |
| 16.413 | 16.413 (0.976) | 100 | 15861 | | | 11.16- 71.16 | 26.47 |
| 16.413 | 16.413 (0.976) | 43 | 112283 | | | 158.27- 218.27 | 187.35 |
| 81 Toluene | | | | | CAS #: 108-88-3 | | |
| 19.523 | 19.524 (1.160) | 91 | 1478508 | 7.14105 | 12.782 | 80.00- 120.00 | 100.00 |
| 19.523 | 19.524 (1.160) | 92 | 878619 | | | 30.18- 90.18 | 59.43 |
| 84 Tetrachloroethene | | | | | CAS #: 127-18-4 | | |
| 20.365 | 20.365 (0.942) | 166 | 228343 | 3.08082 | 5.515 | 80.00- 120.00 | 100.00 |
| 20.365 | 20.365 (0.942) | 129 | 173190 | | | 48.84- 108.84 | 75.85 |
| 20.365 | 20.365 (0.942) | 131 | 169428 | | | 46.09- 106.09 | 74.20 |
| 85 2-Hexanone | | | | | CAS #: 591-78-6 | | |
| 20.495 | 20.495 (0.948) | 58 | 39579 | 0.61421 | 1.099 | 80.00- 120.00 | 100.00 |
| 20.495 | 20.495 (0.948) | 43 | 71072 | | | 132.91- 192.91 | 179.57 |
| 20.495 | 20.495 (0.948) | 100 | 7065 | | | 0.00- 49.97 | 17.85 |
| 89 Chlorobenzene | | | | | CAS #: 108-90-7 | | |
| 21.638 | 21.638 (1.001) | 112 | 852488 | 6.53456 | 11.697 | 80.00- 120.00 | 100.00 |
| 21.638 | 21.638 (1.001) | 114 | 276475 | | | 2.00- 62.00 | 32.43 |
| 21.638 | 21.638 (1.001) | 77 | 546130 | | | 33.87- 93.87 | 64.06 |
| 91 Ethyl Benzene | | | | | CAS #: 100-41-4 | | |
| 21.711 | 21.711 (1.004) | 106 | 177368 | 2.64992 | 4.743 | 80.00- 120.00 | 100.00 |
| 21.711 | 21.711 (1.004) | 91 | 575878 | | | 291.22- 351.22 | 324.68 |
| 93 m,p-Xylene | | | | | CAS #: 108-38-3 | | |
| 21.855 | 21.855 (1.011) | 106 | 592374 | 8.09375 | 14.488 | 80.00- 120.00 | 100.00 |
| 21.855 | 21.855 (1.011) | 91 | 1196701 | | | 173.15- 233.15 | 202.02 |

| RT | EXP RT (REL RT) | MASS | RESPONSE | CONCENTRATIONS ON-COL ( PPBV) | FINAL ( PPBV) | TARGET RANGE | RATIO |
|---|---|---|---|---|---|---|---|
| 94 o-Xylene | | | | | CAS #: 95-47-6 | | |
| 22.385 | 22.385 (1.036) | 106 | 159441 | 2.26423 | 4.053 | 80.00- 120.00 | 100.00 |
| 22.385 | 22.385 (1.036) | 91 | 344665 | | | 185.20- 245.20 | 216.17 |
| 95 Styrene | | | | | CAS #: 100-42-5 | | |
| 22.409 | 22.409 (1.037) | 104 | 26801 | 0.23417 | 0.4192 | 80.00- 120.00 | 100.00 |
| 22.385 | 22.409 (1.036) | 78 | 33308 | | | 21.95- 81.95 | 124.28 |
| 98 Cumene | | | | | CAS #: 98-82-8 | | |
| 22.810 | 22.810 (1.055) | 105 | 85671 | 0.40526 | 0.7254 | 80.00- 120.00 | 100.00(M) |
| 22.810 | 22.810 (1.055) | 120 | 25048 | | | 0.00- 56.13 | 29.24 |
| 104 Propylbenzene | | | | | CAS #: 103-65-1 | | |
| 23.274 | 23.274 (1.077) | 91 | 61643 | 0.28181 | 0.5044 | 80.00- 120.00 | 100.00 |
| 23.274 | 23.274 (1.077) | 120 | 14321 | | | 0.00- 52.40 | 23.23 |
| 107 4-Ethyltoluene | | | | | CAS #: 622-96-8 | | |
| 23.377 | 23.403 (1.082) | 105 | 236247 | 1.18339 | 2.118 | 80.00- 120.00 | 100.00 |
| 23.377 | 23.403 (1.082) | 120 | 70615 | | | 0.31- 60.31 | 29.89 |
| 109 1,3,5-Trimethylbenzene | | | | | CAS #: 108-67-8 | | |
| 23.455 | 23.455 (1.085) | 105 | 57587 | 0.36515 | 0.6536 | 80.00- 120.00 | 100.00 |
| 23.455 | 23.455 (1.085) | 120 | 27926 | | | 18.26- 78.26 | 48.49 |
| 112 1,2,4-Trimethylbenzene | | | | | CAS #: 95-63-6 | | |
| 23.893 | 23.893 (1.105) | 105 | 138846 | 0.94331 | 1.688 | 80.00- 120.00 | 100.00 |
| 23.893 | 23.893 (1.105) | 120 | 61477 | | | 15.25- 75.25 | 44.28 |
| 117 1,4-Dichlorobenzene | | | | | CAS #: 106-46-7 | | |
| 24.358 | 24.358 (1.127) | 146 | 17585 | 0.18928 | 0.3388 | 80.00- 120.00 | 100.00 |
| 24.358 | 24.358 (1.127) | 148 | 8175 | | | 33.39- 93.39 | 46.49 |
| 24.358 | 24.358 (1.127) | 111 | 13980 | | | 12.70- 72.70 | 79.50 |
| 59 2,2,4-Trimethylpentane | | | | | CAS #: 540-84-1 | | |
| 16.166 | 16.166 (1.049) | 56 | 145079 | 1.03874 | 1.859 | 80.00- 120.00 | 100.00 |
| 16.166 | 16.166 (1.049) | 57 | 291177 | | | 264.71- 324.71 | 200.70 |
| 16.166 | 16.166 (1.049) | 41 | 119118 | | | 74.97- 134.97 | 82.11 |
| 14 Isopentane | | | | | CAS #: 78-78-4 | | |
| 10.239 | 10.260 (0.665) | 57 | 174809 | 4.02462 | 7.204 | 80.00- 120.00 | 100.00 |
| 10.239 | 10.260 (0.665) | 43 | 247081 | | | 104.71- 164.71 | 141.34 |
| 10.239 | 10.260 (0.665) | 42 | 219036 | | | 89.04- 149.04 | 125.30 |
| 30 2-Methylpentane | | | | | CAS #: 107-83-5 | | |
| 12.995 | 12.995 (0.844) | 71 | 102417 | 2.81426 | 5.038 | 80.00- 120.00 | 100.00(A) |
| 12.995 | 12.995 (0.844) | 43 | 409955 | | | 0.00- 30.00 | 400.28 |

| RT | EXP RT (REL RT) | MASS | RESPONSE | CONCENTRATIONS ON-COL ( PPBV) | FINAL ( PPBV) | TARGET RANGE | RATIO |
|---|---|---|---|---|---|---|---|
| 30 2-Methylpentane (continued) | | | | | | | |
| 12.995 | 12.995 (0.844) | 42 | 176229 | | | 0.00- 30.00 | 172.07 |
| 54 2,3-Dimethylpentane | | | | | CAS #: 565-59-3 | | |
| 15.683 | 15.683 (1.018) | 71 | 27884 | 0.86033 | 1.540 | 80.00- 120.00 | 100.00 |
| 15.714 | 15.683 (1.020) | 56 | 214875 | | | 0.00- 30.00 | 770.60 |
| 15.683 | 15.683 (1.018) | 43 | 78639 | | | 0.00- 30.00 | 282.02 |

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.
M - Compound response manually integrated.

Air Toxics Ltd.

AMBIENT AIR METHOD TO14/TO15

Data file : /chem/msda.i/31Aug2011.b/a083111.d
Lab Smp Id: 1108582-01A
Inj Date : 31-AUG-2011 15:44
Operator : jc Inst ID: msda.i
Smp Info : 250mL #25250
Misc Info : 7.5"Hg-5psi
Comment :
Method : /chem/msda.i/31Aug2011.b/a11l0818b.m
Meth Date : 13-Sep-2011 12:21 ejakob Quant Type: ISTD
Cal Date : 31-AUG-2011 11:39 Cal File: a083106.d
Als bottle: 28
Dil Factor: 1.79000
Integrator: HP RTE Compound Sublist: Par16136.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

| ISTD | RT | AREA | AMOUNT |
|---|---|---|---|
| * 52 Bromochloromethane | 15.406 | 1471403 | 10.000 |
| * 66 1,4-Difluorobenzene | 16.825 | 2744622 | 10.000 |
| * 88 Chlorobenzene-d5 | 21.614 | 6696401 | 10.000 |

| | CONCENTRATIONS | | | | QUANT | | |
|---|---|---|---|---|---|---|---|
| RT | AREA | ON-COL( PPBV) | FINAL( PPBV) | QUAL | LIBRARY | LIB ENTRY | CPND # |
| 1-Propene | | | | | CAS #: 115-07-1 | | |
| 4.818 | 6166930 | 41.9119010 | 75.022 | 53 | NBS54K.l | 31 | 52 |
| 2-Butene, (Z)- | | | | | CAS #: 590-18-1 | | |
| 7.781 | 13924043 | 94.6310651 | 169.39 | 80 | NBS54K.l | 78 | 52 |
| Acetaldehyde | | | | | CAS #: 75-07-0 | | |
| 8.874 | 2949470 | 20.0452904 | 35.881 | 80 | NBS54K.l | 37 | 52 |

| RT | AREA | ON-COL( PPBV) | FINAL( PPBV) | QUAL | LIBRARY | LIB ENTRY | CPND # |
|---|---|---|---|---|---|---|---|
| Cyclohexane, methyl- | | | | CAS #: 108-87-2 | | | |
| 17.484 | 2858126 | 10.4135461 | 18.640 | 96 | NBS54K.l | 1211 | 66 |
| Butanal, 3-methyl- | | | | CAS #: 590-86-3 | | | |
| 17.731 | 1495327 | 5.44820557 | 9.752 | 53 | NBS54K.l | 643 | 66 |
| Unknown | | | | CAS #: | | | |
| 18.390 | 1438101 | 5.23970425 | 9.379 | 0 | | 0 | 66 |
| 2-Heptanone | | | | CAS #: 110-43-0 | | | |
| 22.482 | 4027950 | 6.01509675 | 10.767 | 91 | NBS54K.l | 2687 | 88 |
| .alpha.-Pinene | | | | CAS #: 80-56-8 | | | |
| 22.758 | 4020233 | 6.00357260 | 10.746 | 96 | NBS54K.l | 5805 | 88(L) |
| Heptane, 2,2,4-trimethyl- | | | | CAS #: 14720-74-2 | | | |
| 24.254 | 3974180 | 5.93479939 | 10.623 | 59 | NBS54K.l | 7010 | 88(L) |
| 1-Hexen-3-one | | | | CAS #: 1629-60-3 | | | |
| 24.925 | 3916375 | 5.84847745 | 10.469 | 53 | NBS54K.l | 1175 | 88 |

## QC Flag Legend

L - Operator selected an alternate library search match.

Report Date: 13-Sep-2011 12:22

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msda.i
Lab File ID: a083111.d
Lab Smp Id: 1108582-01A
Analysis Type: VOA
Quant Type: ISTD
Operator: jc
Method File: /chem/msda.i/31Aug2011.b/a11l0818b.m
Misc Info: 7.5"Hg-5psi

Calibration Date: 31-AUG-2011
Calibration Time: 08:01
Level: LOW
Sample Type: AIR

| | | AREA LIMIT | | | |
|---|---|---|---|---|---|
| COMPOUND | STANDARD | LOWER | UPPER | SAMPLE | %DIFF |
| 52 Bromochloromethan | 206450 | 123870 | 289030 | 218184 | 5.68 |
| 66 1,4-Difluorobenze | 897592 | 538555 | 1256629 | 974703 | 8.59 |
| 88 Chlorobenzene-d5 | 792197 | 475318 | 1109076 | 686313 | -13.37 |

| | | RT LIMIT | | | |
|---|---|---|---|---|---|
| COMPOUND | STANDARD | LOWER | UPPER | SAMPLE | %DIFF |
| 52 Bromochloromethan | 15.41 | 15.08 | 15.74 | 15.41 | 0.00 |
| 66 1,4-Difluorobenze | 16.82 | 16.50 | 17.15 | 16.82 | 0.00 |
| 88 Chlorobenzene-d5 | 21.61 | 21.28 | 21.94 | 21.61 | 0.00 |

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Report Date: 13-Sep-2011 12:22

Air Toxics Ltd.

RECOVERY REPORT

Client Name: Client SDG: 31Aug2011
Sample Matrix: GAS Fraction: VOA
Lab Smp Id: 1108582-01A
Level: LOW Operator: jc
Data Type: MS DATA SampleType: SAMPLE
SpikeList File: AT09.spk Quant Type: ISTD
Sublist File: Par16136.sub
Method File: /chem/msda.i/31Aug2011.b/a11l0818b.m
Misc Info: 7.5"Hg-5psi

| SURROGATE COMPOUND | CONC ADDED PPBV | CONC RECOVERED PPBV | % RECOVERED | LIMITS |
|---|---|---|---|---|
| $ 61 1,2-Dichloroethane | 10.000 | 10.138 | 101.38 | 70-130 |
| $ 80 Toluene-d8 | 10.000 | 9.837 | 98.37 | 70-130 |
| $ 100 Bromofluorobenzene | 10.000 | 10.581 | 105.81 | 70-130 |

ß¥

Data File: /chem/msda.i/31Aug2011.b/a083111.d 

Date : 31-AUG-2011 15:44

Client ID:

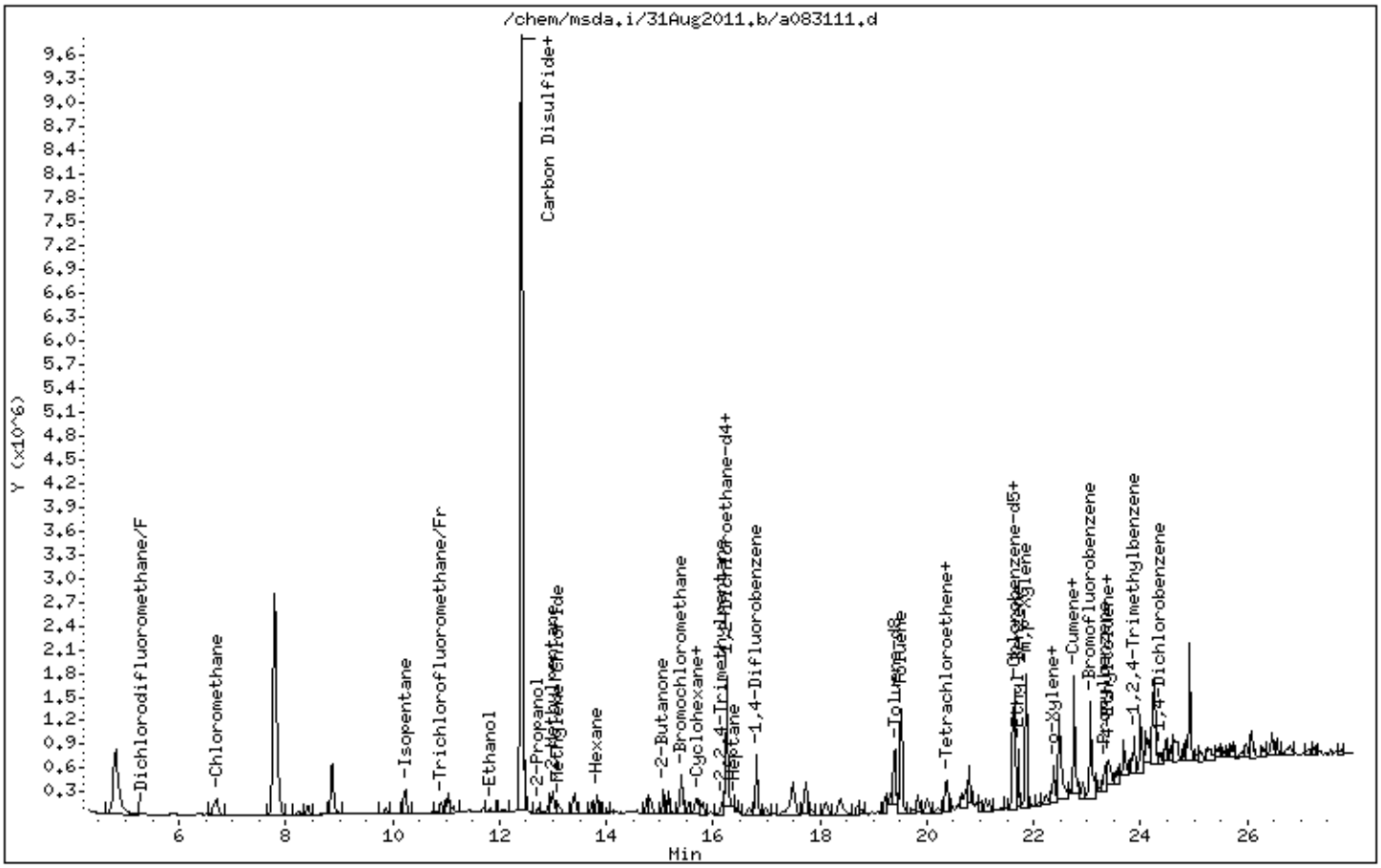
Instrument: msda.i

Sample Info: 250mL #25250

Operator: jc

Column phase: RTx-624

Column diameter: 0.32



Data File: /chem/msda.i/31Aug2011.b/a083111.d

Date : 31-AUG-2011 15:44

Client ID:

Instrument: msda.i

Sample Info: 250mL #25250

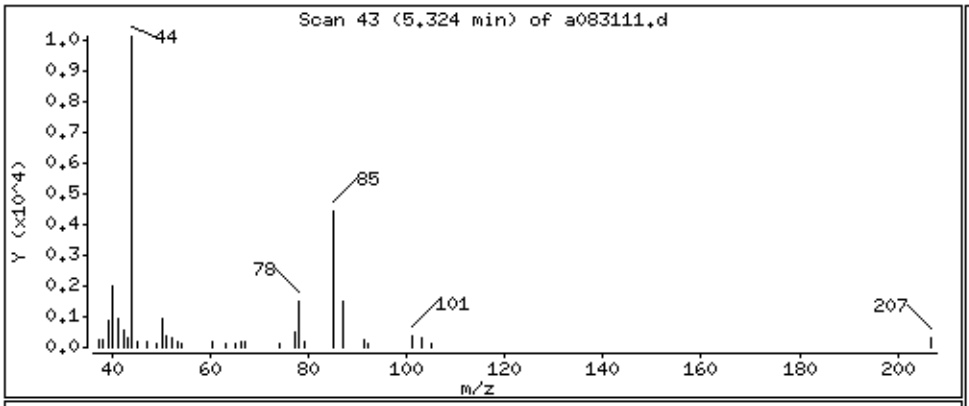
Operator: jc

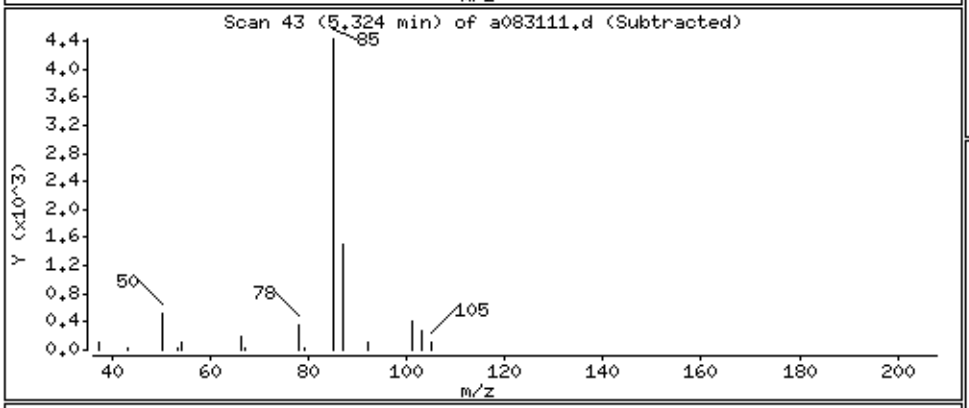
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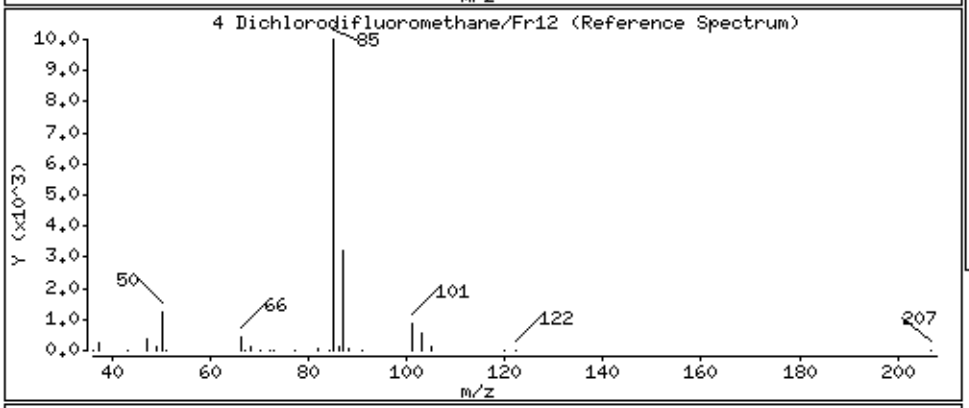
Column diameter: 0.32

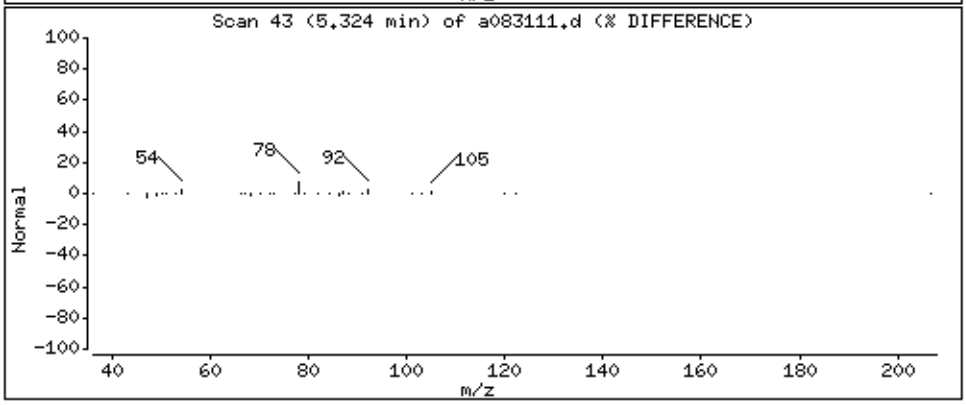
4 Dichlorodifluoromethane/Fr12

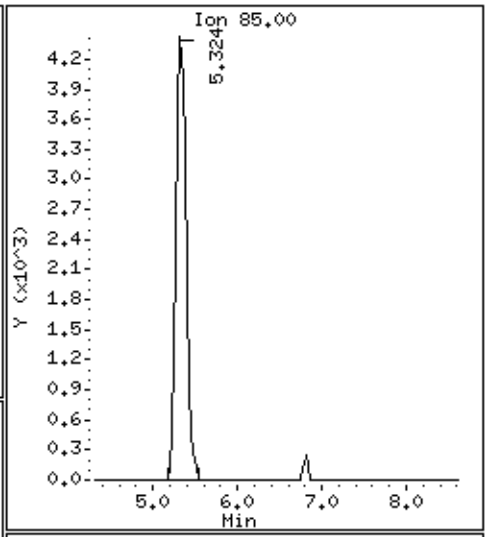
Concentration: 0.4233 PPBV

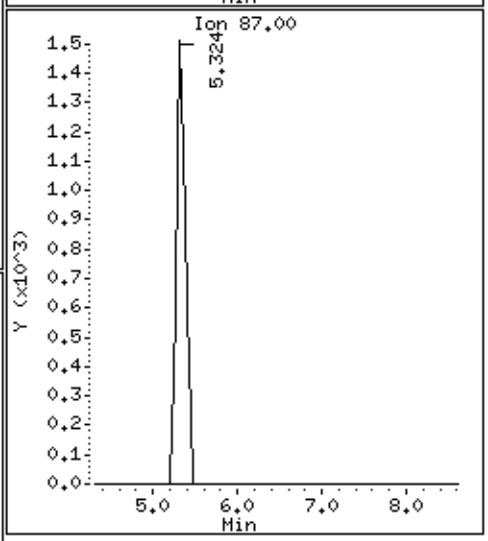


Data File: /chem/msda.i/31Aug2011.b/a083111.d

Date : 31-AUG-2011 15:44

Client ID:

Instrument: msda.i

Sample Info: 250mL #25250

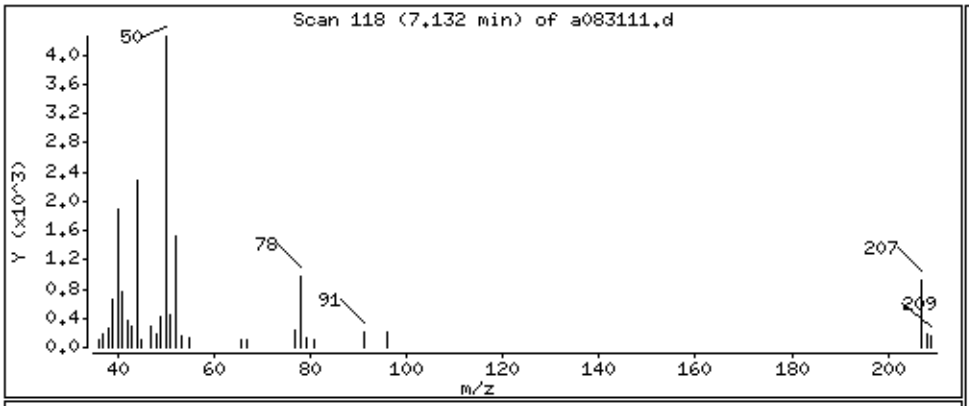
Operator: jc

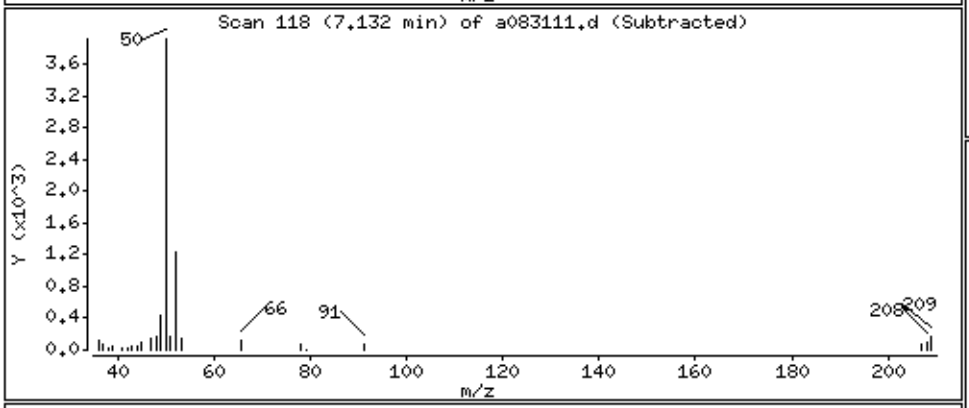
Column phase: RTx-624

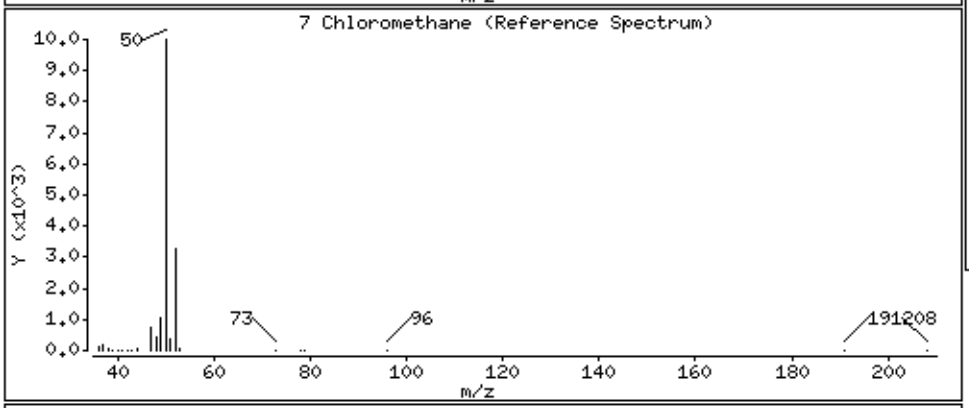
Column diameter: 0.32

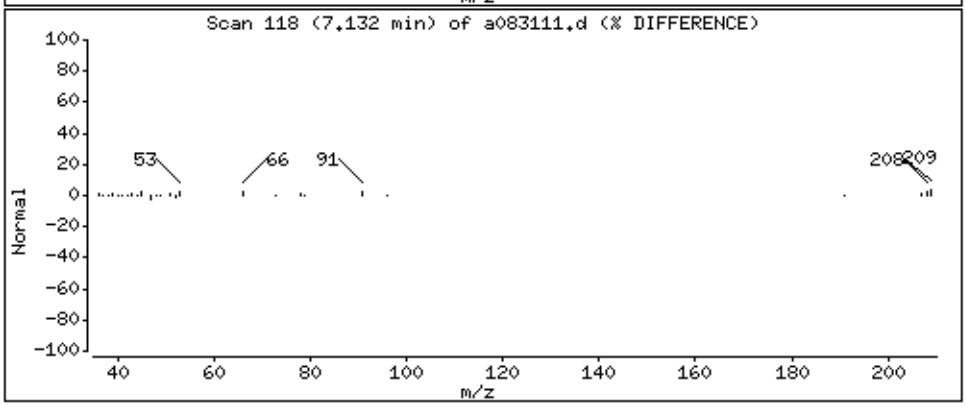
7 Chloromethane

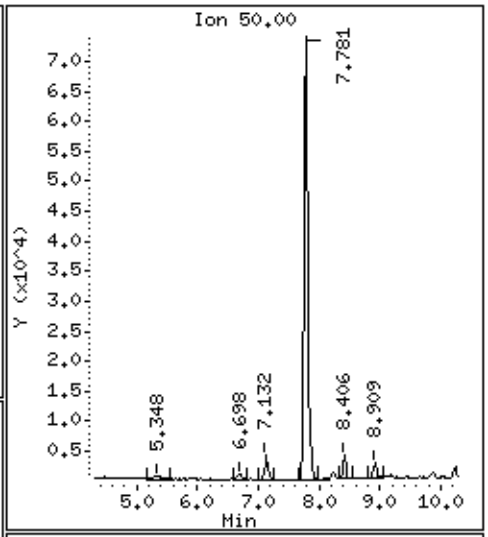
Concentration: 0.5817 PPBV

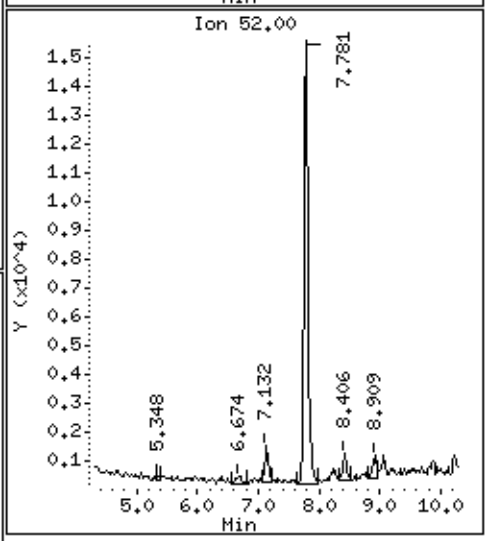


Data File: /chem/msda.i/31Aug2011.b/a083111.d

Date : 31-AUG-2011 15:44

Client ID:

Instrument: msda.i

Sample Info: 250mL #25250

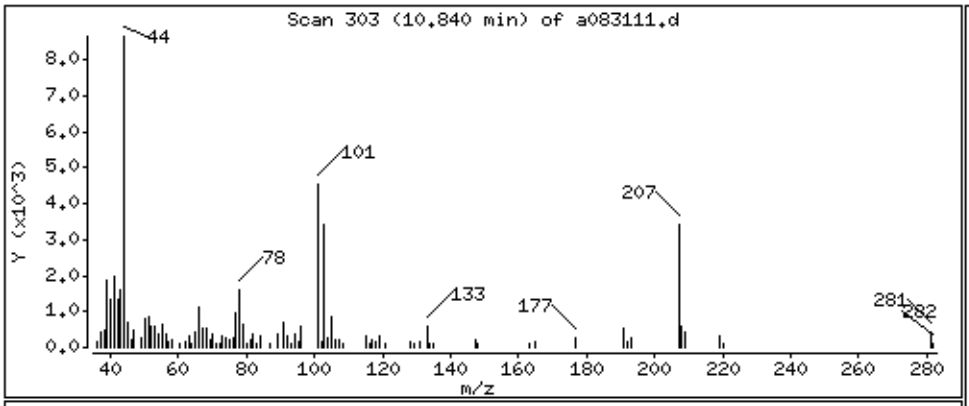
Operator: jc

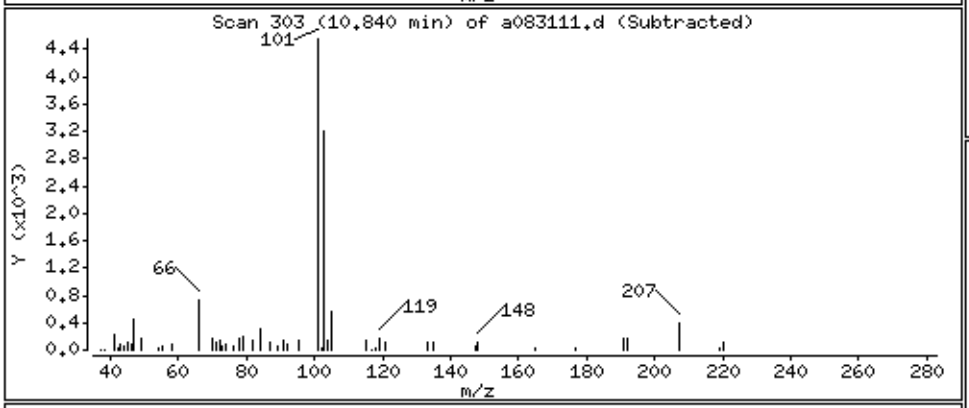
Column phase: RTx-624

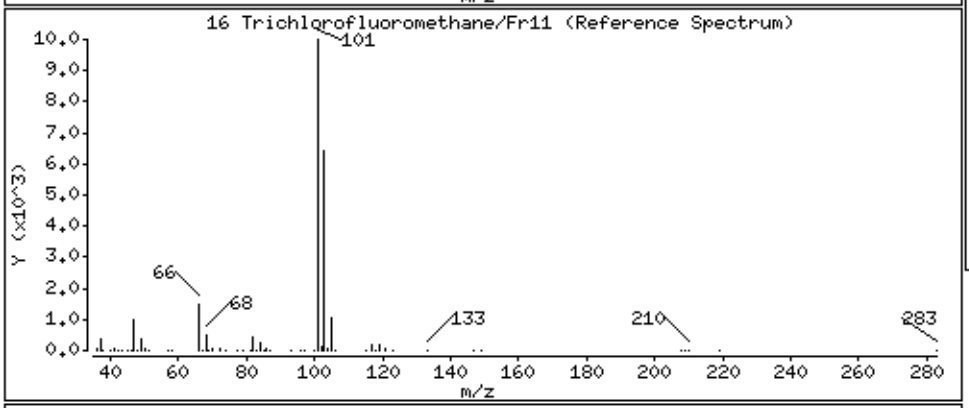
Column diameter: 0.32

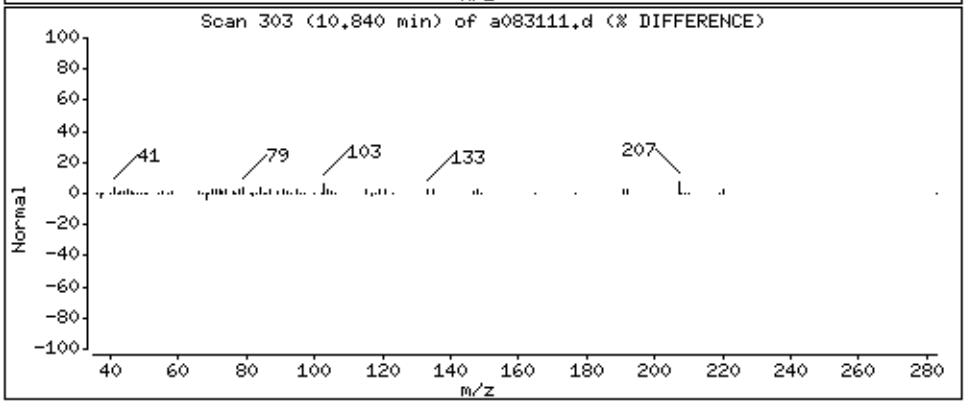
16 Trichlorofluoromethane/Fr11

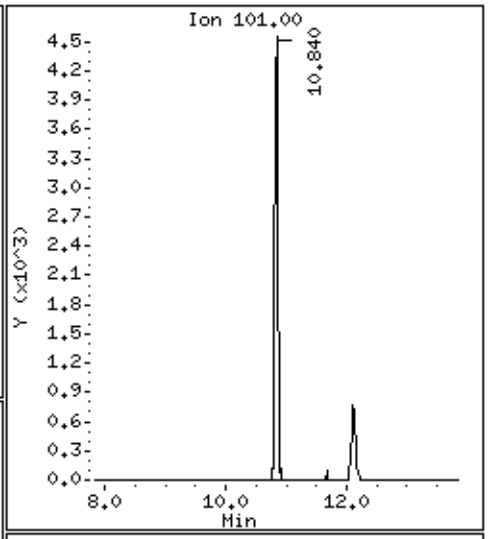
Concentration: 0.2652 PPBV

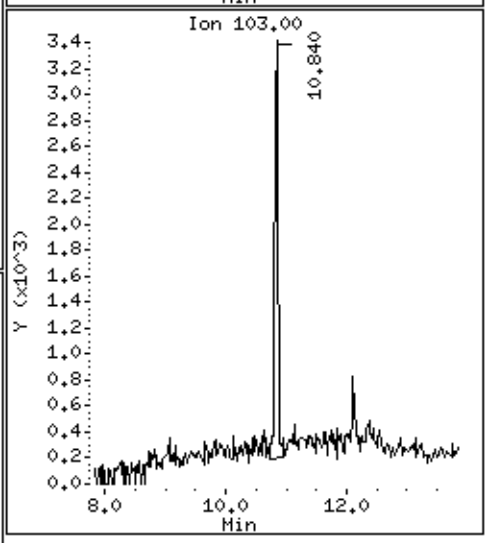


Data File: /chem/msda.i/31Aug2011.b/a083111.d

Date : 31-AUG-2011 15:44

Client ID:

Instrument: msda.i

Sample Info: 250mL #25250

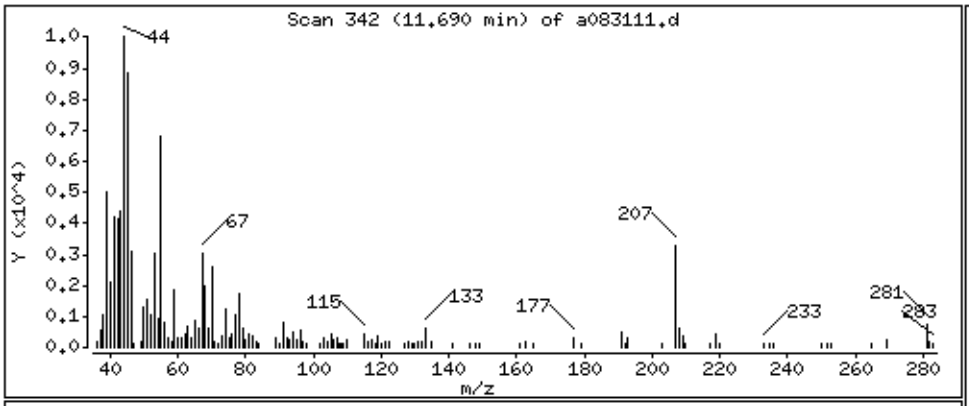
Operator: jc

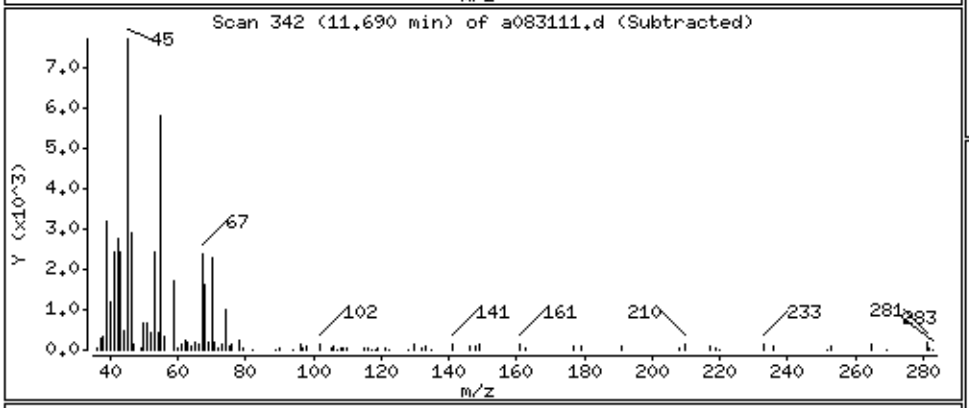
Column phase: RTx-624

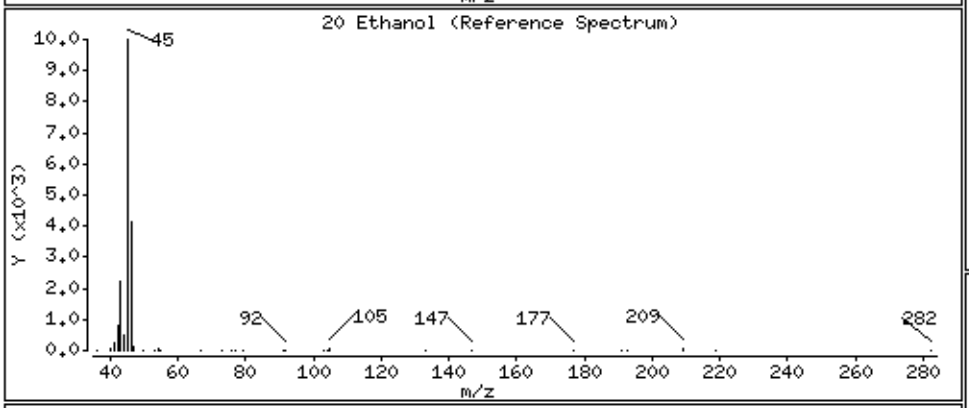
Column diameter: 0.32

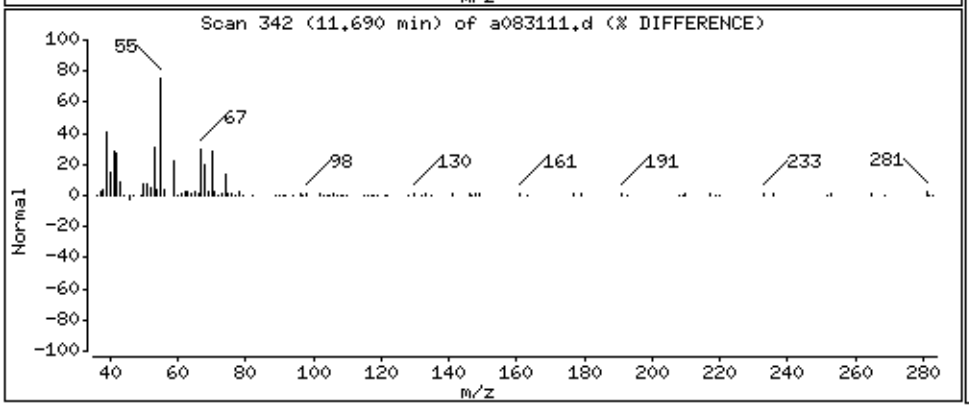
20 Ethanol

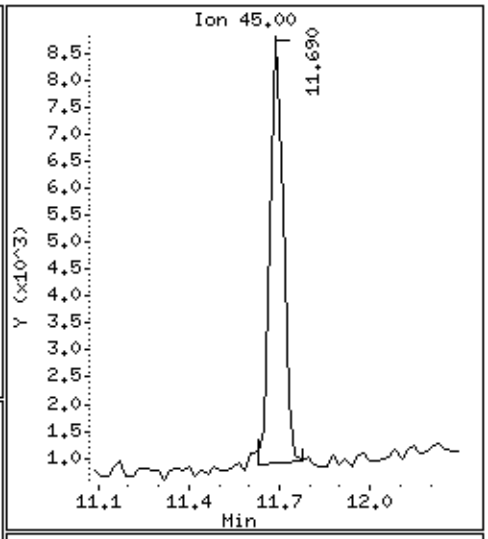
Concentration: 5.365 PPBV

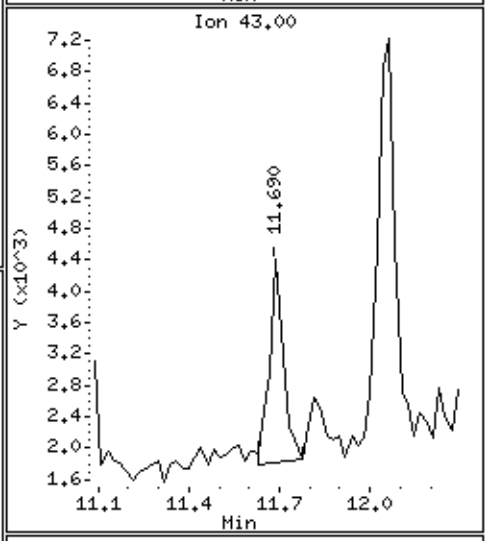


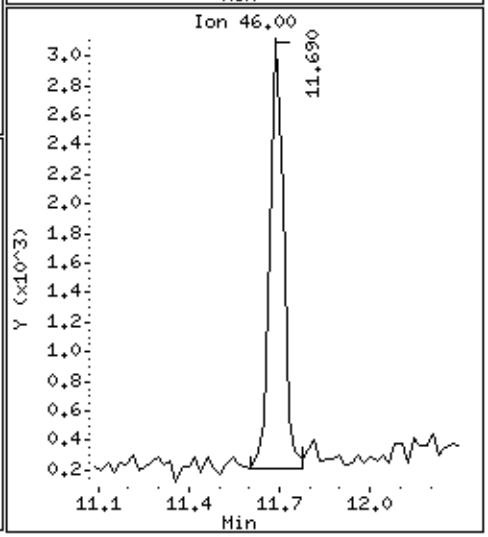



Data File: /chem/msda.i/31Aug2011.b/a083111.d

Date : 31-AUG-2011 15:44

Client ID:

Instrument: msda.i

Sample Info: 250mL #25250

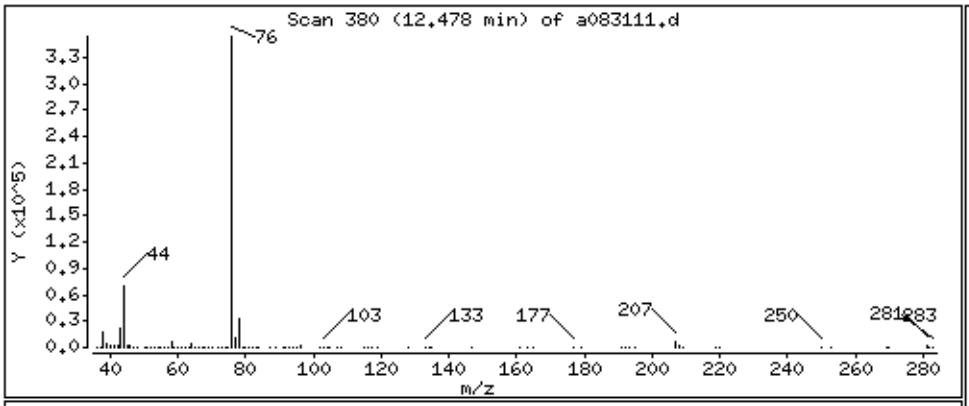
Operator: jc

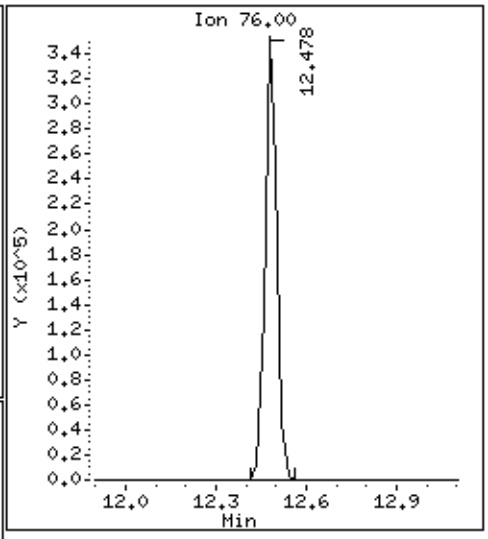
Column phase: RTx-624

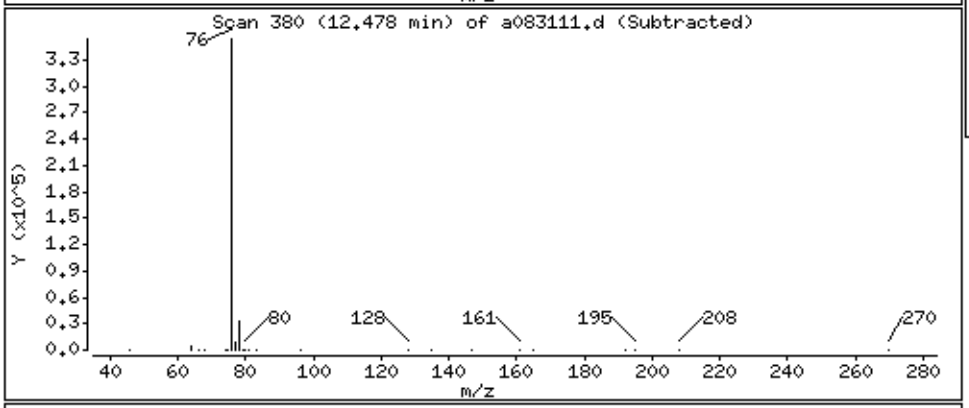
Column diameter: 0.32

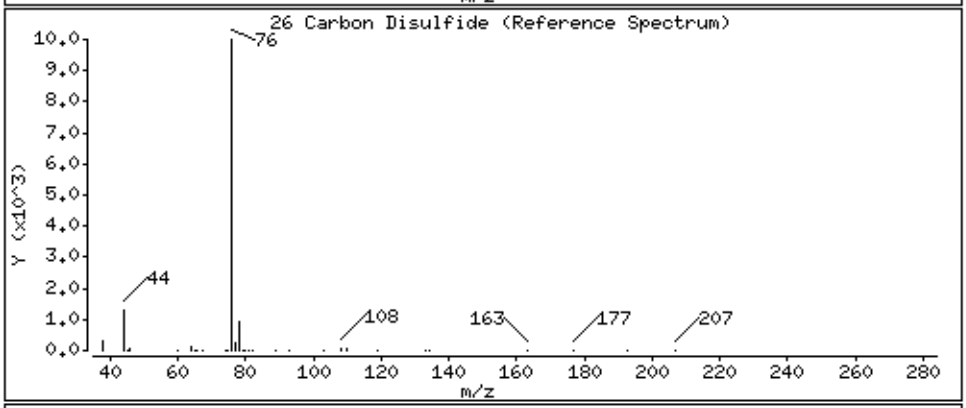
26 Carbon Disulfide

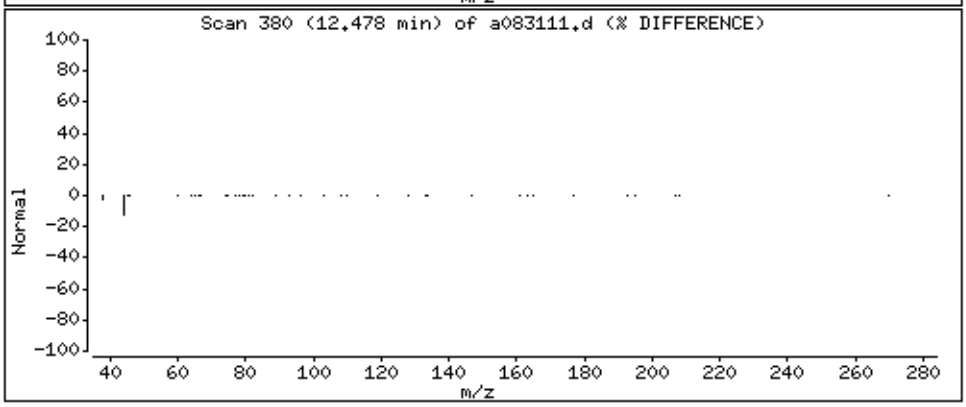
Concentration: 15.223 PPBV



Data File: /chem/msda.i/31Aug2011.b/a083111.d

Date : 31-AUG-2011 15:44

Client ID:

Instrument: msda.i

Sample Info: 250mL #25250

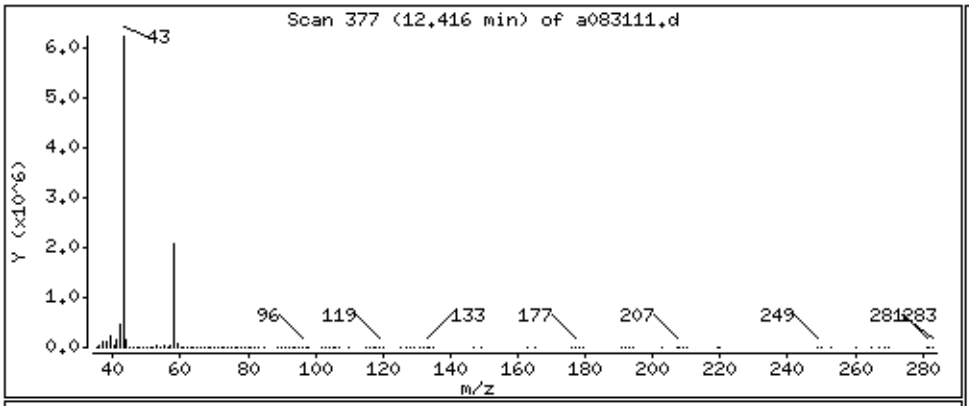
Operator: jc

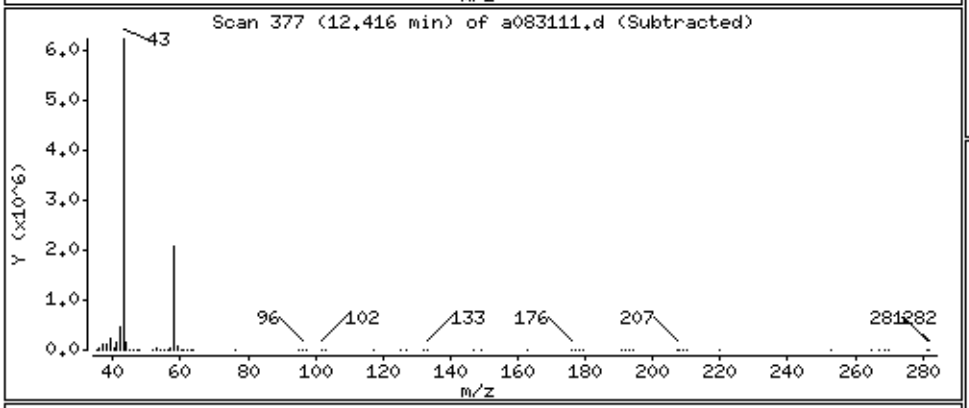
Column phase: RTx-624

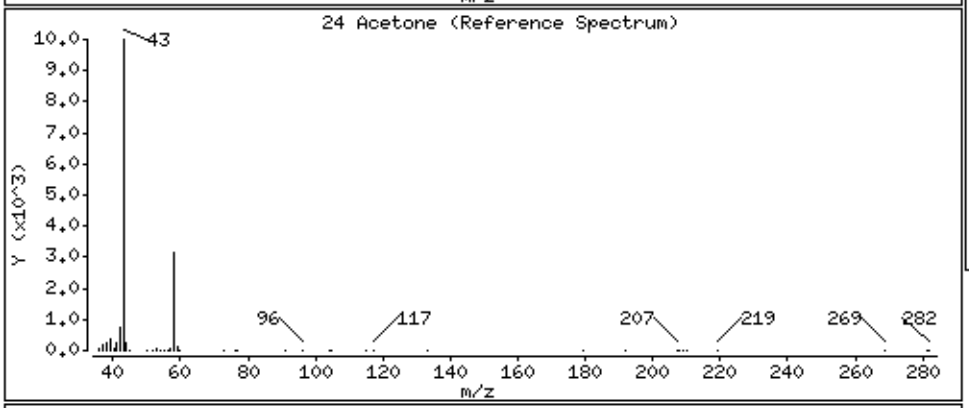
Column diameter: 0.32

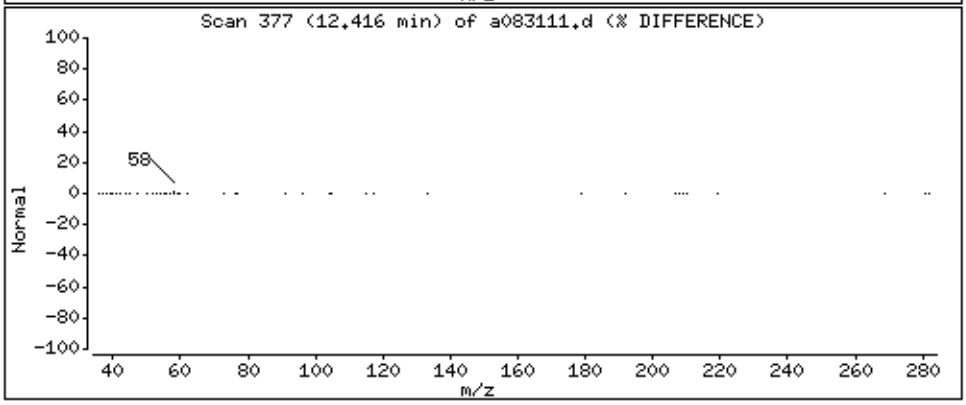
24 Acetone

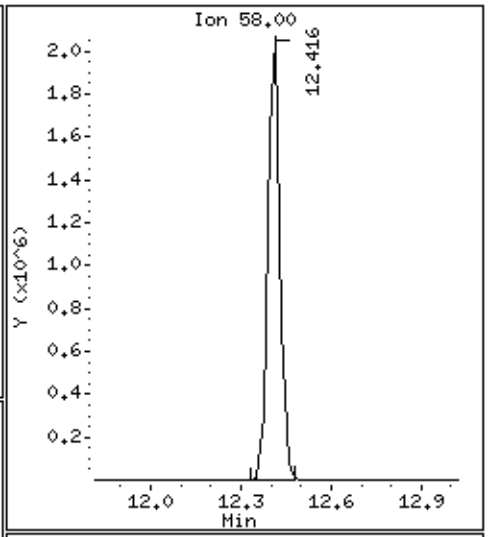
Concentration: 375.03 PPBV

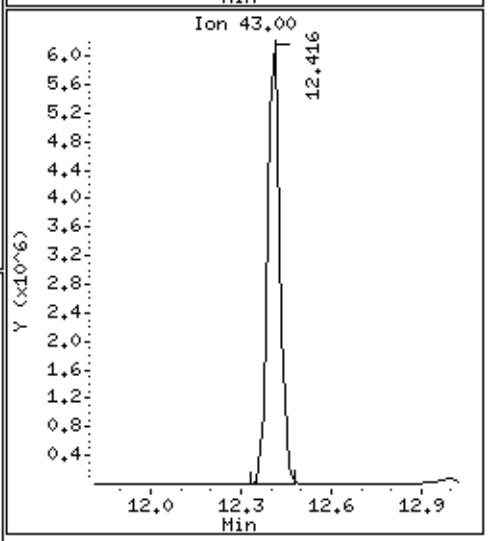


Data File: /chem/msda.i/31Aug2011.b/a083111.d

Date : 31-AUG-2011 15:44

Client ID:

Instrument: msda.i

Sample Info: 250mL #25250

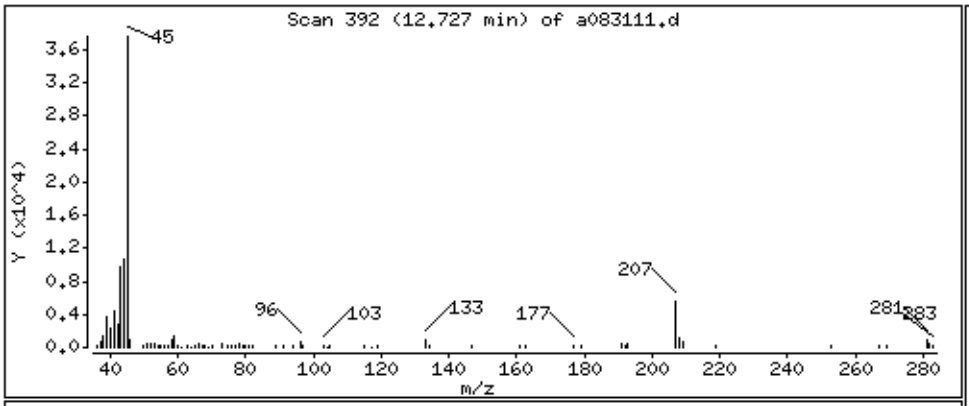
Operator: jc

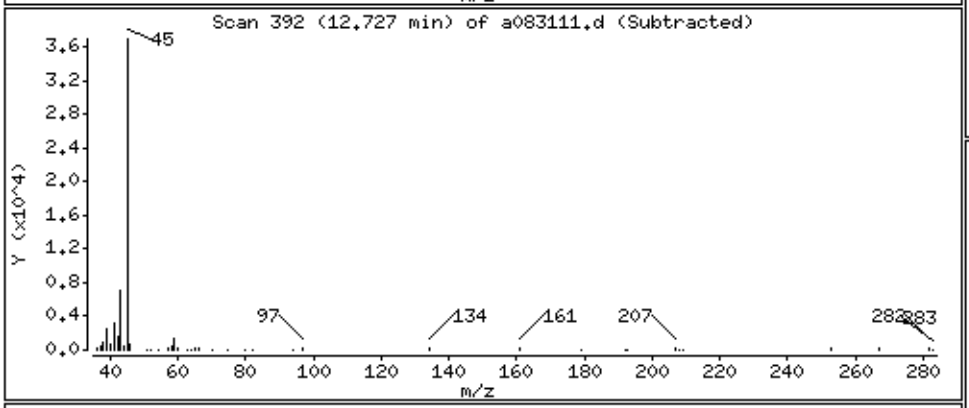
Column phase: RTx-624

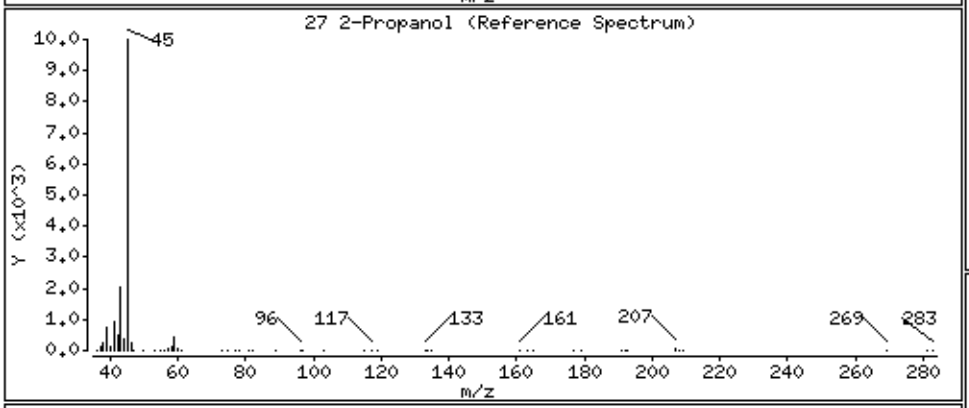
Column diameter: 0.32

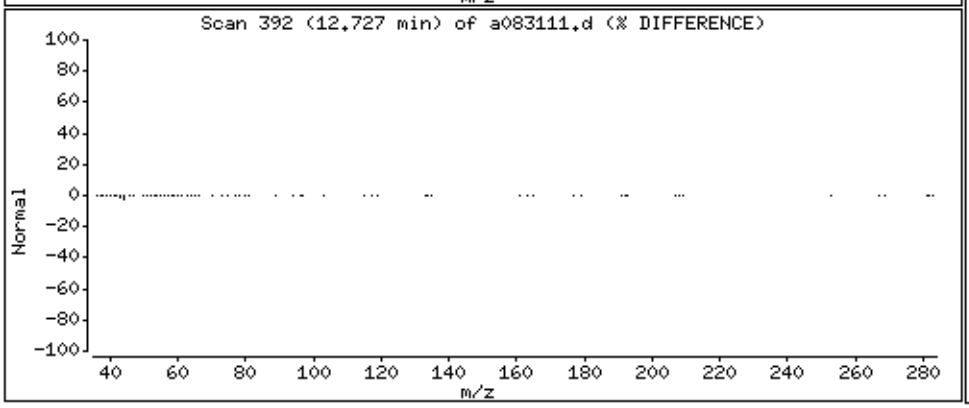
27 2-Propanol

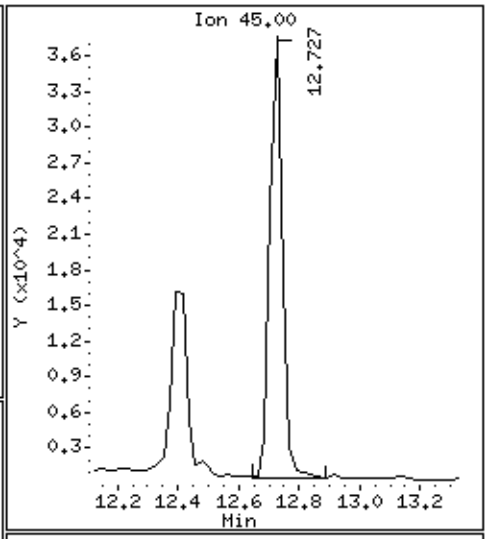
Concentration: 1.833 PPBV

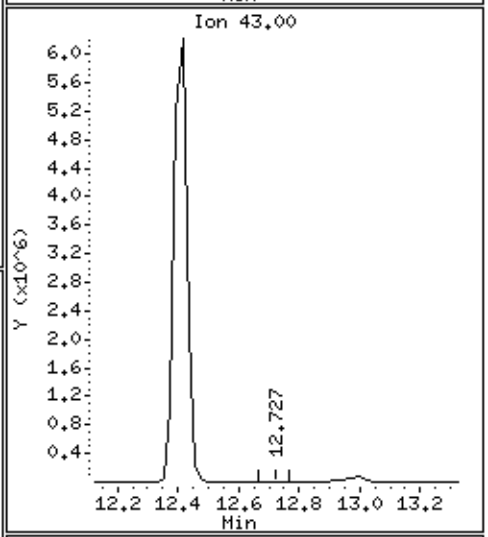


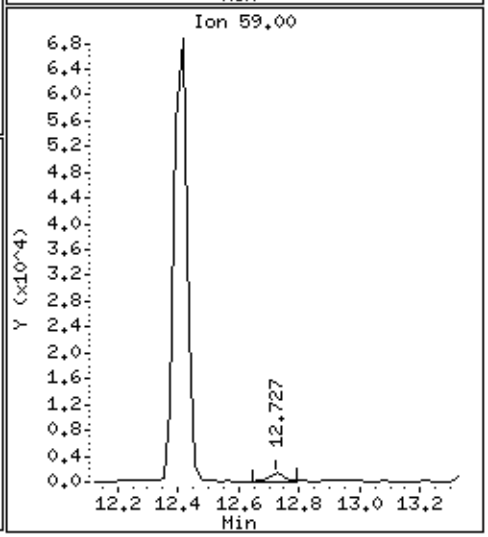



Data File: /chem/msda.i/31Aug2011.b/a083111.d

Date : 31-AUG-2011 15:44

Client ID:

Instrument: msda.i

Sample Info: 250mL #25250

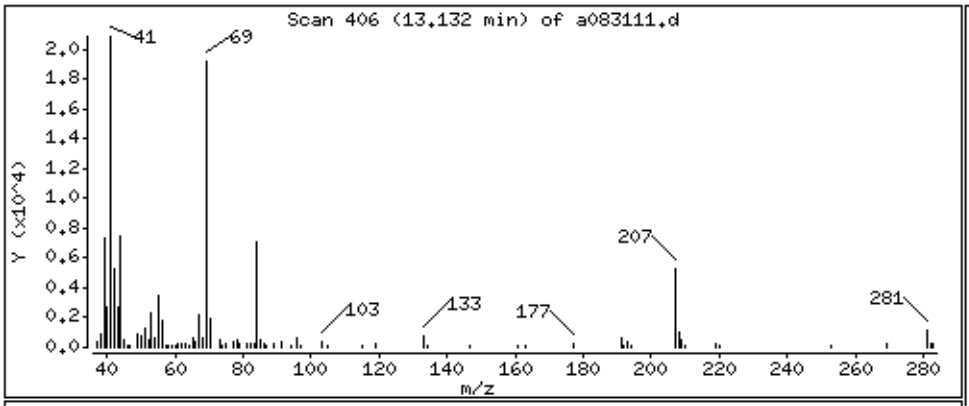
Operator: jc

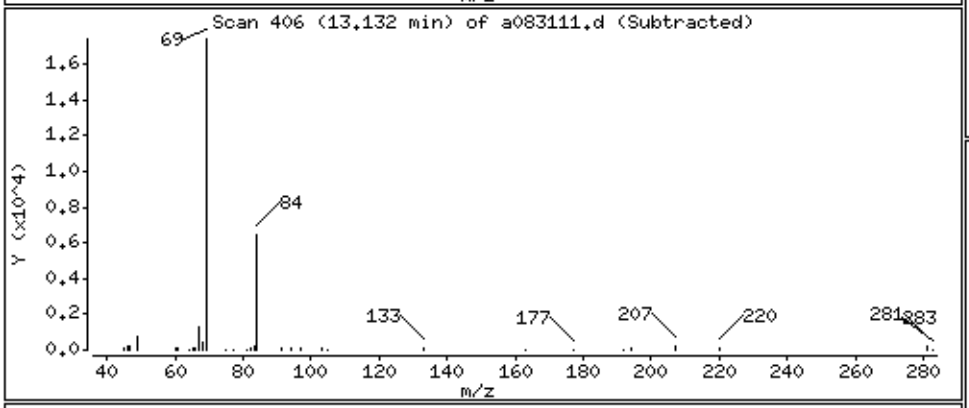
Column phase: RTx-624

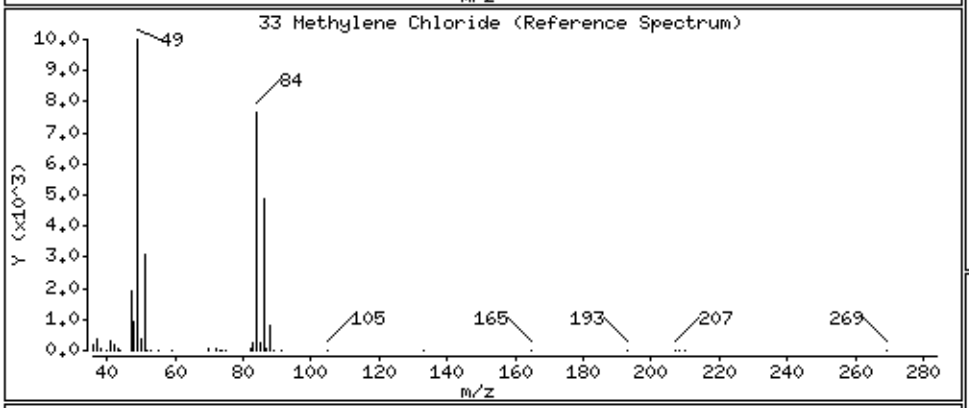
Column diameter: 0.32

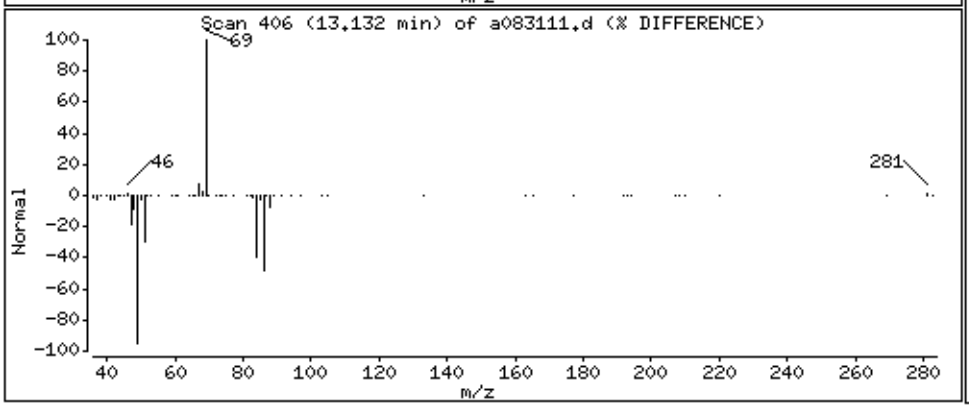
33 Methylene Chloride

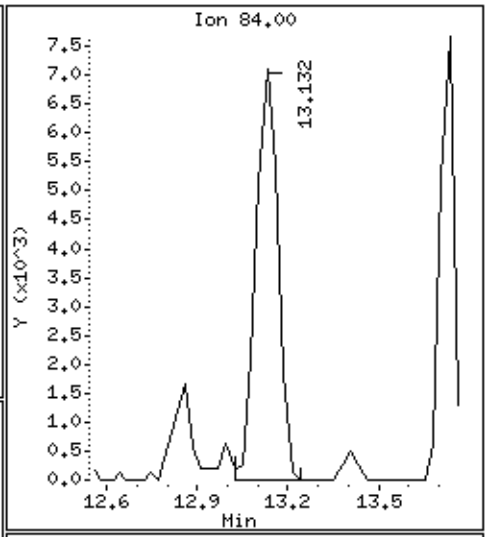
Concentration: 1.330 PPBV

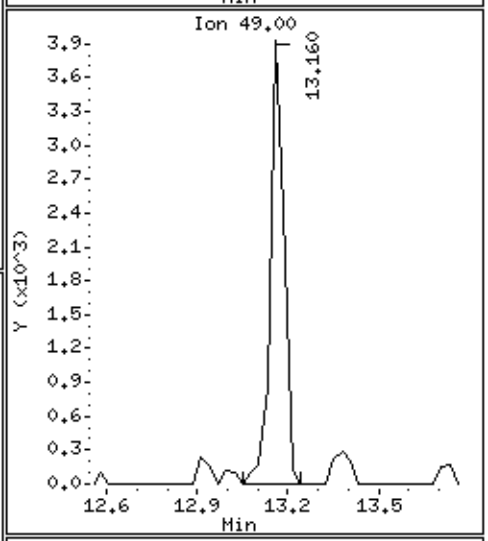


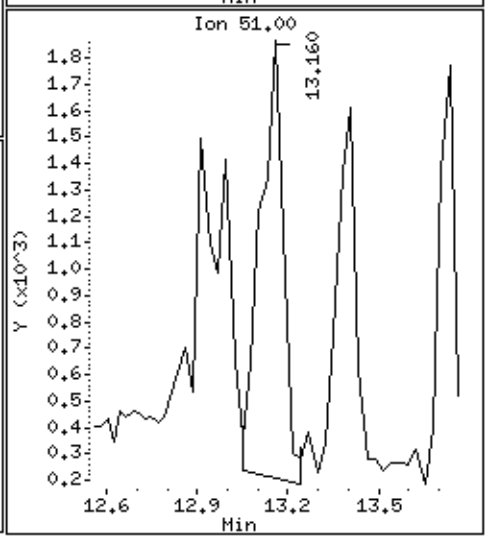



Data File: /chem/msda.i/31Aug2011.b/a083111.d

Date : 31-AUG-2011 15:44

Client ID:

Instrument: msda.i

Sample Info: 250mL #25250

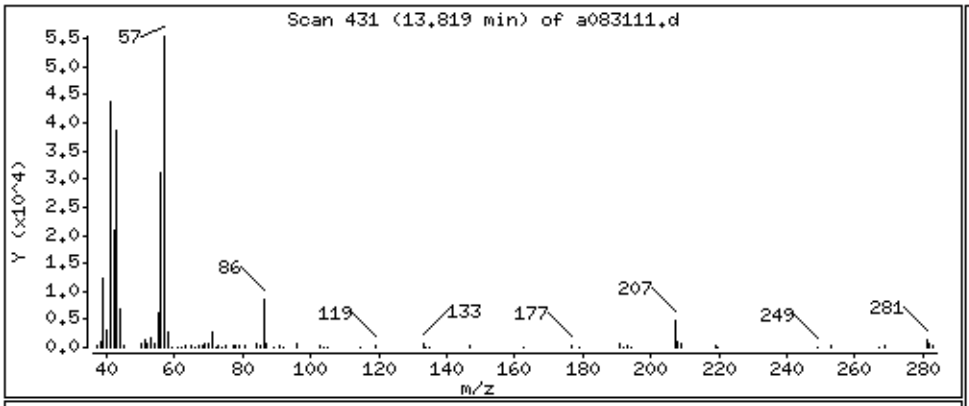
Operator: jc

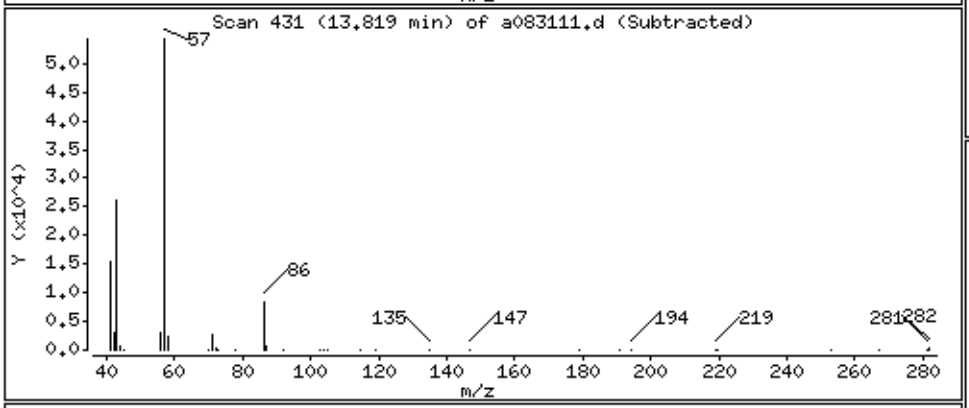
Column phase: RTx-624

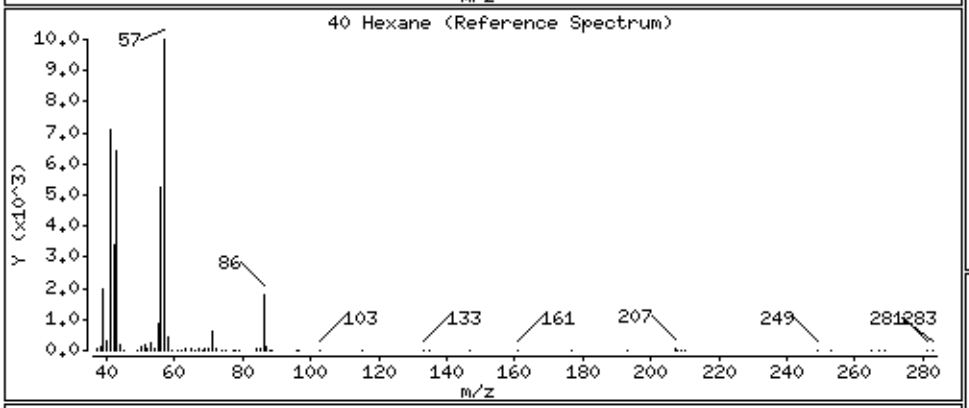
Column diameter: 0.32

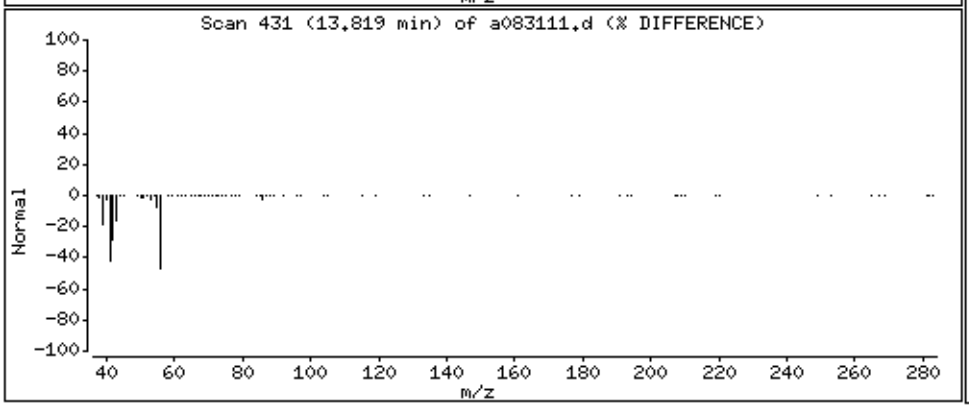
40 Hexane

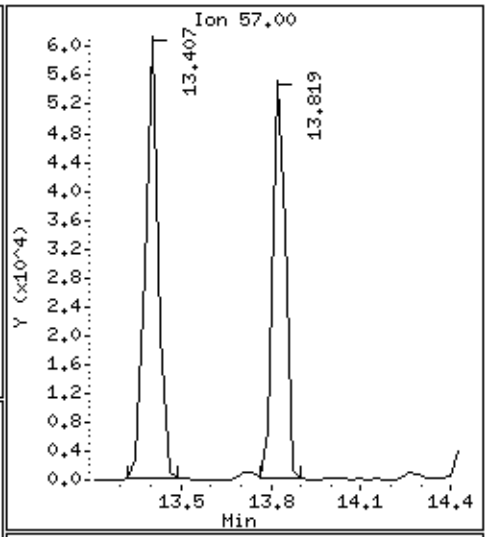
Concentration: 2.651 PPBV

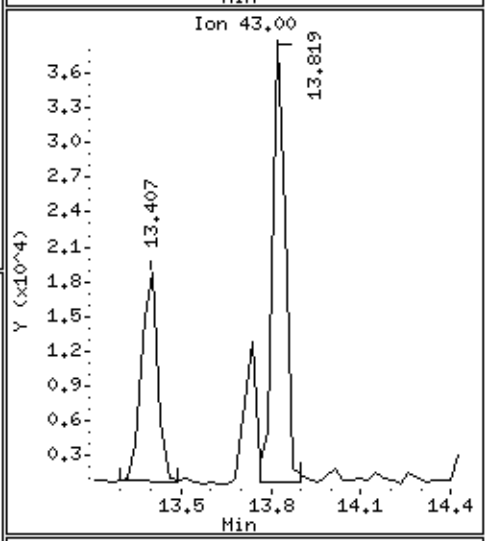


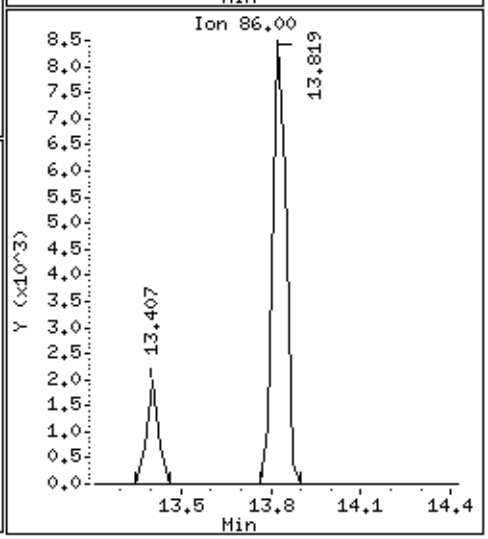



Data File: /chem/msda.i/31Aug2011.b/a083111.d

Date : 31-AUG-2011 15:44

Client ID:

Instrument: msda.i

Sample Info: 250mL #25250

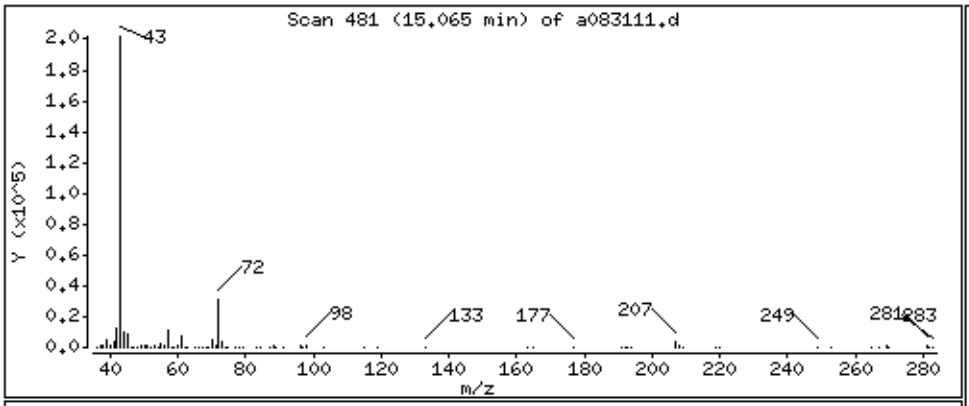
Operator: jc

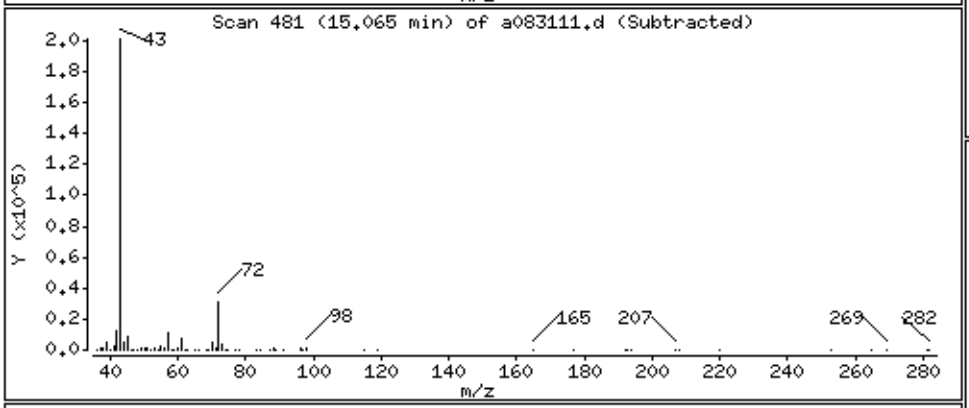
Column phase: RTx-624

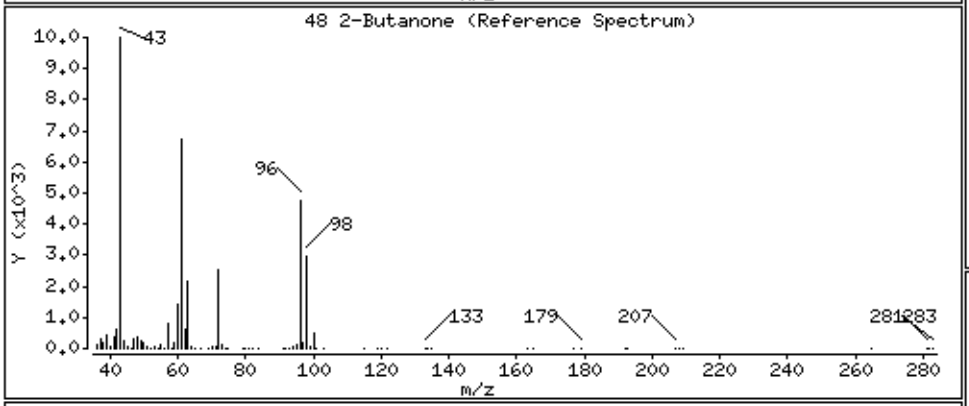
Column diameter: 0.32

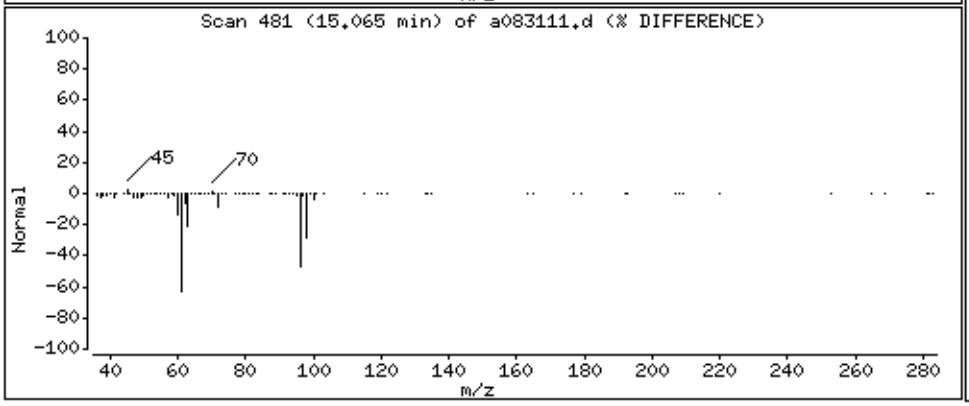
48 2-Butanone

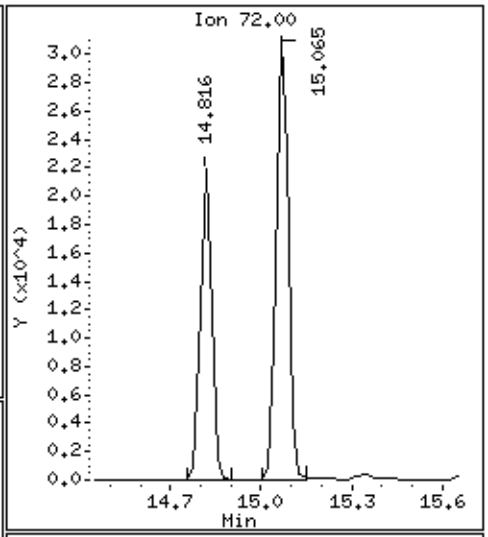
Concentration: 4.756 PPBV

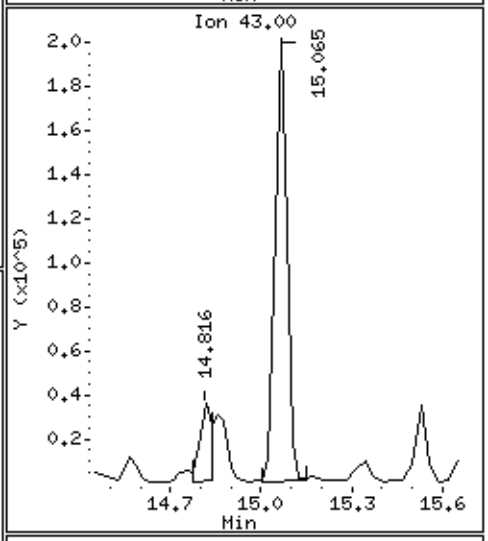


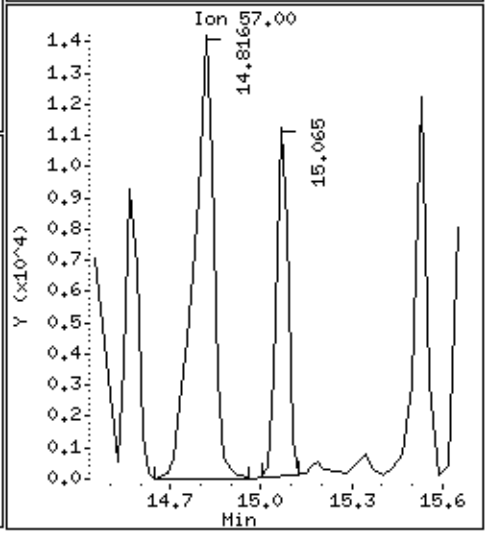



Data File: /chem/msda.i/31Aug2011.b/a083111.d

Date : 31-AUG-2011 15:44

Client ID:

Instrument: msda.i

Sample Info: 250mL #25250

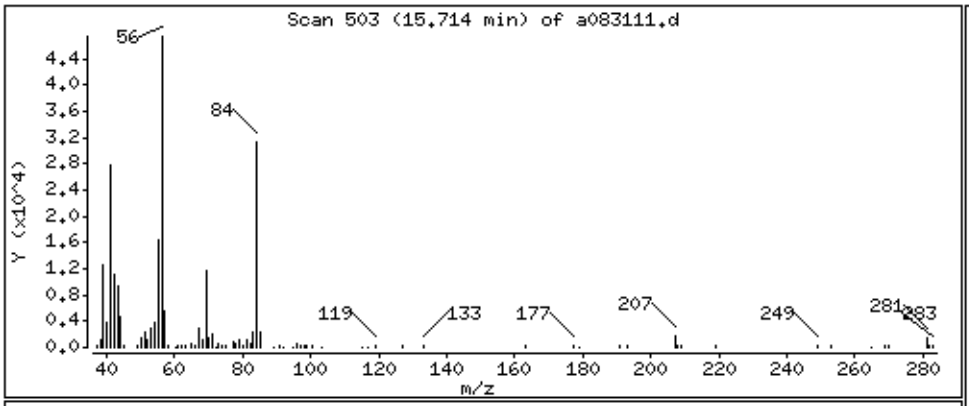
Operator: jc

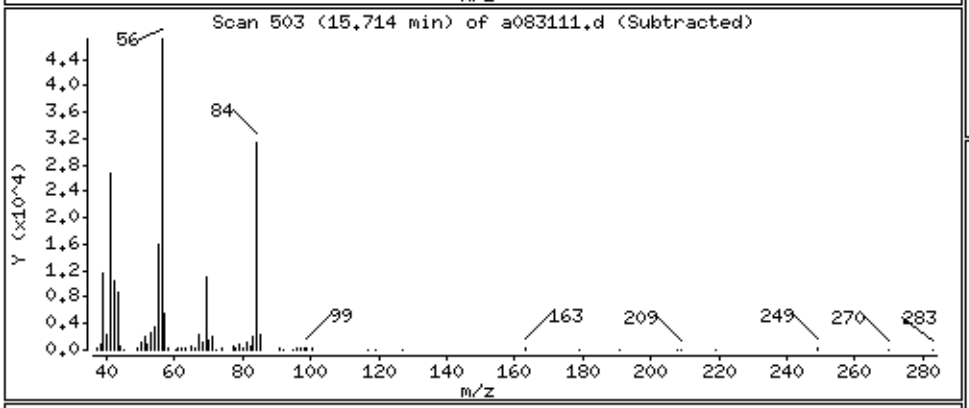
Column phase: RTx-624

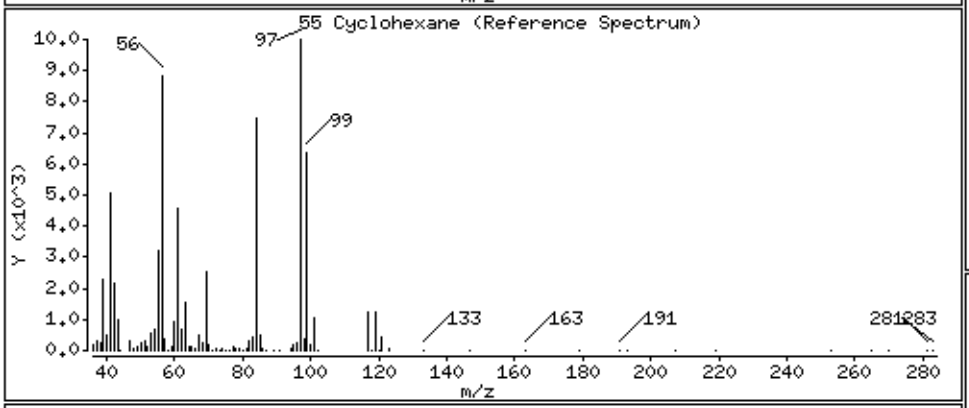
Column diameter: 0.32

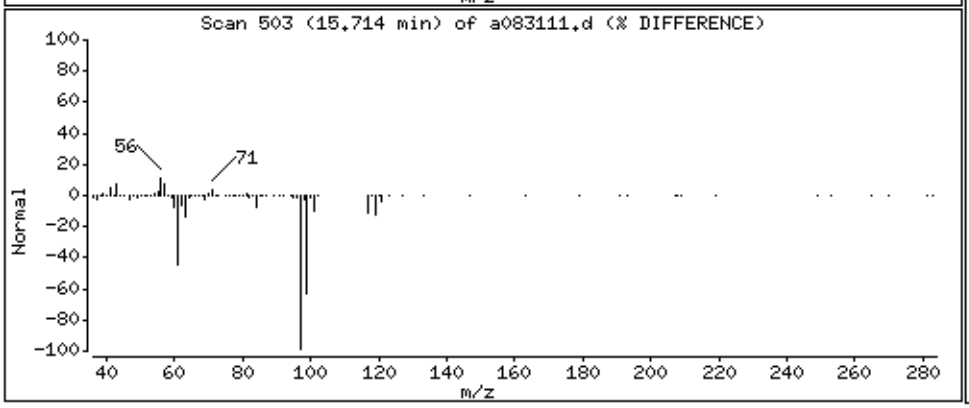
55 Cyclohexane

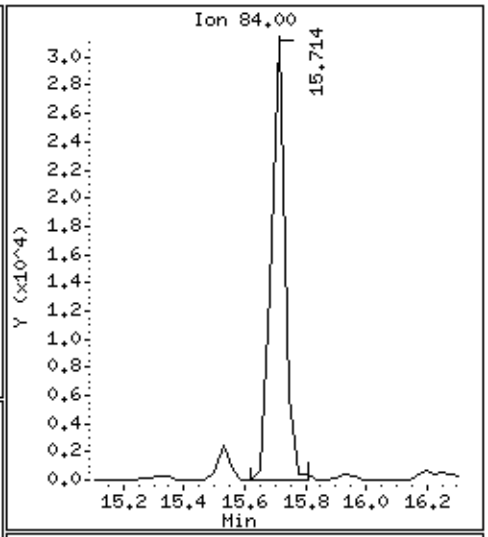
Concentration: 1.906 PPBV

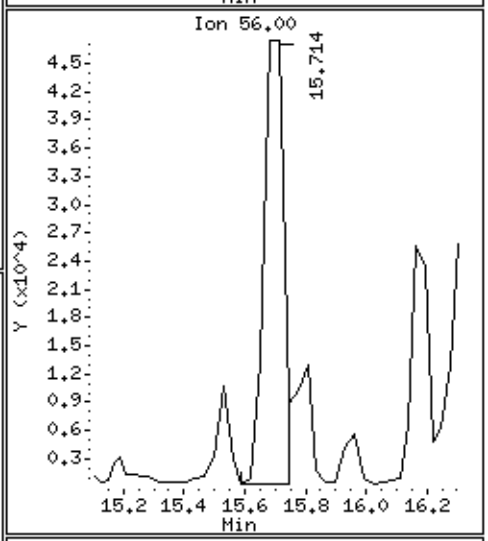


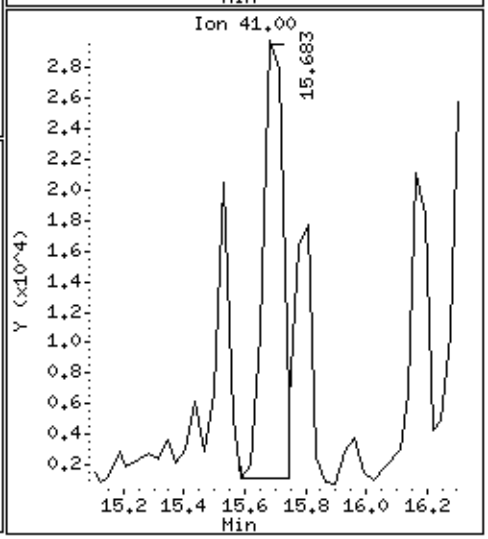



Data File: /chem/msda.i/31Aug2011.b/a083111.d

Date : 31-AUG-2011 15:44

Client ID:

Instrument: msda.i

Sample Info: 250mL #25250

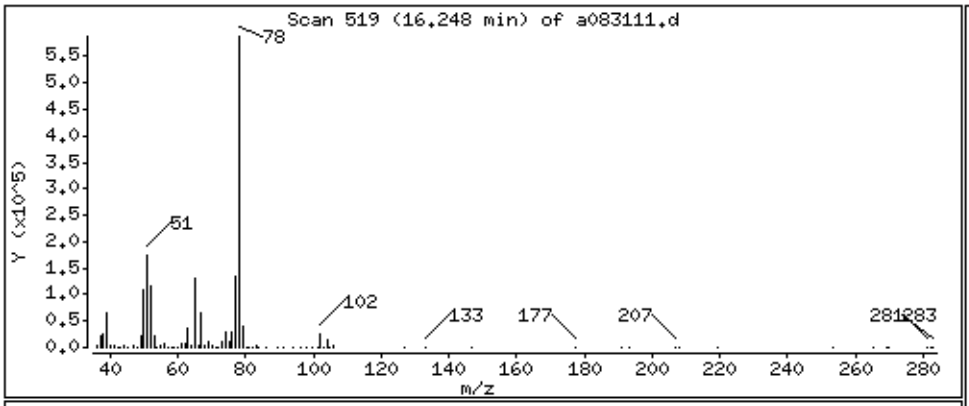
Operator: jc

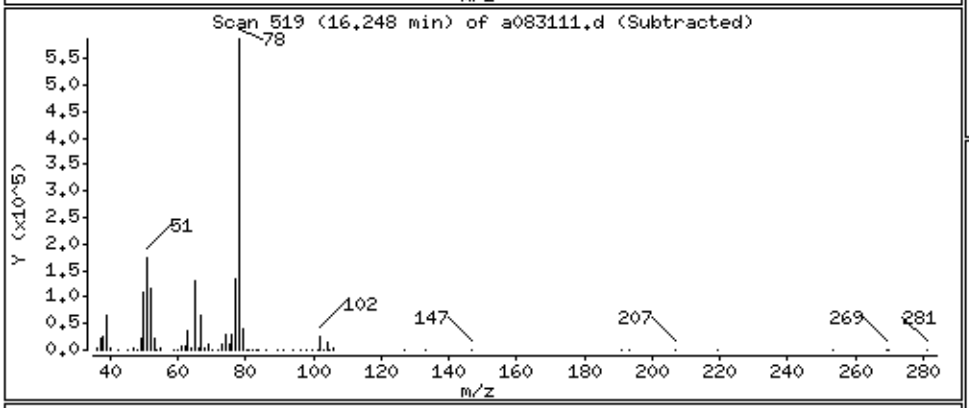
Column phase: RTx-624

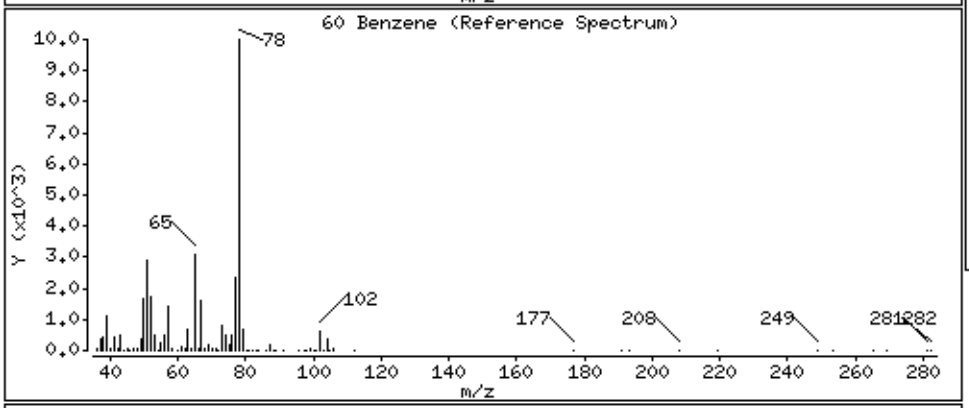
Column diameter: 0.32

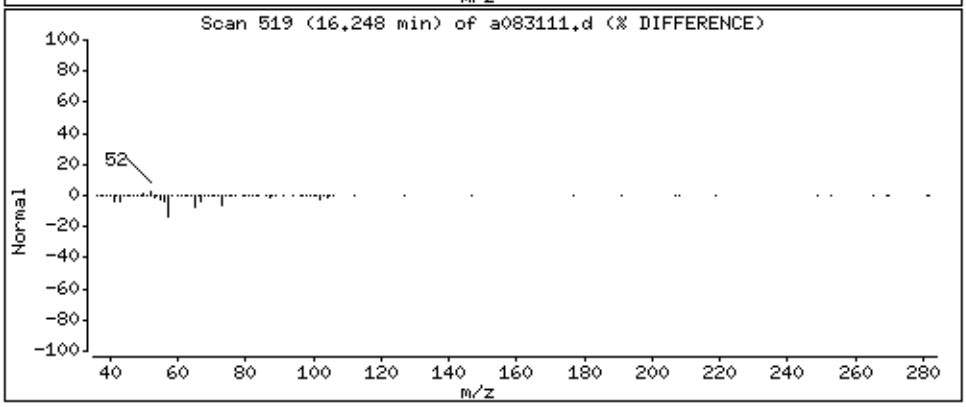
60 Benzene

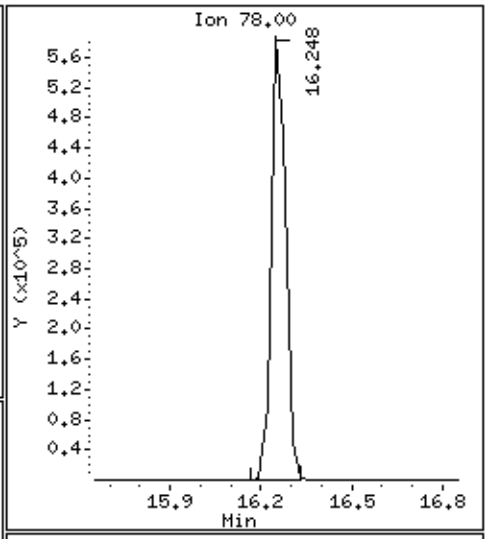
Concentration: 19.414 PPBV

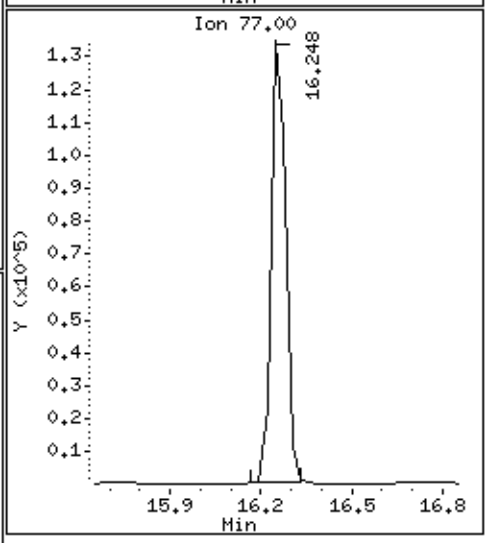


Data File: /chem/msda.i/31Aug2011.b/a083111.d

Date : 31-AUG-2011 15:44

Client ID:

Instrument: msda.i

Sample Info: 250mL #25250

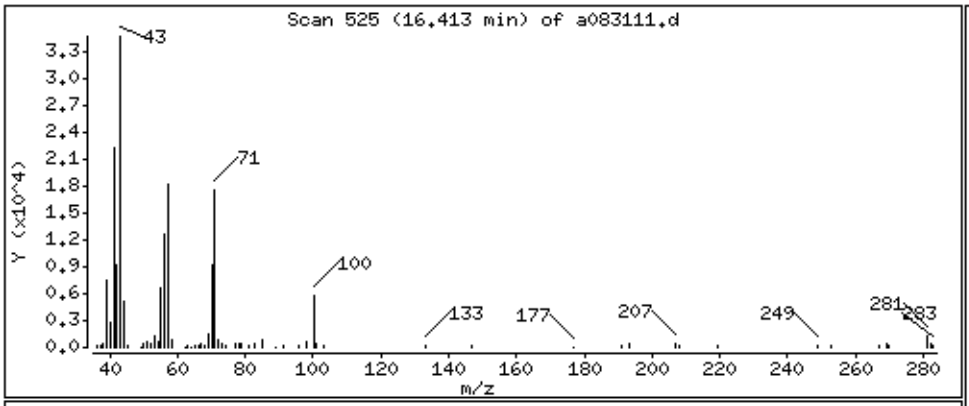
Operator: jc

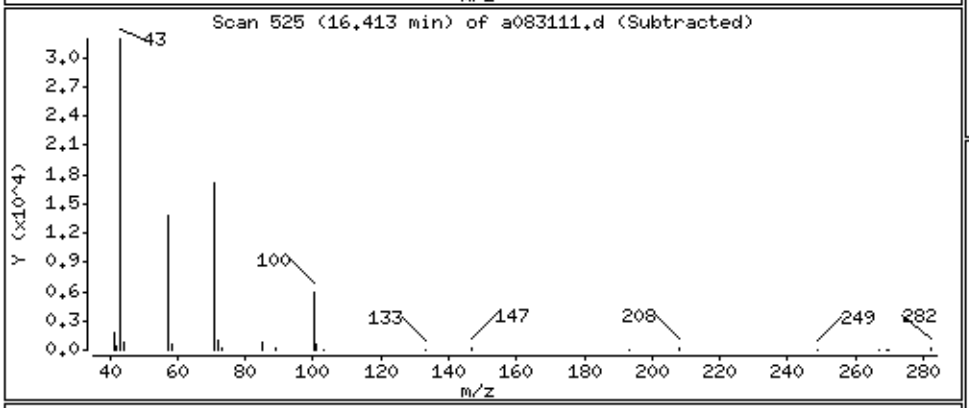
Column phase: RTx-624

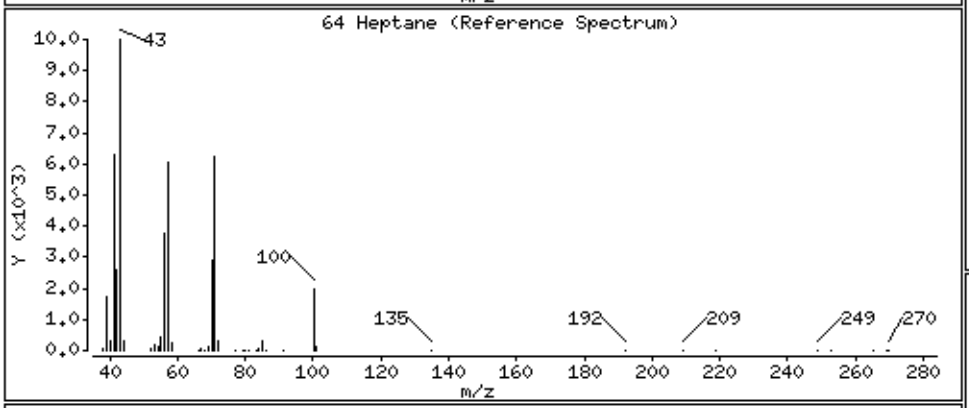
Column diameter: 0.32

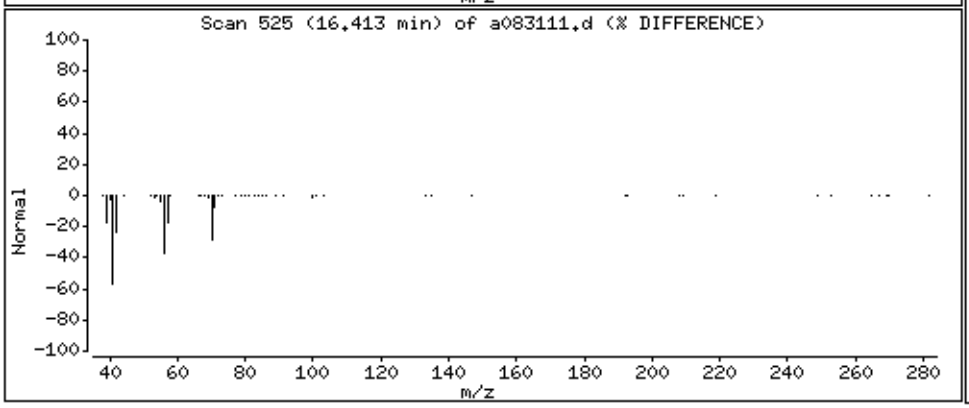
64 Heptane

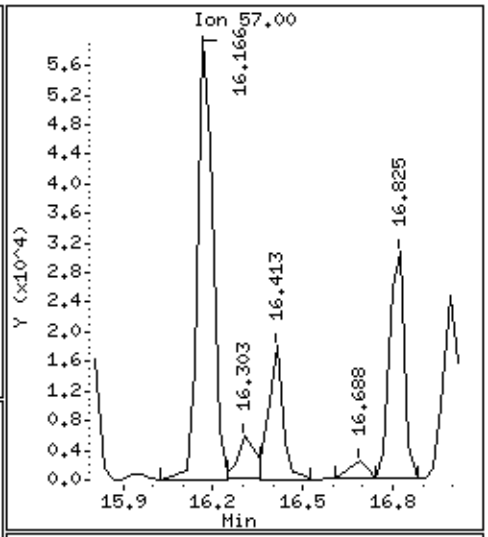
Concentration: 1.778 PPBV

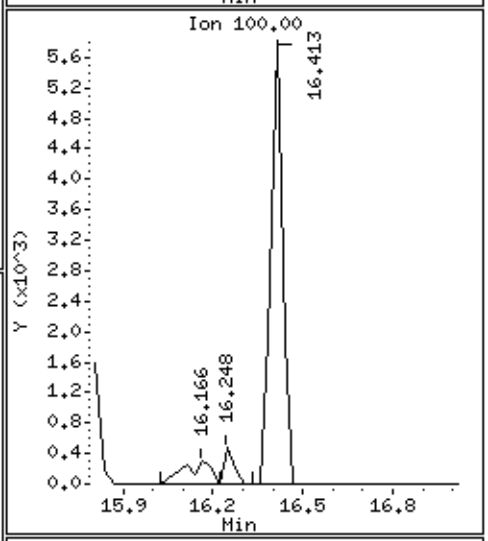


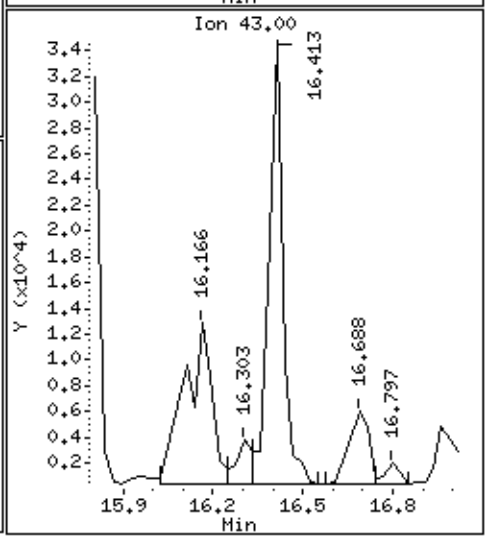



Data File: /chem/msda.i/31Aug2011.b/a083111.d

Date : 31-AUG-2011 15:44

Client ID:

Instrument: msda.i

Sample Info: 250mL #25250

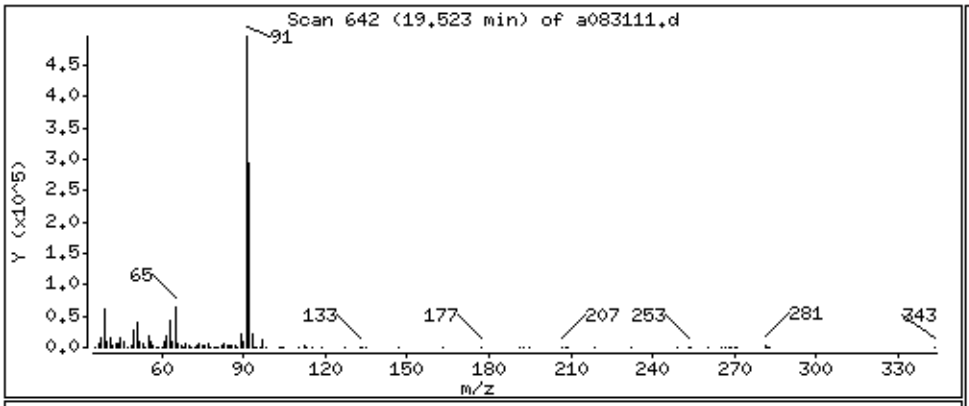
Operator: jc

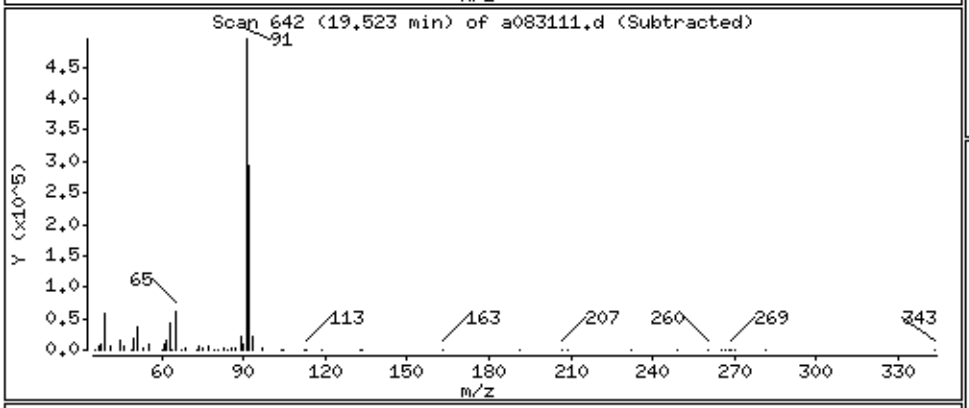
Column phase: RTx-624

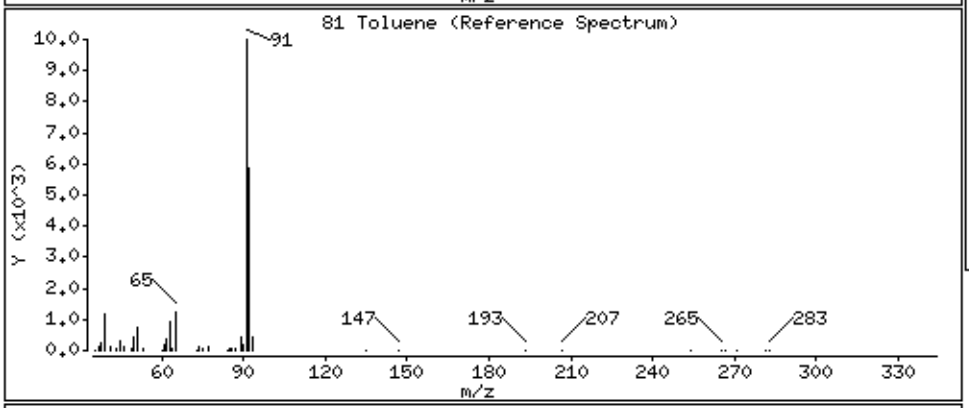
Column diameter: 0.32

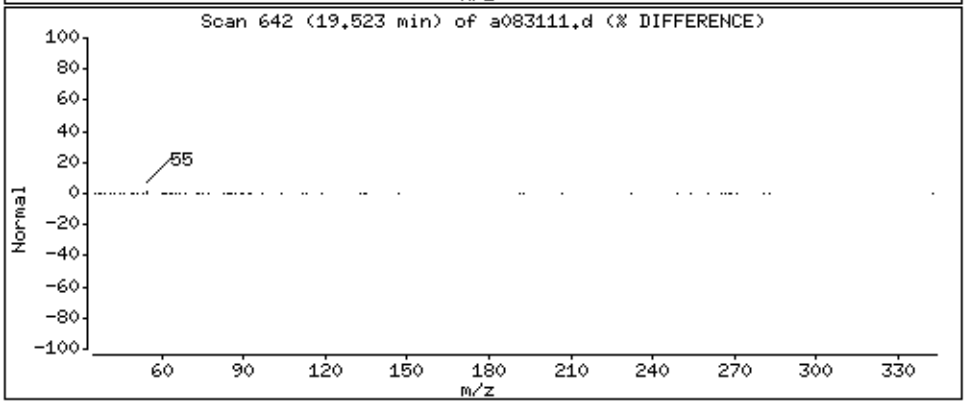
81 Toluene

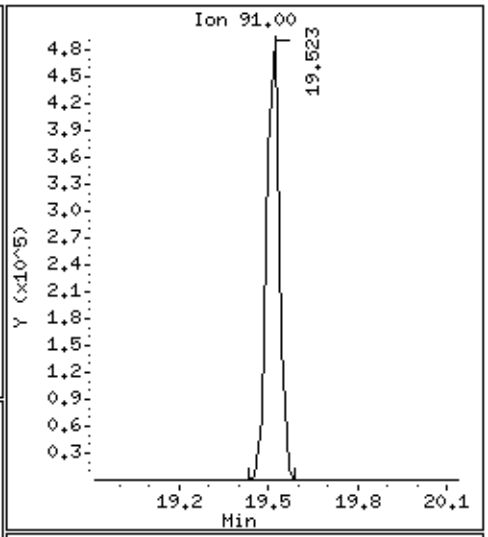
Concentration: 12.782 PPBV

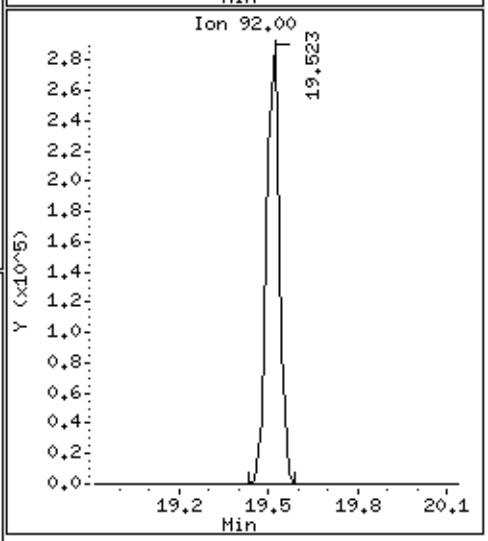


Data File: /chem/msda.i/31Aug2011.b/a083111.d

Date : 31-AUG-2011 15:44

Client ID:

Instrument: msda.i

Sample Info: 250mL #25250

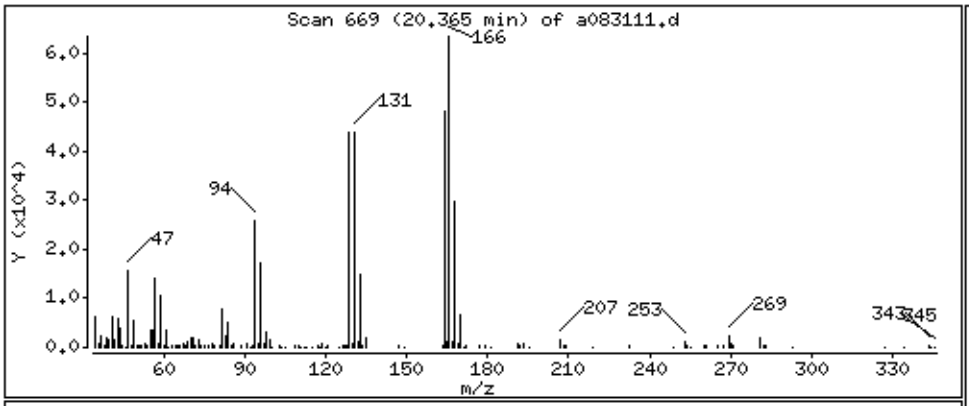
Operator: jc

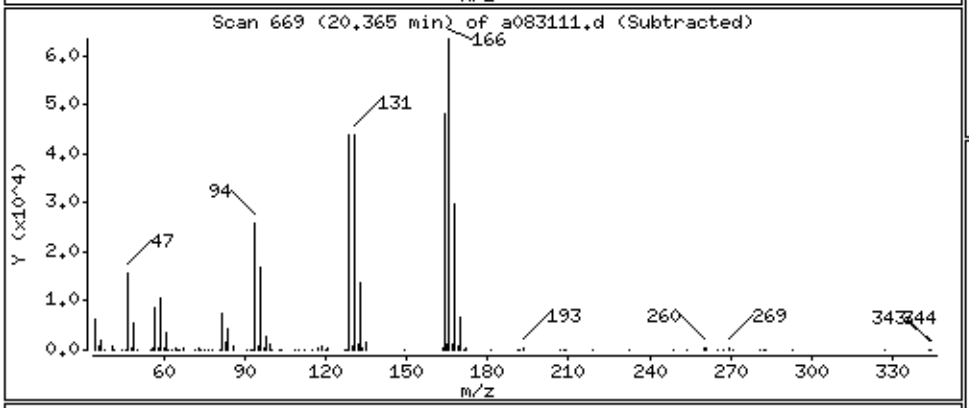
Column phase: RTx-624

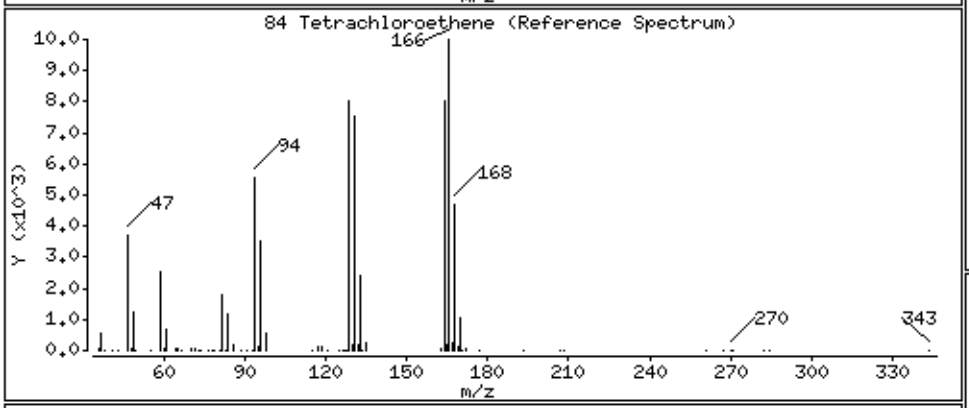
Column diameter: 0.32

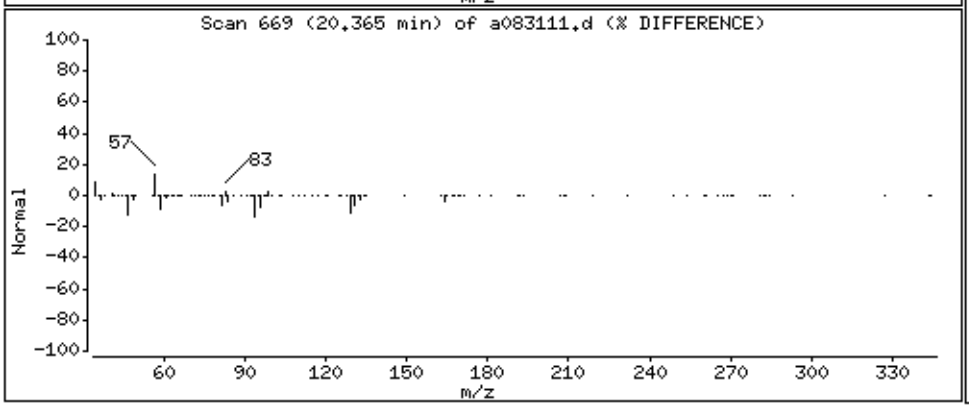
84 Tetrachloroethene

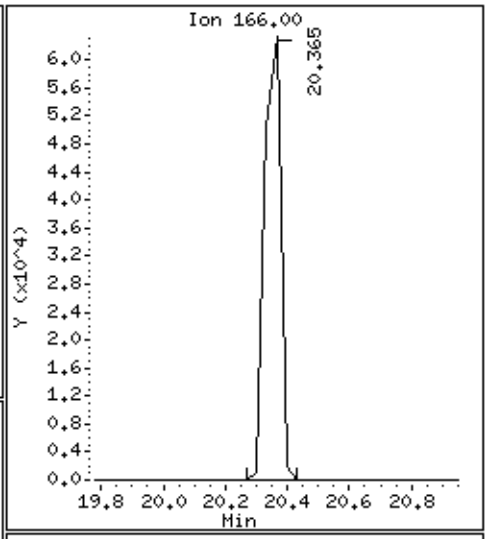
Concentration: 5.515 PPBV

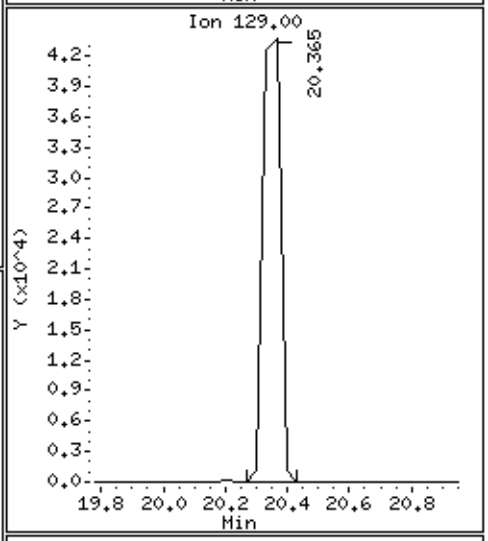


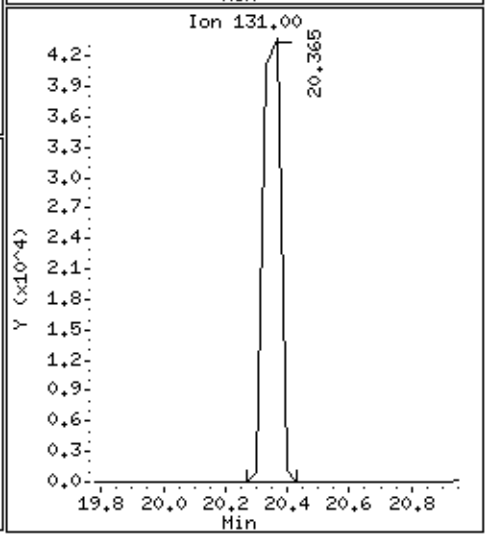



Data File: /chem/msda.i/31Aug2011.b/a083111.d

Date : 31-AUG-2011 15:44

Client ID:

Instrument: msda.i

Sample Info: 250mL #25250

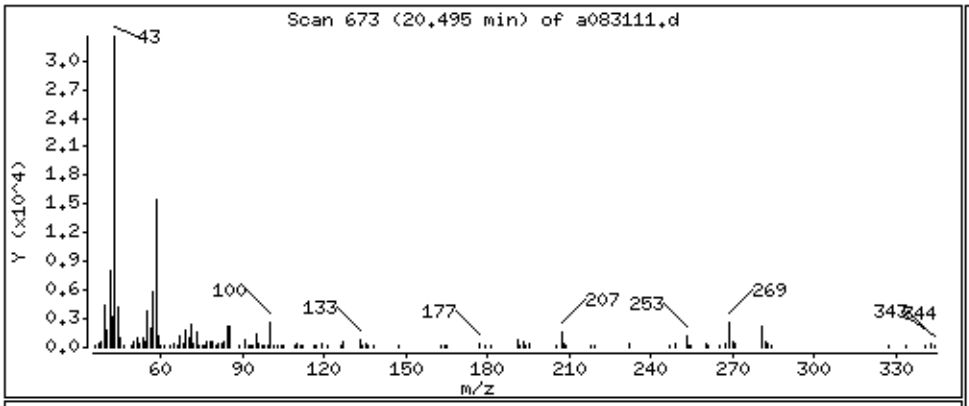
Operator: jc

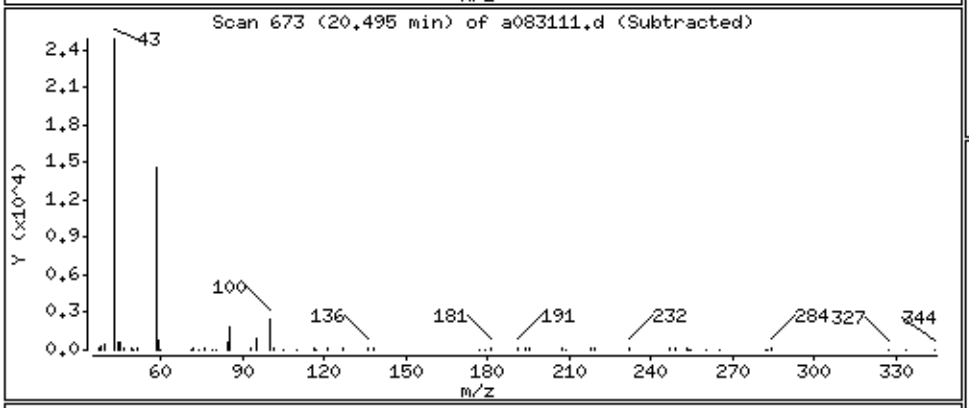
Column phase: RTx-624

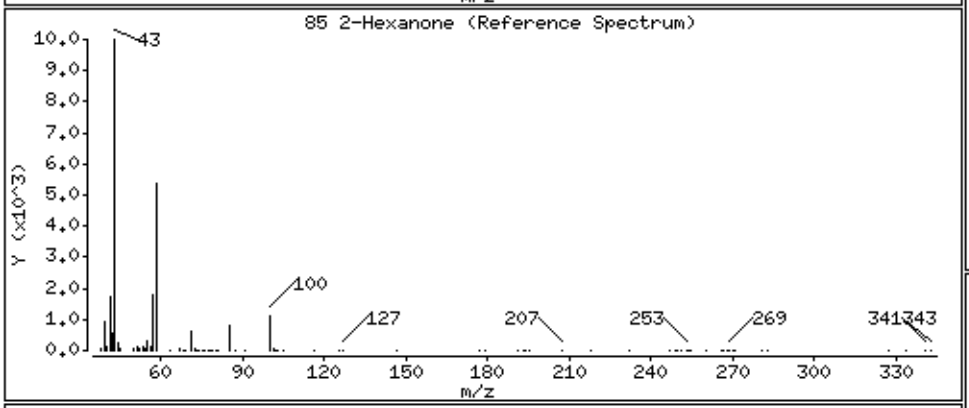
Column diameter: 0.32

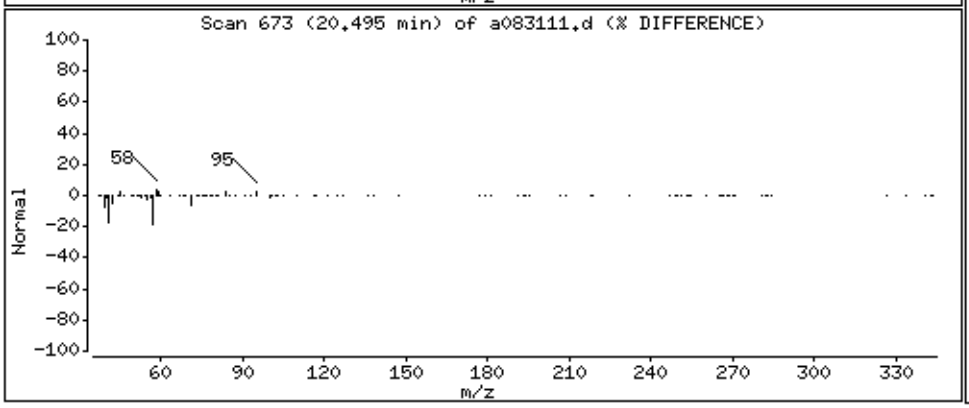
85 2-Hexanone

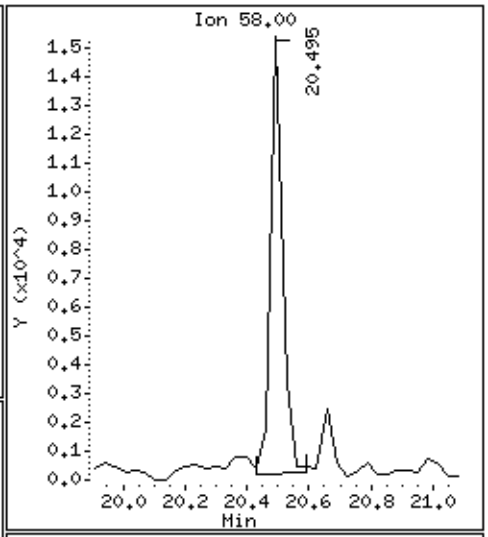
Concentration: 1.099 PPBV

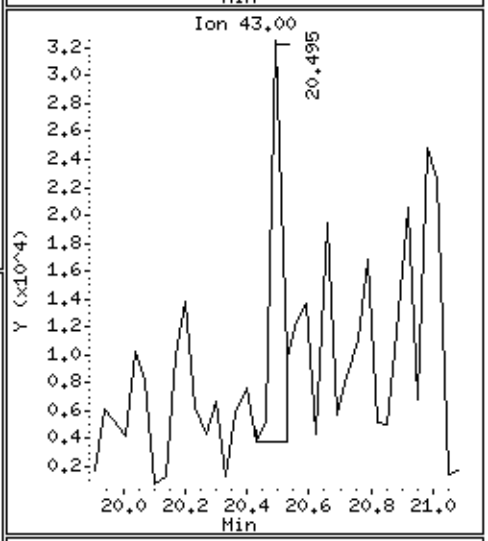


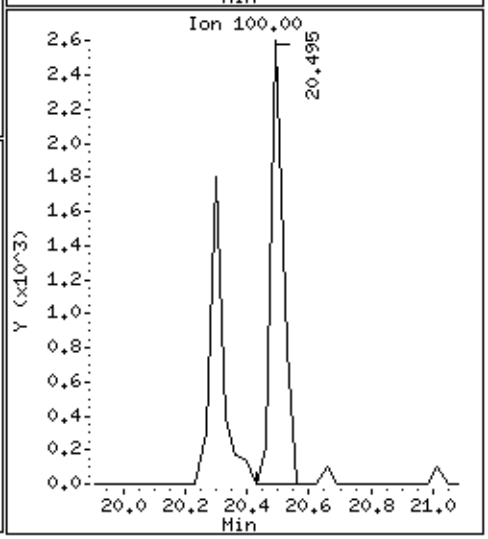



Data File: /chem/msda.i/31Aug2011.b/a083111.d

Date : 31-AUG-2011 15:44

Client ID:

Instrument: msda.i

Sample Info: 250mL #25250

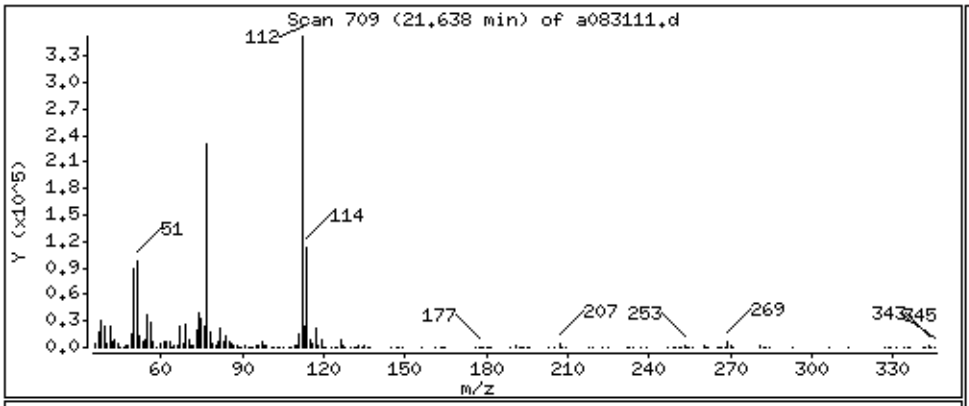
Operator: jc

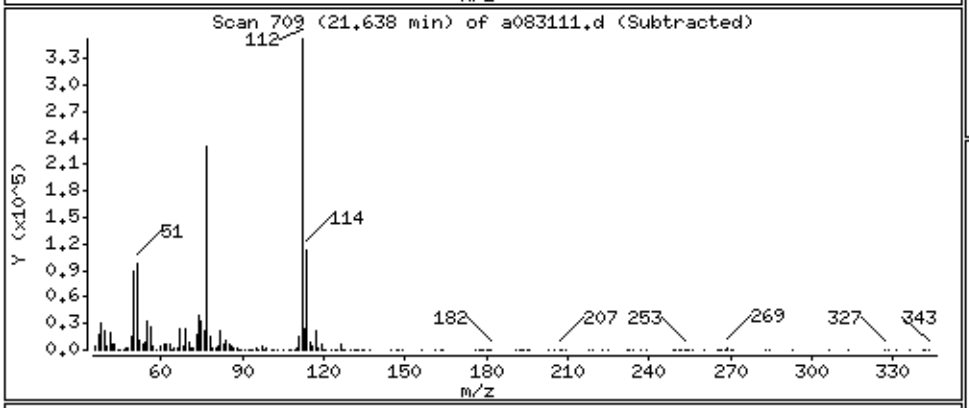
Column phase: RTx-624

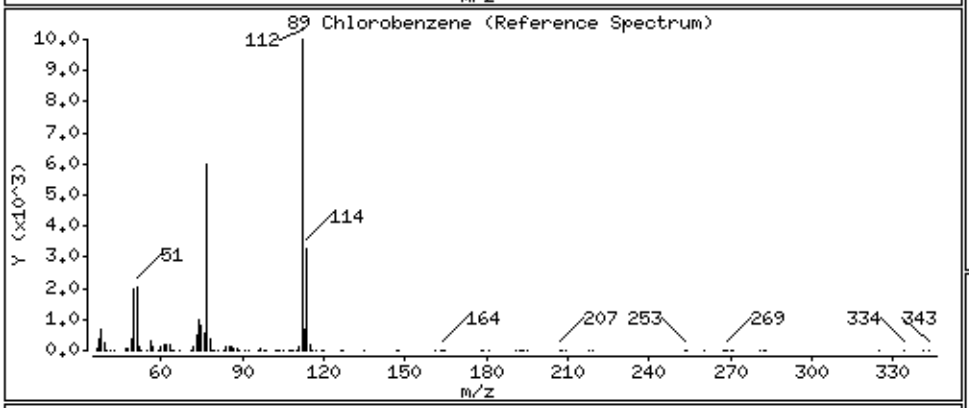
Column diameter: 0.32

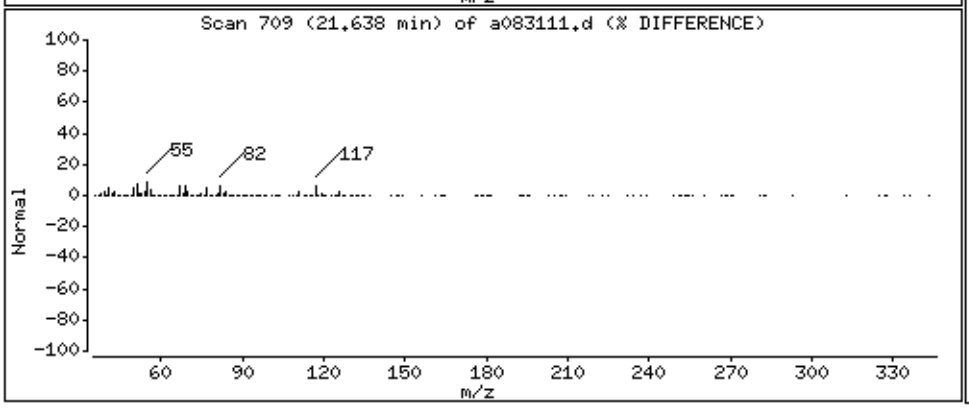
89 Chlorobenzene

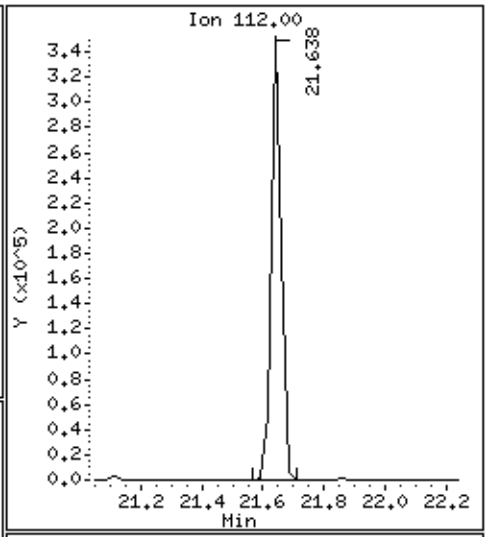
Concentration: 11.697 PPBV

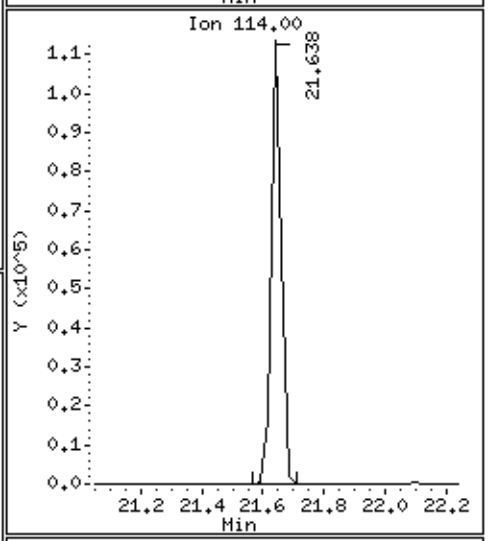


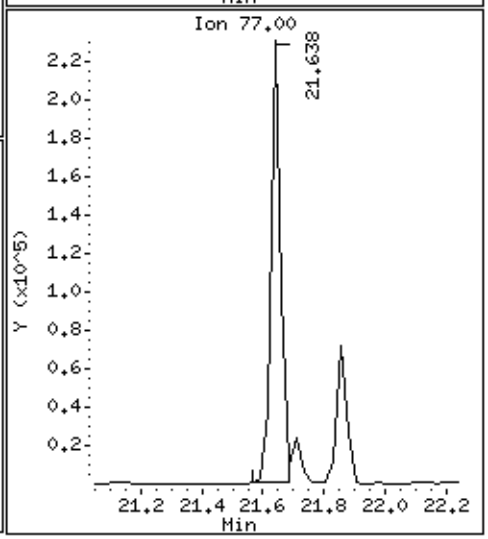



Data File: /chem/msda.i/31Aug2011.b/a083111.d

Date : 31-AUG-2011 15:44

Client ID:

Instrument: msda.i

Sample Info: 250mL #25250

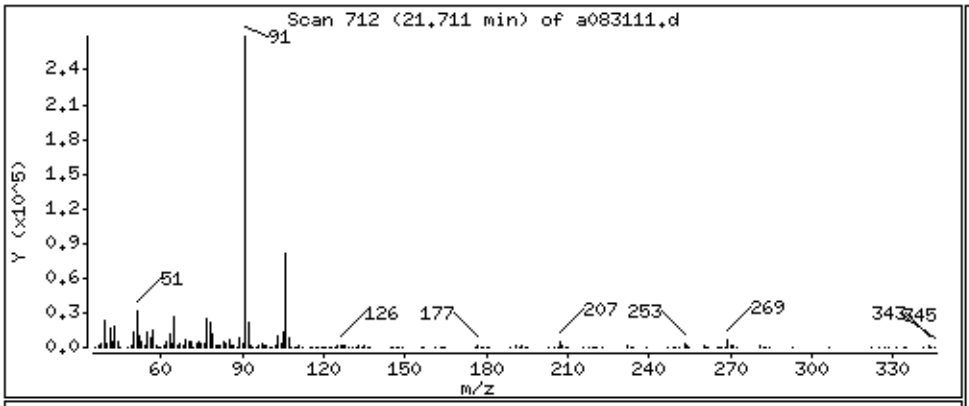
Operator: jc

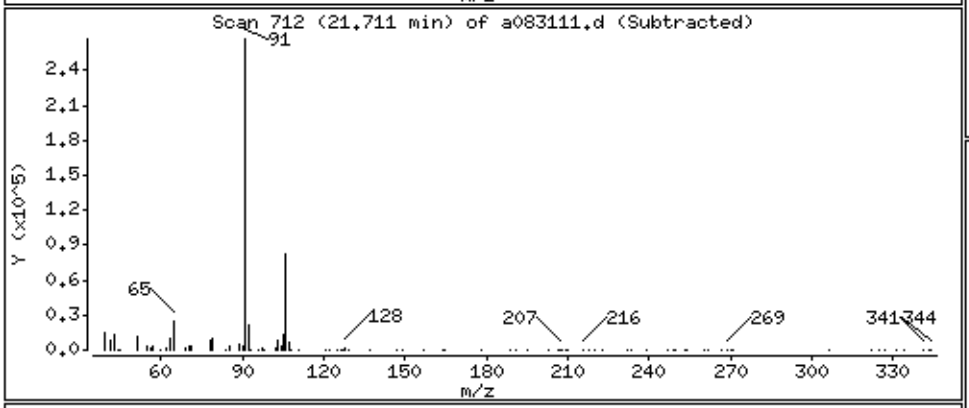
Column phase: RTx-624

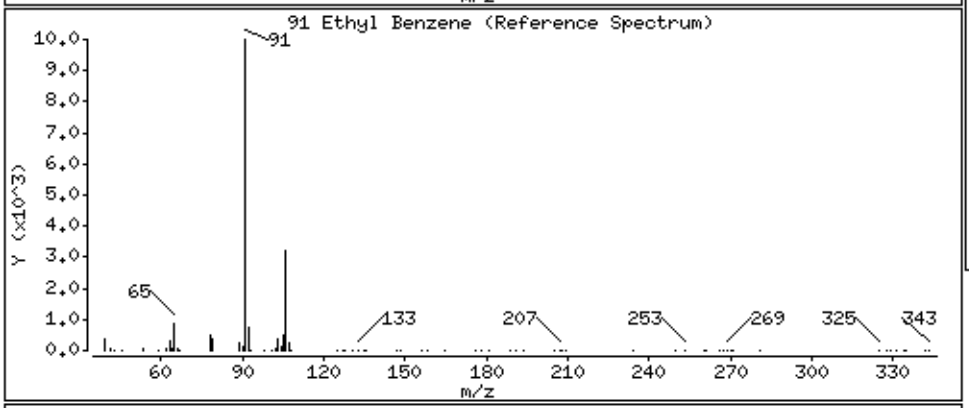
Column diameter: 0.32

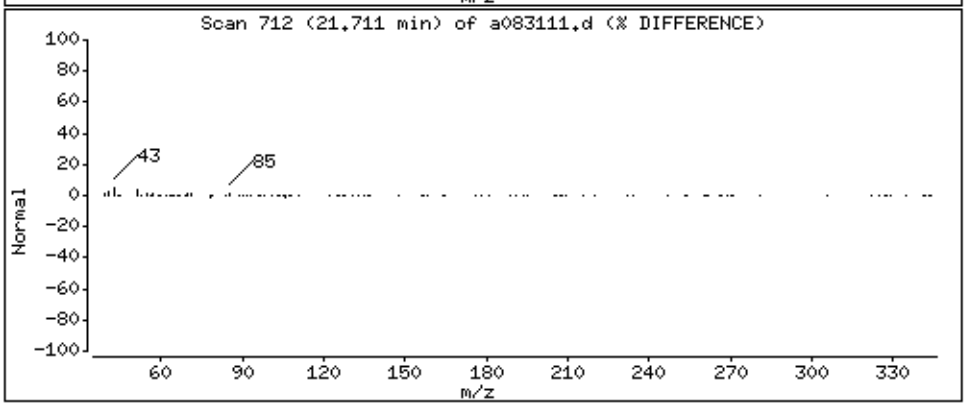
91 Ethyl Benzene

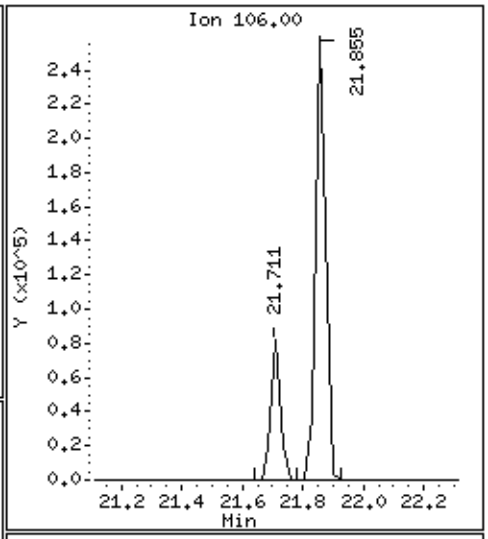
Concentration: 4.743 PPBV

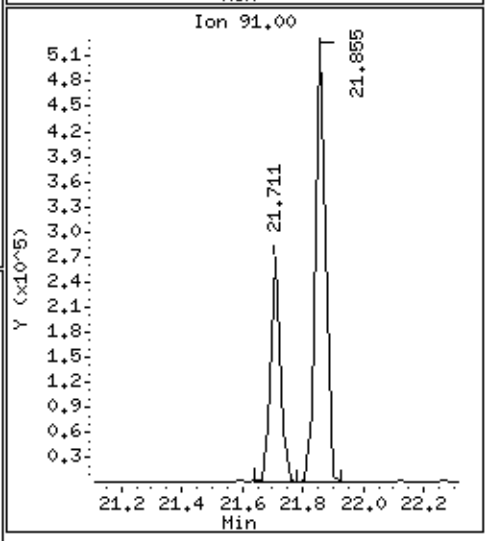


Data File: /chem/msda.i/31Aug2011.b/a083111.d

Date : 31-AUG-2011 15:44

Client ID:

Instrument: msda.i

Sample Info: 250mL #25250

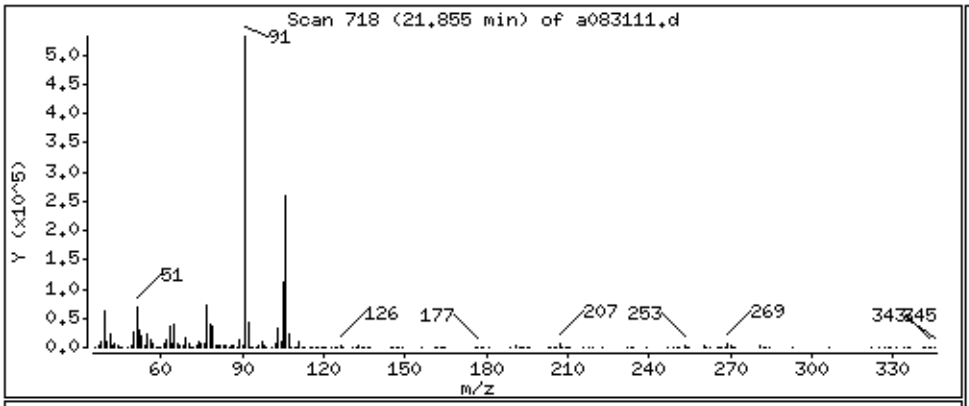
Operator: jc

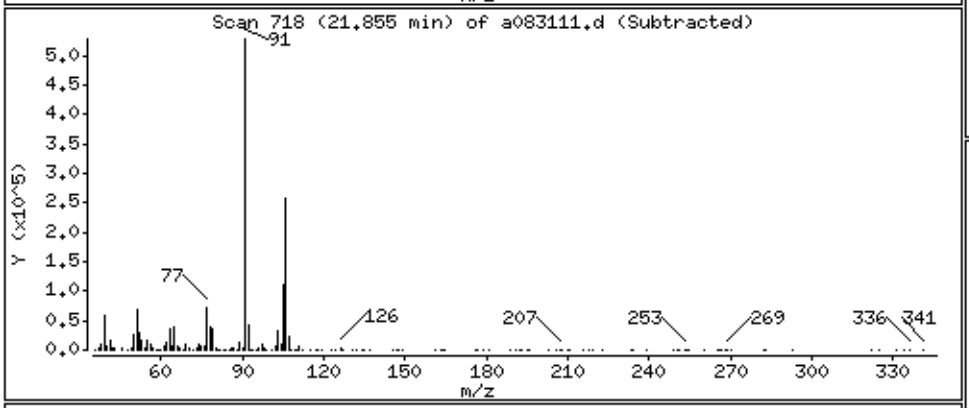
Column phase: RTx-624

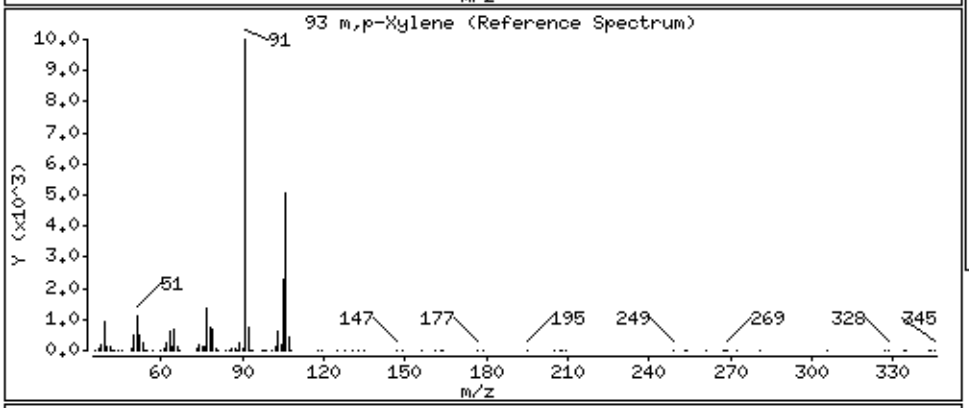
Column diameter: 0.32

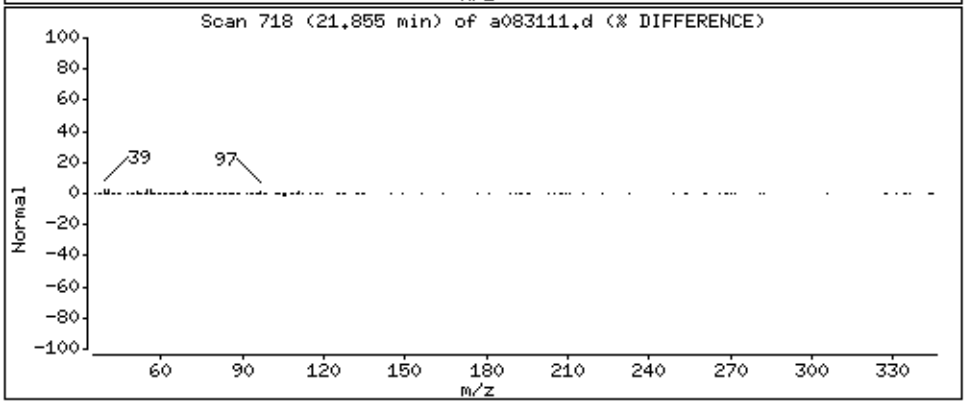
93 m,p-Xylene

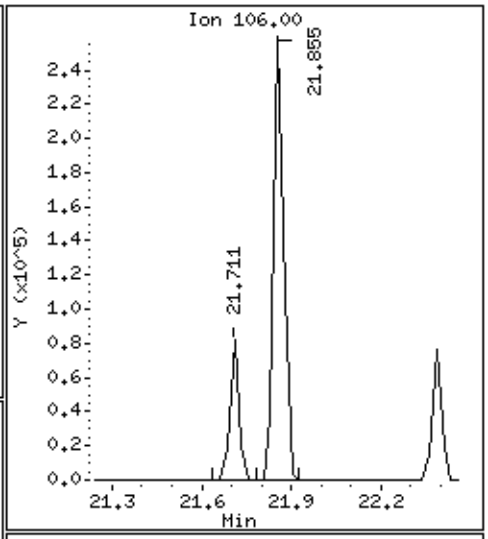
Concentration: 14.488 PPBV

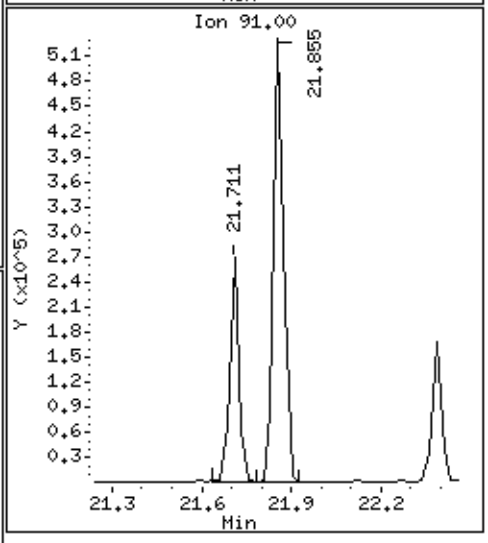


Data File: /chem/msda.i/31Aug2011.b/a083111.d

Date : 31-AUG-2011 15:44

Client ID:

Instrument: msda.i

Sample Info: 250mL #25250

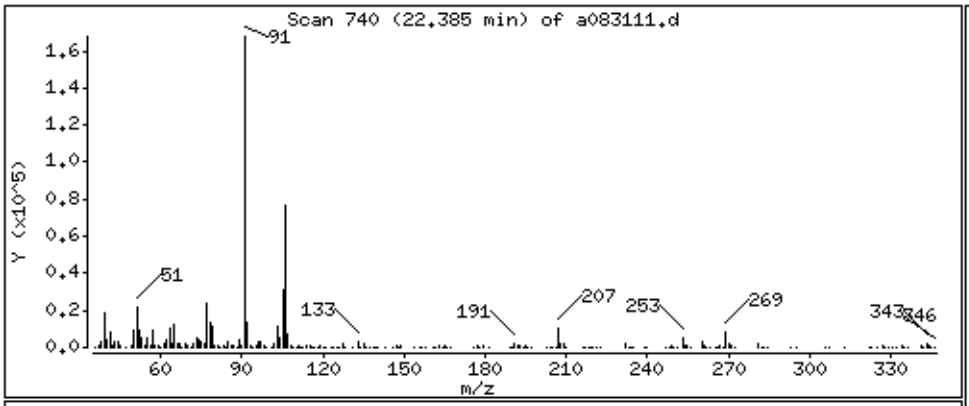
Operator: jc

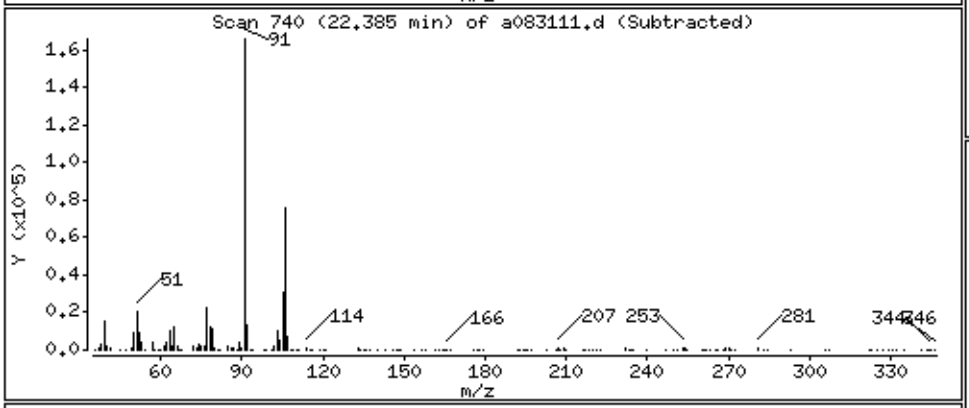
Column phase: RTx-624

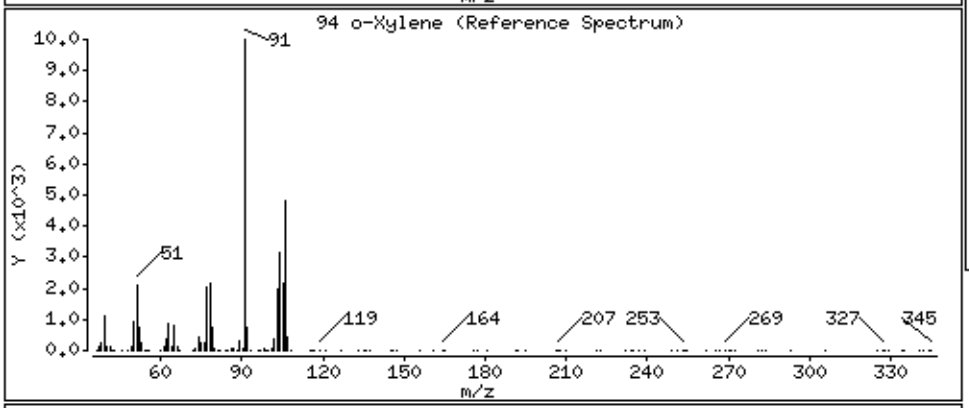
Column diameter: 0.32

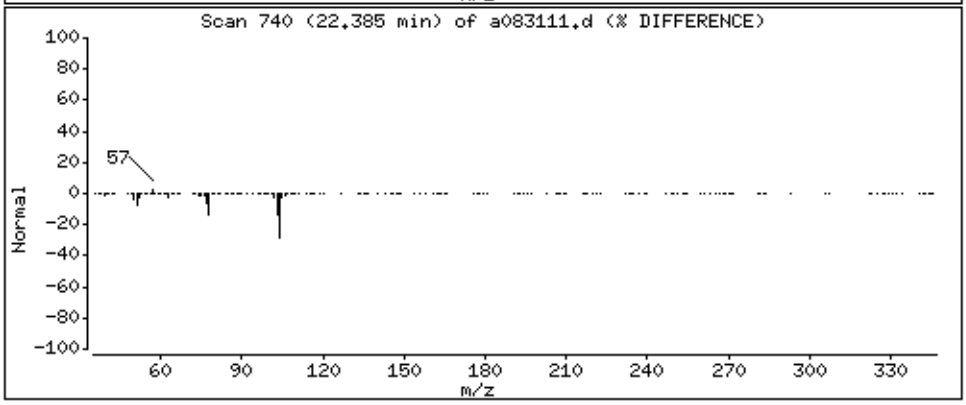
94 o-Xylene

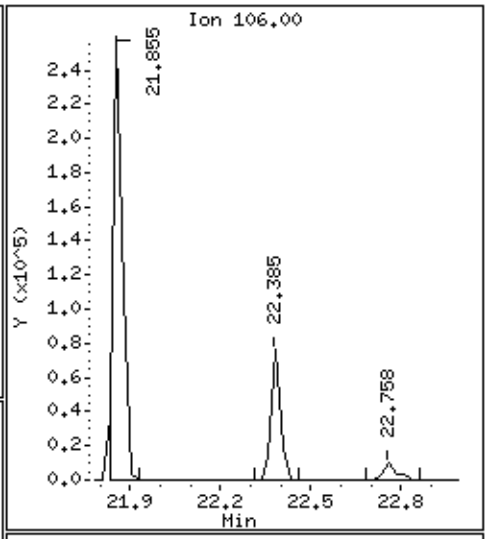
Concentration: 4.053 PPBV

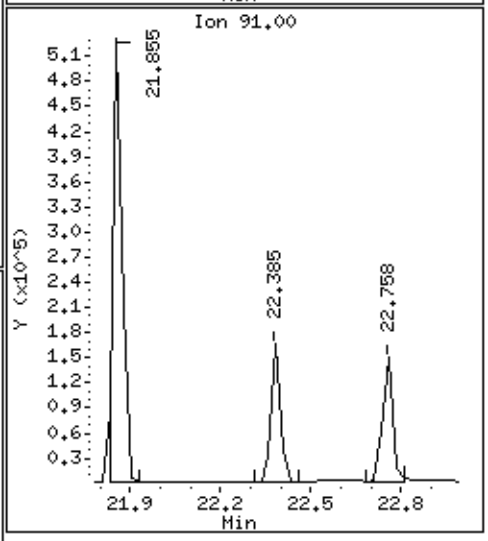


Data File: /chem/msda.i/31Aug2011.b/a083111.d

Date : 31-AUG-2011 15:44

Client ID:

Instrument: msda.i

Sample Info: 250mL #25250

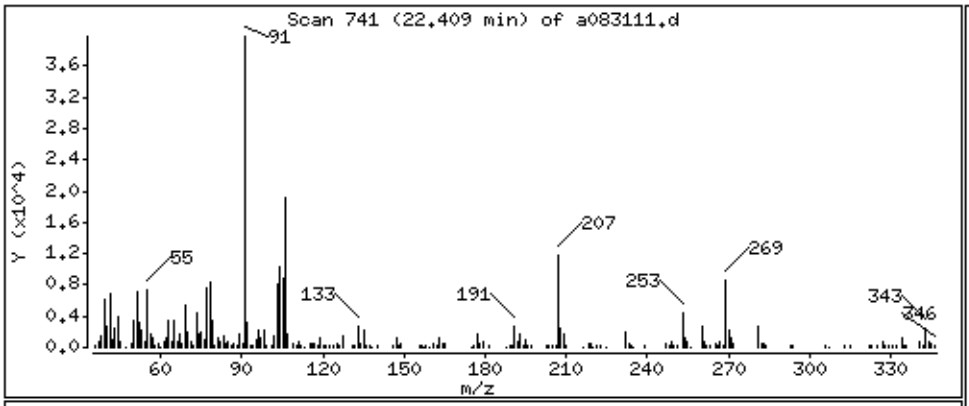
Operator: jc

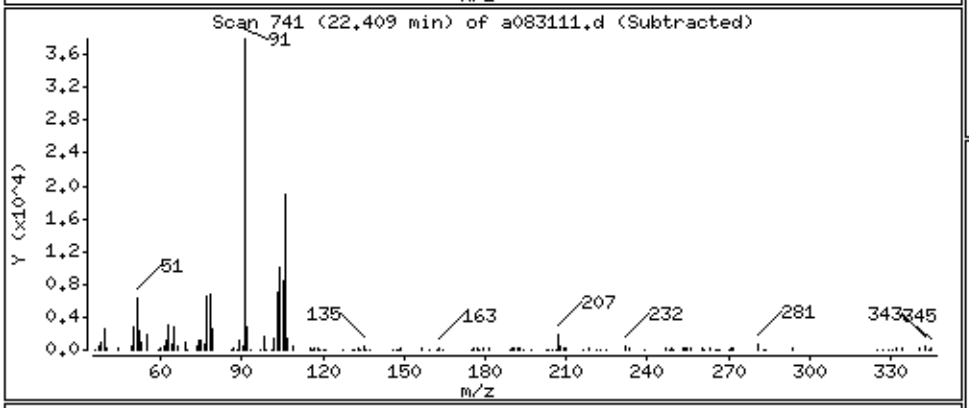
Column phase: RTx-624

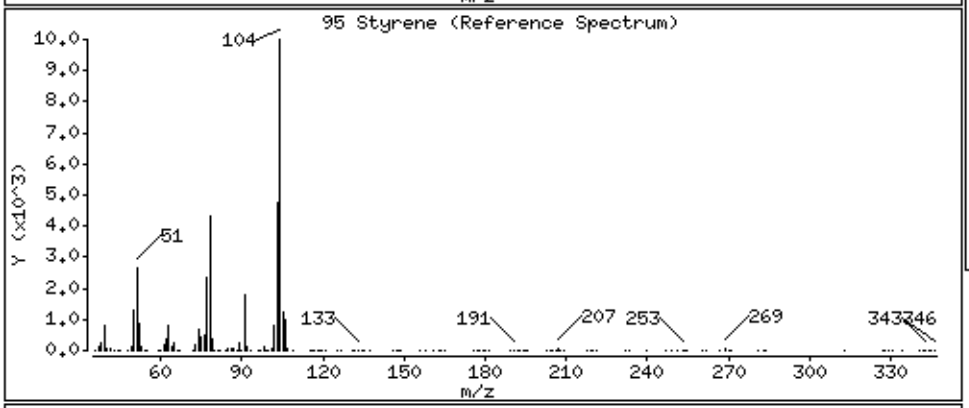
Column diameter: 0.32

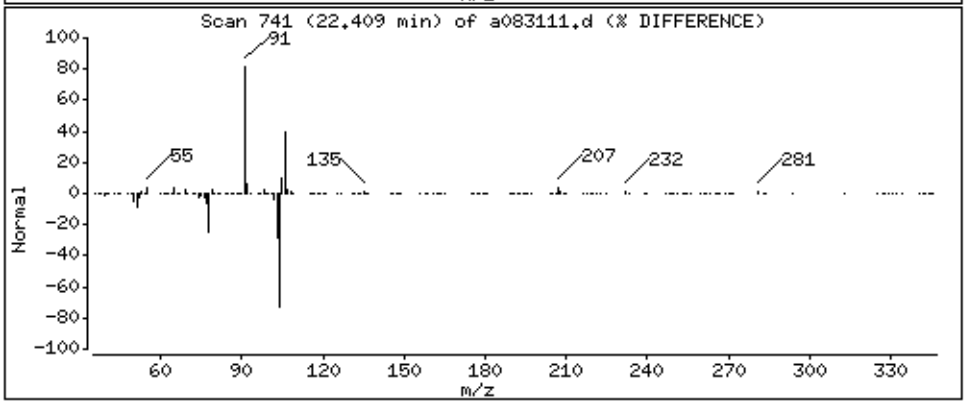
95 Styrene

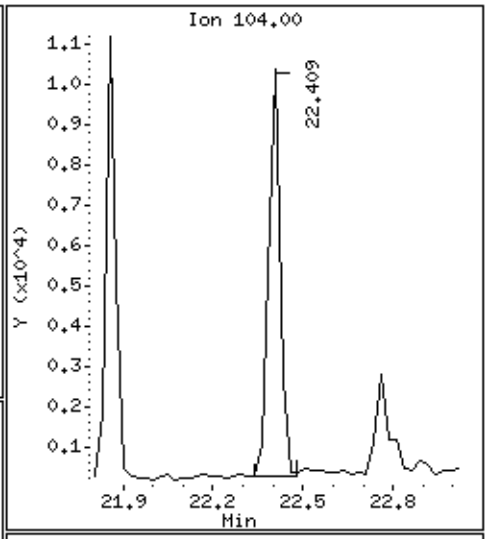
Concentration: 0.4192 PPBV

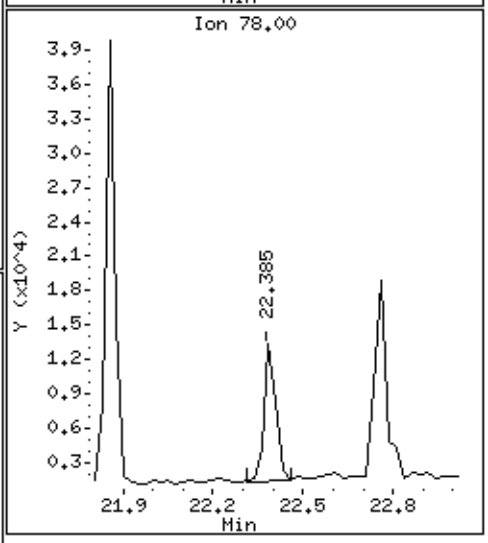


Data File: /chem/msda.i/31Aug2011.b/a083111.d

Date : 31-AUG-2011 15:44

Client ID:

Instrument: msda.i

Sample Info: 250mL #25250

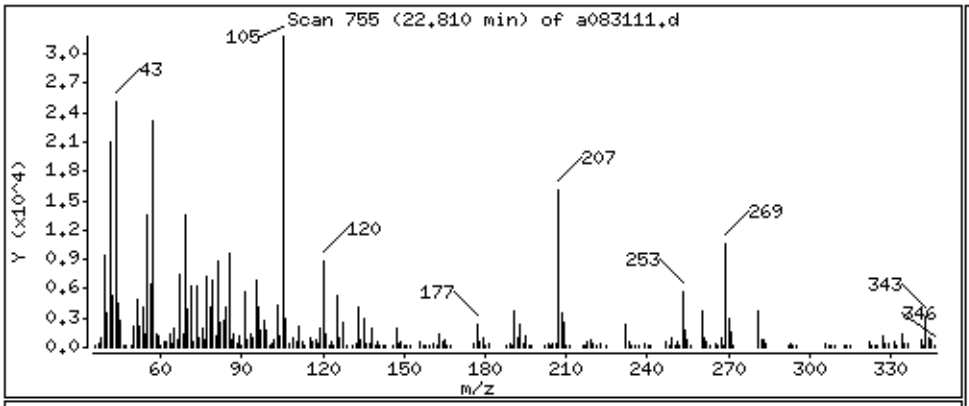
Operator: jc

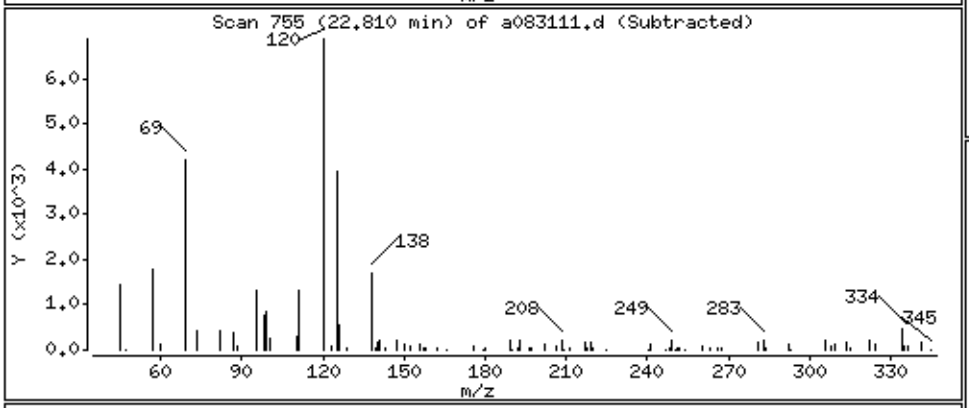
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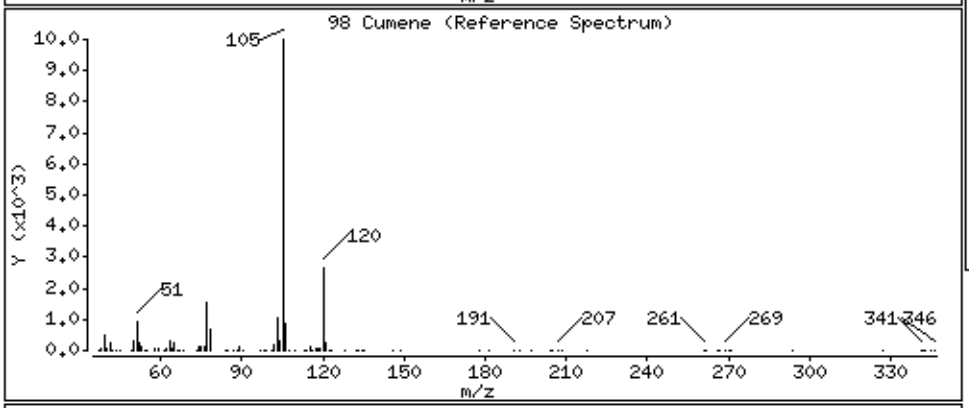
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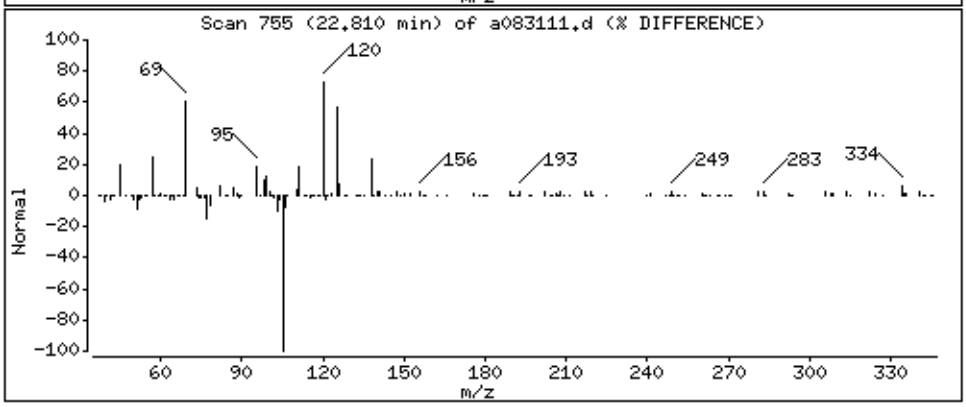
98 Cumene

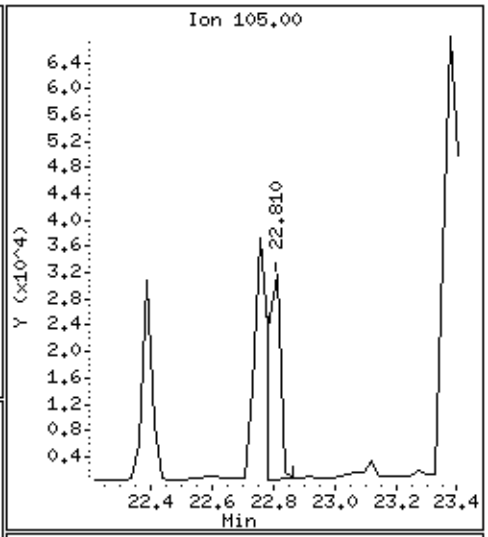
Concentration: 0.7254 PPBV

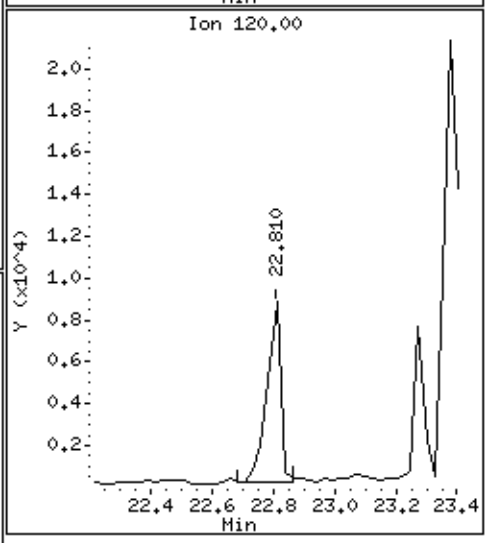


Data File: /chem/msda.i/31Aug2011.b/a083111.d

Date : 31-AUG-2011 15:44

Client ID:

Instrument: msda.i

Sample Info: 250mL #25250

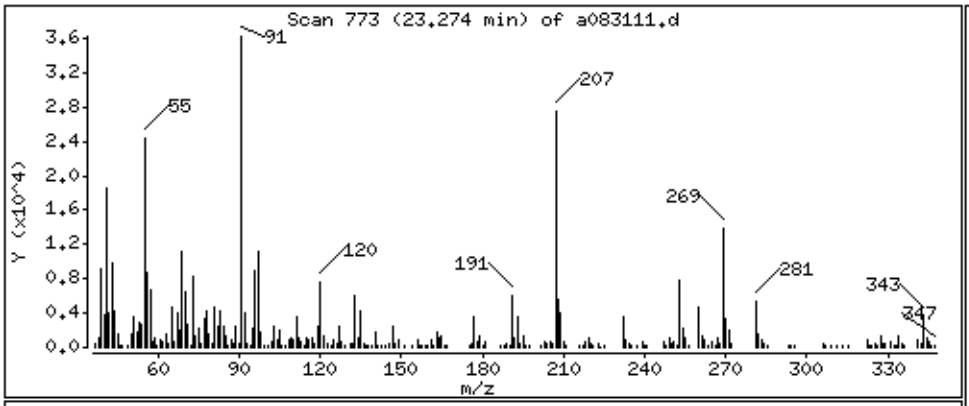
Operator: jc

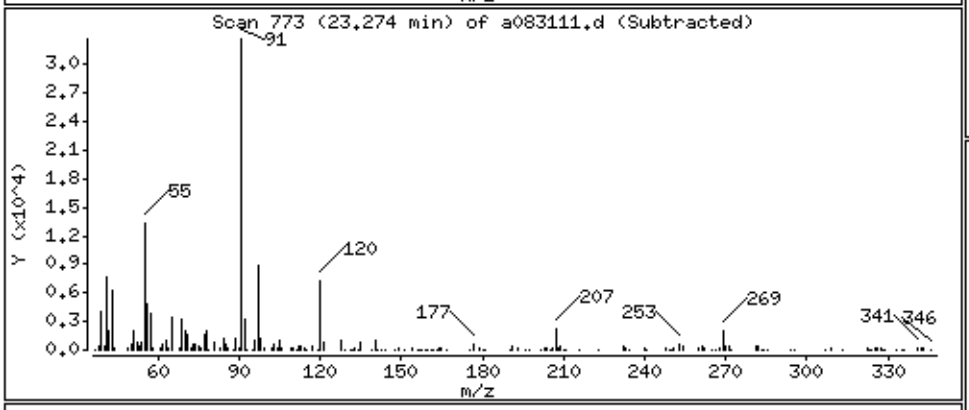
Column phase: RTx-624

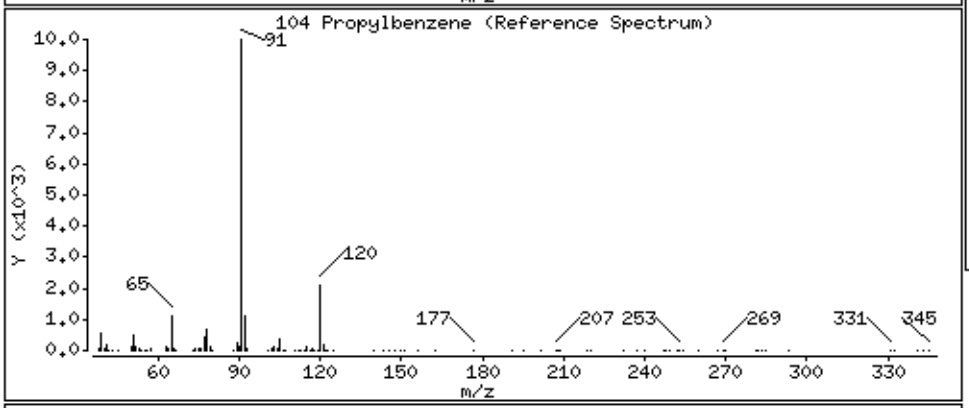
Column diameter: 0.32

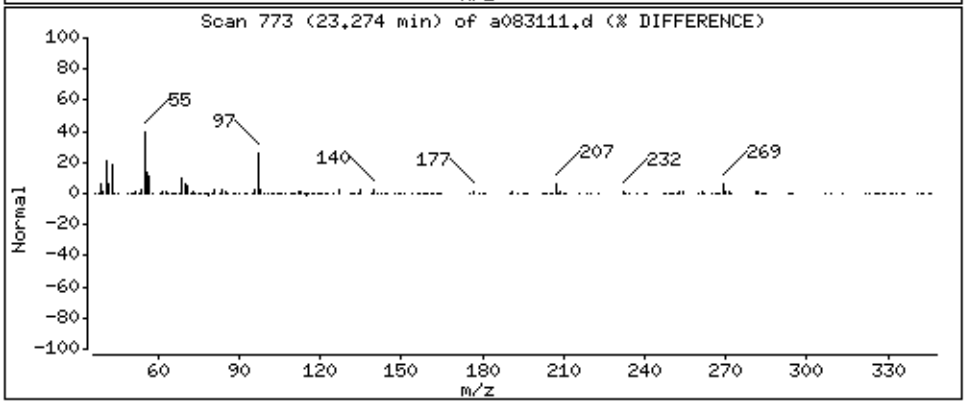
104 Propylbenzene

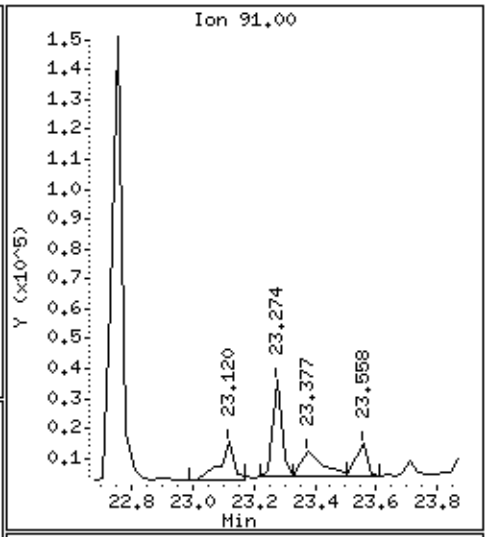
Concentration: 0.5044 PPBV

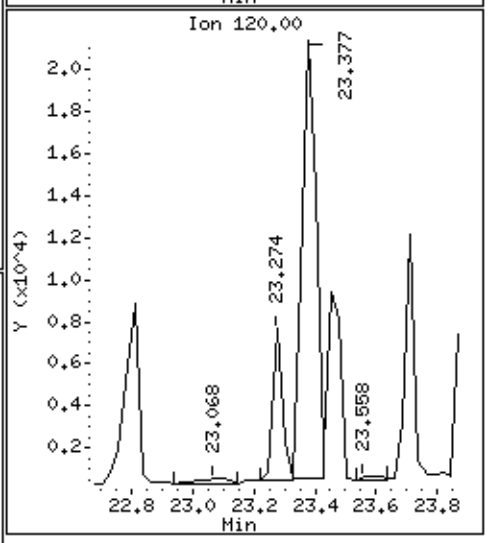


Data File: /chem/msda.i/31Aug2011.b/a083111.d

Date : 31-AUG-2011 15:44

Client ID:

Instrument: msda.i

Sample Info: 250mL #25250

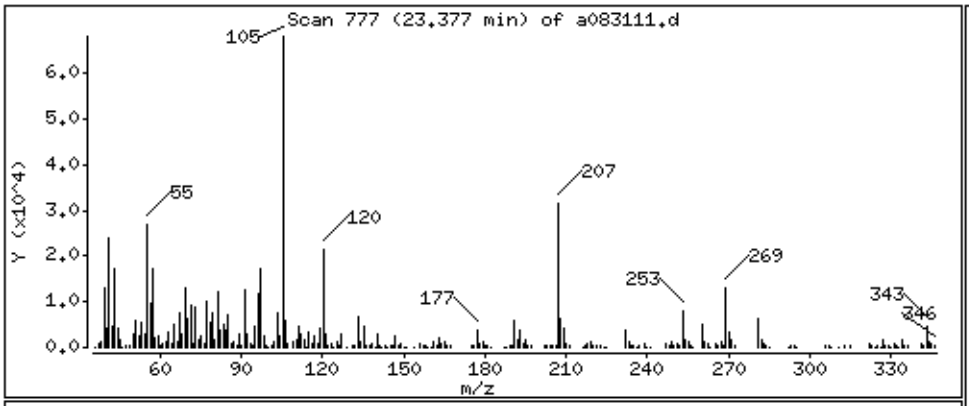
Operator: jc

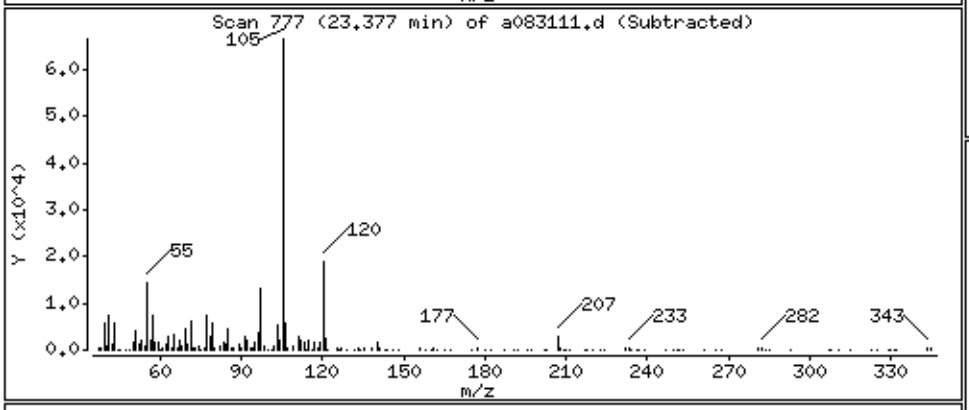
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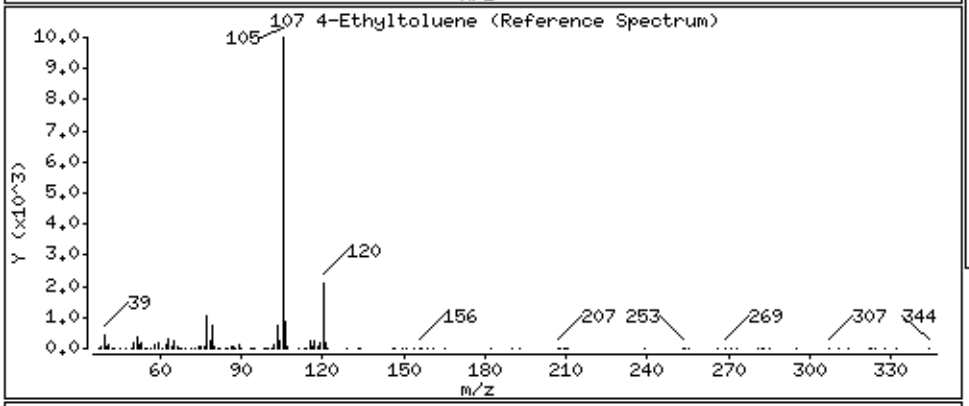
Column diameter: 0.32

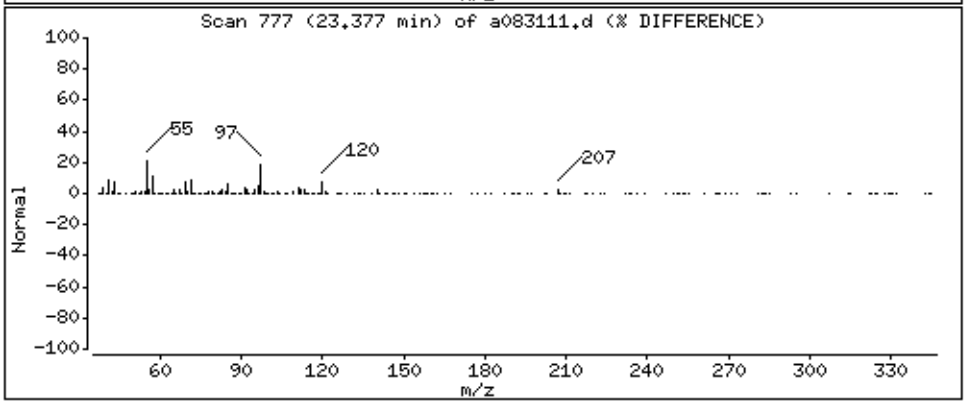
107 4-Ethyltoluene

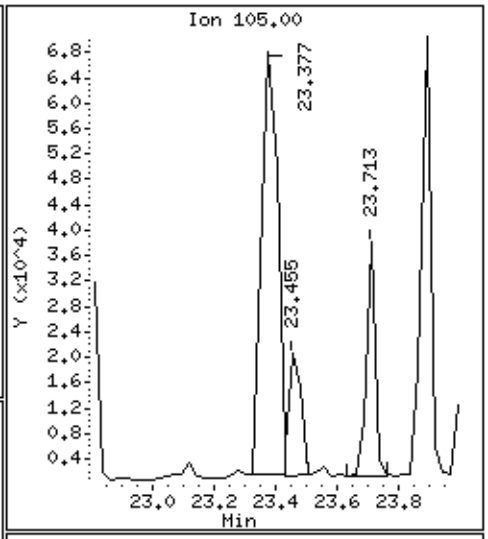
Concentration: 2.118 PPBV

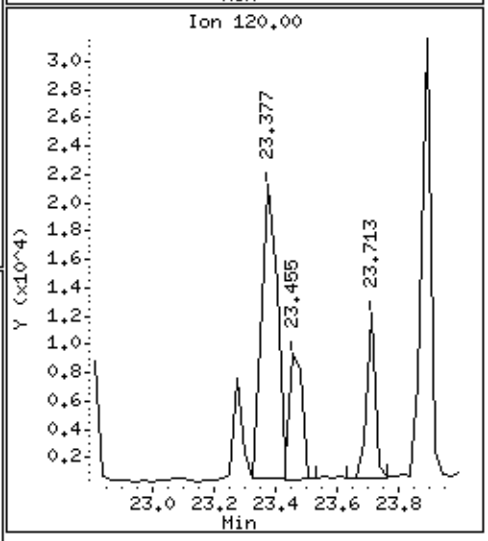


Data File: /chem/msda.i/31Aug2011.b/a083111.d

Date : 31-AUG-2011 15:44

Client ID:

Instrument: msda.i

Sample Info: 250mL #25250

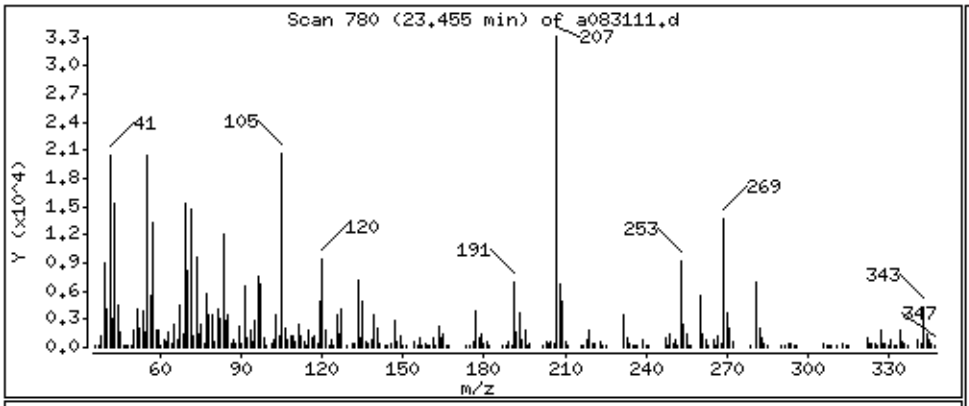
Operator: jc

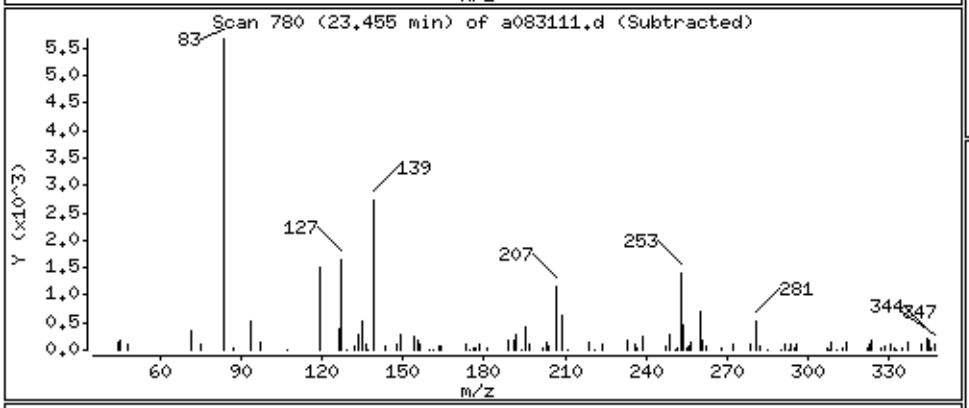
Column phase: RTx-624

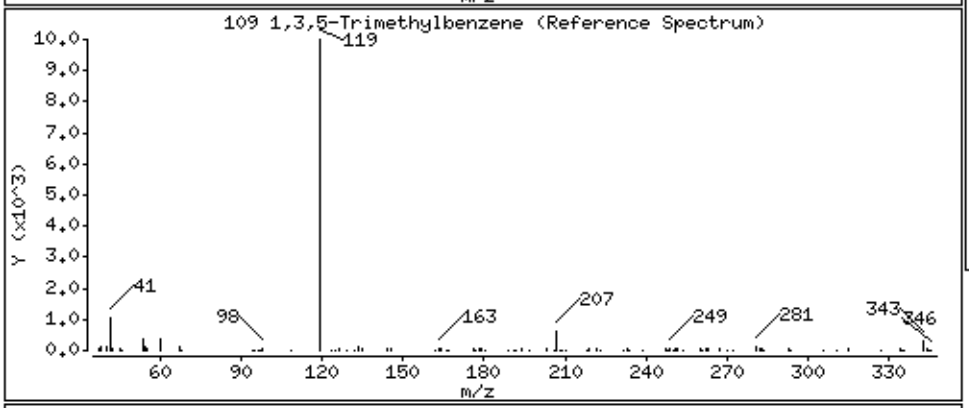
Column diameter: 0.32

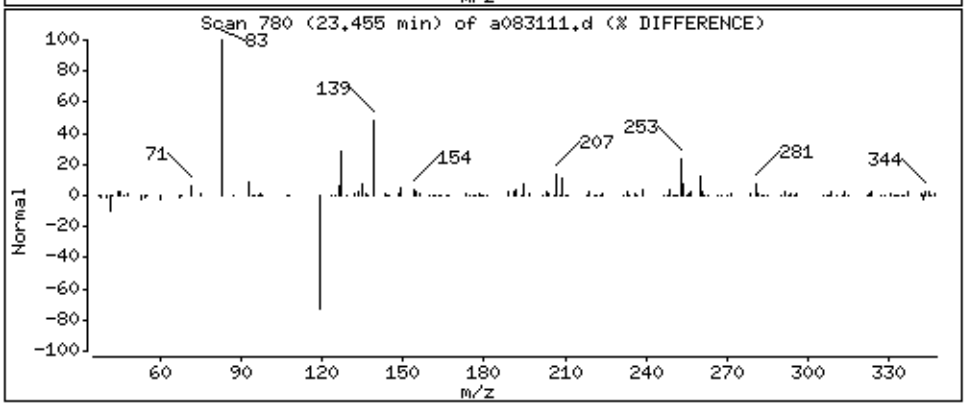
109 1,3,5-Trimethylbenzene

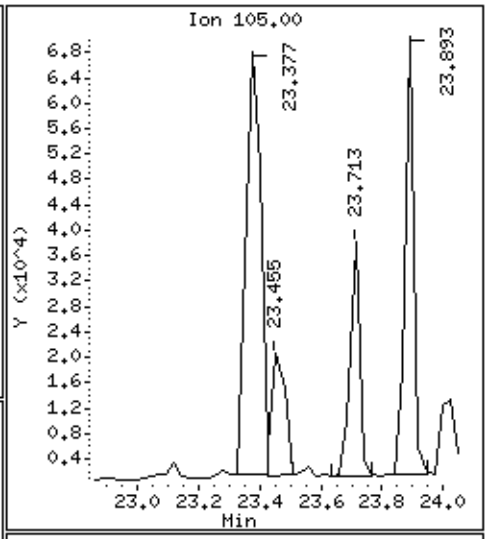
Concentration: 0.6536 PPBV

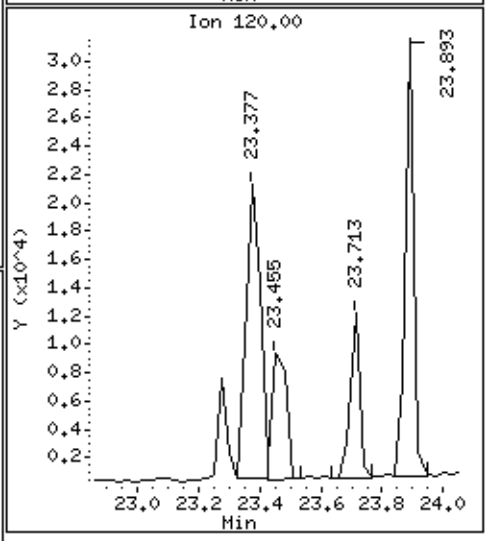


Data File: /chem/msda.i/31Aug2011.b/a083111.d

Date : 31-AUG-2011 15:44

Client ID:

Instrument: msda.i

Sample Info: 250mL #25250

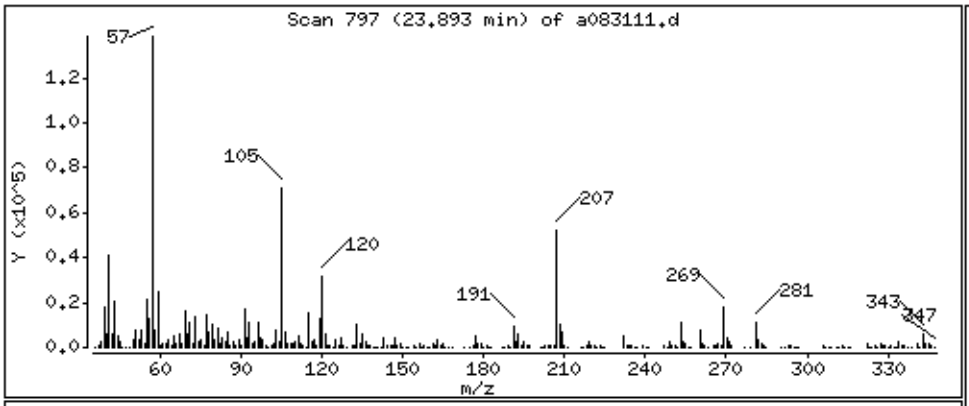
Operator: jc

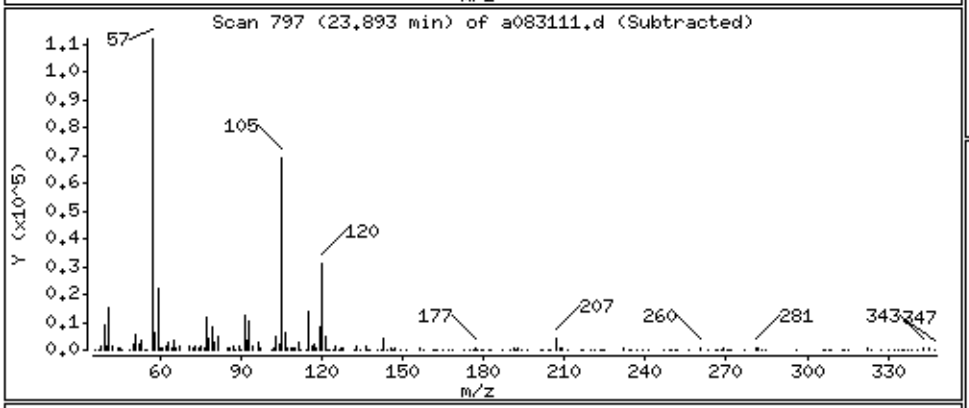
Column phase: RTx-624

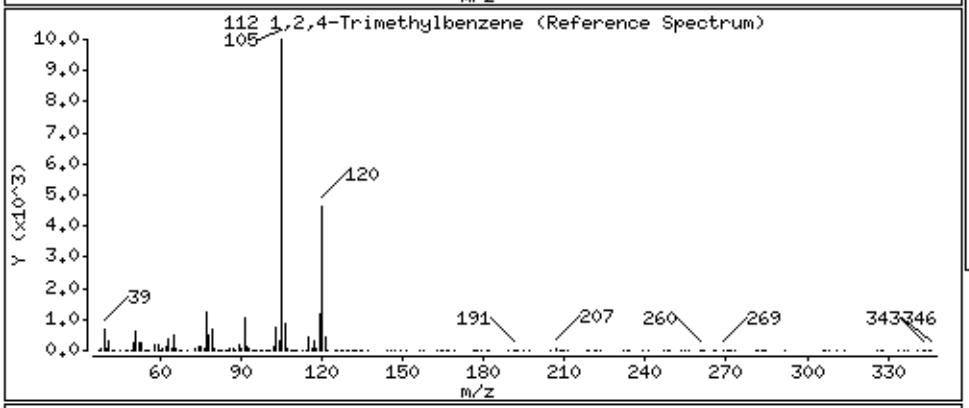
Column diameter: 0.32

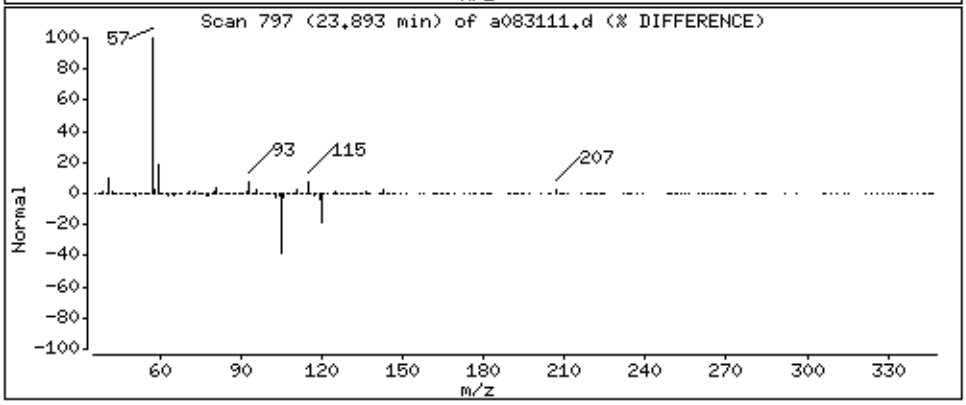
112 1,2,4-Trimethylbenzene

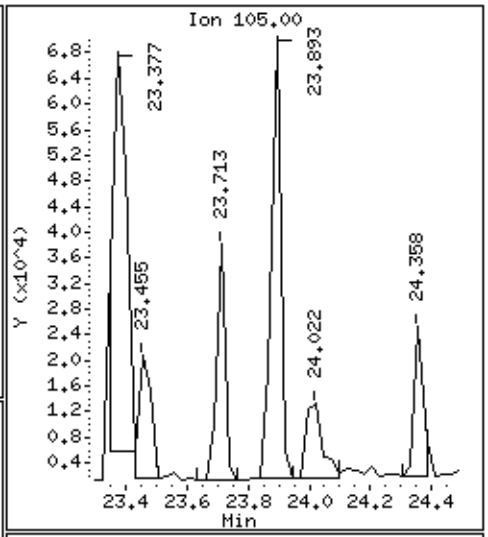
Concentration: 1.688 PPBV

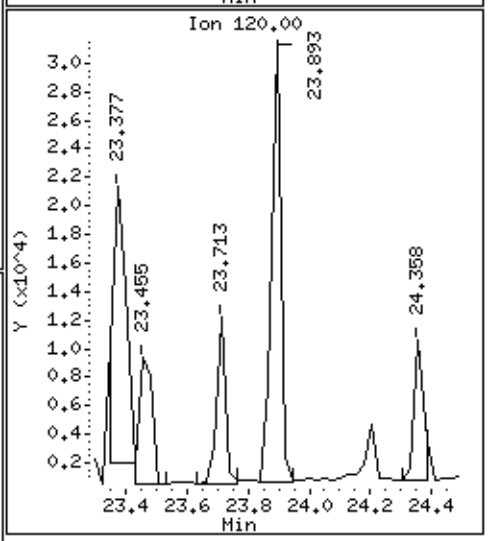


Data File: /chem/msda.i/31Aug2011.b/a083111.d

Date : 31-AUG-2011 15:44

Client ID:

Instrument: msda.i

Sample Info: 250mL #25250

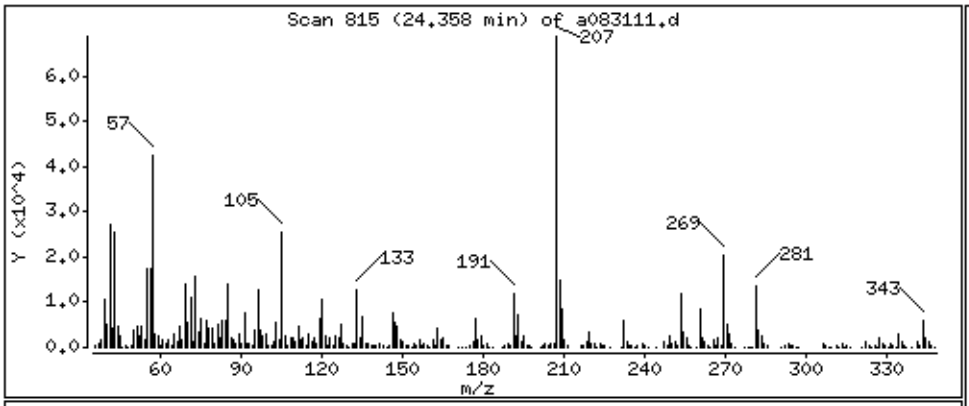
Operator: jc

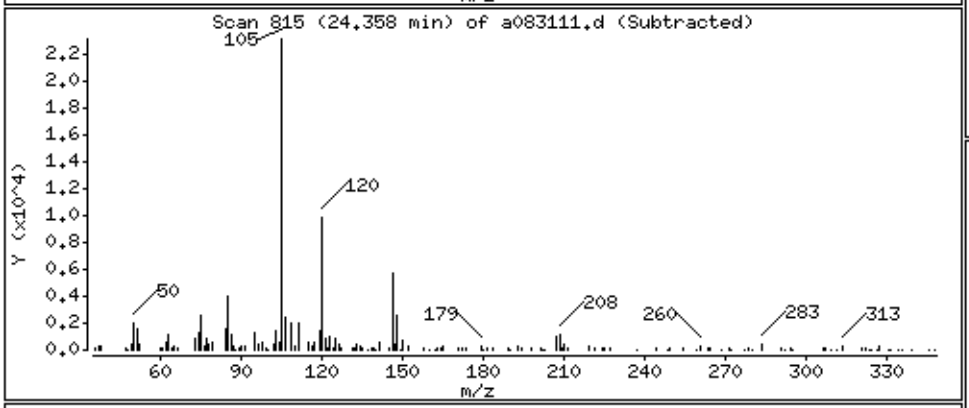
Column phase: RTx-624

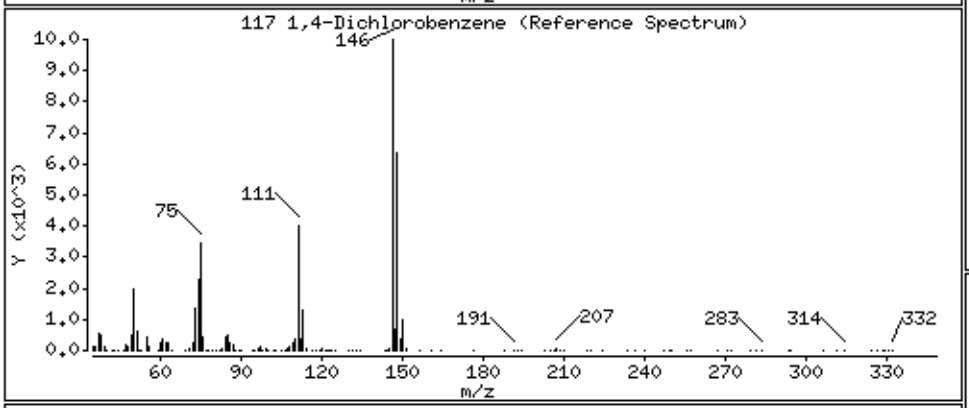
Column diameter: 0.32

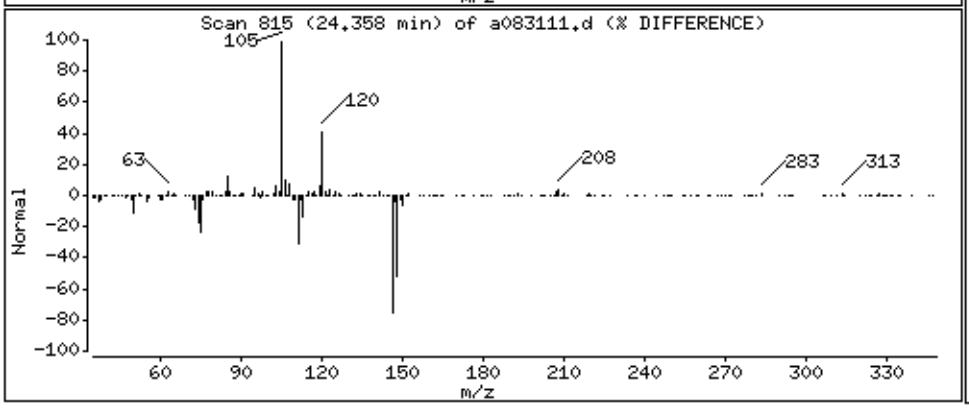
117 1,4-Dichlorobenzene

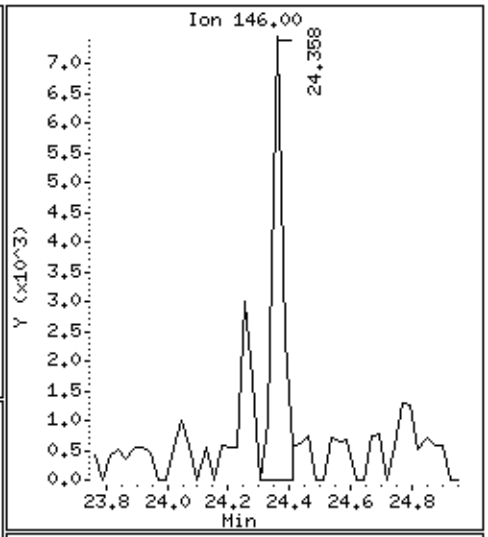
Concentration: 0.3388 PPBV

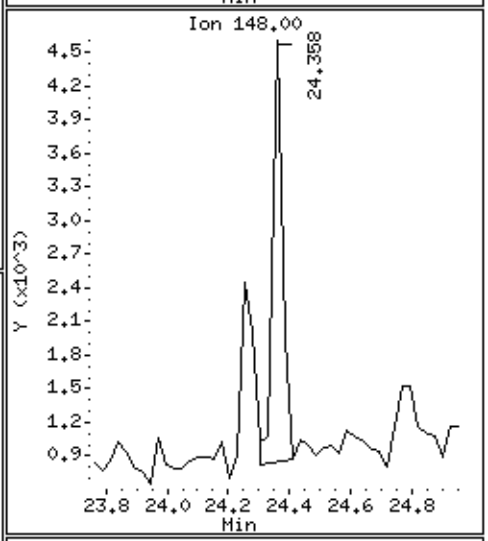


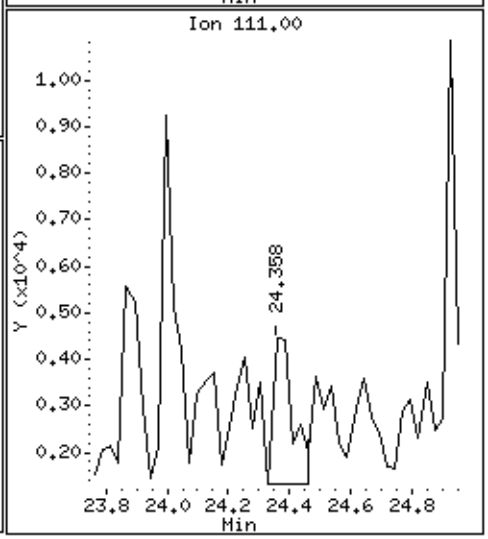



Data File: /chem/msda.i/31Aug2011.b/a083111.d

Date : 31-AUG-2011 15:44

Client ID:

Instrument: msda.i

Sample Info: 250mL #25250

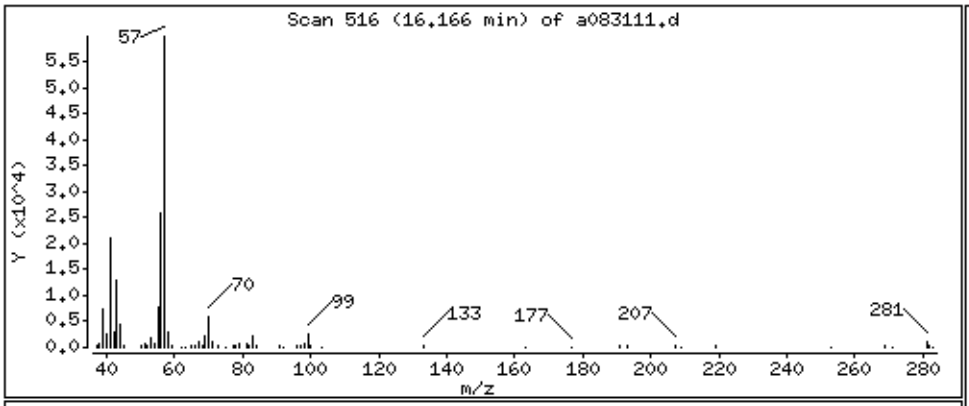
Operator: jc

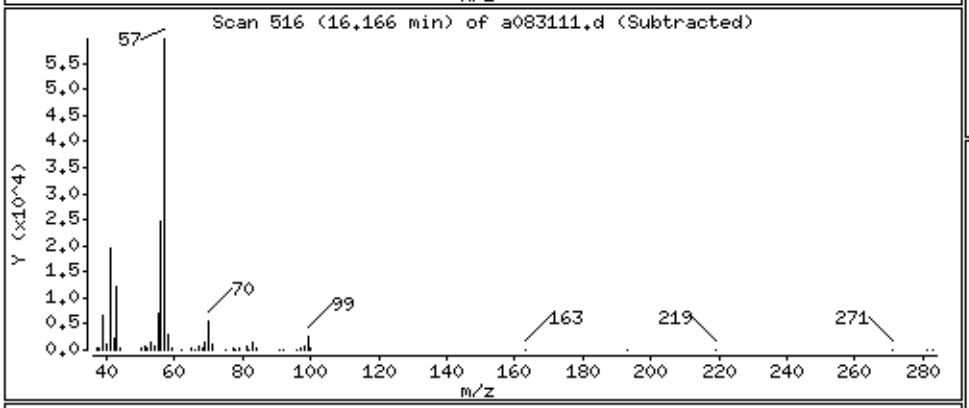
Column phase: RTx-624

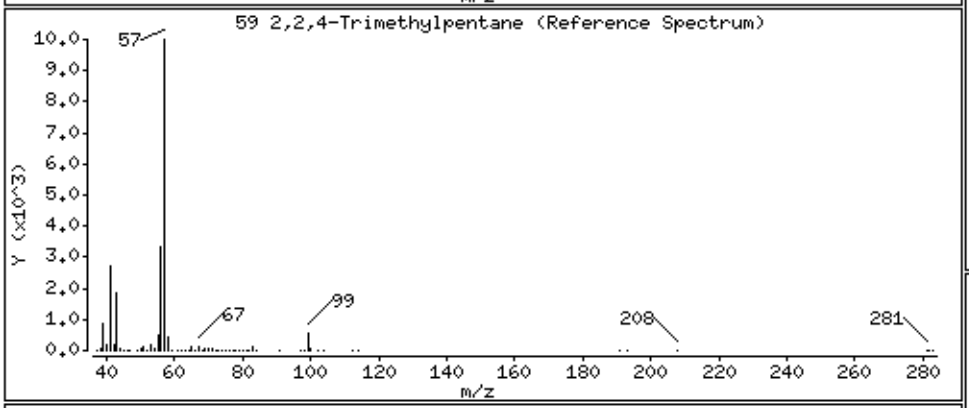
Column diameter: 0.32

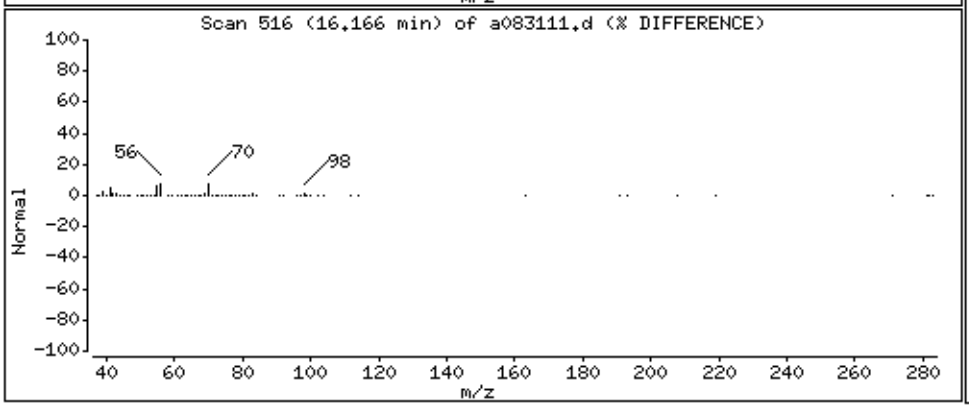
59 2,2,4-Trimethylpentane

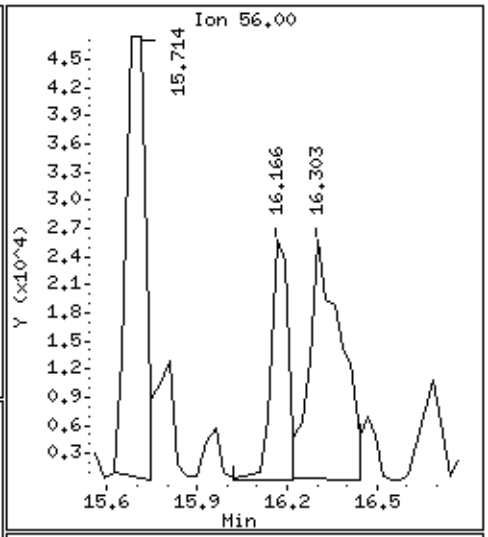
Concentration: 1.859 PPBV

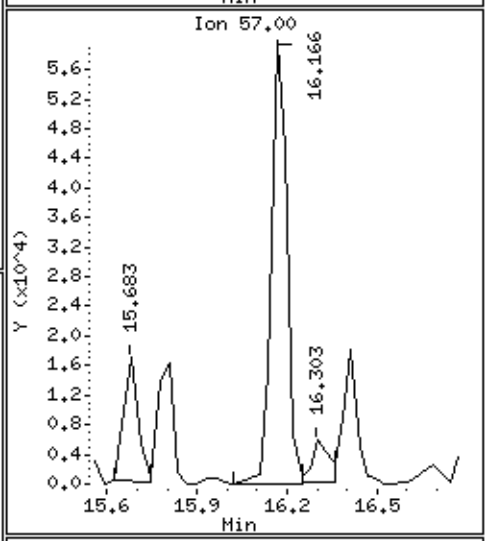


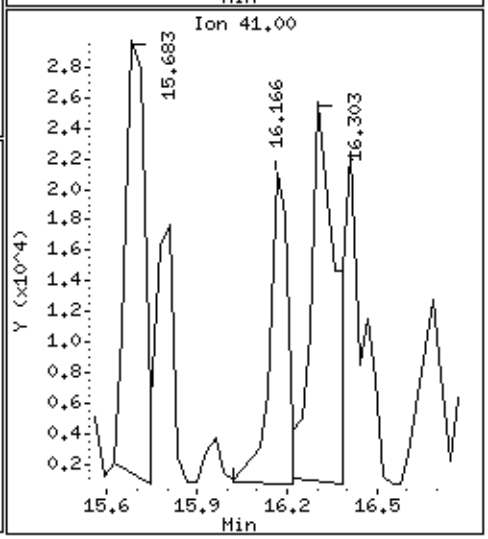



Data File: /chem/msda.i/31Aug2011.b/a083111.d

Date : 31-AUG-2011 15:44

Client ID:

Instrument: msda.i

Sample Info: 250mL #25250

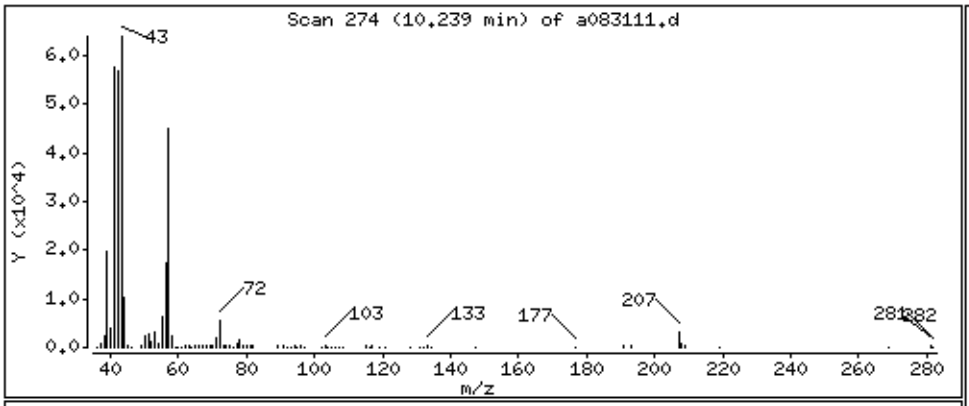
Operator: jc

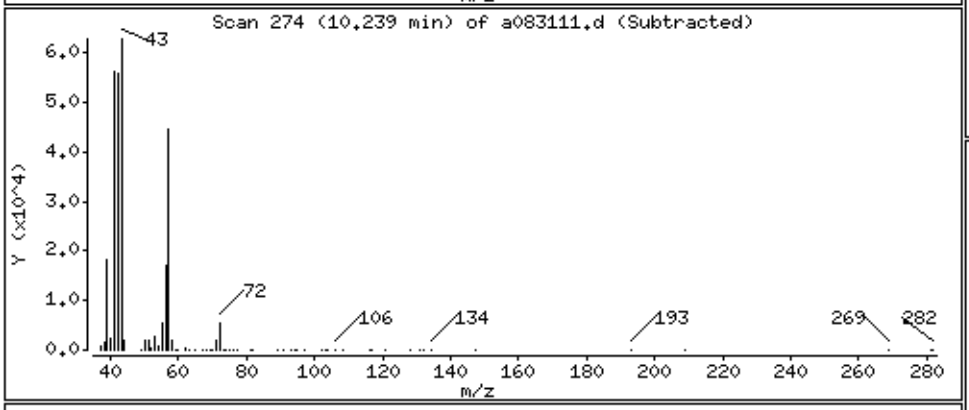
Column phase: RTx-624

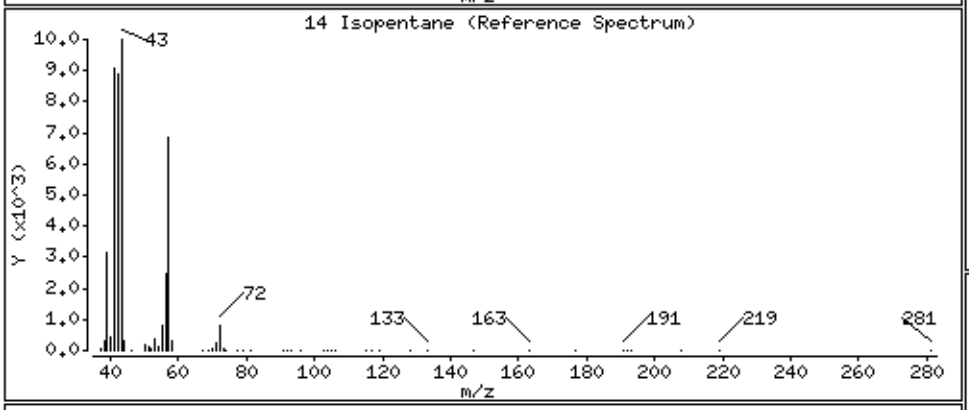
Column diameter: 0.32

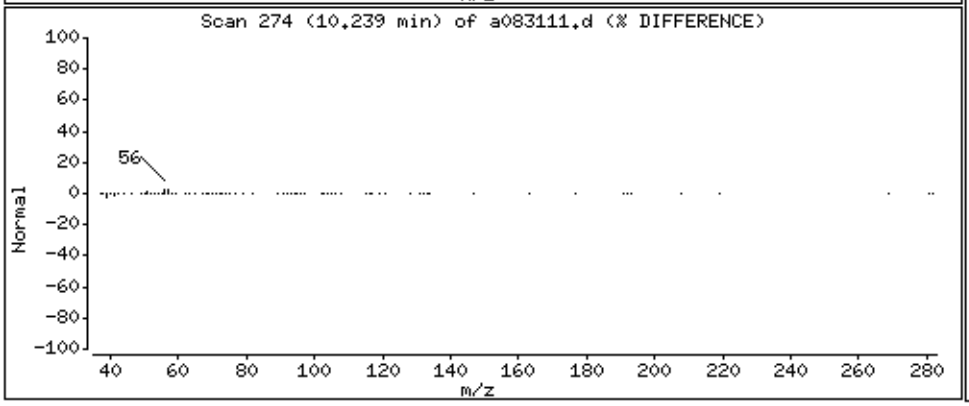
14 Isopentane

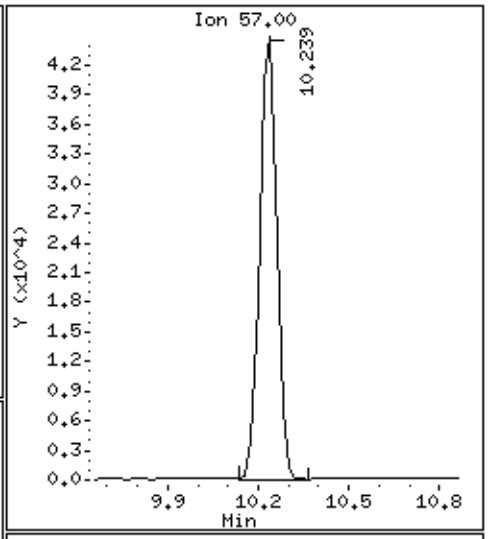
Concentration: 7.204 PPBV

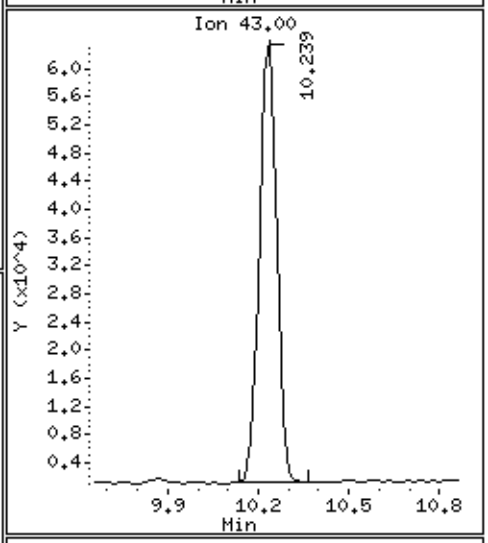


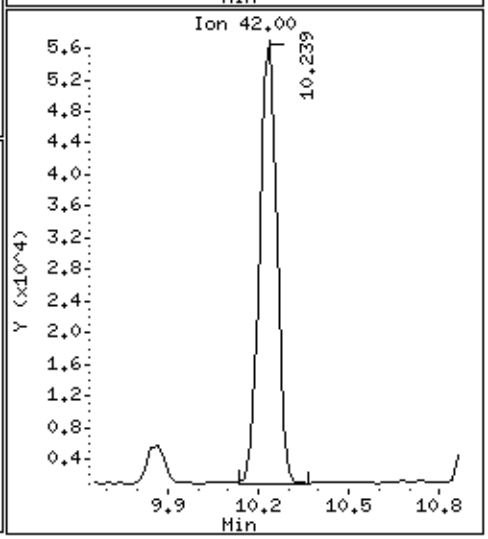



Data File: /chem/msda.i/31Aug2011.b/a083111.d

Date : 31-AUG-2011 15:44

Client ID:

Instrument: msda.i

Sample Info: 250mL #25250

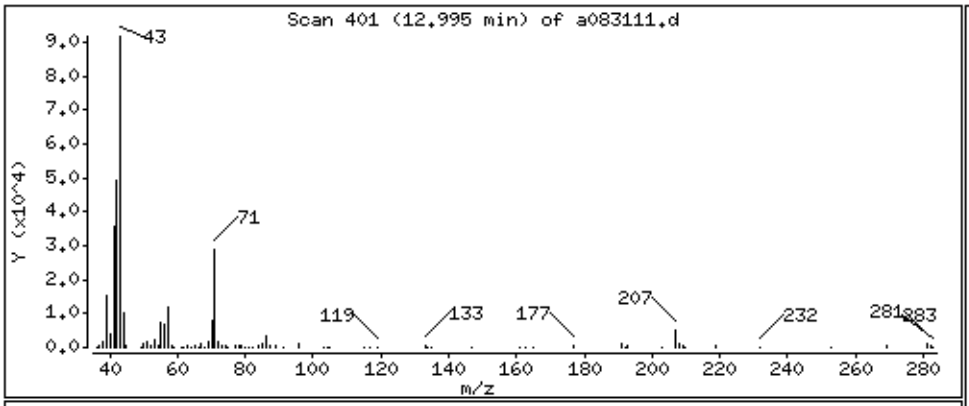
Operator: jc

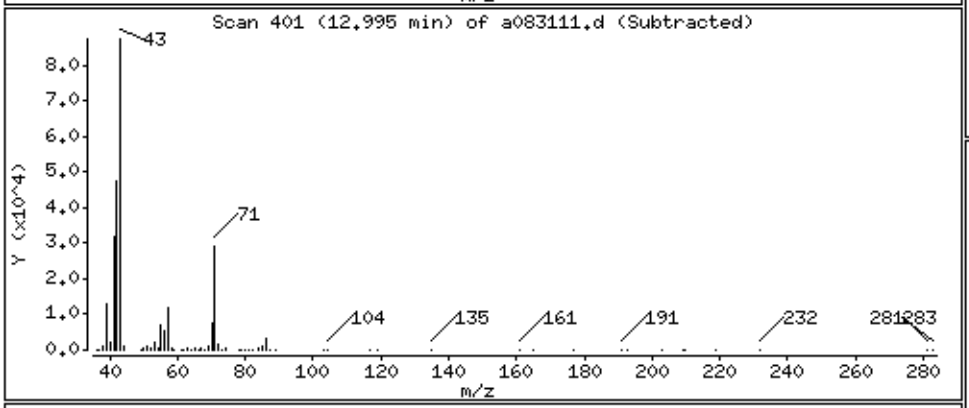
Column phase: RTx-624

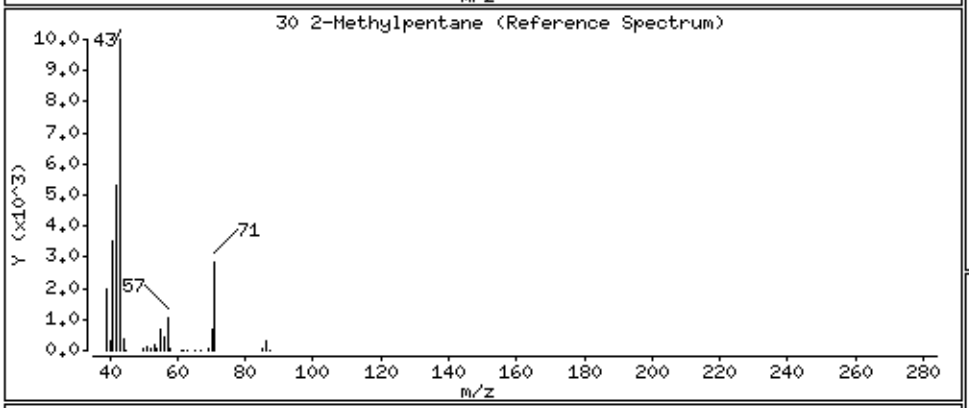
Column diameter: 0.32

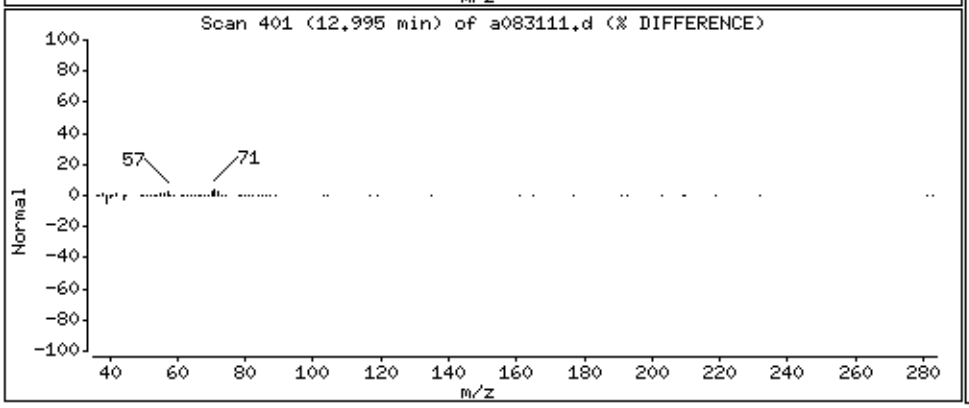
30 2-Methylpentane

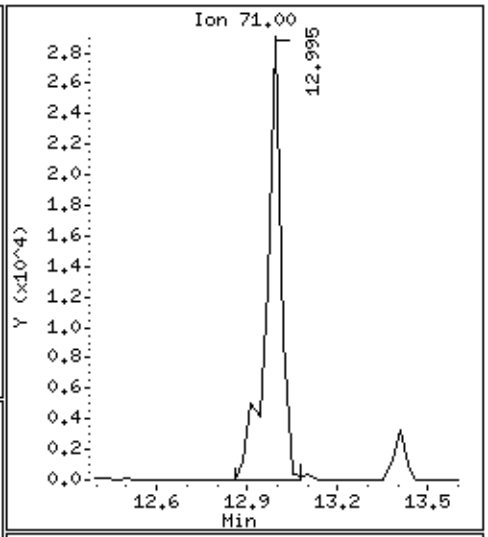
Concentration: 5.038 PPBV

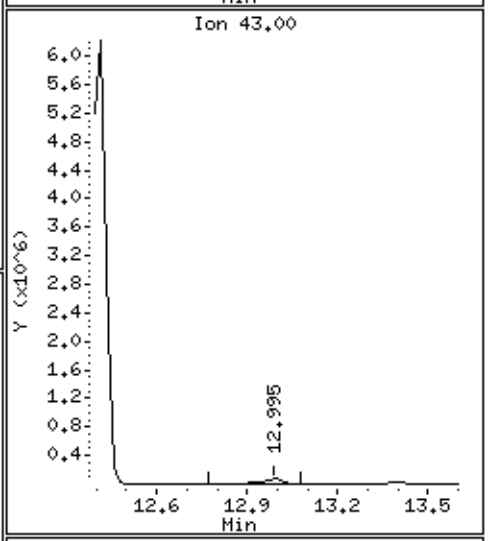


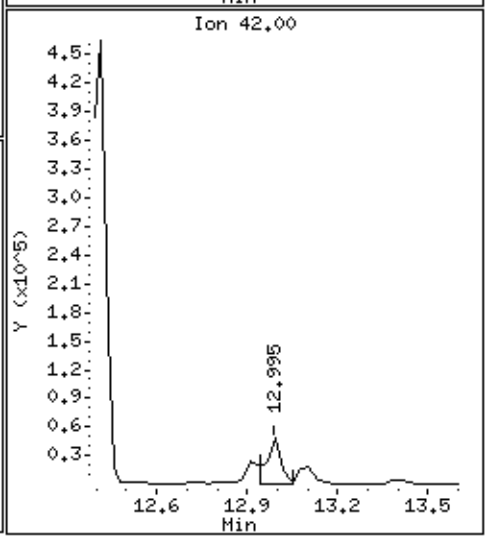



Data File: /chem/msda.i/31Aug2011.b/a083111.d

Date : 31-AUG-2011 15:44

Client ID:

Instrument: msda.i

Sample Info: 250mL #25250

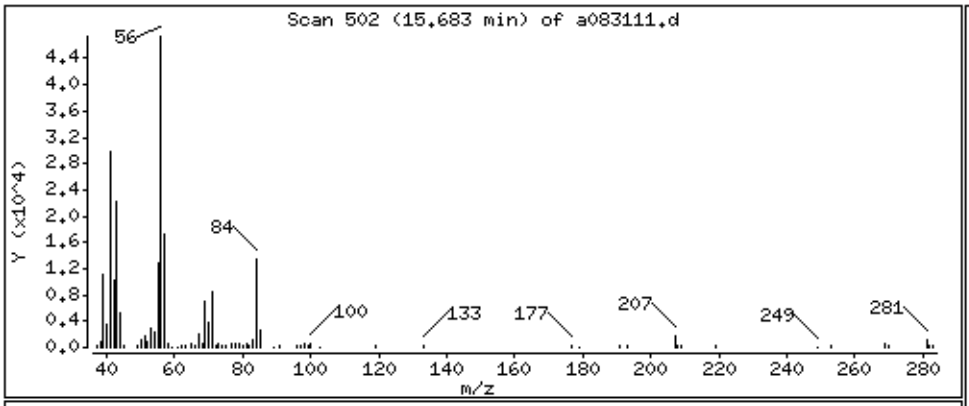
Operator: jc

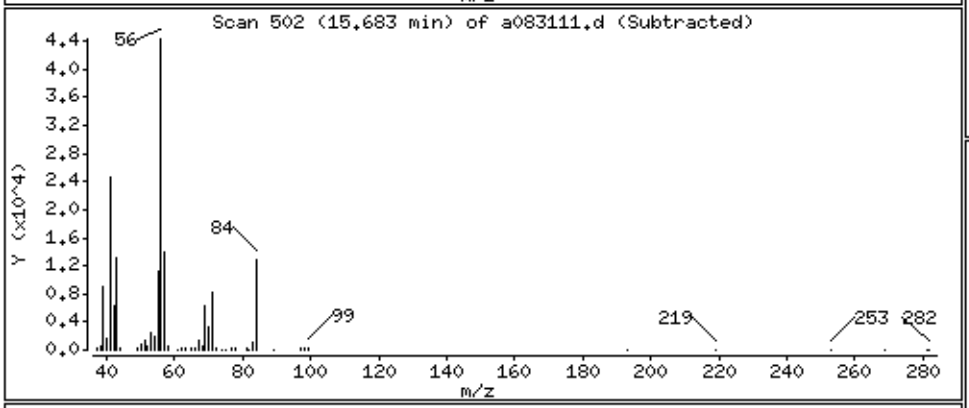
Column phase: RTx-624

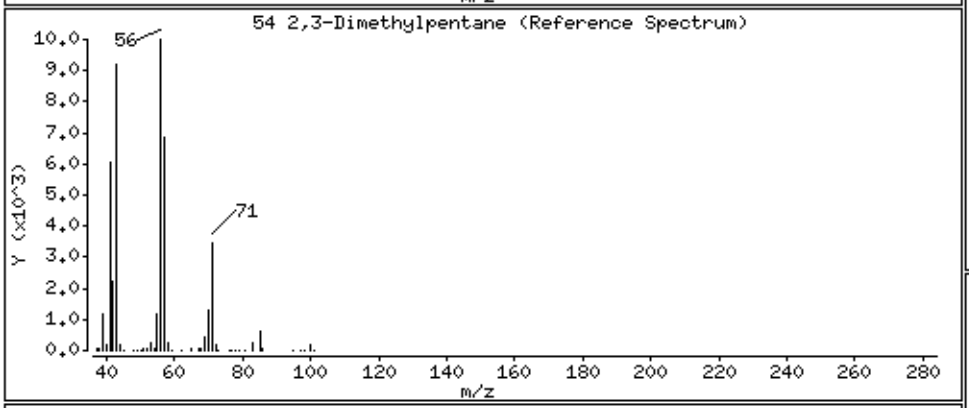
Column diameter: 0.32

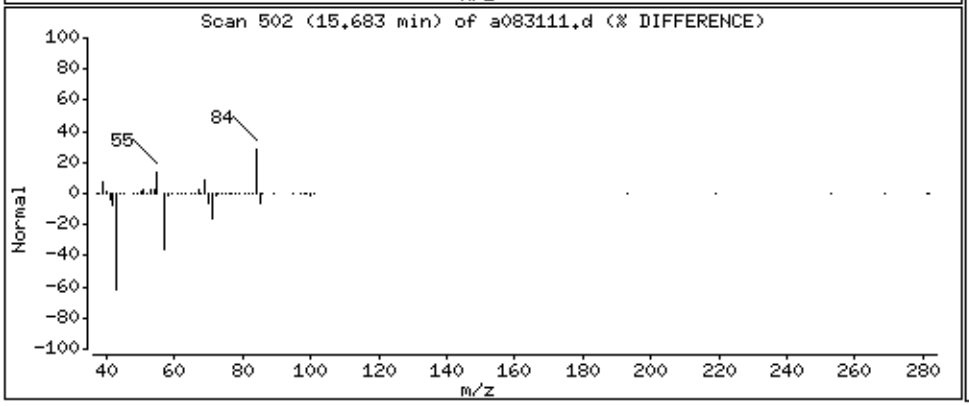
54 2,3-Dimethylpentane

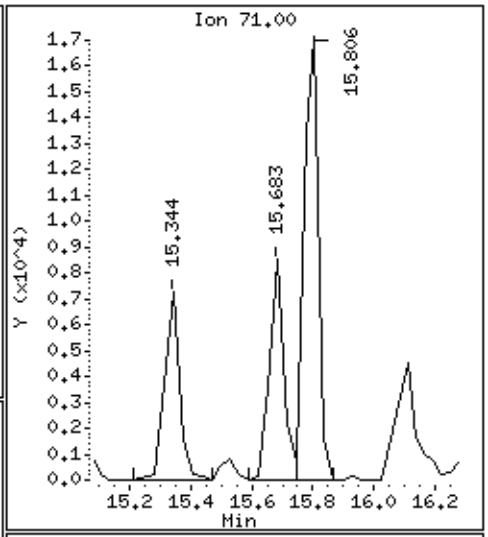
Concentration: 1.540 PPBV

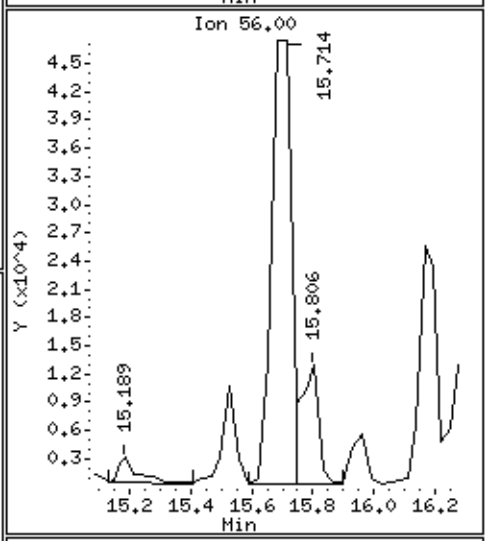


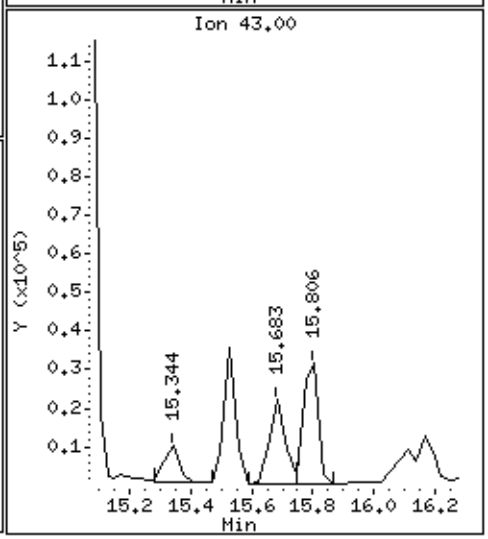



Data File: /chem/msda.i/31Aug2011.b/a083111.d

Date : 31-AUG-2011 15:44

Client ID:

Instrument: msda.i

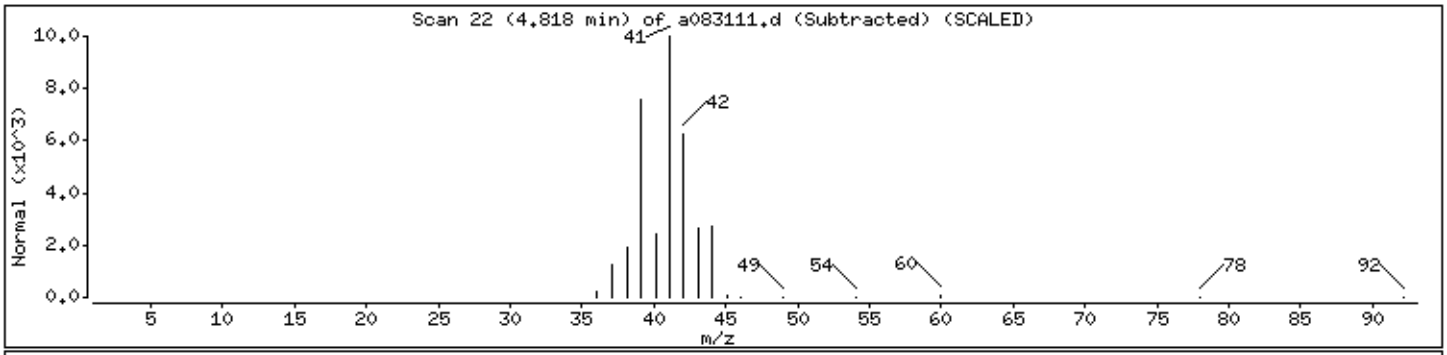
Sample Info: 250mL #25250

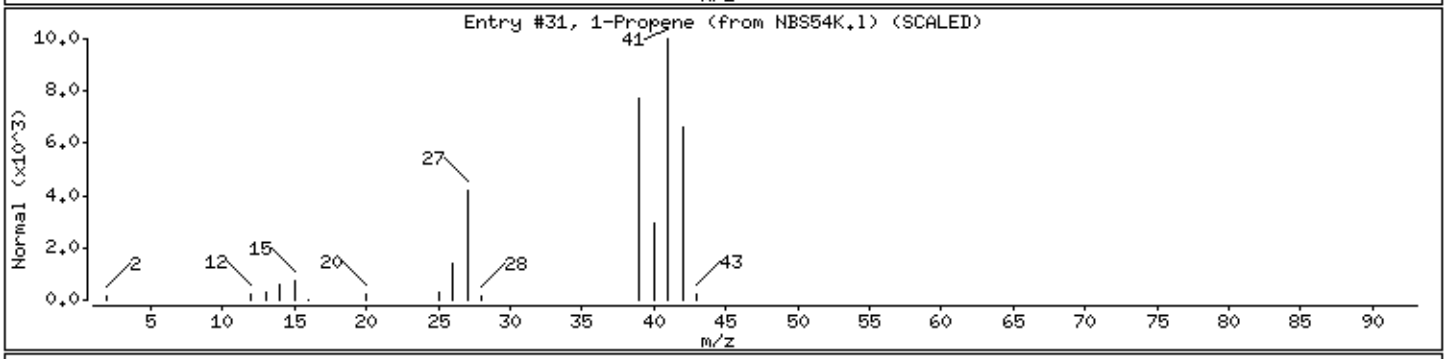
Operator: jc

Column phase: RTx-624

Column diameter: 0.32

| Library Search Compound Match | CAS Number | Library | Entry | Quality | Formula | Weight |
|---|---|---|---|---|---|---|
| 1-Propene | 115-07-1 | NBS54K.l | 31 | 53 | C3H6 | 42 |



Data File: /chem/msda.i/31Aug2011.b/a083111.d

Date : 31-AUG-2011 15:44

Client ID:

Instrument: msda.i

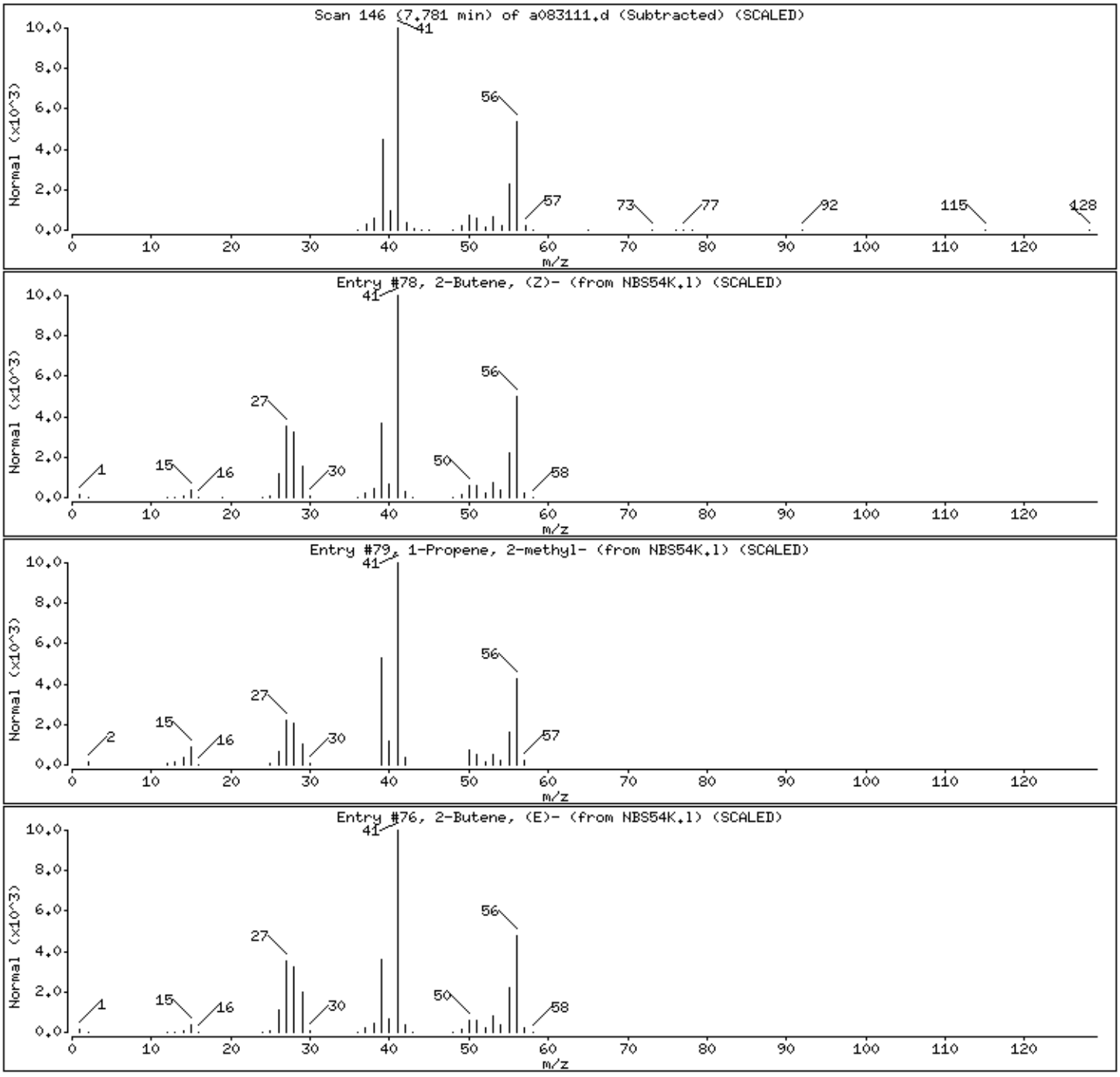
Sample Info: 250mL #25250

Operator: jc

Column phase: RTx-624

Column diameter: 0.32

| Library Search Compound Match | CAS Number | Library | Entry | Quality | Formula | Weight |
|---|---|---|---|---|---|---|
| 2-Butene, (Z)- | 590-18-1 | NBS54K.l | 78 | 80 | C4H8 | 56 |
| 1-Propene, 2-methyl- | 115-11-7 | NBS54K.l | 79 | 80 | C4H8 | 56 |
| 2-Butene, (E)- | 624-64-6 | NBS54K.l | 76 | 80 | C4H8 | 56 |



Data File: /chem/msda.i/31Aug2011.b/a083111.d

Date : 31-AUG-2011 15:44

Client ID:

Instrument: msda.i

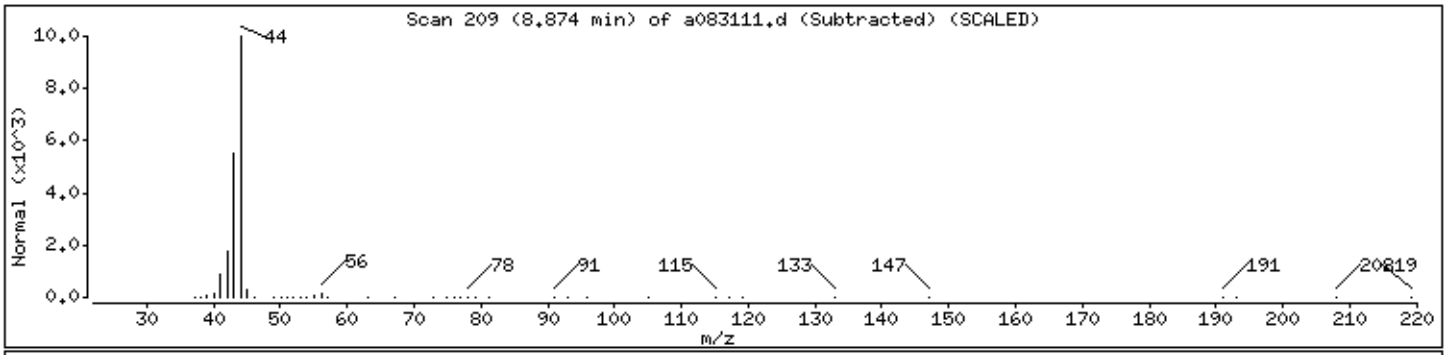
Sample Info: 250mL #25250

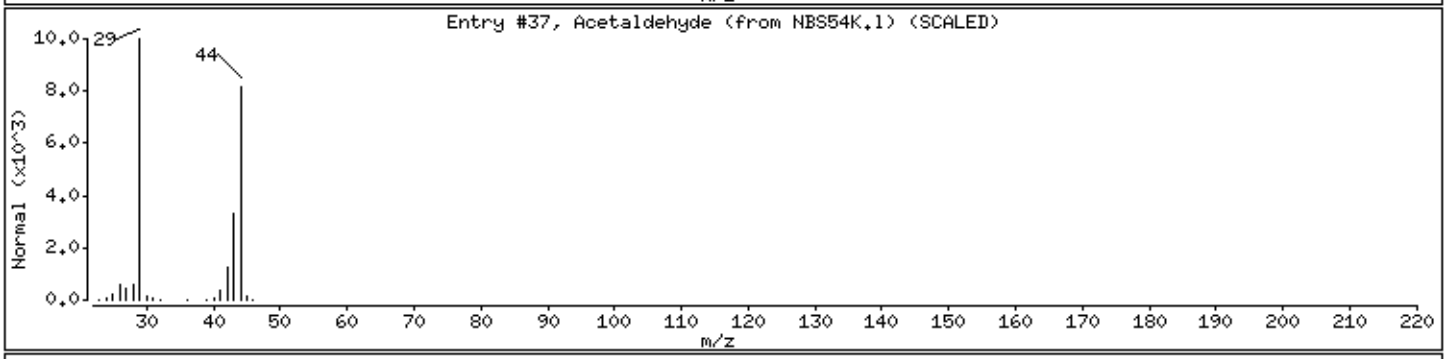
Operator: jc

Column phase: RTx-624

Column diameter: 0.32

| Library Search Compound Match | CAS Number | Library | Entry | Quality | Formula | Weight |
|---|---|---|---|---|---|---|
| Acetaldehyde | 75-07-0 | NBS54K.l | 37 | 80 | C2H4O | 44 |



Data File: /chem/msda.i/31Aug2011.b/a083111.d

Date : 31-AUG-2011 15:44

Client ID:

Instrument: msda.i

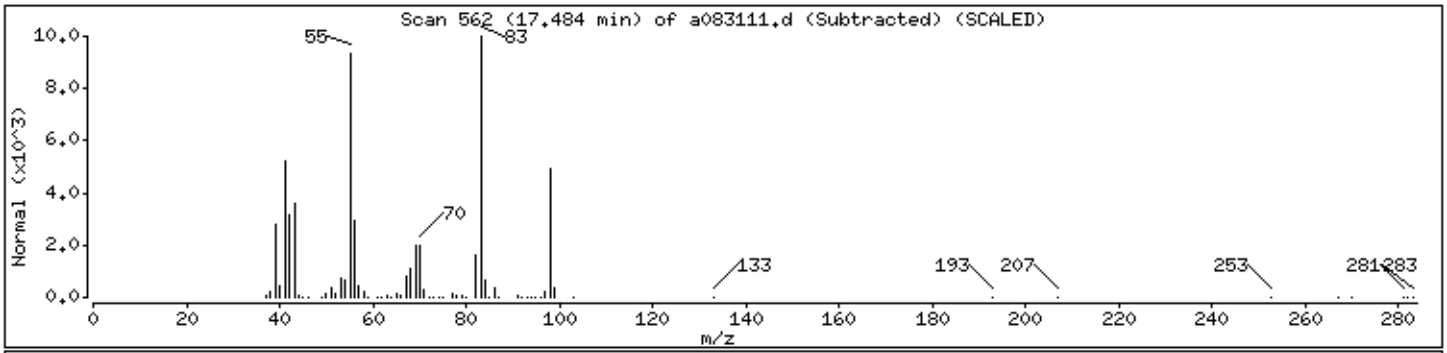
Sample Info: 250mL #25250

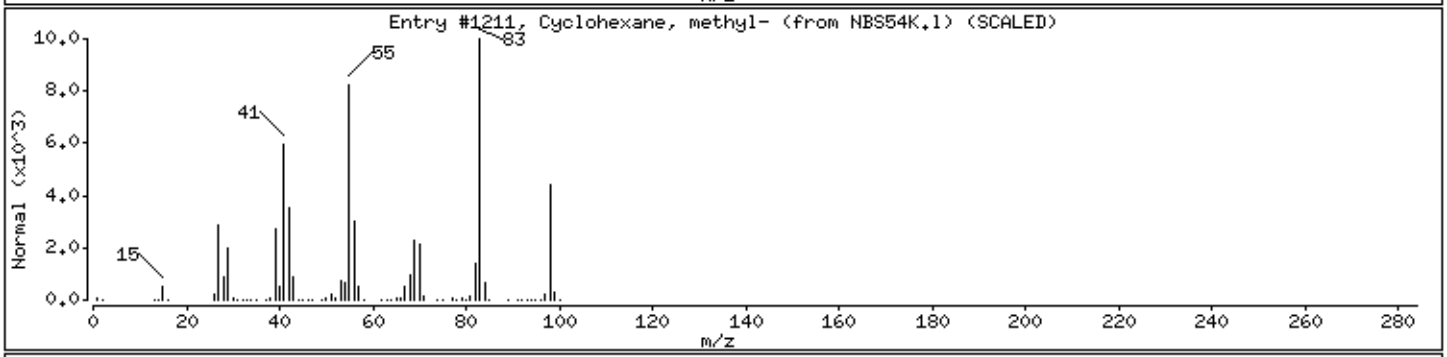
Operator: jc

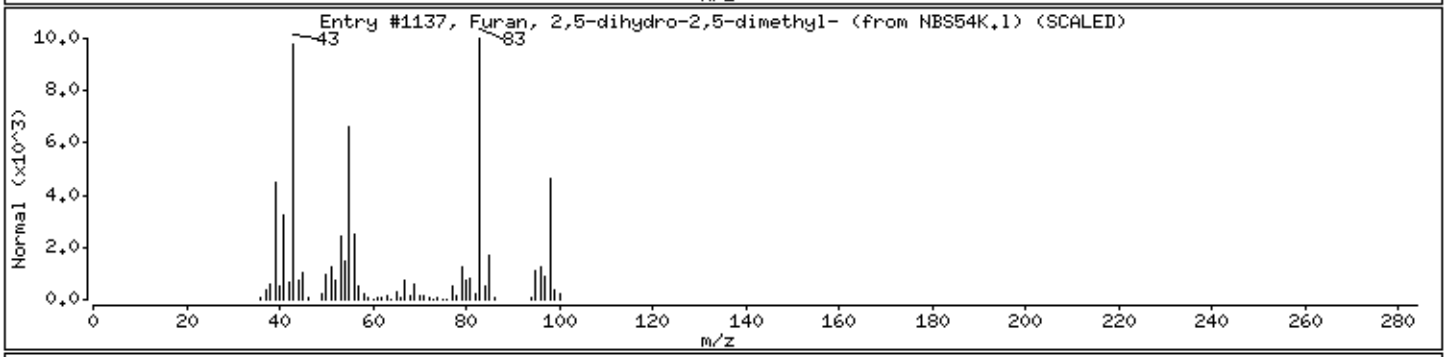
Column phase: RTx-624

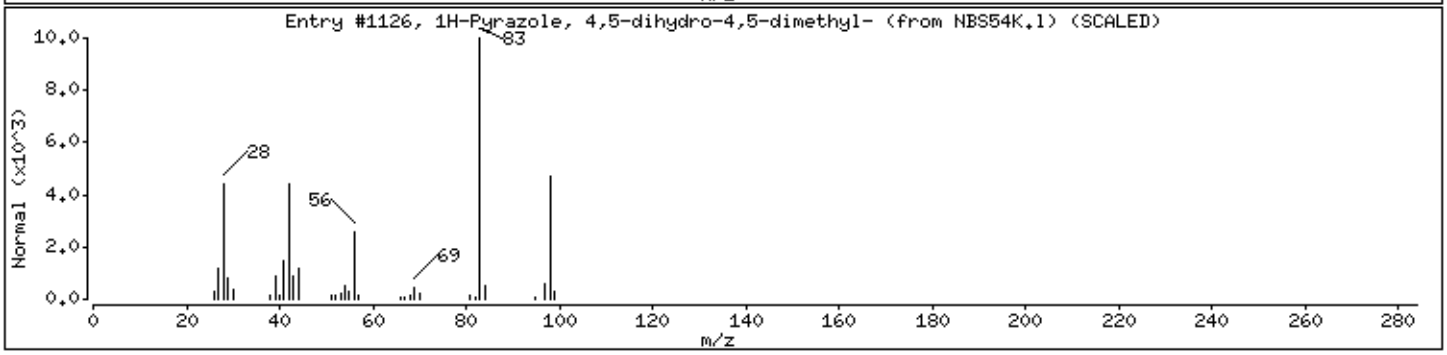
Column diameter: 0.32

| Library Search Compound Match | CAS Number | Library | Entry | Quality | Formula | Weight |
|---|---|---|---|---|---|---|
| Cyclohexane, methyl- | 108-87-2 | NBS54K.l | 1211 | 96 | C7H14 | 98 |
| Furan, 2,5-dihydro-2,5-dimethyl- | 59242-27-2 | NBS54K.l | 1137 | 59 | C6H10O | 98 |
| 1H-Pyrazole, 4,5-dihydro-4,5-dimethyl- | 28019-94-5 | NBS54K.l | 1126 | 53 | C5H10N2 | 98 |



Data File: /chem/msda.i/31Aug2011.b/a083111.d

Date : 31-AUG-2011 15:44

Client ID:

Instrument: msda.i

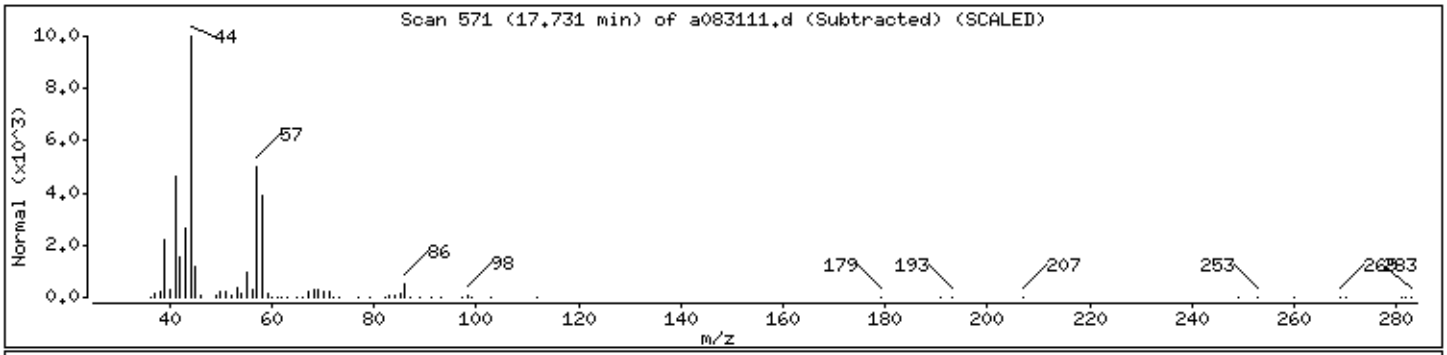
Sample Info: 250mL #25250

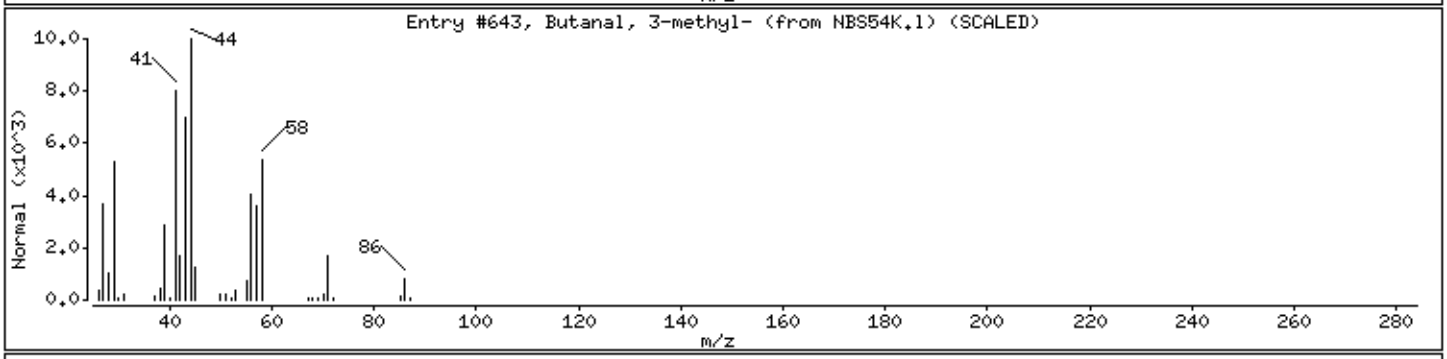
Operator: jc

Column phase: RTx-624

Column diameter: 0.32

| Library Search Compound Match | CAS Number | Library | Entry | Quality | Formula | Weight |
|---|---|---|---|---|---|---|
| Butanal, 3-methyl- | 590-86-3 | NBS54K.l | 643 | 53 | C5H10O | 86 |



Data File: /chem/msda.i/31Aug2011.b/a083111.d

Date : 31-AUG-2011 15:44

Client ID:

Instrument: msda.i

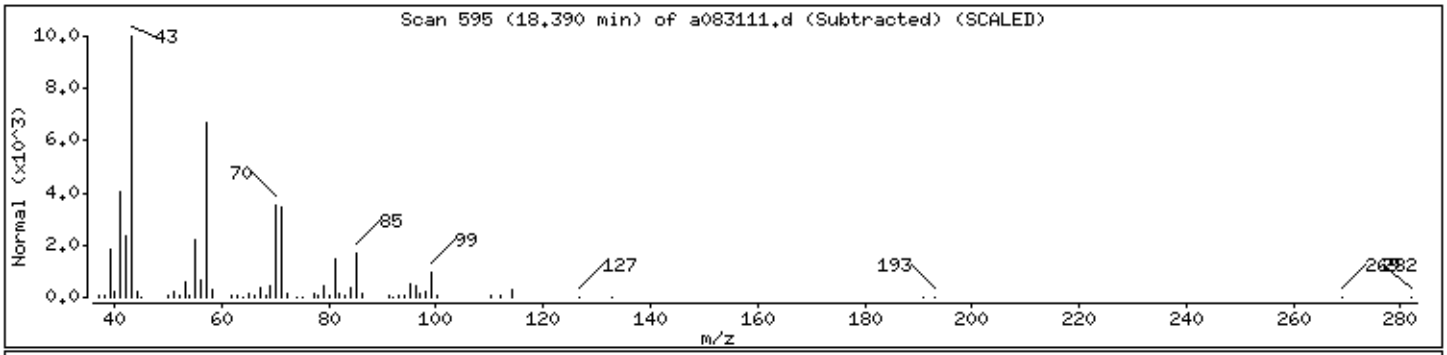
Sample Info: 250mL #25250

Operator: jc

Column phase: RTx-624

Column diameter: 0.32

| Library Search Compound Match | CAS Number | Library | Entry | Quality | Formula | Weight |
|---|---|---|---|---|---|---|
| Unknown | | | 0 | 0 | | 0 |



Data File: /chem/msda.i/31Aug2011.b/a083111.d

Date : 31-AUG-2011 15:44

Client ID:

Instrument: msda.i

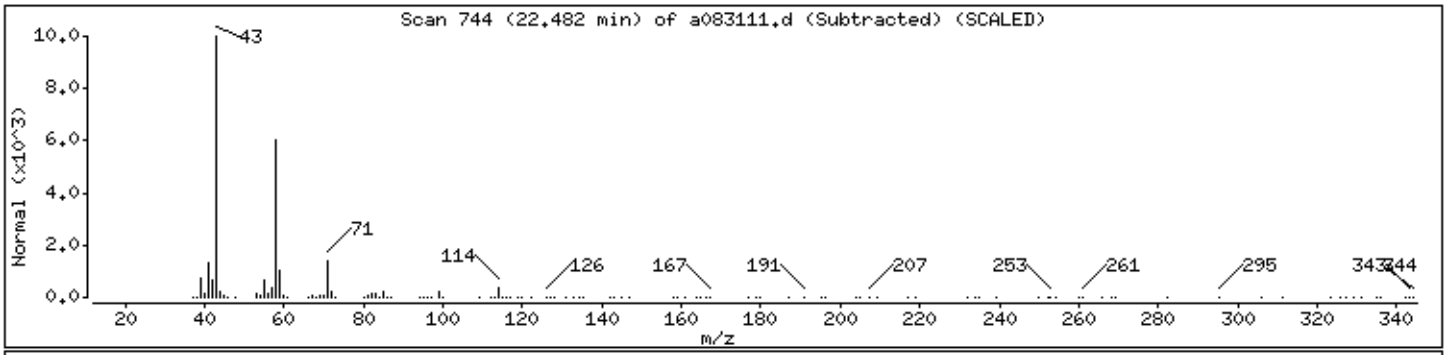
Sample Info: 250mL #25250

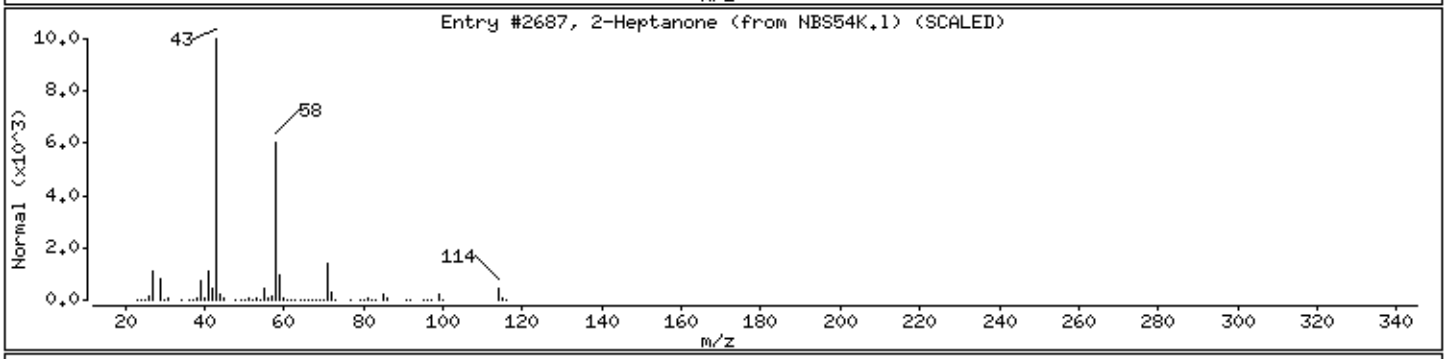
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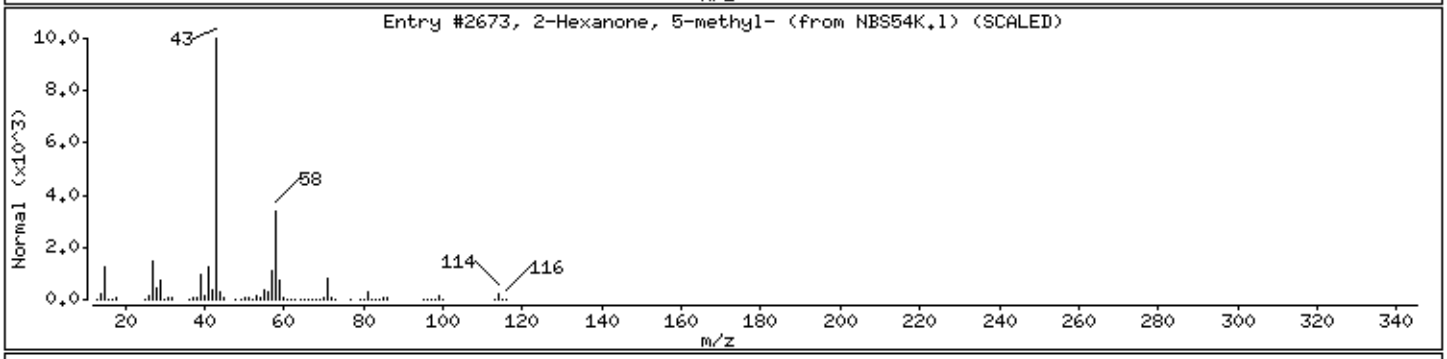
Column phase: RTx-624

Column diameter: 0.32

| Library Search Compound Match | CAS Number | Library | Entry | Quality | Formula | Weight |
|---|---|---|---|---|---|---|
| 2-Heptanone | 110-43-0 | NBS54K.l | 2687 | 91 | C7H140 | 114 |
| 2-Hexanone, 5-methyl- | 110-12-3 | NBS54K.l | 2673 | 58 | C7H140 | 114 |



Data File: /chem/msda.i/31Aug2011.b/a083111.d

Date : 31-AUG-2011 15:44

Client ID:

Instrument: msda.i

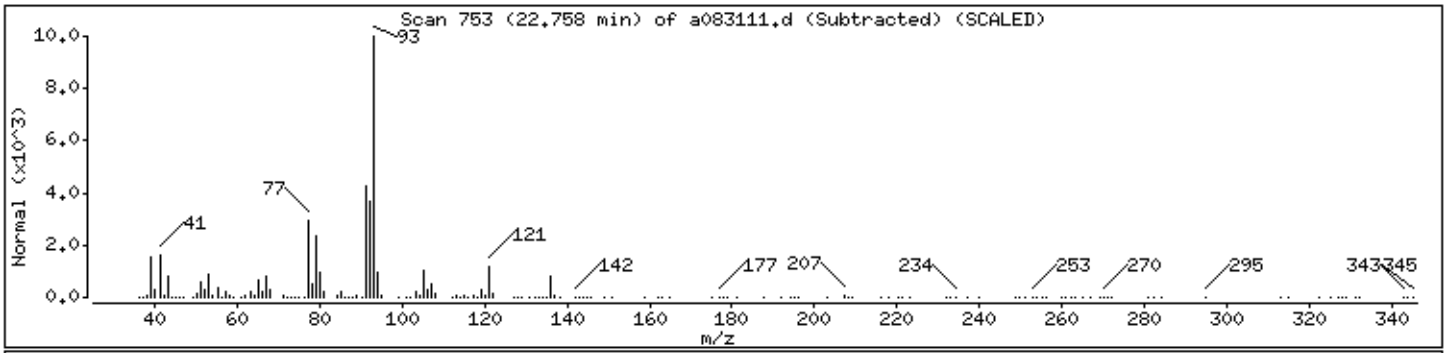
Sample Info: 250mL #25250

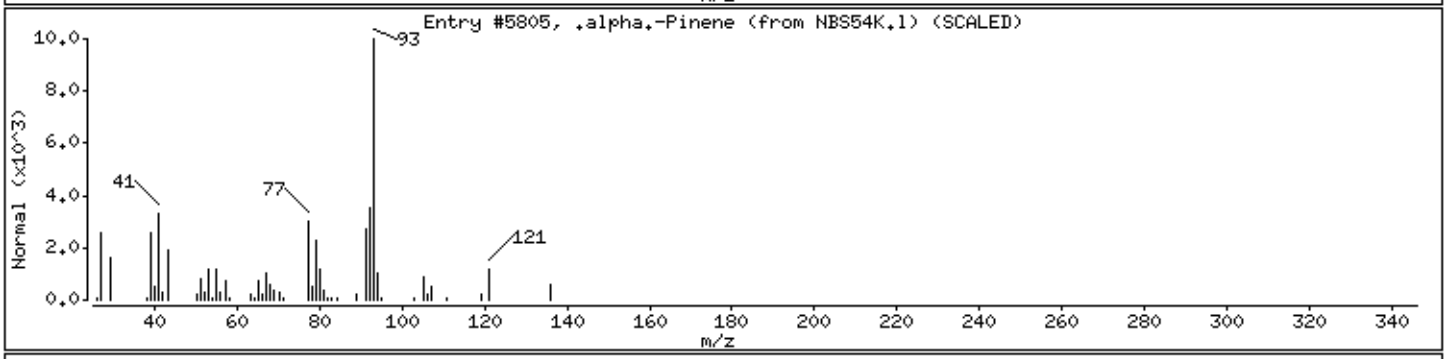
Operator: jc

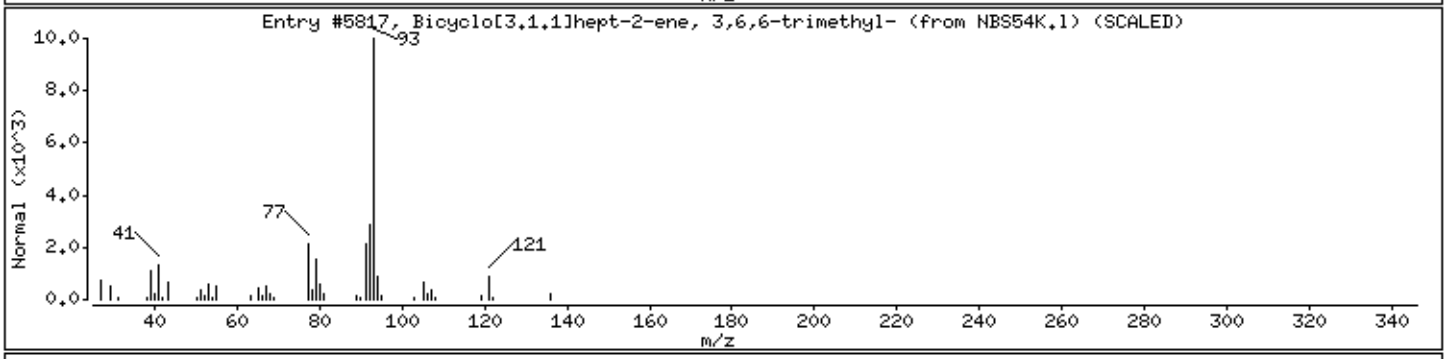
Column phase: RTx-624

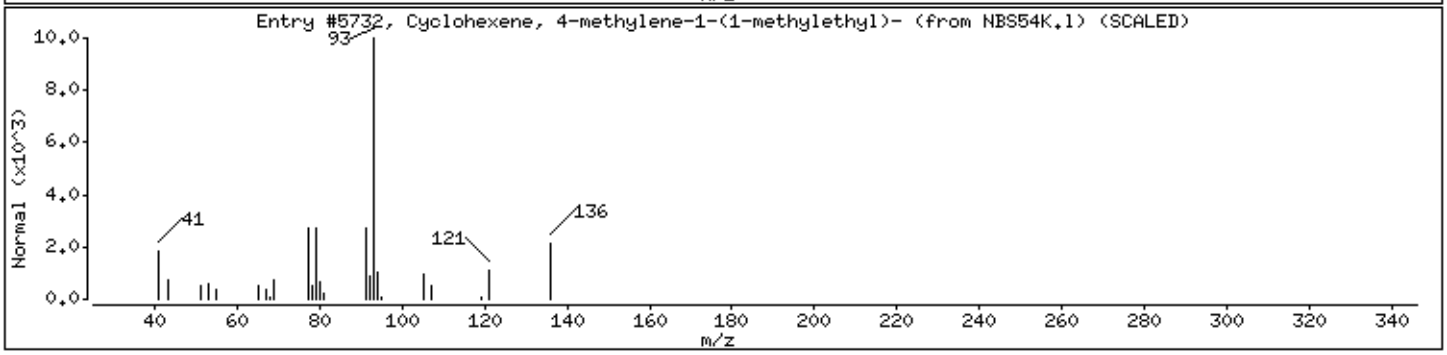
Column diameter: 0.32

| Library Search Compound Match | CAS Number | Library | Entry | Quality | Formula | Weight |
|---|---|---|---|---|---|---|
| .alpha.-Pinene | 80-56-8 | NBS54K.l | 5805 | 96 | C10H16 | 136 |
| Bicyclo[3.1.1]hept-2-ene, 3,6,6-trimethy | 4889-83-2 | NBS54K.l | 5817 | 91 | C10H16 | 136 |
| Cyclohexene, 4-methylene-1-(1-methylethy | 99-84-3 | NBS54K.l | 5732 | 87 | C10H16 | 136 |



Data File: /chem/msda.i/31Aug2011.b/a083111.d

Date : 31-AUG-2011 15:44

Client ID:

Instrument: msda.i

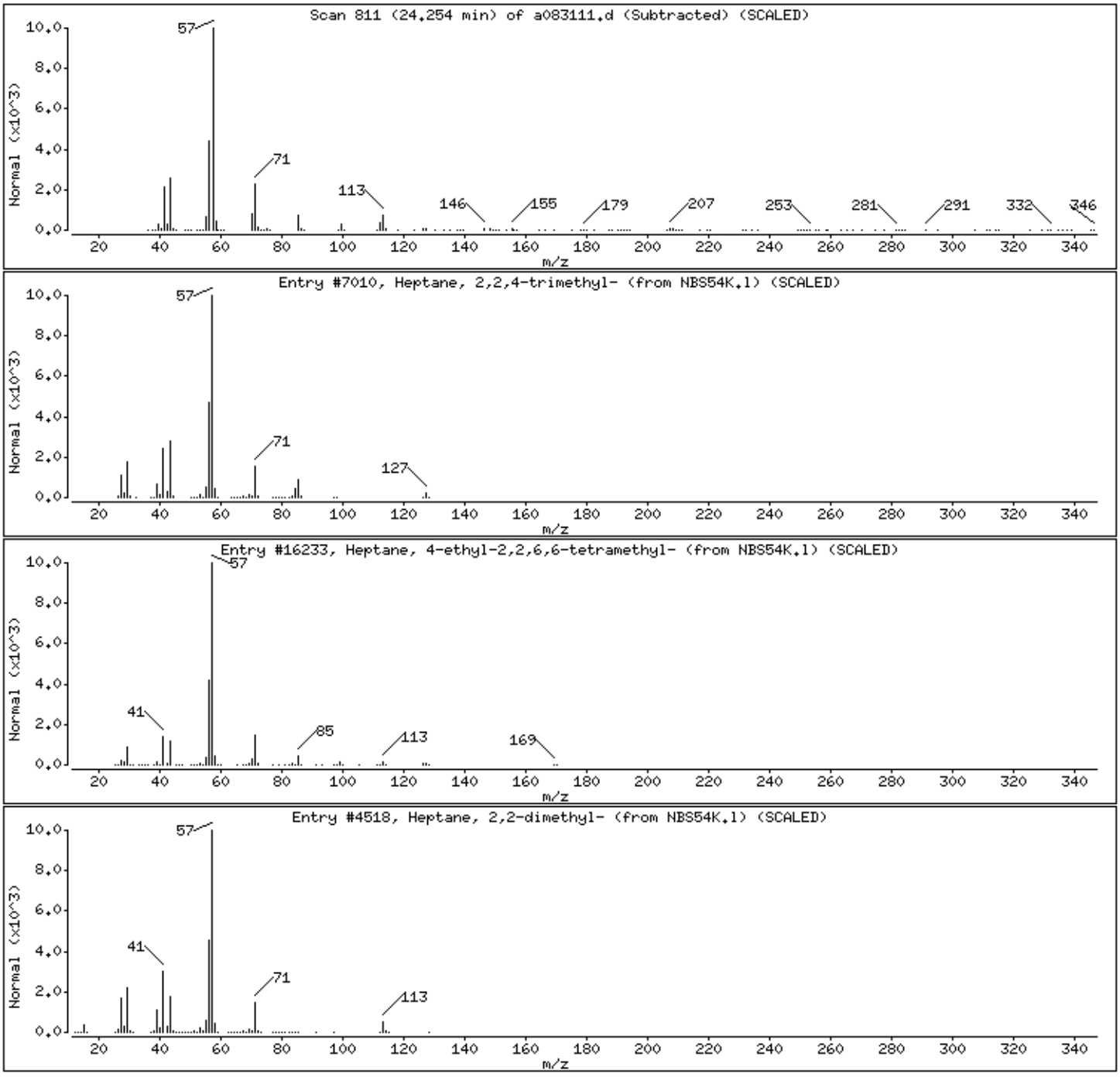
Sample Info: 250mL #25250

Operator: jc

Column phase: RTx-624

Column diameter: 0.32

| Library Search Compound Match | CAS Number | Library | Entry | Quality | Formula | Weight |
|---|---|---|---|---|---|---|
| Heptane, 2,2,4-trimethyl- | 14720-74-2 | NBS54K.l | 7010 | 59 | C10H22 | 142 |
| Heptane, 4-ethyl-2,2,6,6-tetramethyl- | 62108-31-0 | NBS54K.l | 16233 | 56 | C13H28 | 184 |
| Heptane, 2,2-dimethyl- | 1071-26-7 | NBS54K.l | 4518 | 53 | C9H20 | 128 |



Data File: /chem/msda.i/31Aug2011.b/a083111.d

Date : 31-AUG-2011 15:44

Client ID:

Instrument: msda.i

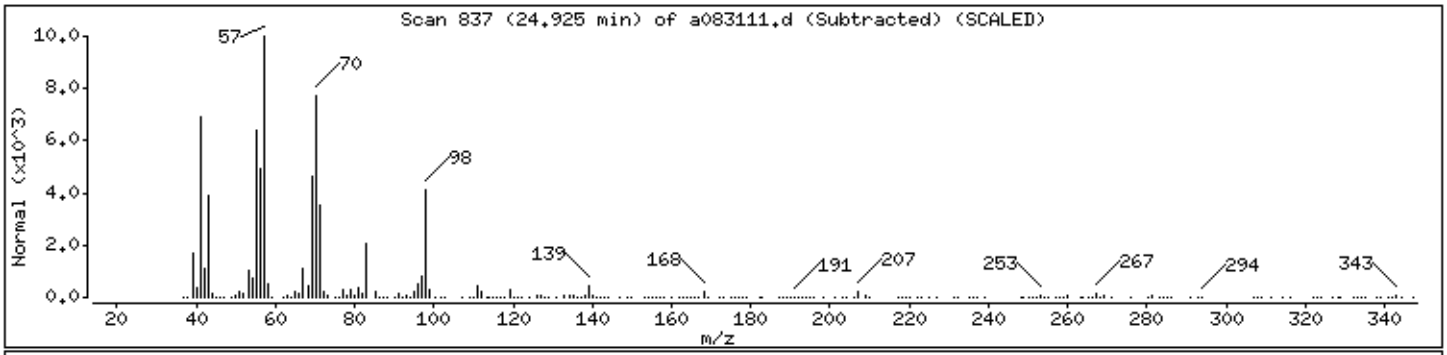
Sample Info: 250mL #25250

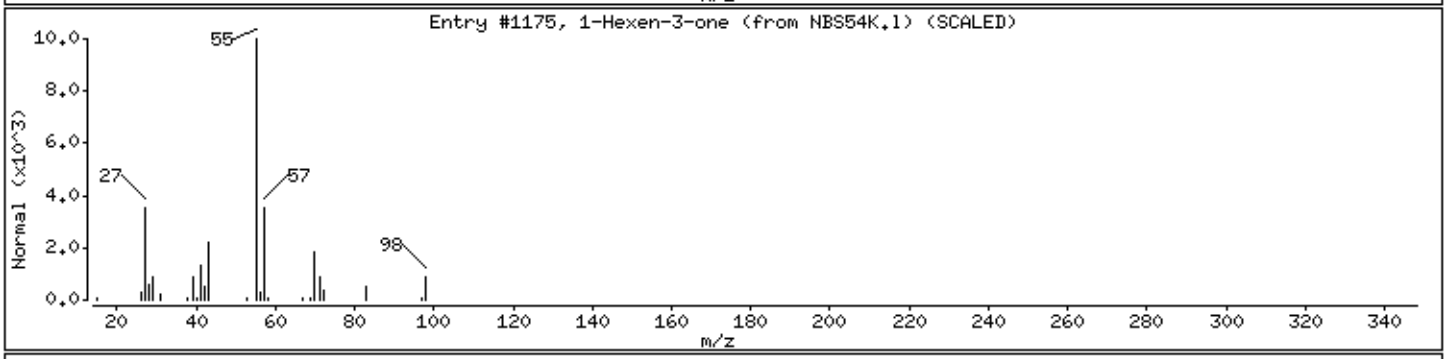
Operator: jc

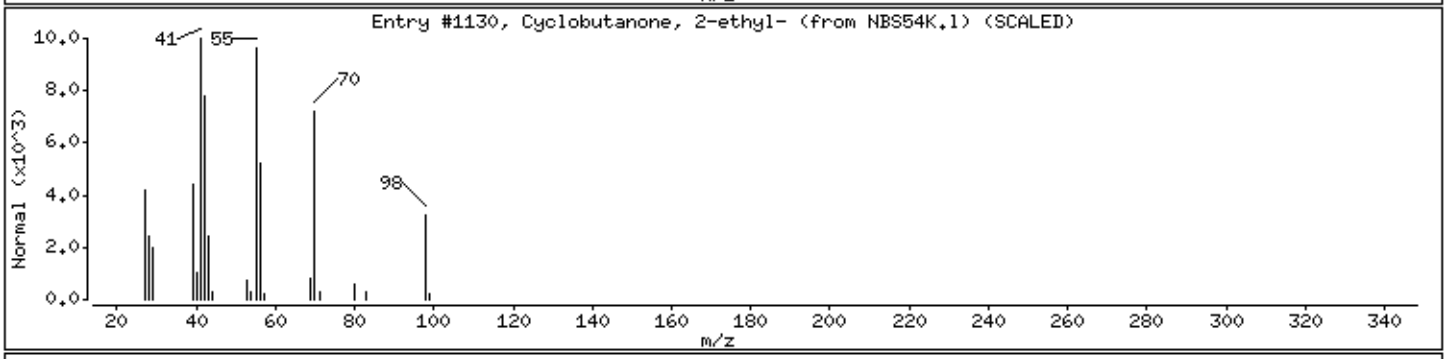
Column phase: RTx-624

Column diameter: 0.32

| Library Search Compound Match | CAS Number | Library | Entry | Quality | Formula | Weight |
|---|---|---|---|---|---|---|
| 1-Hexen-3-one | 1629-60-3 | NBS54K.l | 1175 | 53 | C6H10O | 98 |
| Cyclobutanone, 2-ethyl- | 10374-14-8 | NBS54K.l | 1130 | 53 | C6H10O | 98 |



Air Toxics LTD.
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# Summary of Detected Compounds
# MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

**Client Sample ID: SG-7**

**Lab ID#: 1108582-02A**

| Compound | Rpt. Limit (ppbv) | Amount (ppbv) | Rpt. Limit (ug/m3) | Amount (ug/m3) |
|---|---|---|---|---|
| 1,3-Butadiene | 0.88 | 9.5 | 1.9 | 21 |
| Acetone | 4.4 | 570 E | 10 | 1400 E |
| Hexane | 0.88 | 1.6 | 3.1 | 5.5 |
| 2-Butanone (Methyl Ethyl Ketone) | 4.4 | 8.0 | 13 | 24 |
| Cyclohexane | 0.88 | 4.1 | 3.0 | 14 |
| Benzene | 0.88 | 230 | 2.8 | 730 |
| Heptane | 0.88 | 2.7 | 3.6 | 11 |
| Toluene | 0.88 | 200 | 3.3 | 770 |
| Tetrachloroethene | 0.88 | 1.8 | 5.9 | 12 |
| Ethyl Benzene | 0.88 | 24 | 3.8 | 100 |
| m,p-Xylene | 0.88 | 220 | 3.8 | 940 |
| o-Xylene | 0.88 | 110 | 3.8 | 470 |
| Styrene | 0.88 | 16 | 3.7 | 71 |
| Cumene | 0.88 | 2.2 | 4.3 | 11 |
| Propylbenzene | 0.88 | 2.6 | 4.3 | 13 |
| 4-Ethyltoluene | 0.88 | 22 | 4.3 | 110 |
| 1,3,5-Trimethylbenzene | 0.88 | 40 | 4.3 | 200 |
| 1,2,4-Trimethylbenzene | 0.88 | 54 | 4.3 | 260 |
| 2,3-Dimethylpentane | 4.4 | 14 | 18 | 58 |
| 2-Methylpentane | 4.4 | 34 E | 15 | 120 E |
| Indene | 4.4 | 29 E | 21 | 140 E |
| Indan | 4.4 | 10 | 21 | 49 |
| Isopentane | 4.4 | 13 | 13 | 38 |

**TENTATIVELY IDENTIFIED COMPOUNDS**

| Compound | CAS Number | Match Quality | Amount (ppbv) |
|---|---|---|---|
| Unknown | NA | NA | 740 J |
| Propane, 2-methyl- | 75-28-5 | 64% | 35 NJ |
| 2-Butene, (Z)- | 590-18-1 | 80% | 200 NJ |
| Unknown | NA | NA | 43 J |
| Butane, 2,2-dimethyl- | 75-83-2 | 78% | 32 NJ |
| Pentane, 2,4-dimethyl- | 108-08-7 | 72% | 59 NJ |

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# Summary of Detected Compounds
# MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

**Client Sample ID: SG-7**

**Lab ID#: 1108582-02A**

**TENTATIVELY IDENTIFIED COMPOUNDS**

| Compound | CAS Number | Match Quality | Amount (ppbv) |
|---|---|---|---|
| Butane, 2,2,3-trimethyl- | 464-06-2 | 64% | 56 NJ |
| Cyclohexane, methyl- | 108-87-2 | 80% | 41 NJ |
| Unknown | NA | NA | 44 J |
| 1-Pentene, 3-ethyl- | 4038-04-4 | 47% | 37 NJ |

Air Toxics LTD.
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**Client Sample ID: SG-7**

**Lab ID#: 1108582-02A**

**MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN**

| | | | |
|---|---|---|---|
| **File Name:** | **a083112** | **Date of Collection:** | **8/25/11 8:45:00 AM** |
| **Dil. Factor:** | **8.75** | **Date of Analysis:** | **8/31/11 04:25 PM** |

| Compound | Rpt. Limit (ppbv) | Amount (ppbv) | Rpt. Limit (ug/m3) | Amount (ug/m3) |
|---|---|---|---|---|
| Freon 12 | 0.88 | Not Detected | 4.3 | Not Detected |
| Freon 114 | 0.88 | Not Detected | 6.1 | Not Detected |
| Chloromethane | 0.88 | Not Detected | 1.8 | Not Detected |
| Vinyl Chloride | 0.88 | Not Detected | 2.2 | Not Detected |
| 1,3-Butadiene | 0.88 | 9.5 | 1.9 | 21 |
| Bromomethane | 0.88 | Not Detected | 3.4 | Not Detected |
| Chloroethane | 4.4 | Not Detected | 12 | Not Detected |
| Freon 11 | 0.88 | Not Detected | 4.9 | Not Detected |
| Ethanol | 4.4 | Not Detected | 8.2 | Not Detected |
| Freon 113 | 0.88 | Not Detected | 6.7 | Not Detected |
| 1,1-Dichloroethene | 0.88 | Not Detected | 3.5 | Not Detected |
| Acetone | 4.4 | 570 E | 10 | 1400 E |
| 2-Propanol | 4.4 | Not Detected | 11 | Not Detected |
| Carbon Disulfide | 4.4 | Not Detected | 14 | Not Detected |
| 3-Chloropropene | 4.4 | Not Detected | 14 | Not Detected |
| Methylene Chloride | 1.8 | Not Detected | 6.1 | Not Detected |
| Methyl tert-butyl ether | 0.88 | Not Detected | 3.2 | Not Detected |
| trans-1,2-Dichloroethene | 0.88 | Not Detected | 3.5 | Not Detected |
| Hexane | 0.88 | 1.6 | 3.1 | 5.5 |
| 1,1-Dichloroethane | 0.88 | Not Detected | 3.5 | Not Detected |
| 2-Butanone (Methyl Ethyl Ketone) | 4.4 | 8.0 | 13 | 24 |
| cis-1,2-Dichloroethene | 0.88 | Not Detected | 3.5 | Not Detected |
| Tetrahydrofuran | 4.4 | Not Detected | 13 | Not Detected |
| Chloroform | 0.88 | Not Detected | 4.3 | Not Detected |
| 1,1,1-Trichloroethane | 0.88 | Not Detected | 4.8 | Not Detected |
| Cyclohexane | 0.88 | 4.1 | 3.0 | 14 |
| Carbon Tetrachloride | 0.88 | Not Detected | 5.5 | Not Detected |
| 2,2,4-Trimethylpentane | 4.4 | Not Detected | 20 | Not Detected |
| Benzene | 0.88 | 230 | 2.8 | 730 |
| 1,2-Dichloroethane | 0.88 | Not Detected | 3.5 | Not Detected |
| Heptane | 0.88 | 2.7 | 3.6 | 11 |
| Trichloroethene | 0.88 | Not Detected | 4.7 | Not Detected |
| 1,2-Dichloropropane | 0.88 | Not Detected | 4.0 | Not Detected |
| 1,4-Dioxane | 0.88 | Not Detected | 3.2 | Not Detected |
| Bromodichloromethane | 0.88 | Not Detected | 5.9 | Not Detected |
| cis-1,3-Dichloropropene | 0.88 | Not Detected | 4.0 | Not Detected |
| 4-Methyl-2-pentanone | 0.88 | Not Detected | 3.6 | Not Detected |
| Toluene | 0.88 | 200 | 3.3 | 770 |
| trans-1,3-Dichloropropene | 0.88 | Not Detected | 4.0 | Not Detected |
| 1,1,2-Trichloroethane | 0.88 | Not Detected | 4.8 | Not Detected |
| Tetrachloroethene | 0.88 | 1.8 | 5.9 | 12 |

Air Toxics LTD.
Laboratory Services Since 1989

**Client Sample ID: SG-7**

**Lab ID#: 1108582-02A**

**MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN**

| | | | |
|---|---|---|---|
| **File Name:** | **a083112** | **Date of Collection:** | **8/25/11 8:45:00 AM** |
| **Dil. Factor:** | **8.75** | **Date of Analysis:** | **8/31/11 04:25 PM** |

| Compound | Rpt. Limit (ppbv) | Amount (ppbv) | Rpt. Limit (ug/m3) | Amount (ug/m3) |
|---|---|---|---|---|
| 2-Hexanone | 4.4 | Not Detected | 18 | Not Detected |
| Dibromochloromethane | 0.88 | Not Detected | 7.4 | Not Detected |
| 1,2-Dibromoethane (EDB) | 0.88 | Not Detected | 6.7 | Not Detected |
| Chlorobenzene | 0.88 | Not Detected | 4.0 | Not Detected |
| Ethyl Benzene | 0.88 | 24 | 3.8 | 100 |
| m,p-Xylene | 0.88 | 220 | 3.8 | 940 |
| o-Xylene | 0.88 | 110 | 3.8 | 470 |
| Styrene | 0.88 | 16 | 3.7 | 71 |
| Bromoform | 0.88 | Not Detected | 9.0 | Not Detected |
| Cumene | 0.88 | 2.2 | 4.3 | 11 |
| 1,1,2,2-Tetrachloroethane | 0.88 | Not Detected | 6.0 | Not Detected |
| Propylbenzene | 0.88 | 2.6 | 4.3 | 13 |
| 4-Ethyltoluene | 0.88 | 22 | 4.3 | 110 |
| 1,3,5-Trimethylbenzene | 0.88 | 40 | 4.3 | 200 |
| 1,2,4-Trimethylbenzene | 0.88 | 54 | 4.3 | 260 |
| 1,3-Dichlorobenzene | 0.88 | Not Detected | 5.3 | Not Detected |
| 1,4-Dichlorobenzene | 0.88 | Not Detected | 5.3 | Not Detected |
| alpha-Chlorotoluene | 0.88 | Not Detected | 4.5 | Not Detected |
| 1,2-Dichlorobenzene | 0.88 | Not Detected | 5.3 | Not Detected |
| 1,2,4-Trichlorobenzene | 4.4 | Not Detected | 32 | Not Detected |
| Hexachlorobutadiene | 4.4 | Not Detected | 47 | Not Detected |
| 2,3-Dimethylpentane | 4.4 | 14 | 18 | 58 |
| 2-Methylpentane | 4.4 | 34 E | 15 | 120 E |
| Indene | 4.4 | 29 E | 21 | 140 E |
| Indan | 4.4 | 10 | 21 | 49 |
| Isopentane | 4.4 | 13 | 13 | 38 |
| Naphthalene | 4.4 | Not Detected | 23 | Not Detected |
| Thiophene | 4.4 | Not Detected | 15 | Not Detected |

E = Exceeds instrument calibration range.

**TENTATIVELY IDENTIFIED COMPOUNDS**

| Compound | CAS Number | Match Quality | Amount ((ppbv)) |
|---|---|---|---|
| Unknown | NA | NA | 740 J |
| Propane, 2-methyl- | 75-28-5 | 64% | 35 NJ |
| 2-Butene, (Z)- | 590-18-1 | 80% | 200 NJ |
| Unknown | NA | NA | 43 J |
| Butane, 2,2-dimethyl- | 75-83-2 | 78% | 32 NJ |
| Pentane, 2,4-dimethyl- | 108-08-7 | 72% | 59 NJ |
| Butane, 2,2,3-trimethyl- | 464-06-2 | 64% | 56 NJ |
| Cyclohexane, methyl- | 108-87-2 | 80% | 41 NJ |

Air Toxics LTD.
Laboratory Services Since 1989

**Client Sample ID: SG-7**

**Lab ID#: 1108582-02A**

**MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN**

| | | | |
|---|---|---|---|
| **File Name:** | **a083112** | **Date of Collection: 8/25/11 8:45:00 AM** | |
| **Dil. Factor:** | **8.75** | **Date of Analysis: 8/31/11 04:25 PM** | |

**TENTATIVELY IDENTIFIED COMPOUNDS**

| Compound | CAS Number | Match Quality | Amount ((ppbv)) |
|---|---|---|---|
| Unknown | NA | NA | 44 J |
| 1-Pentene, 3-ethyl- | 4038-04-4 | 47% | 37 NJ |

NJ =The identification is based on presumptive evidence; estimated value.

**Container Type: 6 Liter Summa Special (100% Certified)**

| Surrogates | %Recovery | Method Limits |
|---|---|---|
| 1,2-Dichloroethane-d4 | 107 | 70-130 |
| Toluene-d8 | 101 | 70-130 |
| 4-Bromofluorobenzene | 102 | 70-130 |

Air Toxics Ltd.

AMBIENT AIR METHOD TO14/TO15

Data file : /chem/msda.i/31Aug2011.b/a083112.d
Lab Smp Id: 1108582-02A
Inj Date : 31-AUG-2011 16:25
Operator : jc Inst ID: msda.i
Smp Info : 50mL #34006
Misc Info : 7.0"Hg-5psi
Comment :
Method : /chem/msda.i/31Aug2011.b/a11l0818b.m
Meth Date : 13-Sep-2011 12:21 ejakob Quant Type: ISTD
Cal Date : 31-AUG-2011 11:39 Cal File: a083106.d
Als bottle: 28
Dil Factor: 8.75000
Integrator: HP RTE Compound Sublist: Par16136.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

| RT | EXP RT (REL RT) | MASS | RESPONSE | CONCENTRATIONS ON-COL ( PPBV) | CONCENTRATIONS FINAL ( PPBV) | TARGET RANGE | RATIO |
|---|---|---|---|---|---|---|---|
| * 52 Bromochloromethane | | | | | CAS #: 74-97-5 | | |
| 15.406 | 15.406 (1.000) | 130 | 190087 | 10.0000 | | 80.00- 120.00 | 100.00 |
| 15.406 | 15.406 (1.000) | 128 | 144973 | | | 0.00- 30.00 | 76.27 |
| 15.406 | 15.406 (1.000) | 49 | 325992 | | | 0.00- 30.00 | 171.50 |
| * 66 1,4-Difluorobenzene | | | | | CAS #: 540-36-3 | | |
| 16.825 | 16.825 (1.000) | 114 | 878292 | 10.0000 | | 80.00- 120.00 | 100.00 |
| 16.825 | 16.825 (1.000) | 88 | 147945 | | | 0.00- 30.00 | 16.84 |
| * 88 Chlorobenzene-d5 | | | | | CAS #: 3114-55-4 | | |
| 21.614 | 21.614 (1.000) | 117 | 761722 | 10.0000 | | 80.00- 120.00 | 100.00 |
| 21.614 | 21.614 (1.000) | 82 | 465212 | | | 0.00- 30.00 | 61.07 |
| $ 61 1,2-Dichloroethane-d4 | | | | | CAS #: 17060-07-0 | | |
| 16.249 | 16.248 (1.055) | 65 | 365371 | 10.6816 | 10.682 | 80.00- 120.00 | 100.00 |
| 16.249 | 16.248 (1.055) | 67 | 191808 | | | 21.17- 81.17 | 52.50 |
| $ 80 Toluene-d8 | | | | | CAS #: 2037-26-5 | | |
| 19.389 | 19.411 (1.152) | 98 | 866488 | 10.1484 | 10.148 | 80.00- 120.00 | 100.00 |
| 19.389 | 19.411 (1.152) | 70 | 117002 | | | 0.00- 41.96 | 13.50 |

| RT | EXP RT (REL RT) | MASS | RESPONSE | CONCENTRATIONS ON-COL ( PPBV) | FINAL ( PPBV) | TARGET RANGE | RATIO |
|---|---|---|---|---|---|---|---|
| $ 80 Toluene-d8 (continued) | | | | | | | |
| 19.389 | 19.411 (1.152) | 100 | 574985 | | | 36.91- 96.91 | 66.36 |
| $ 100 Bromofluorobenzene | | | | | CAS #: 460-00-4 | | |
| 23.068 | 23.068 (1.067) | 174 | 403869 | 10.1797 | 10.180 | 80.00- 120.00 | 100.00 |
| 23.068 | 23.068 (1.067) | 95 | 582363 | | | 114.98- 174.98 | 144.20 |
| 23.068 | 23.068 (1.067) | 176 | 384807 | | | 67.23- 127.23 | 95.28 |
| 11 1,3-Butadiene | | | | | CAS #: 106-99-0 | | |
| 8.319 | 8.319 (0.540) | 54 | 44308 | 1.09123 | 9.548 | 80.00- 120.00 | 100.00 |
| 8.319 | 8.319 (0.540) | 39 | 79930 | | | 64.36- 124.36 | 180.40 |
| 24 Acetone | | | | | CAS #: 67-64-1 | | |
| 12.416 | 12.416 (0.806) | 58 | 1621884 | 65.5976 | 573.98 | 80.00- 120.00 | 100.00(A) |
| 12.416 | 12.416 (0.806) | 43 | 5172978 | | | 283.54- 343.54 | 318.95 |
| 40 Hexane | | | | | CAS #: 110-54-3 | | |
| 13.819 | 13.819 (0.897) | 57 | 16977 | 0.17847 | 1.562 | 80.00- 120.00 | 100.00 |
| 13.819 | 13.819 (0.897) | 43 | 11788 | | | 33.38- 93.38 | 69.44 |
| 13.819 | 13.819 (0.897) | 86 | 2579 | | | 0.00- 46.43 | 15.19 |
| 48 2-Butanone | | | | | CAS #: 78-93-3 | | |
| 15.065 | 15.065 (0.978) | 72 | 25811 | 0.91093 | 7.971 | 80.00- 120.00 | 100.00 |
| 15.065 | 15.065 (0.978) | 43 | 169949 | | | 298.82- 358.82 | 658.44 |
| 15.065 | 15.065 (0.978) | 57 | 10378 | | | 0.00- 56.09 | 40.21 |
| 55 Cyclohexane | | | | | CAS #: 110-82-7 | | |
| 15.714 | 15.714 (1.020) | 84 | 37569 | 0.47357 | 4.144 | 80.00- 120.00 | 100.00 |
| 15.683 | 15.714 (1.018) | 56 | 197016 | | | 97.99- 157.99 | 524.41 |
| 15.683 | 15.714 (1.018) | 41 | 122811 | | | 37.94- 97.94 | 326.89 |
| 60 Benzene | | | | | CAS #: 71-43-2 | | |
| 16.249 | 16.248 (0.966) | 78 | 4268411 | 26.1659 | 228.95 | 80.00- 120.00 | 100.00 |
| 16.249 | 16.248 (0.966) | 77 | 982898 | | | 0.00- 53.14 | 23.03 |
| 64 Heptane | | | | | CAS #: 142-82-5 | | |
| 16.413 | 16.413 (0.976) | 57 | 16588 | 0.30510 | 2.670 | 80.00- 120.00 | 100.00 |
| 16.413 | 16.413 (0.976) | 100 | 2843 | | | 11.16- 71.16 | 17.14 |
| 16.413 | 16.413 (0.976) | 43 | 23586 | | | 158.27- 218.27 | 142.19 |
| 81 Toluene | | | | | CAS #: 108-88-3 | | |
| 19.524 | 19.524 (1.160) | 91 | 4350313 | 23.3180 | 204.03 | 80.00- 120.00 | 100.00 |
| 19.524 | 19.524 (1.160) | 92 | 2596245 | | | 30.18- 90.18 | 59.68 |
| 84 Tetrachloroethene | | | | | CAS #: 127-18-4 | | |
| 20.365 | 20.365 (0.942) | 166 | 16533 | 0.20098 | 1.758 | 80.00- 120.00 | 100.00 |

| RT | EXP RT (REL RT) | MASS | RESPONSE | CONCENTRATIONS ON-COL ( PPBV) | CONCENTRATIONS FINAL ( PPBV) | TARGET RANGE | RATIO |
|---|---|---|---|---|---|---|---|
| 84 Tetrachloroethene (continued) | | | | | | | |
| 20.333 | 20.365 (0.941) | 129 | 13616 | | | 48.84- 108.84 | 82.36 |
| 20.333 | 20.365 (0.941) | 131 | 13202 | | | 46.09- 106.09 | 79.85 |
| 91 Ethyl Benzene | | | | | CAS #: 100-41-4 | | |
| 21.711 | 21.711 (1.004) | 106 | 201031 | 2.70611 | 23.678 | 80.00- 120.00 | 100.00 |
| 21.711 | 21.711 (1.004) | 91 | 659706 | | | 291.22- 351.22 | 328.16 |
| 93 m,p-Xylene | | | | | CAS #: 108-38-3 | | |
| 21.855 | 21.855 (1.011) | 106 | 2002296 | 24.6495 | 215.68 | 80.00- 120.00 | 100.00 |
| 21.855 | 21.855 (1.011) | 91 | 4057339 | | | 173.15- 233.15 | 202.63 |
| 94 o-Xylene | | | | | CAS #: 95-47-6 | | |
| 22.385 | 22.385 (1.036) | 106 | 959224 | 12.2735 | 107.39 | 80.00- 120.00 | 100.00 |
| 22.385 | 22.385 (1.036) | 91 | 2093410 | | | 185.20- 245.20 | 218.24 |
| 95 Styrene | | | | | CAS #: 100-42-5 | | |
| 22.409 | 22.409 (1.037) | 104 | 240823 | 1.89582 | 16.588 | 80.00- 120.00 | 100.00 |
| 22.385 | 22.409 (1.036) | 78 | 235289 | | | 21.95- 81.95 | 97.70 |
| 98 Cumene | | | | | CAS #: 98-82-8 | | |
| 22.810 | 22.810 (1.055) | 105 | 60572 | 0.25817 | 2.259 | 80.00- 120.00 | 100.00 |
| 22.810 | 22.810 (1.055) | 120 | 15239 | | | 0.00- 56.13 | 25.16 |
| 104 Propylbenzene | | | | | CAS #: 103-65-1 | | |
| 23.274 | 23.274 (1.077) | 91 | 72361 | 0.29806 | 2.608 | 80.00- 120.00 | 100.00 |
| 23.274 | 23.274 (1.077) | 120 | 16095 | | | 0.00- 52.40 | 22.24 |
| 107 4-Ethyltoluene | | | | | CAS #: 622-96-8 | | |
| 23.378 | 23.403 (1.082) | 105 | 568097 | 2.56395 | 22.434 | 80.00- 120.00 | 100.00 |
| 23.378 | 23.403 (1.082) | 120 | 174251 | | | 0.31- 60.31 | 30.67 |
| 109 1,3,5-Trimethylbenzene | | | | | CAS #: 108-67-8 | | |
| 23.455 | 23.455 (1.085) | 105 | 810168 | 4.62862 | 40.500 | 80.00- 120.00 | 100.00 |
| 23.455 | 23.455 (1.085) | 120 | 391351 | | | 18.26- 78.26 | 48.30 |
| 112 1,2,4-Trimethylbenzene | | | | | CAS #: 95-63-6 | | |
| 23.893 | 23.893 (1.105) | 105 | 1008868 | 6.17561 | 54.036 | 80.00- 120.00 | 100.00 |
| 23.893 | 23.893 (1.105) | 120 | 453898 | | | 15.25- 75.25 | 44.99 |
| 14 Isopentane | | | | | CAS #: 78-78-4 | | |
| 10.240 | 10.260 (0.665) | 57 | 56129 | 1.48327 | 12.978 | 80.00- 120.00 | 100.00 |
| 10.260 | 10.260 (0.666) | 43 | 80212 | | | 104.71- 164.71 | 142.91 |
| 10.260 | 10.260 (0.666) | 42 | 71730 | | | 89.04- 149.04 | 127.79 |
| 30 2-Methylpentane | | | | | CAS #: 107-83-5 | | |
| 12.913 | 12.995 (0.838) | 71 | 123564 | 3.89722 | 34.101 | 80.00- 120.00 | 100.00(A) |

| RT | EXP RT (REL RT) | MASS | RESPONSE | CONCENTRATIONS ON-COL ( PPBV) | CONCENTRATIONS FINAL ( PPBV) | TARGET RANGE | RATIO |
|---|---|---|---|---|---|---|---|
| 30 2-Methylpentane (continued) | | | | | | | |
| 12.913 | 12.995 (0.838) | 43 | 570397 | | | 0.00- 30.00 | 461.62 |
| 12.913 | 12.995 (0.838) | 42 | 485669 | | | 0.00- 30.00 | 393.05 |
| 54 2,3-Dimethylpentane | | | | | CAS #: 565-59-3 | | |
| 15.683 | 15.683 (1.018) | 71 | 45312 | 1.60470 | 14.041 | 80.00- 120.00 | 100.00 |
| 15.683 | 15.683 (1.018) | 56 | 197016 | | | 0.00- 30.00 | 434.80 |
| 15.683 | 15.683 (1.018) | 43 | 110544 | | | 0.00- 30.00 | 243.96 |
| 119 Indan | | | | | CAS #: 496-11-7 | | |
| 24.590 | 24.616 (1.138) | 117 | 69447 | 1.15275 | 10.086 | 80.00- 120.00 | 100.00 |
| 24.616 | 24.616 (1.139) | 118 | 38216 | | | 0.00- 30.00 | 55.03 |
| 24.590 | 24.616 (1.138) | 91 | 30131 | | | 0.00- 30.00 | 43.39 |
| 122 Indene | | | | | CAS #: 95-13-6 | | |
| 24.848 | 24.874 (1.150) | 115 | 70850 | 3.28023 | 28.702 | 80.00- 120.00 | 100.00(A) |
| 24.848 | 24.874 (1.150) | 116 | 69295 | | | 0.00- 30.00 | 97.81 |
| 0.000 | 24.874 (0.000) | 0 | 0 | | | 0.00- 30.00 | 0.00 |

## QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.

Air Toxics Ltd.

AMBIENT AIR METHOD TO14/TO15

Data file : /chem/msda.i/31Aug2011.b/a083112.d
Lab Smp Id: 1108582-02A
Inj Date : 31-AUG-2011 16:25
Operator : jc Inst ID: msda.i
Smp Info : 50mL #34006
Misc Info : 7.0"Hg-5psi
Comment :
Method : /chem/msda.i/31Aug2011.b/a11l0818b.m
Meth Date : 13-Sep-2011 12:21 ejakob Quant Type: ISTD
Cal Date : 31-AUG-2011 11:39 Cal File: a083106.d
Als bottle: 28
Dil Factor: 8.75000
Integrator: HP RTE Compound Sublist: Par16136.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

| ISTD | RT | AREA | AMOUNT |
|---|---|---|---|
| * 52 Bromochloromethane | 15.406 | 1368486 | 10.000 |
| * 66 1,4-Difluorobenzene | 16.825 | 2249185 | 10.000 |
| * 88 Chlorobenzene-d5 | 21.614 | 2954443 | 10.000 |

| | CONCENTRATIONS | | | | QUANT | | |
|---|---|---|---|---|---|---|---|
| RT | AREA | ON-COL( PPBV) | FINAL( PPBV) | QUAL | LIBRARY | LIB ENTRY | CPND # |
| Unknown | | | | | CAS #: | | |
| 5.179 | 11518228 | 84.1676374 | 736.47 | 0 | | 0 | 52 |
| Propane, 2-methyl- | | | | | CAS #: 75-28-5 | | |
| 6.867 | 544380 | 3.97796861 | 34.807 | 64 | NBS54K.l | 97 | 52(L) |
| 2-Butene, (Z)- | | | | | CAS #: 590-18-1 | | |
| 7.902 | 3075005 | 22.4701158 | 196.61 | 80 | NBS54K.l | 78 | 52 |

| RT | AREA | ON-COL( PPBV) | FINAL( PPBV) | QUAL | LIBRARY | LIB ENTRY | CPND # |
|---|---|---|---|---|---|---|---|
| Unknown | | | | | CAS #: | | |
| 8.319 | 670168 | 4.89714855 | 42.850 | 0 | | 0 | 52(L) |
| Butane, 2,2-dimethyl- | | | | | CAS #: 75-83-2 | | |
| 12.064 | 504477 | 3.68638578 | 32.256 | 78 | NBS54K.l | 683 | 52 |
| Pentane, 2,4-dimethyl- | | | | | CAS #: 108-08-7 | | |
| 14.568 | 917441 | 6.70405410 | 58.660 | 72 | NBS54K.l | 1443 | 52 |
| Butane, 2,2,3-trimethyl- | | | | | CAS #: 464-06-2 | | |
| 14.837 | 877389 | 6.41138180 | 56.100 | 64 | NBS54K.l | 1448 | 52 |
| Cyclohexane, methyl- | | | | | CAS #: 108-87-2 | | |
| 17.484 | 1055690 | 4.69365541 | 41.069 | 80 | NBS54K.l | 1211 | 66 |
| Unknown | | | | | CAS #: | | |
| 23.713 | 1495990 | 5.06352512 | 44.306 | 0 | | 0 | 88 |
| 1-Pentene, 3-ethyl- | | | | | CAS #: 4038-04-4 | | |
| 24.925 | 1253784 | 4.24372467 | 37.132 | 47 | NBS54K.l | 1223 | 88(L) |

## QC Flag Legend

L - Operator selected an alternate library search match.

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msda.i
Lab File ID: a083112.d
Lab Smp Id: 1108582-02A
Analysis Type: VOA
Quant Type: ISTD
Operator: jc
Method File: /chem/msda.i/31Aug2011.b/a11l0818b.m
Misc Info: 7.0"Hg-5psi

Calibration Date: 31-AUG-2011
Calibration Time: 08:01
Level: LOW
Sample Type: AIR

| | | AREA LIMIT | | | |
|---|---|---|---|---|---|
| COMPOUND | STANDARD | LOWER | UPPER | SAMPLE | %DIFF |
| 52 Bromochloromethan | 206450 | 123870 | 289030 | 190087 | -7.93 |
| 66 1,4-Difluorobenze | 897592 | 538555 | 1256629 | 878292 | -2.15 |
| 88 Chlorobenzene-d5 | 792197 | 475318 | 1109076 | 761722 | -3.85 |

| | | RT LIMIT | | | |
|---|---|---|---|---|---|
| COMPOUND | STANDARD | LOWER | UPPER | SAMPLE | %DIFF |
| 52 Bromochloromethan | 15.41 | 15.08 | 15.74 | 15.41 | 0.00 |
| 66 1,4-Difluorobenze | 16.82 | 16.50 | 17.15 | 16.83 | 0.00 |
| 88 Chlorobenzene-d5 | 21.61 | 21.28 | 21.94 | 21.61 | 0.00 |

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Report Date: 13-Sep-2011 12:22

Air Toxics Ltd.

RECOVERY REPORT

Client Name: Client SDG: 31Aug2011
Sample Matrix: GAS Fraction: VOA
Lab Smp Id: 1108582-02A
Level: LOW Operator: jc
Data Type: MS DATA SampleType: SAMPLE
SpikeList File: AT09.spk Quant Type: ISTD
Sublist File: Par16136.sub
Method File: /chem/msda.i/31Aug2011.b/a11l0818b.m
Misc Info: 7.0"Hg-5psi

| SURROGATE COMPOUND | CONC ADDED PPBV | CONC RECOVERED PPBV | % RECOVERED | LIMITS |
|---|---|---|---|---|
| $ 61 1,2-Dichloroethane | 10.000 | 10.682 | 106.82 | 70-130 |
| $ 80 Toluene-d8 | 10.000 | 10.148 | 101.48 | 70-130 |
| $ 100 Bromofluorobenzene | 10.000 | 10.180 | 101.80 | 70-130 |

mr

Data File: /chem/msda.i/31Aug2011.b/a083112.d 

Date : 31-AUG-2011 16:25

Client ID:

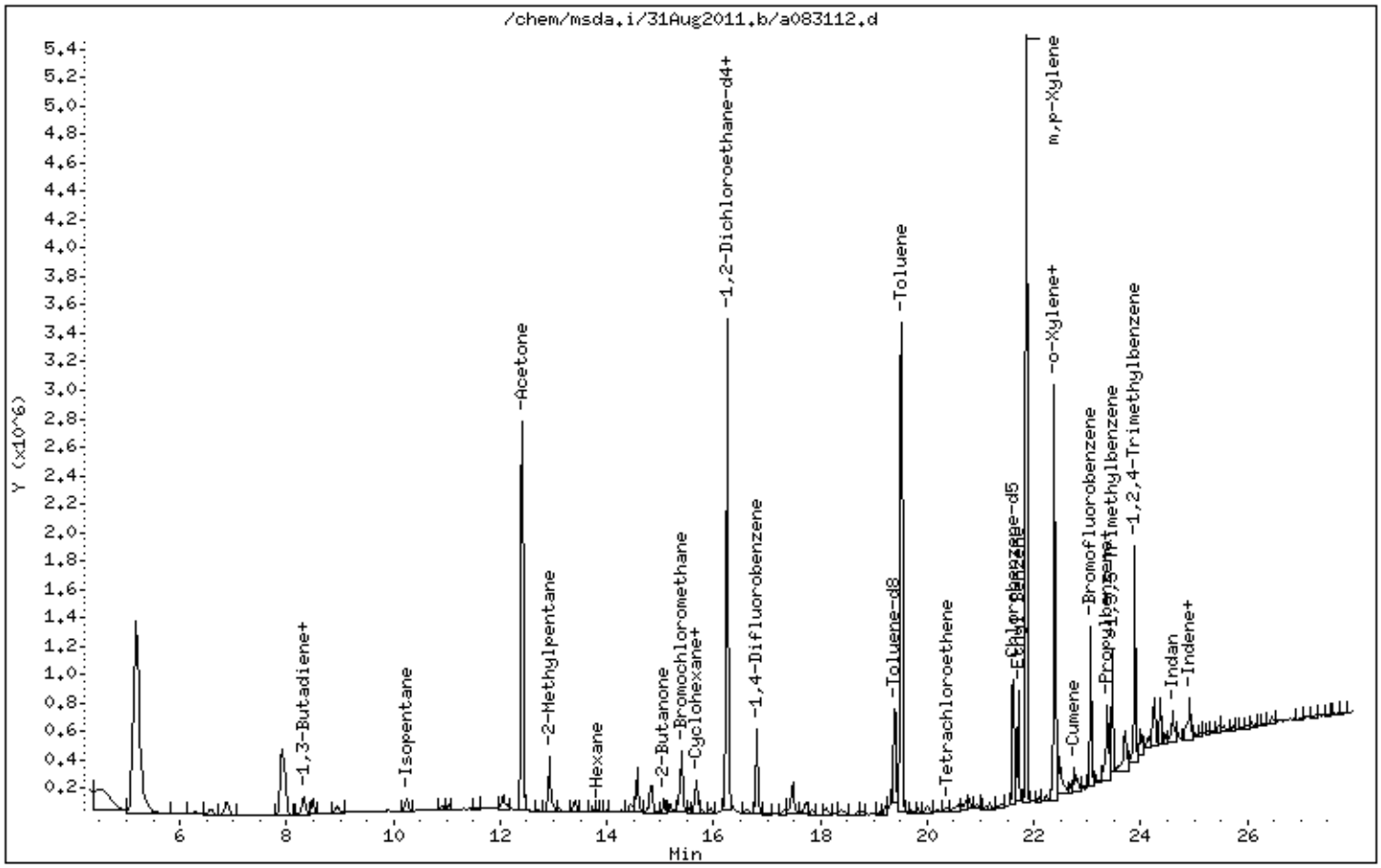
Instrument: msda.i

Sample Info: 50mL #34006

Operator: jc

Column phase: RTx-624

Column diameter: 0.32



Data File: /chem/msda.i/31Aug2011.b/a083112.d

Date : 31-AUG-2011 16:25

Client ID:

Instrument: msda.i

Sample Info: 50mL #34006

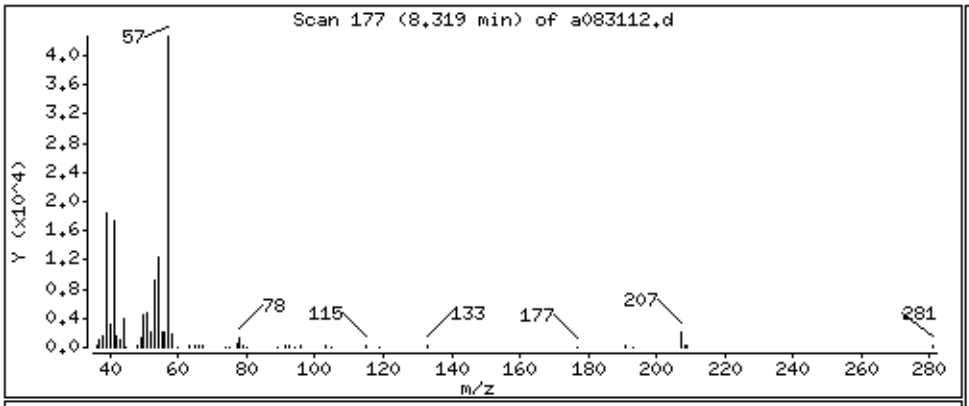
Operator: jc

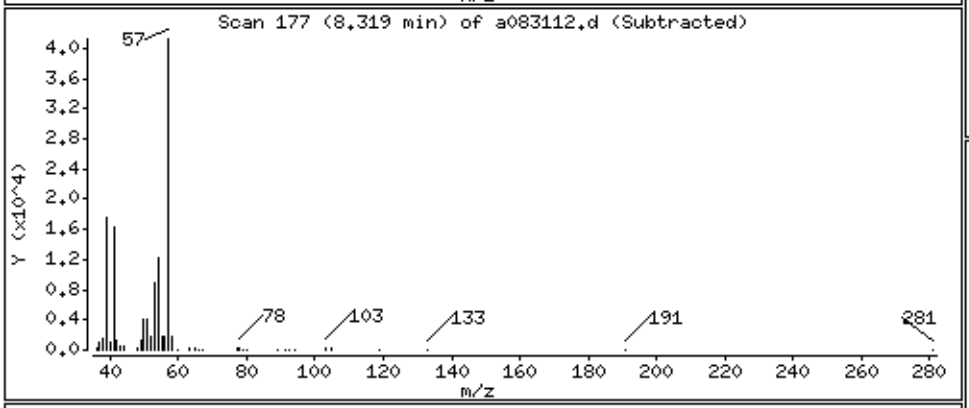
Column phase: RTx-624

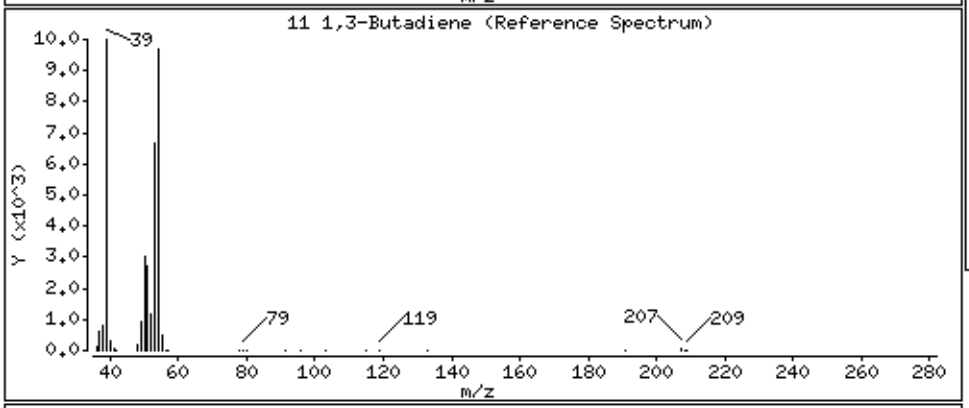
Column diameter: 0.32

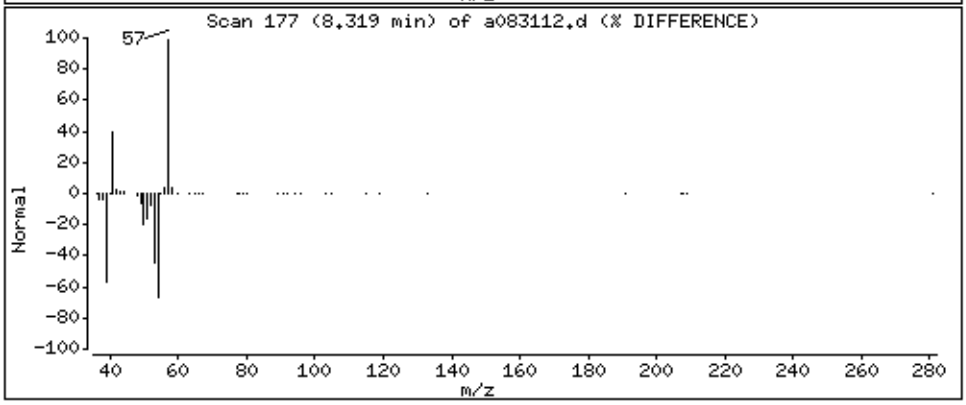
11 1,3-Butadiene

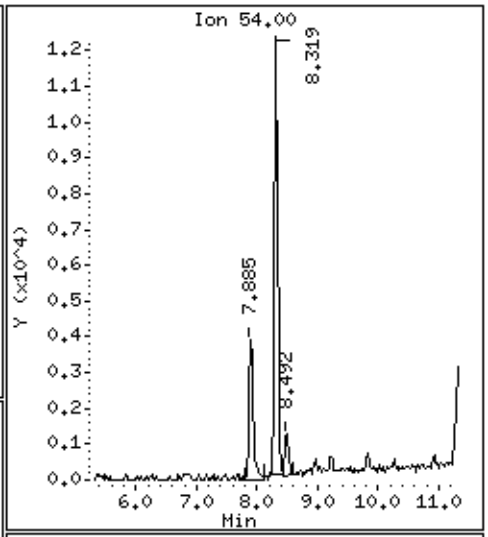
Concentration: 9.548 PPBV

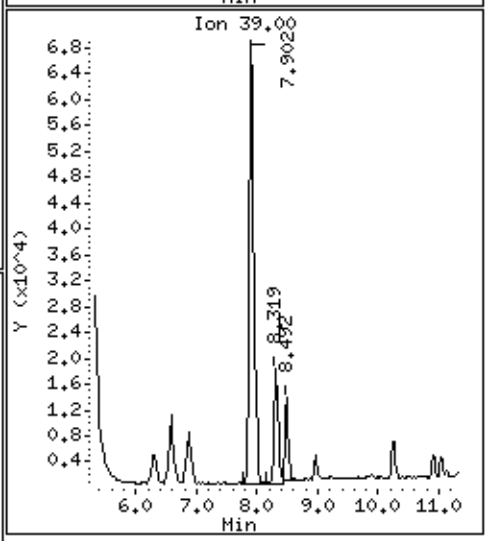


Data File: /chem/msda.i/31Aug2011.b/a083112.d

Date : 31-AUG-2011 16:25

Client ID:

Instrument: msda.i

Sample Info: 50mL #34006

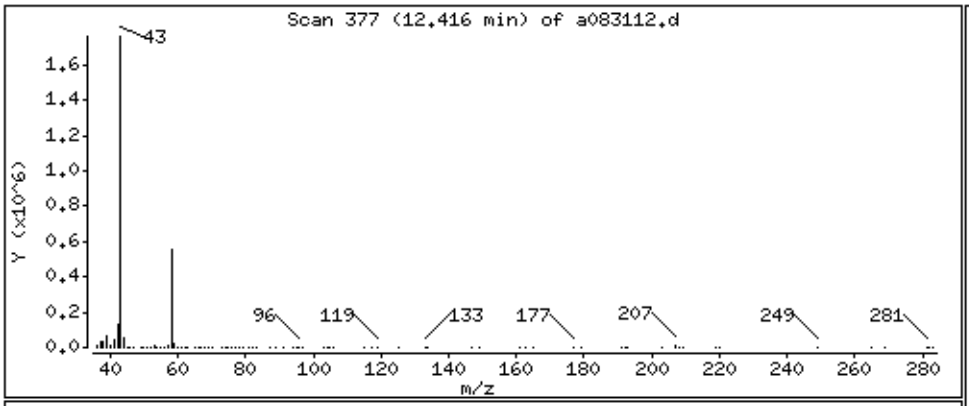
Operator: jc

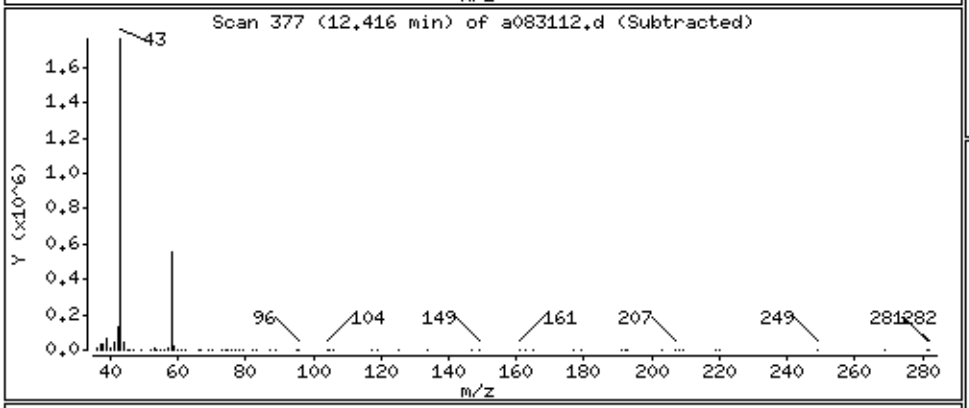
Column phase: RTx-624

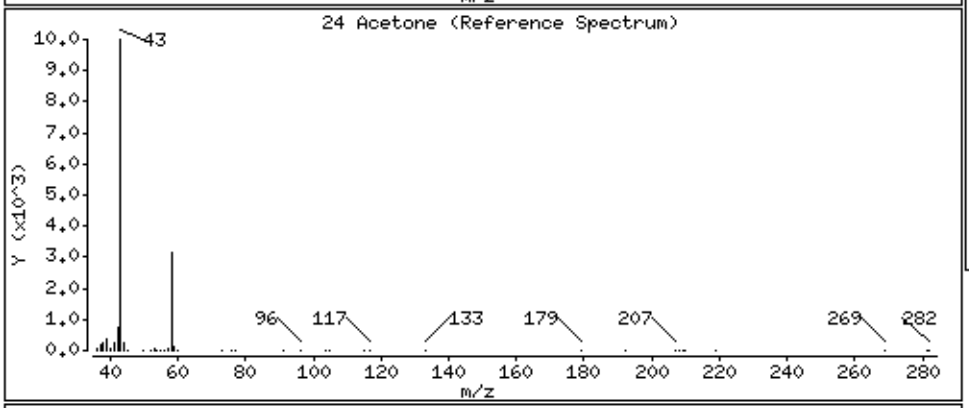
Column diameter: 0.32

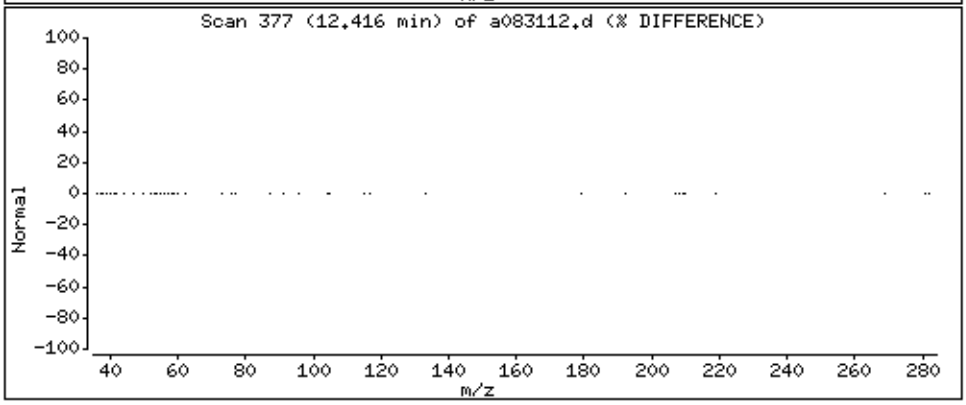
24 Acetone

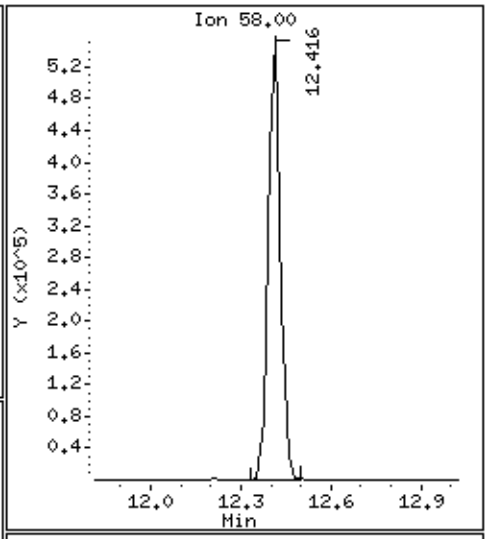
Concentration: 573.98 PPBV

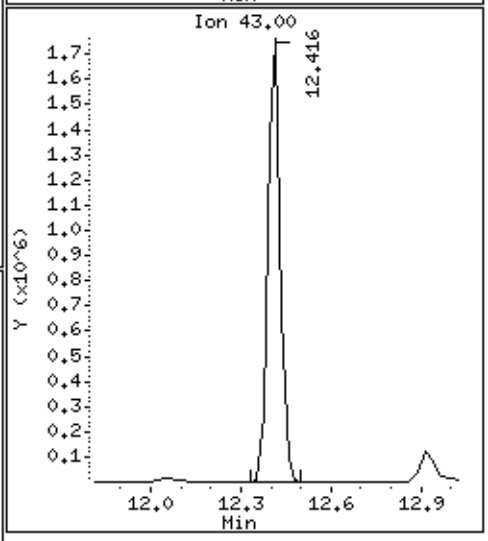


Data File: /chem/msda.i/31Aug2011.b/a083112.d

Date : 31-AUG-2011 16:25

Client ID:

Instrument: msda.i

Sample Info: 50mL #34006

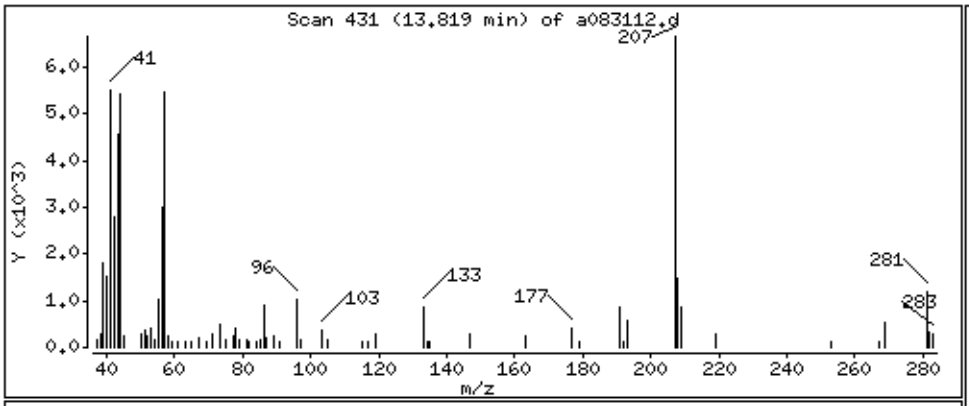
Operator: jc

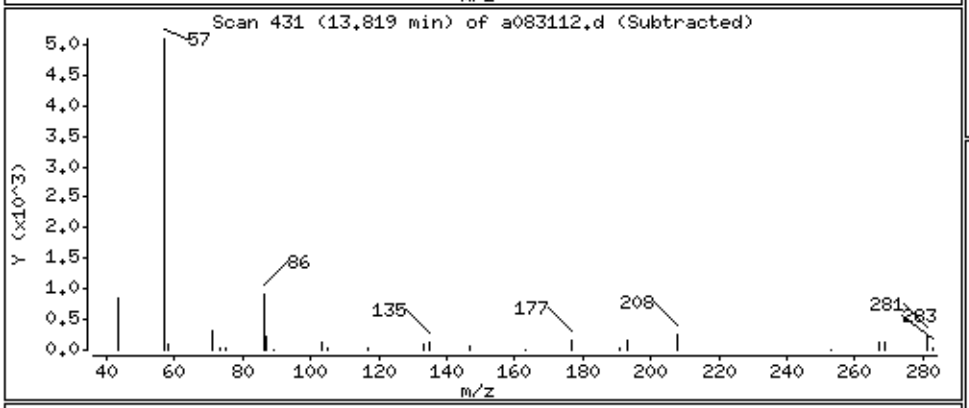
Column phase: RTx-624

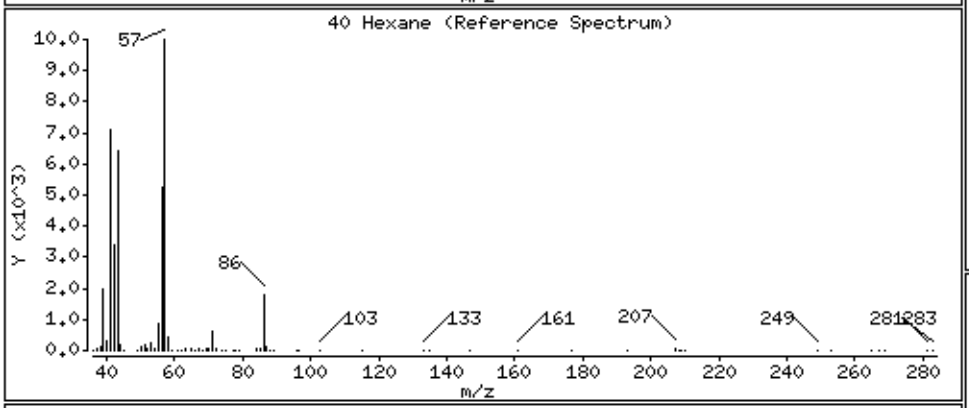
Column diameter: 0.32

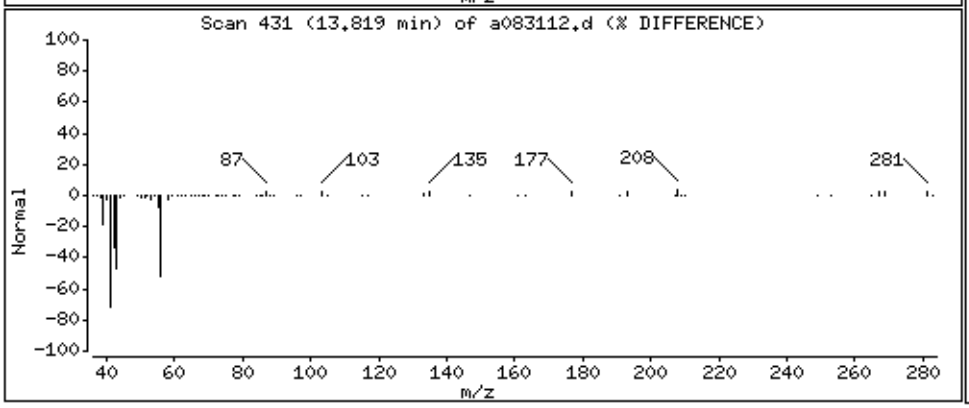
40 Hexane

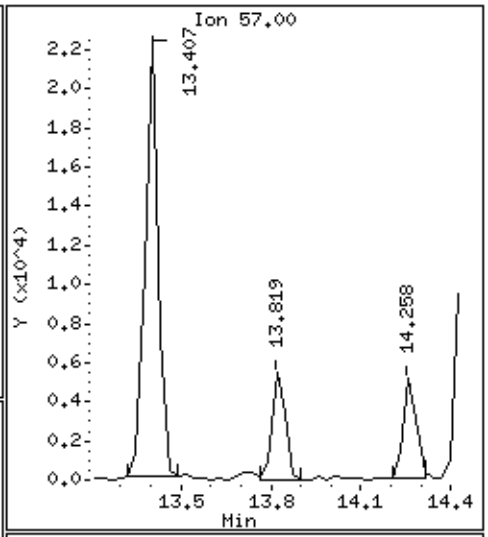
Concentration: 1.562 PPBV

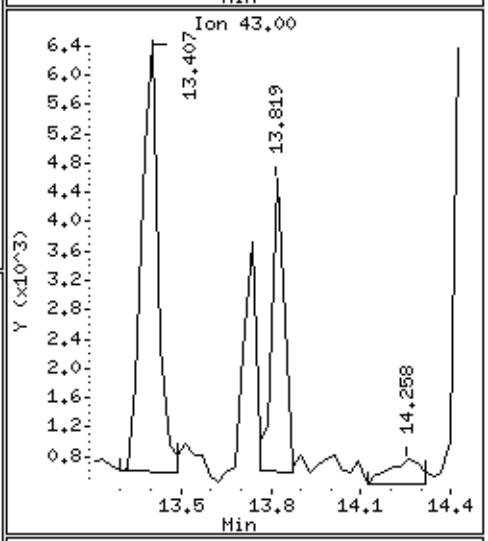


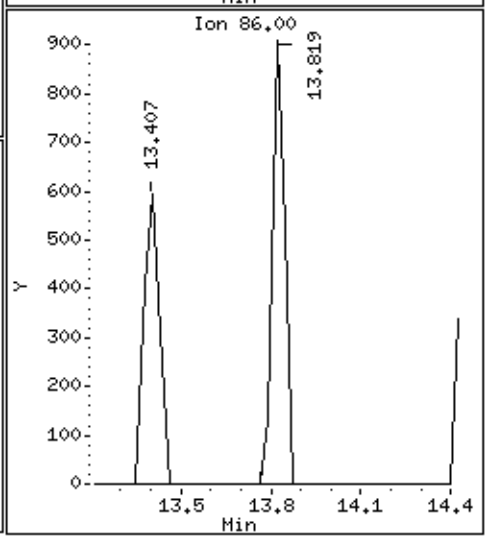



Data File: /chem/msda.i/31Aug2011.b/a083112.d

Date : 31-AUG-2011 16:25

Client ID:

Instrument: msda.i

Sample Info: 50mL #34006

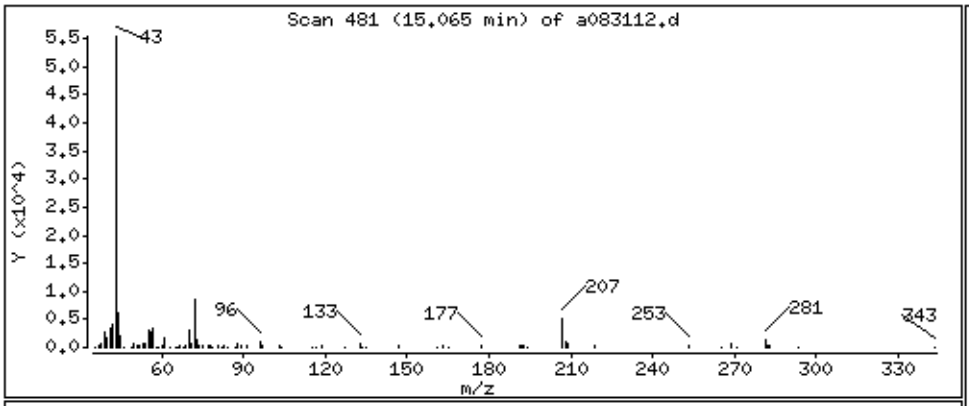
Operator: jc

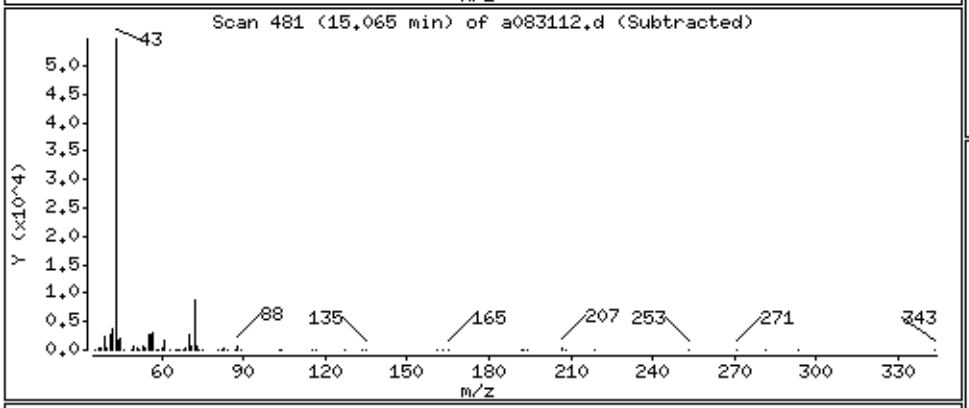
Column phase: RTx-624

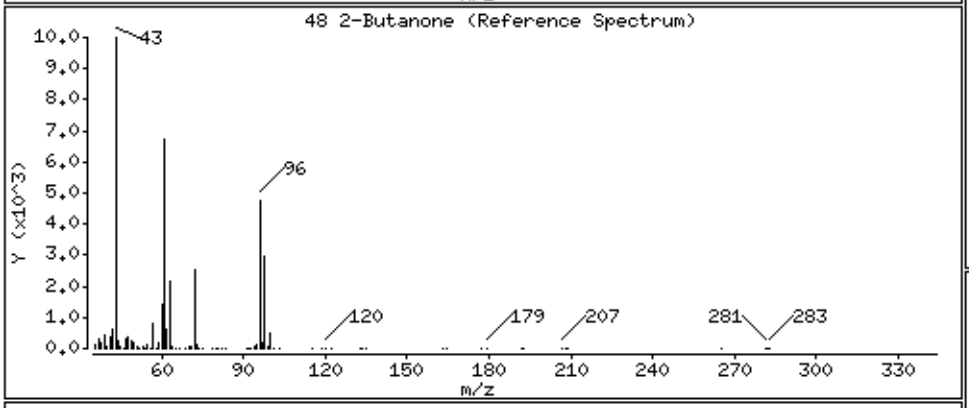
Column diameter: 0.32

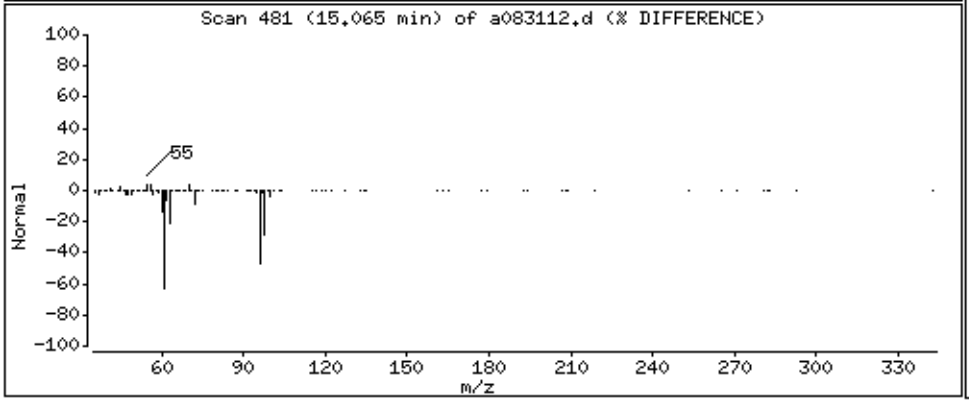
48 2-Butanone

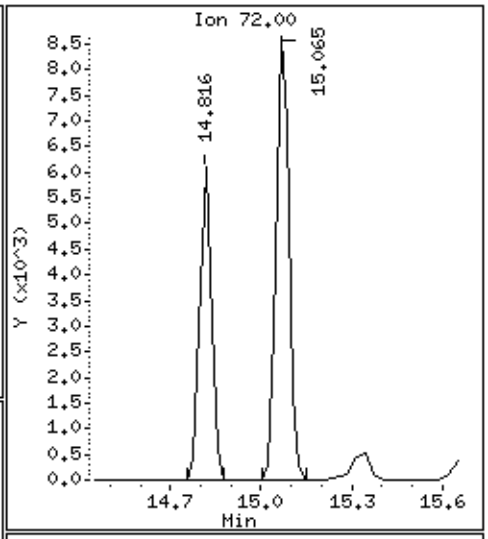
Concentration: 7.971 PPBV

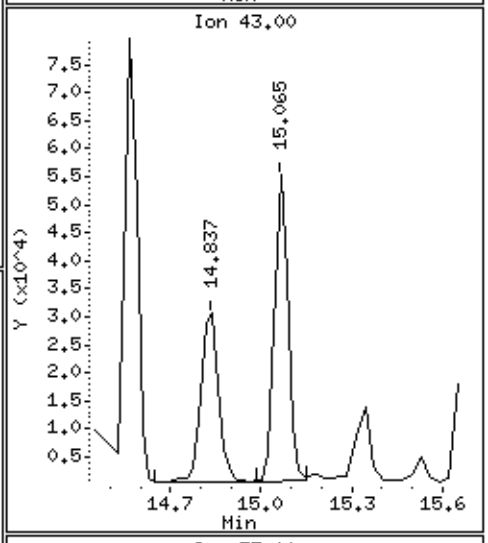


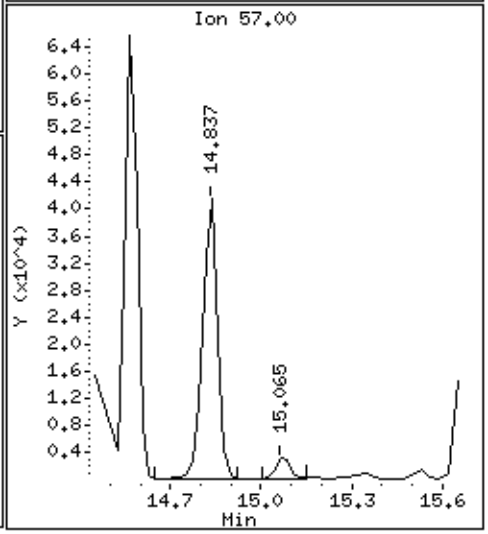



Data File: /chem/msda.i/31Aug2011.b/a083112.d

Date : 31-AUG-2011 16:25

Client ID:

Instrument: msda.i

Sample Info: 50mL #34006

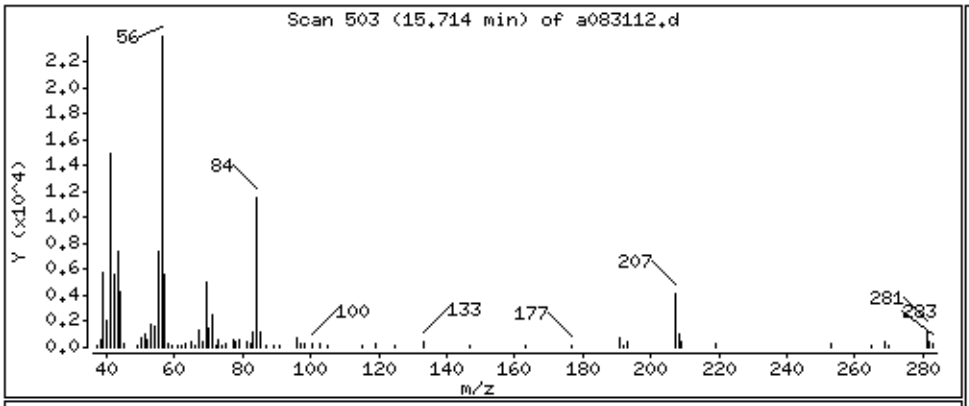
Operator: jc

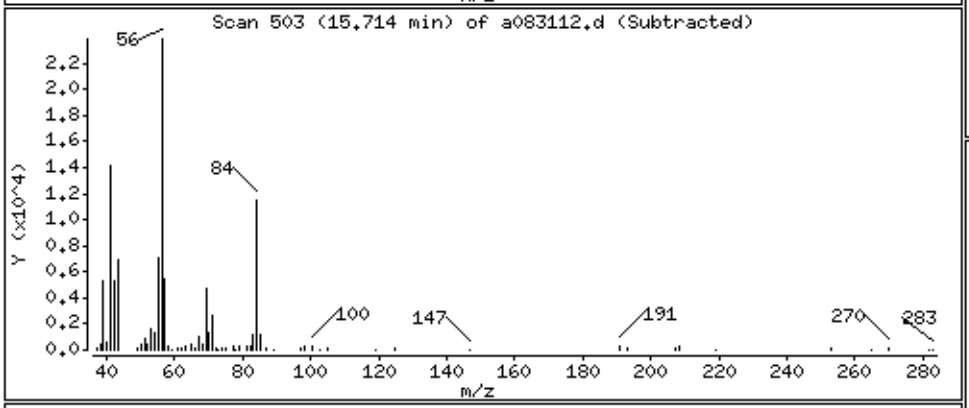
Column phase: RTx-624

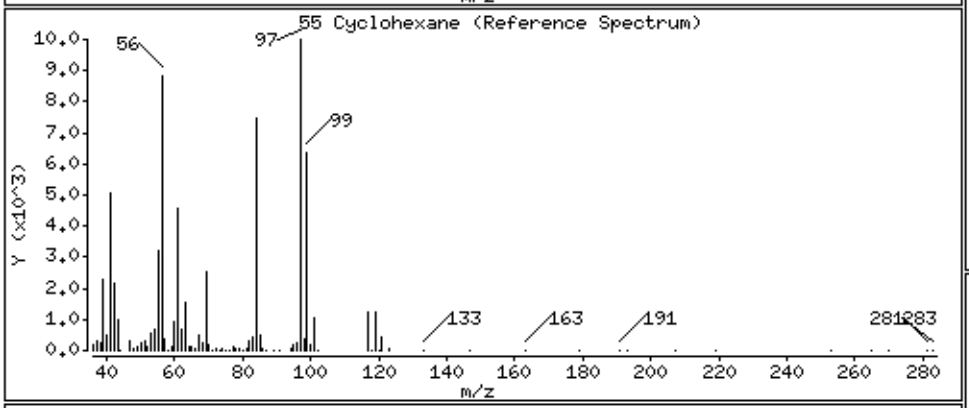
Column diameter: 0.32

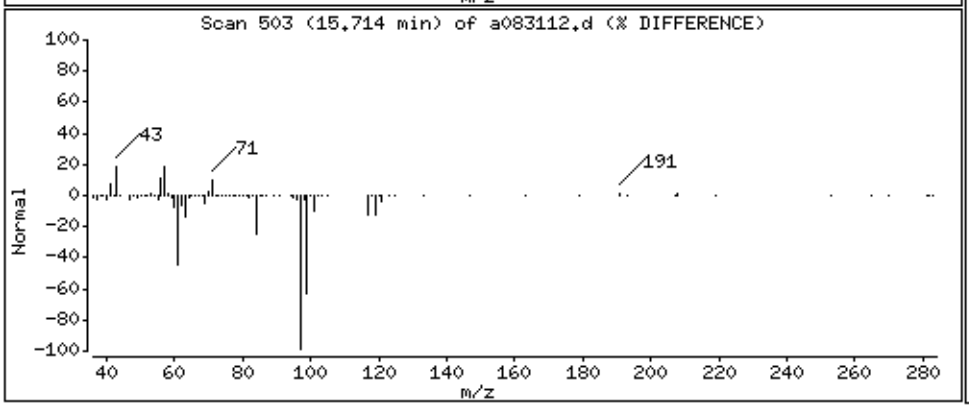
55 Cyclohexane

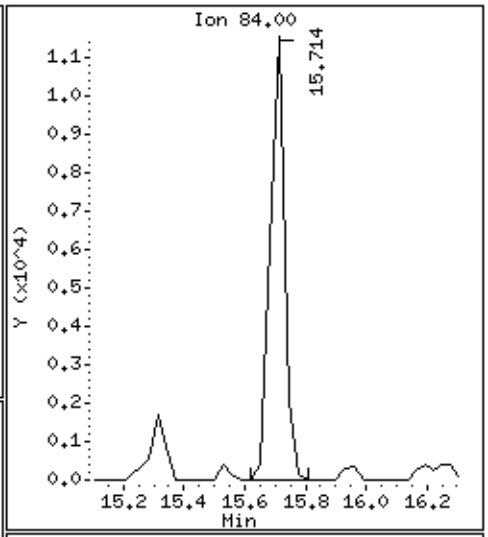
Concentration: 4.144 PPBV

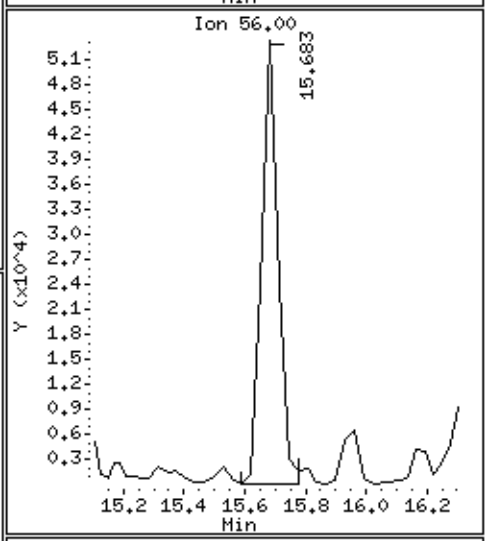


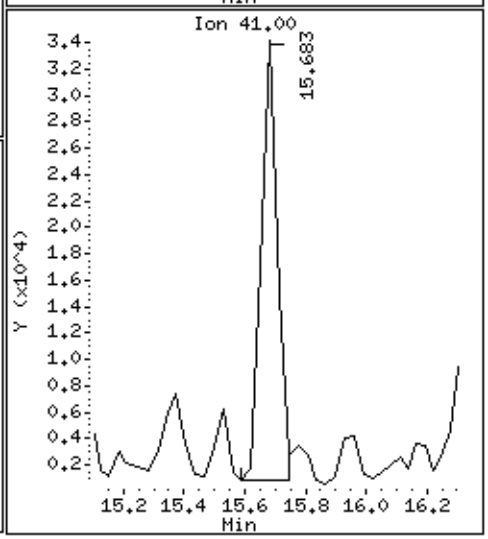



Data File: /chem/msda.i/31Aug2011.b/a083112.d

Date : 31-AUG-2011 16:25

Client ID:

Instrument: msda.i

Sample Info: 50mL #34006

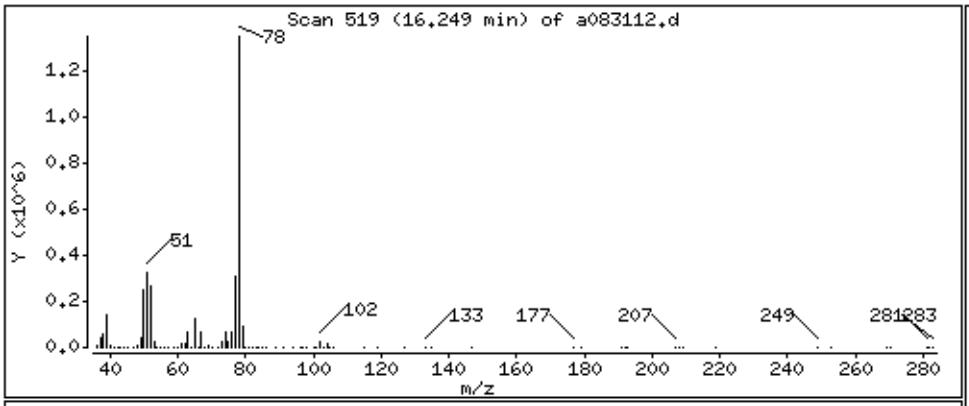
Operator: jc

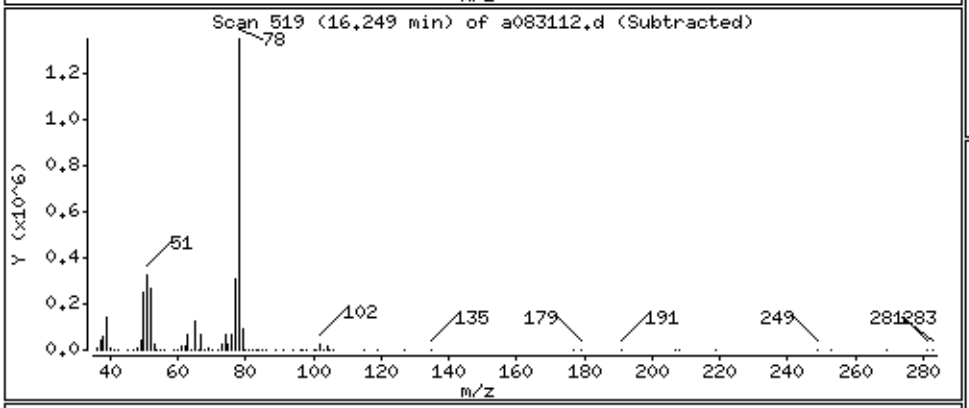
Column phase: RTx-624

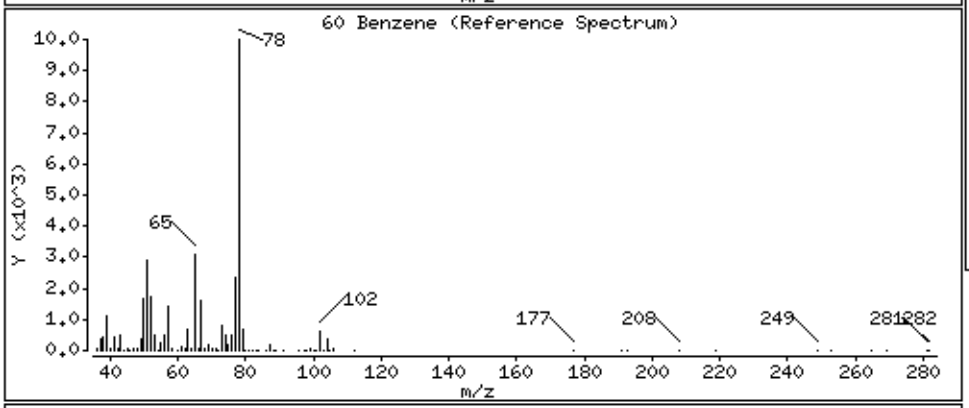
Column diameter: 0.32

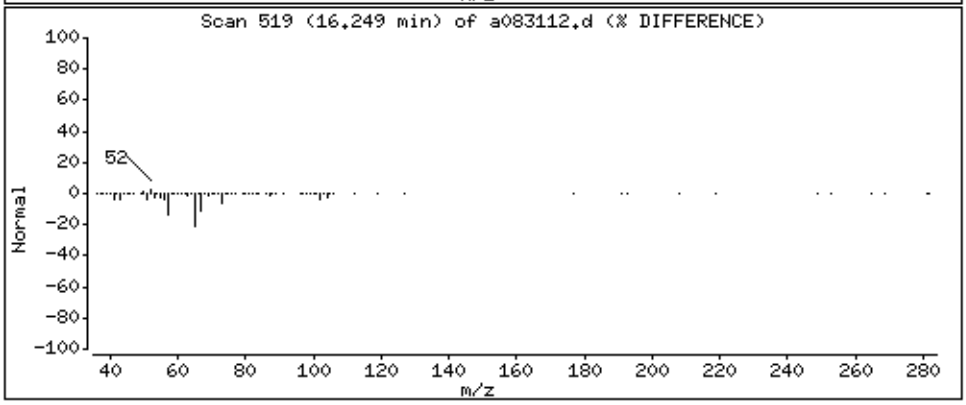
60 Benzene

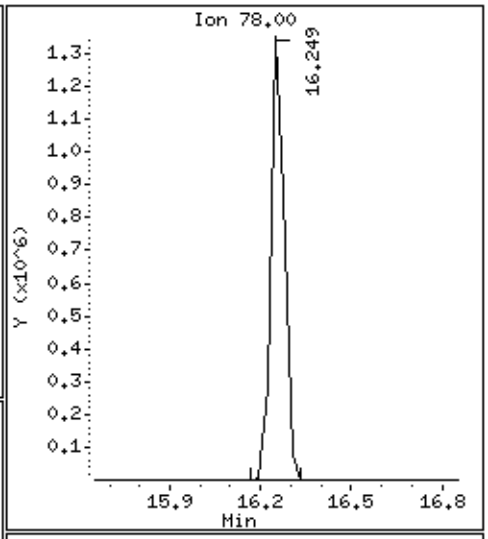
Concentration: 228.95 PPBV

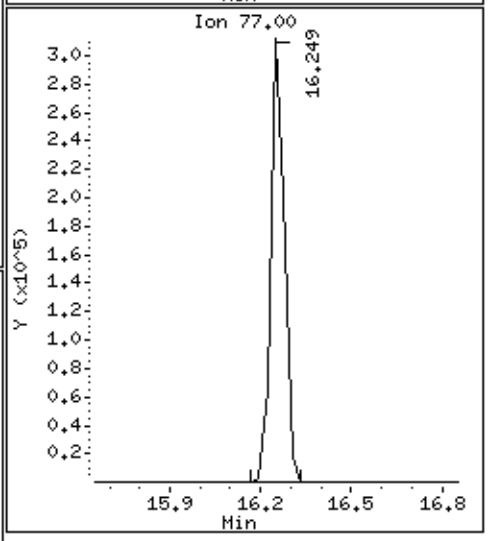


Data File: /chem/msda.i/31Aug2011.b/a083112.d

Date : 31-AUG-2011 16:25

Client ID:

Instrument: msda.i

Sample Info: 50mL #34006

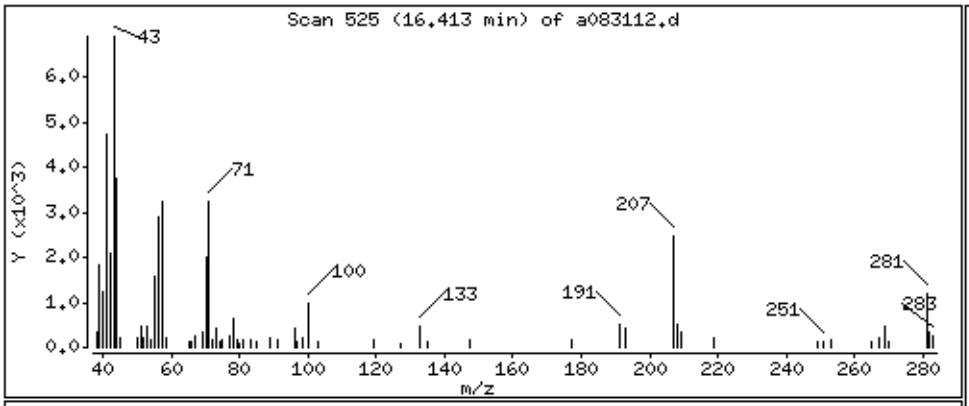
Operator: jc

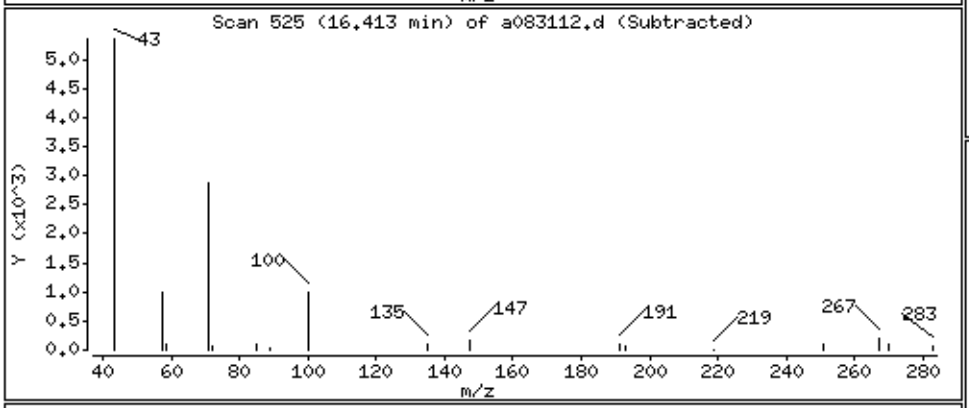
Column phase: RTx-624

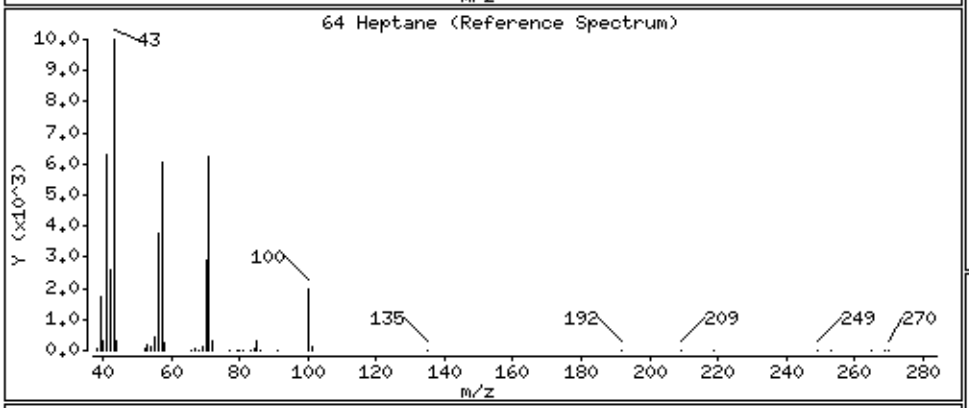
Column diameter: 0.32

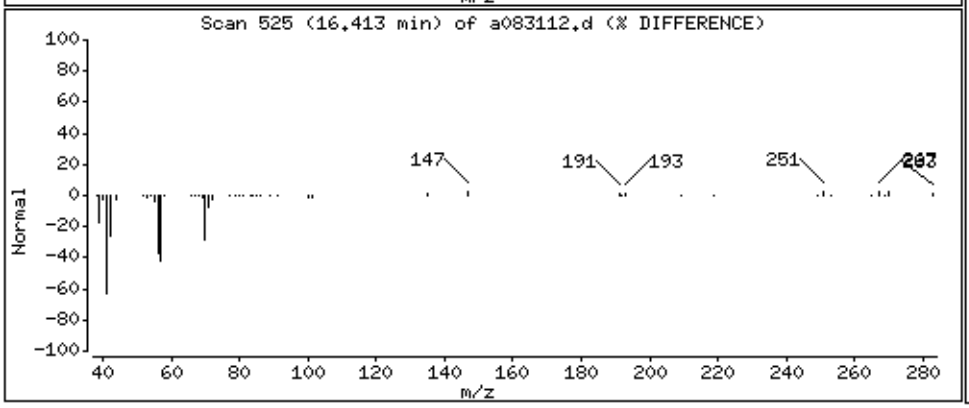
64 Heptane

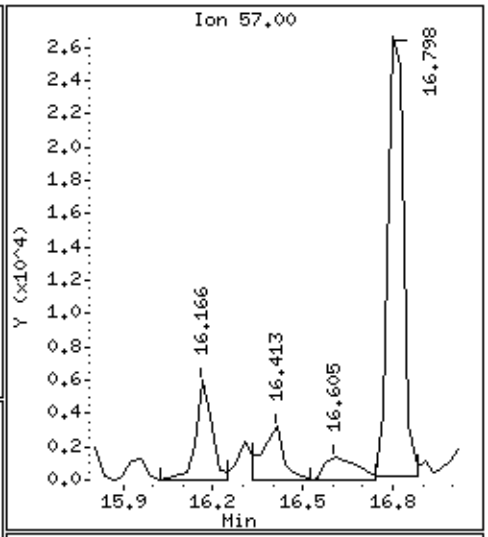
Concentration: 2.670 PPBV

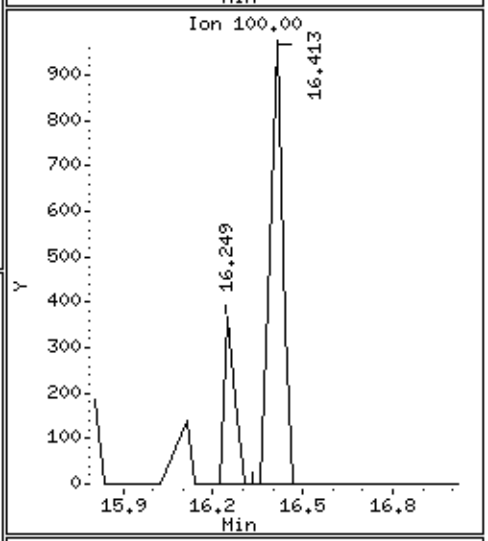


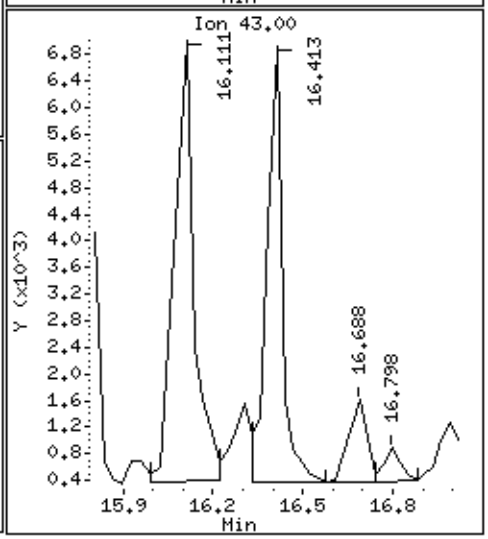



Data File: /chem/msda.i/31Aug2011.b/a083112.d

Date : 31-AUG-2011 16:25

Client ID:

Instrument: msda.i

Sample Info: 50mL #34006

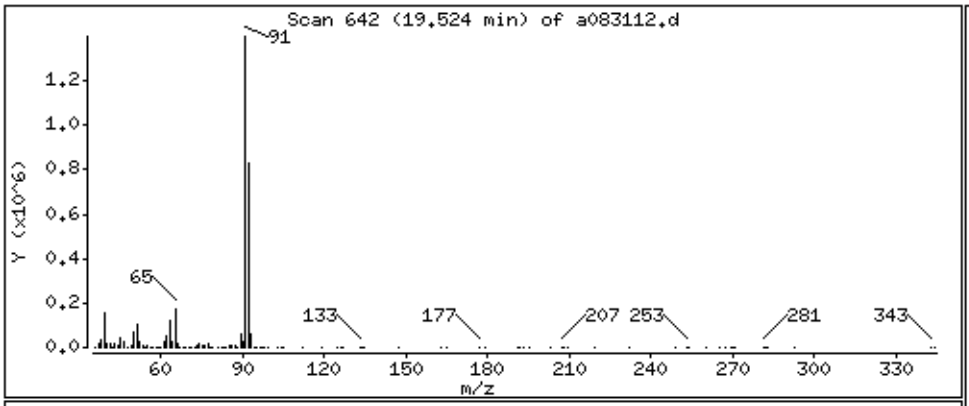
Operator: jc

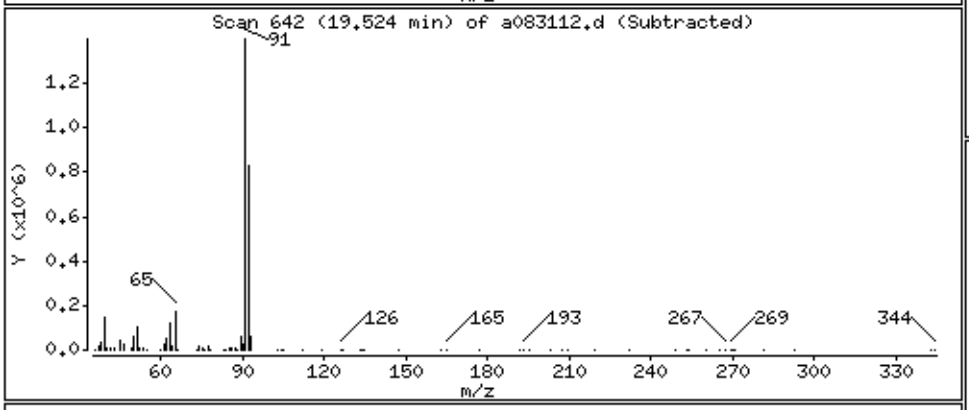
Column phase: RTx-624

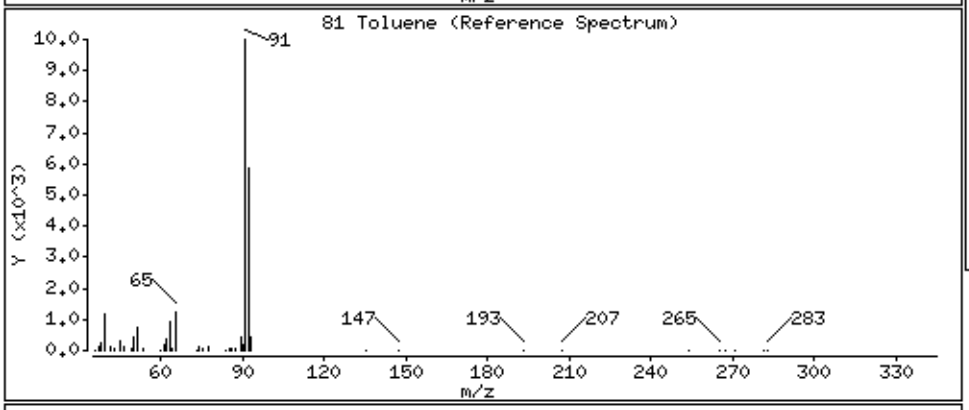
Column diameter: 0.32

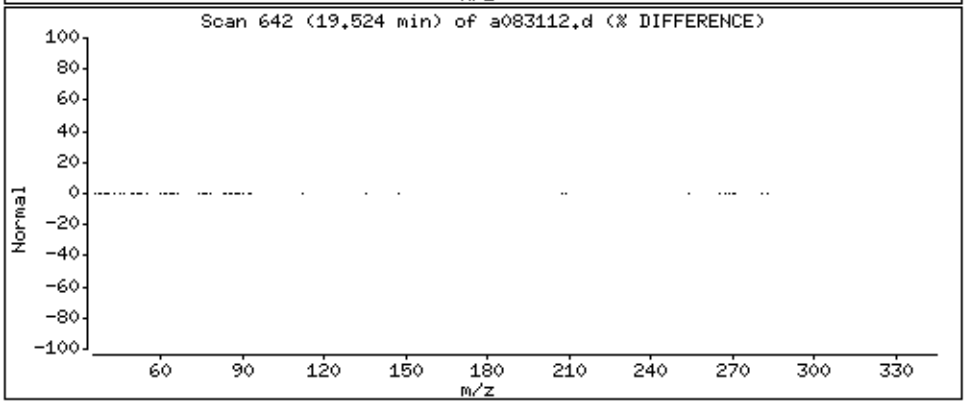
81 Toluene

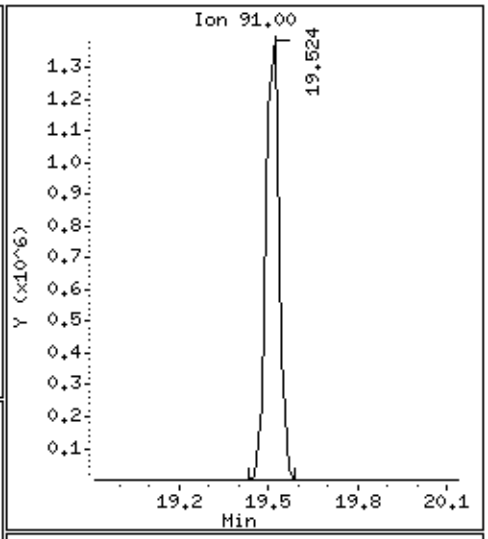
Concentration: 204.03 PPBV

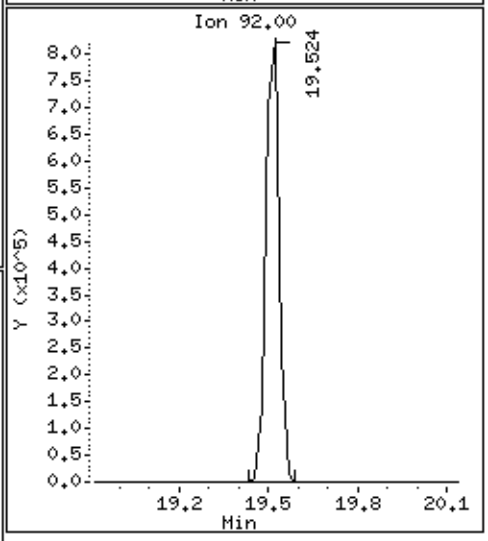


Data File: /chem/msda.i/31Aug2011.b/a083112.d

Date : 31-AUG-2011 16:25

Client ID:

Instrument: msda.i

Sample Info: 50mL #34006

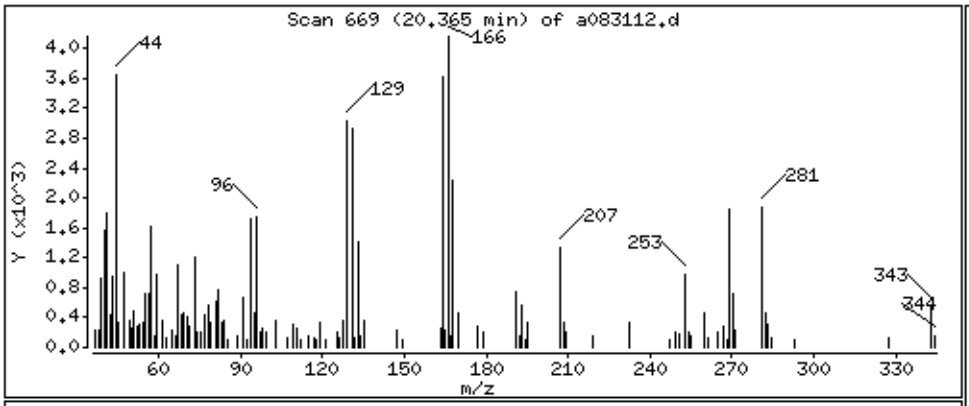
Operator: jc

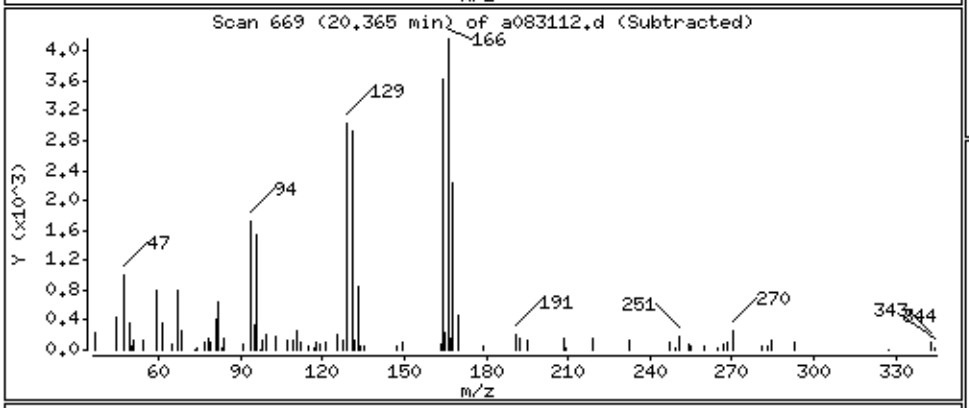
Column phase: RTx-624

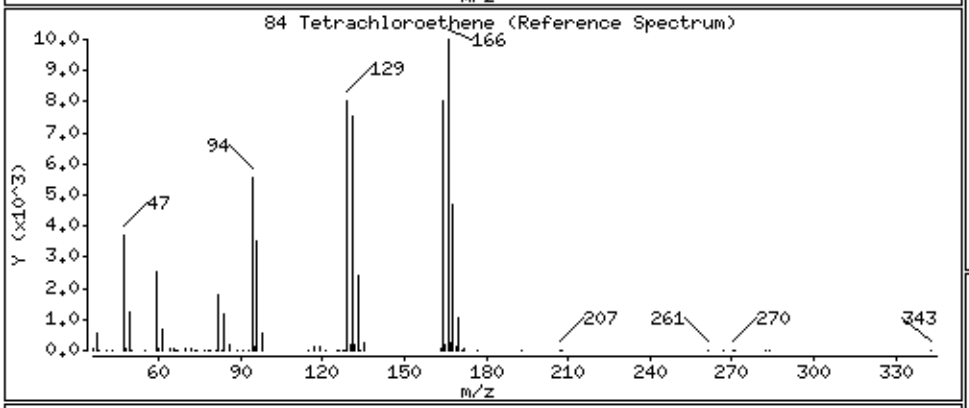
Column diameter: 0.32

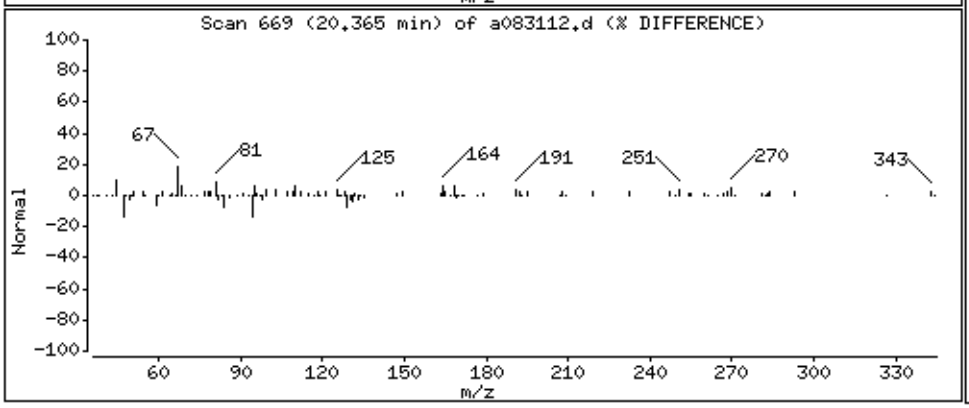
84 Tetrachloroethene

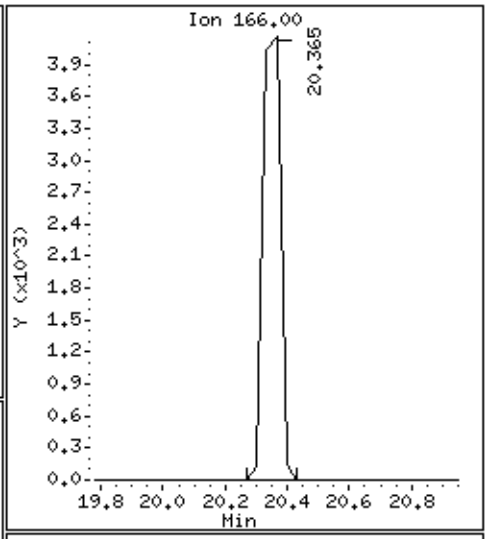
Concentration: 1.758 PPBV

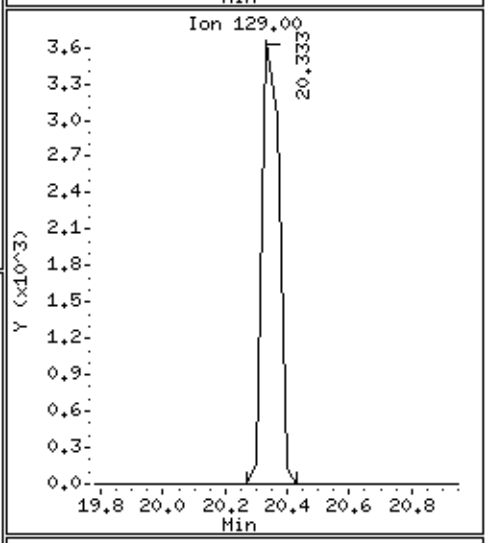


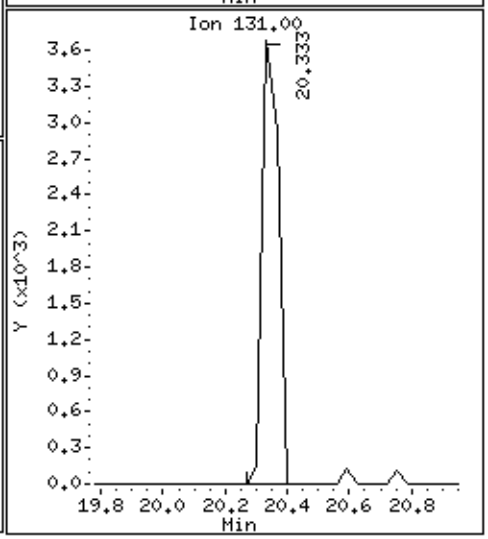



Data File: /chem/msda.i/31Aug2011.b/a083112.d

Date : 31-AUG-2011 16:25

Client ID:

Instrument: msda.i

Sample Info: 50mL #34006

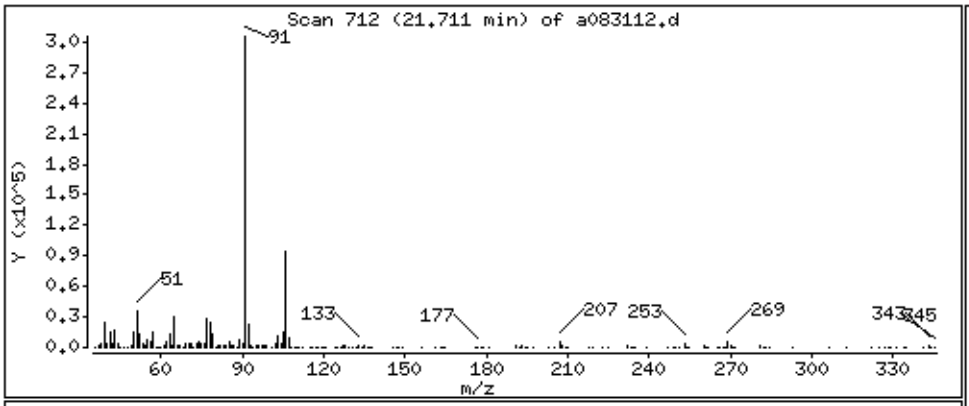
Operator: jc

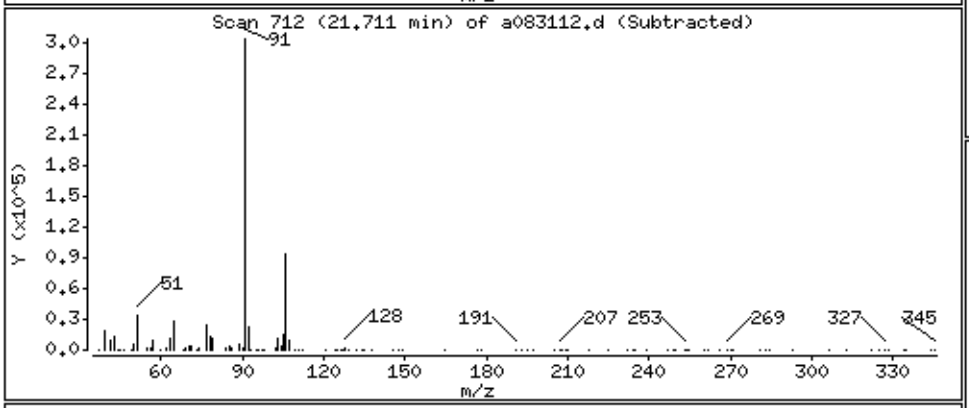
Column phase: RTx-624

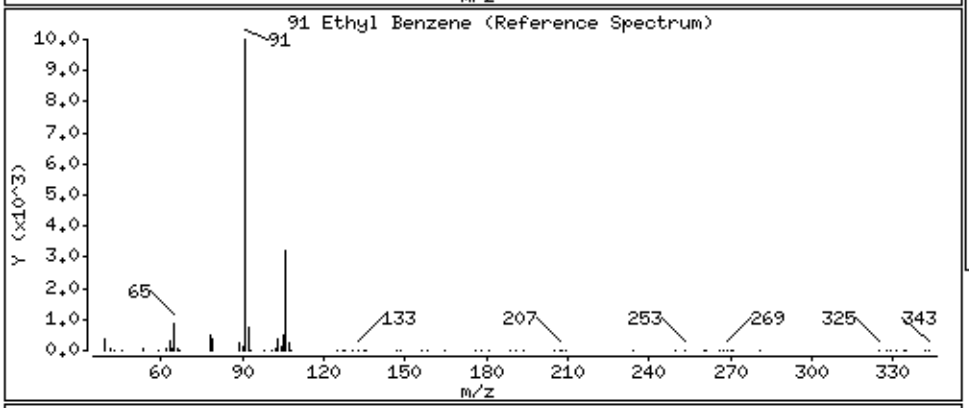
Column diameter: 0.32

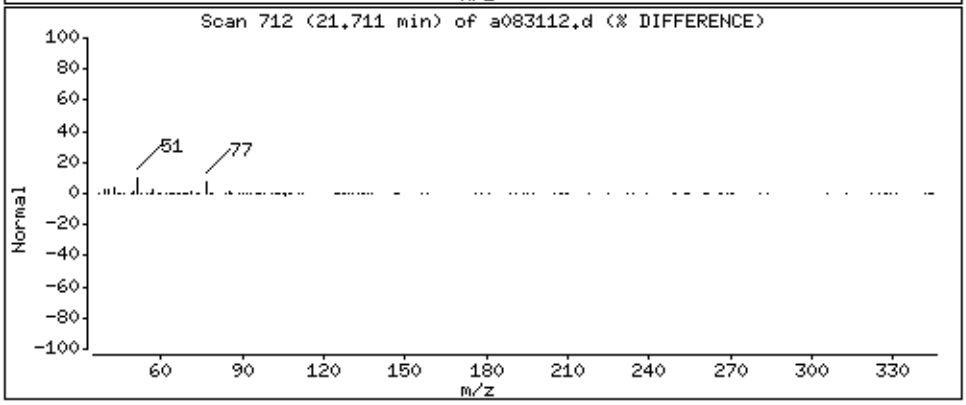
91 Ethyl Benzene

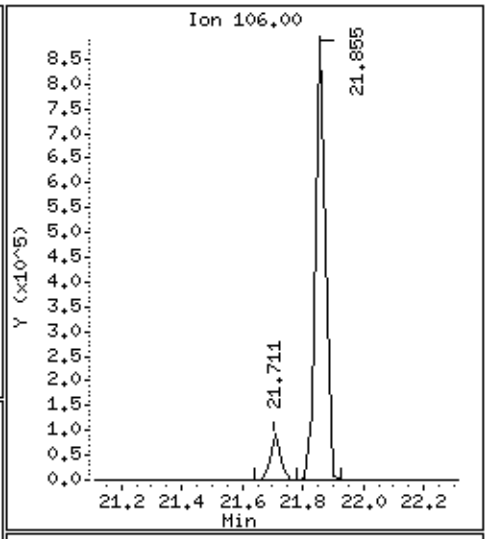
Concentration: 23.678 PPBV

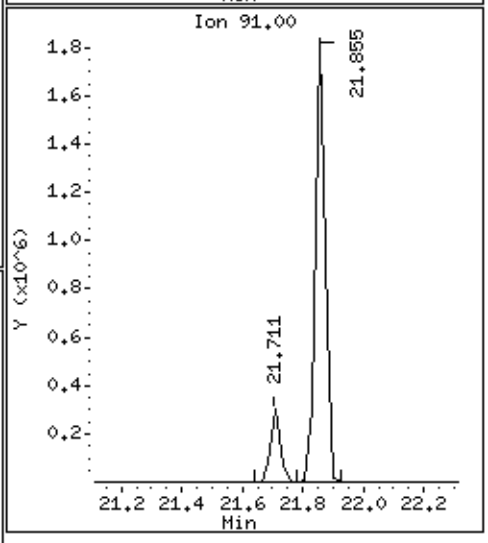


Data File: /chem/msda.i/31Aug2011.b/a083112.d

Date : 31-AUG-2011 16:25

Client ID:

Instrument: msda.i

Sample Info: 50mL #34006

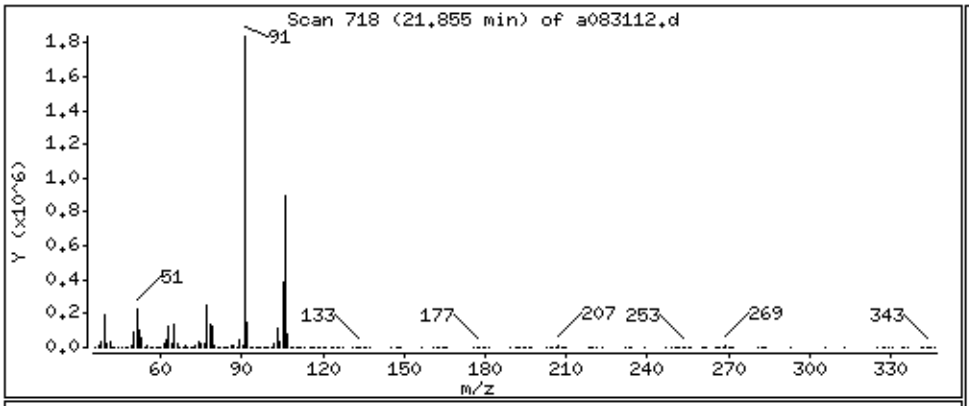
Operator: jc

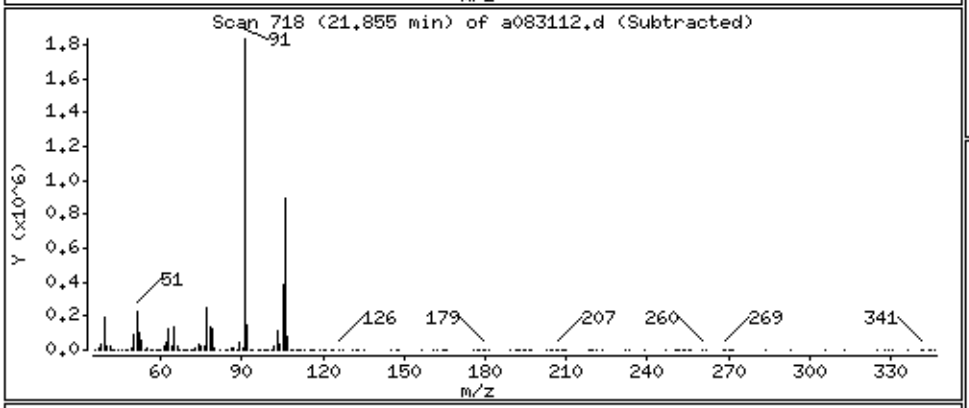
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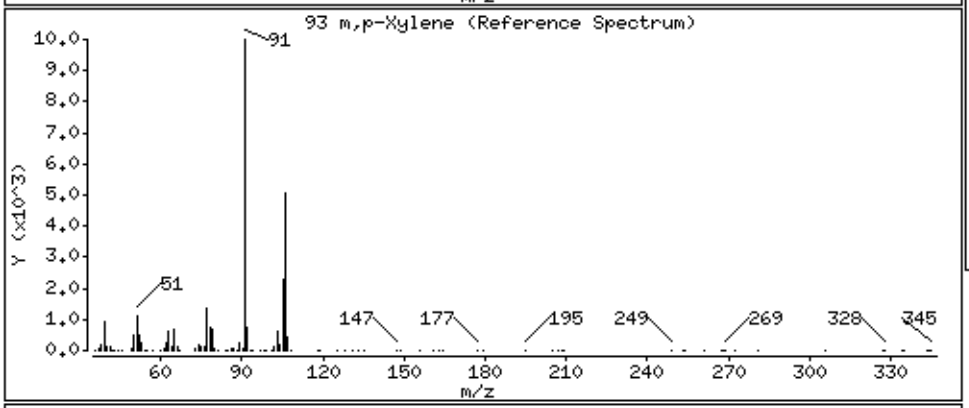
Column diameter: 0.32

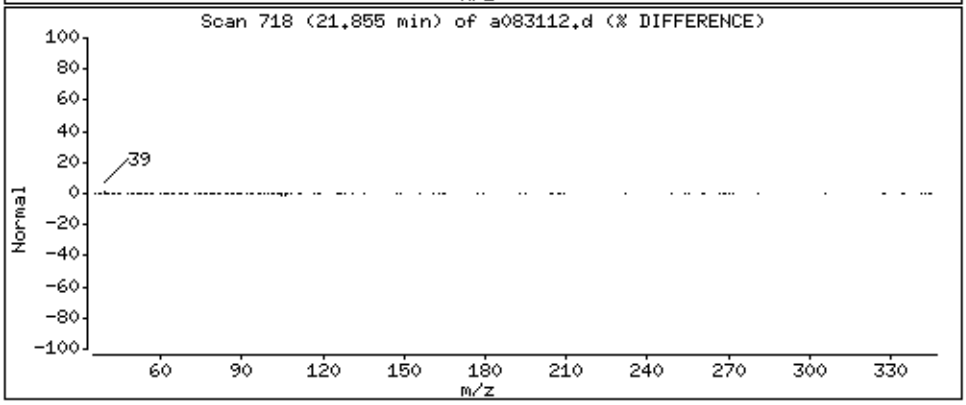
93 m,p-Xylene

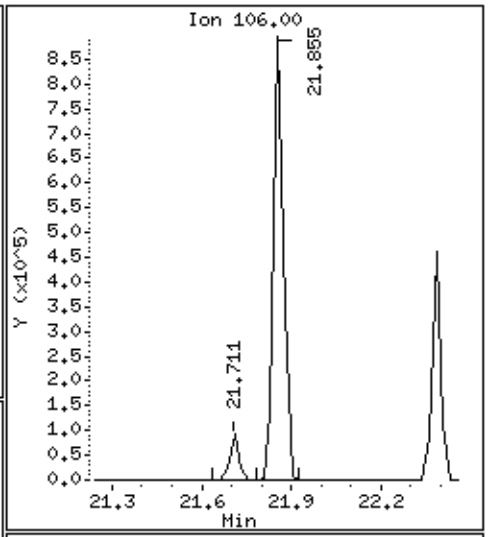
Concentration: 215.68 PPBV

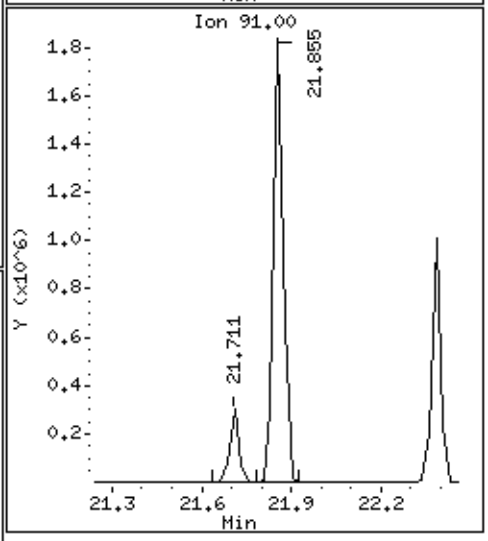


Data File: /chem/msda.i/31Aug2011.b/a083112.d

Date : 31-AUG-2011 16:25

Client ID:

Instrument: msda.i

Sample Info: 50mL #34006

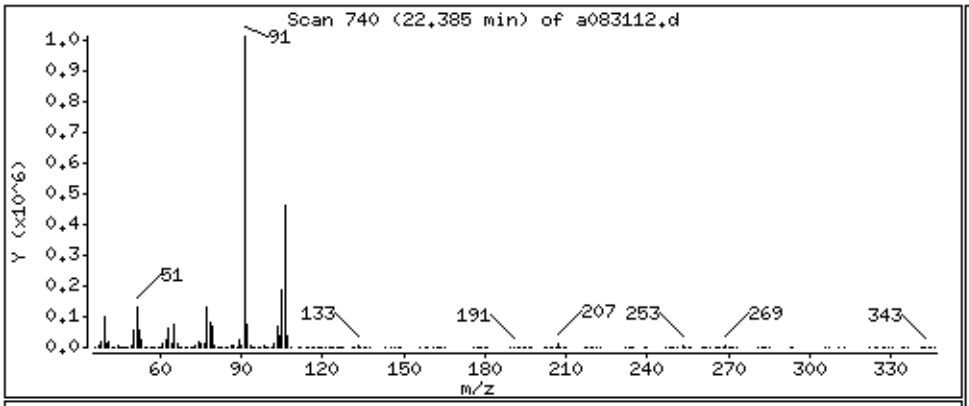
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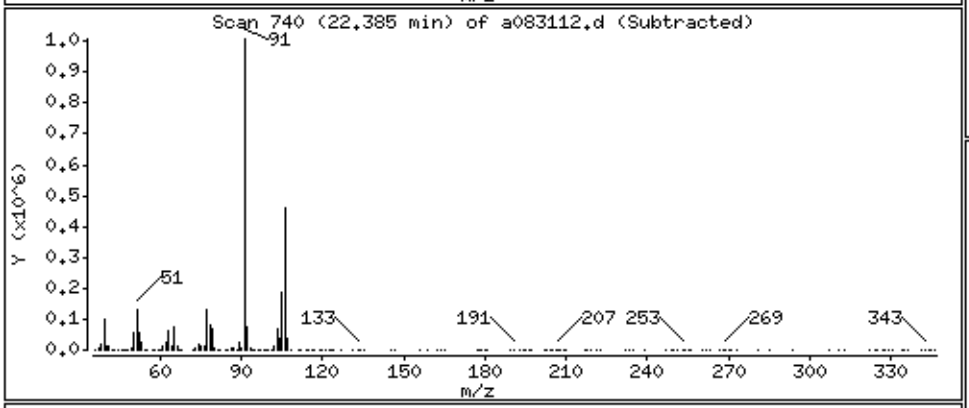
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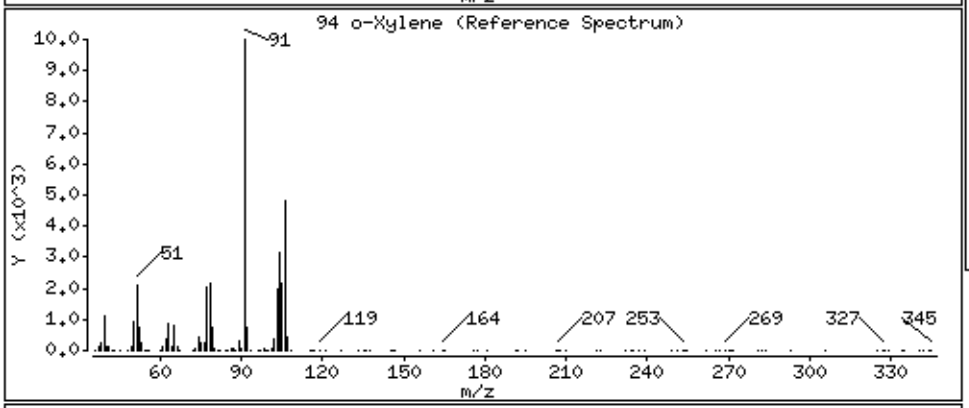
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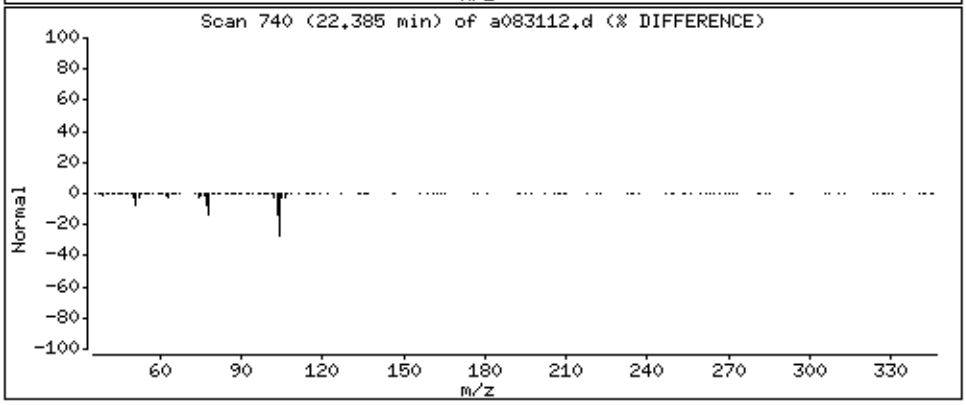
94 o-Xylene

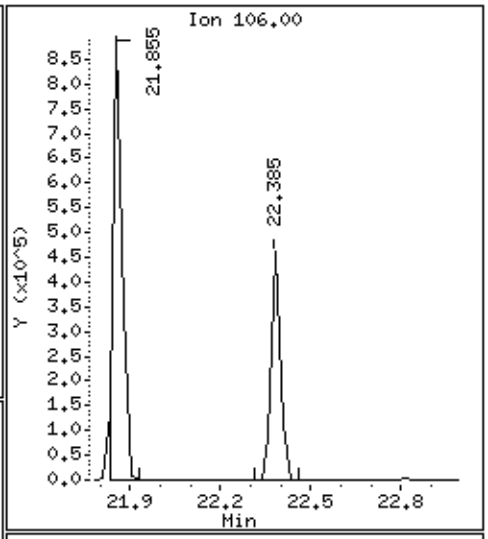
Concentration: 107.39 PPBV

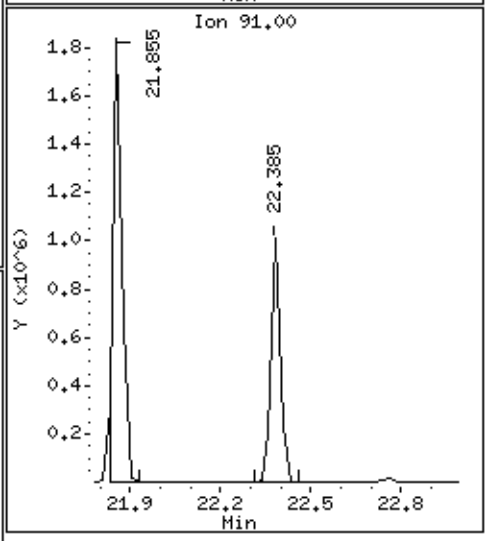


Data File: /chem/msda.i/31Aug2011.b/a083112.d

Date : 31-AUG-2011 16:25

Client ID:

Instrument: msda.i

Sample Info: 50mL #34006

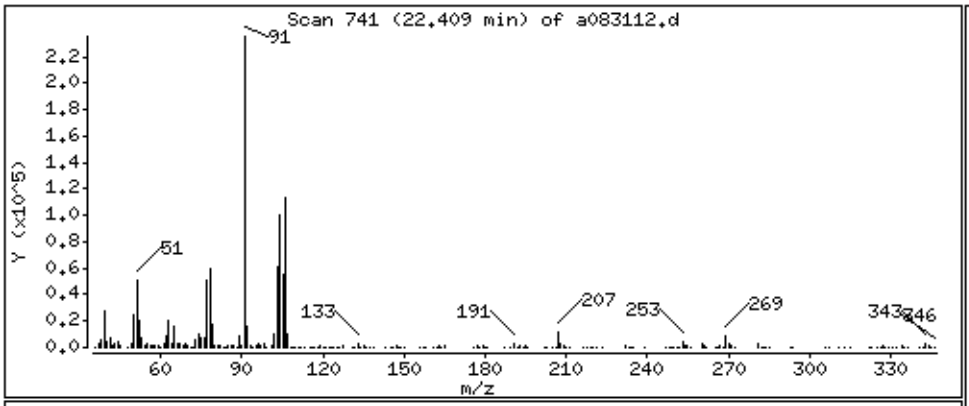
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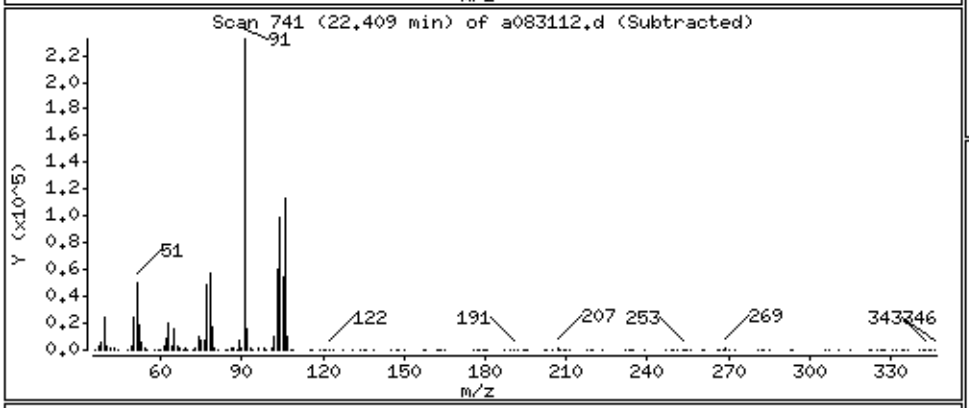
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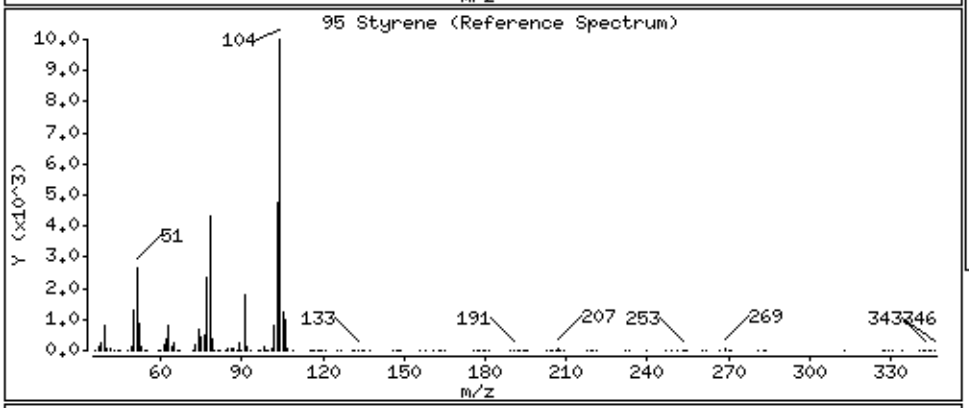
Column diameter: 0.32

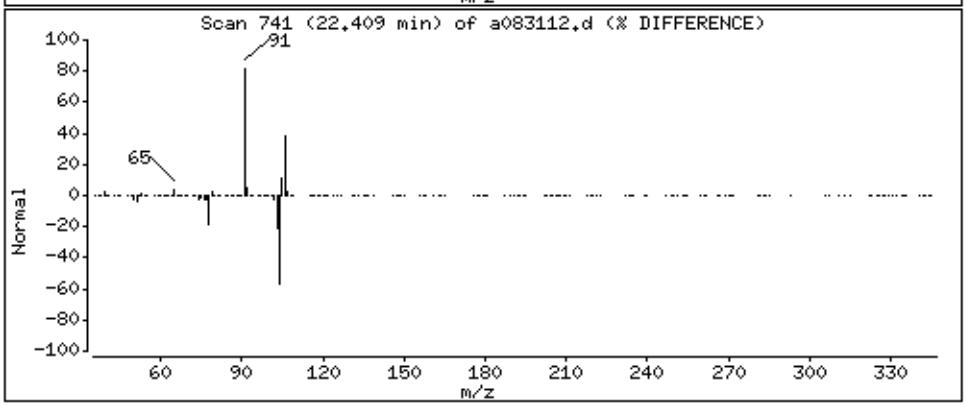
95 Styrene

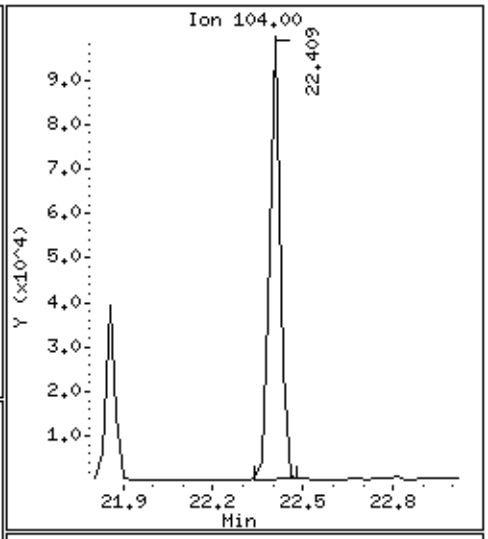
Concentration: 16.588 PPBV

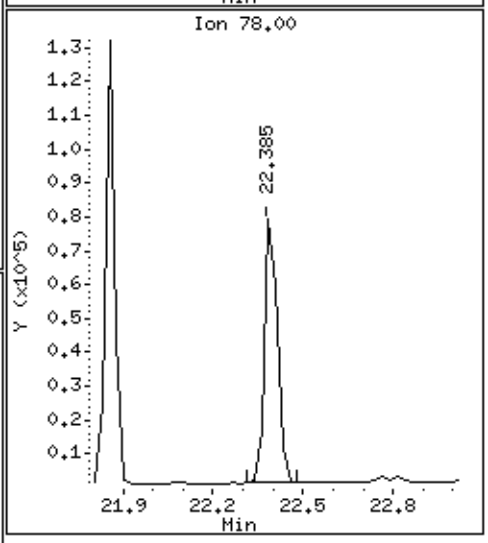


Data File: /chem/msda.i/31Aug2011.b/a083112.d

Date : 31-AUG-2011 16:25

Client ID:

Instrument: msda.i

Sample Info: 50mL #34006

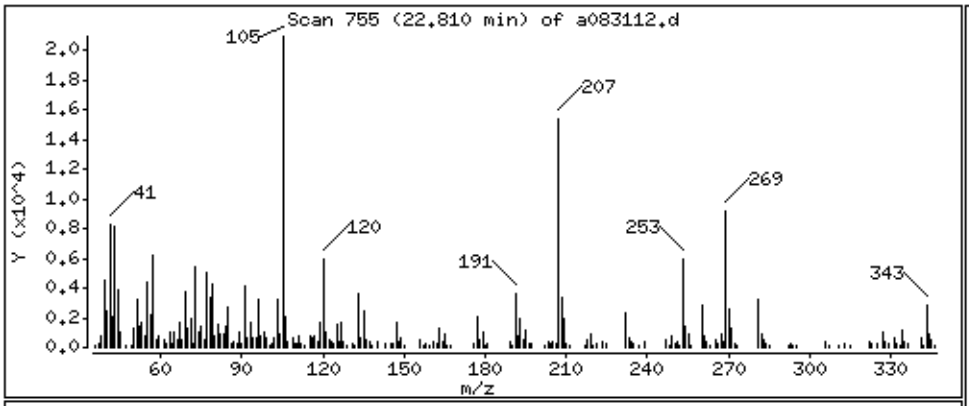
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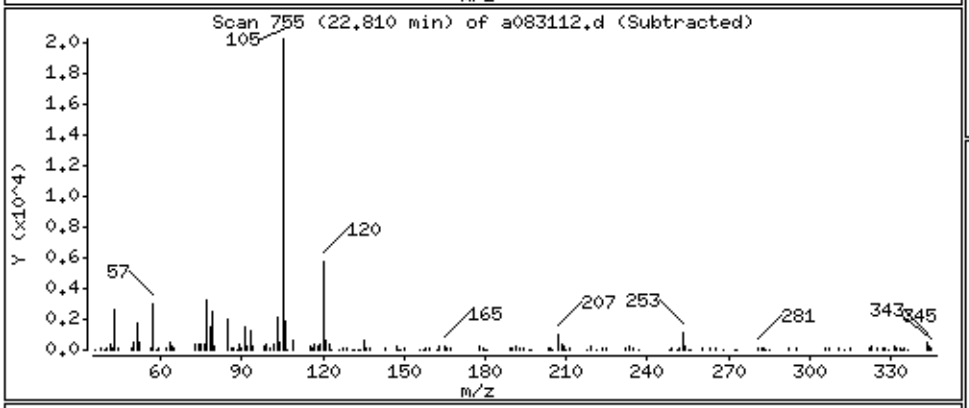
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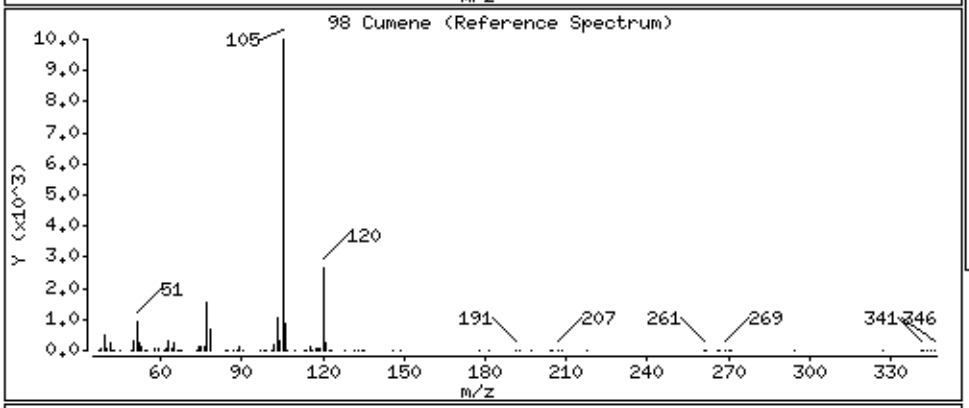
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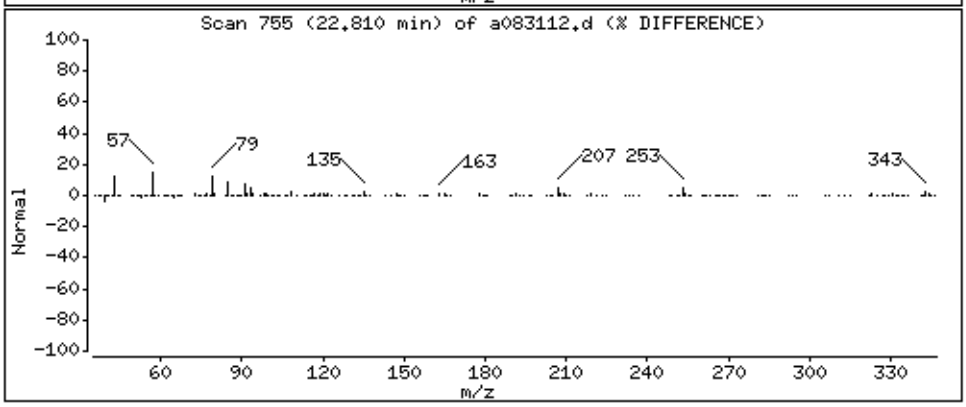
98 Cumene

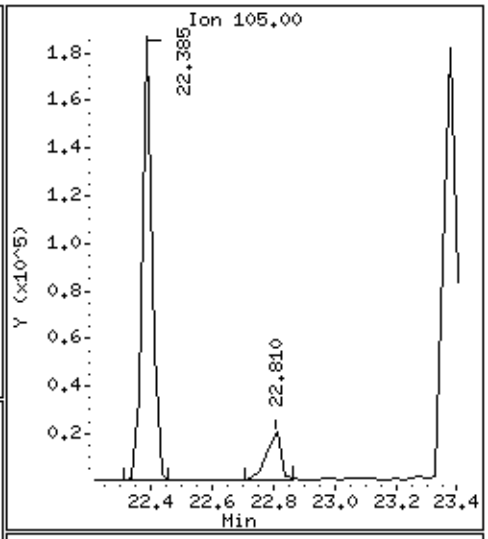
Concentration: 2.259 PPBV

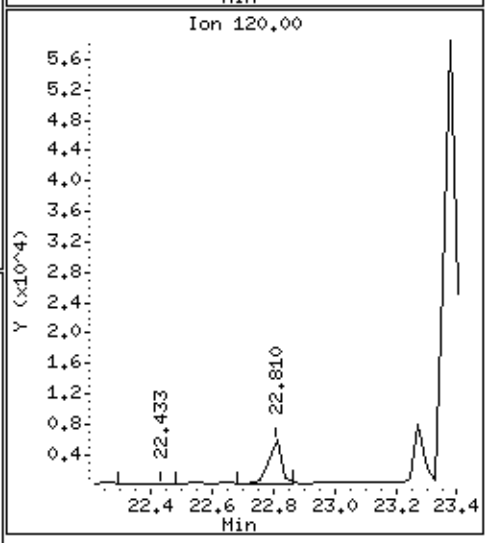


Data File: /chem/msda.i/31Aug2011.b/a083112.d

Date : 31-AUG-2011 16:25

Client ID:

Instrument: msda.i

Sample Info: 50mL #34006

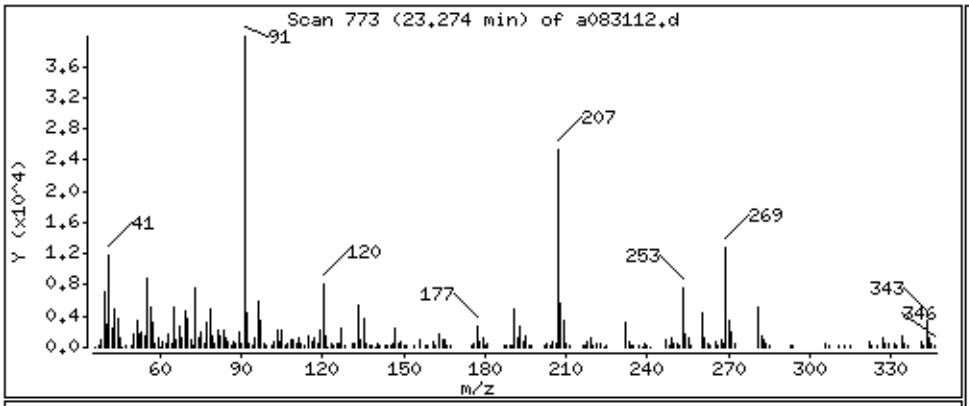
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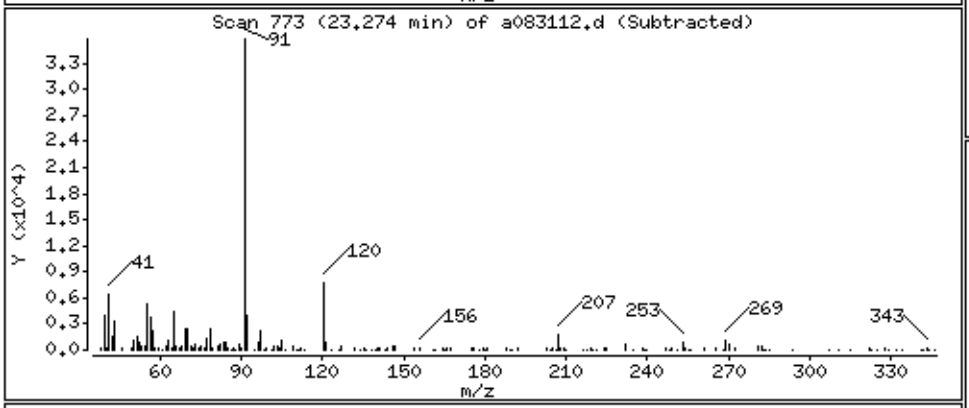
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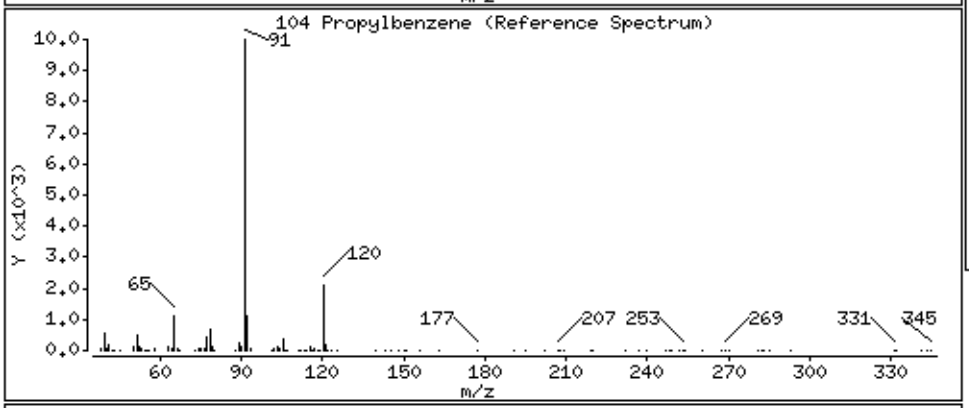
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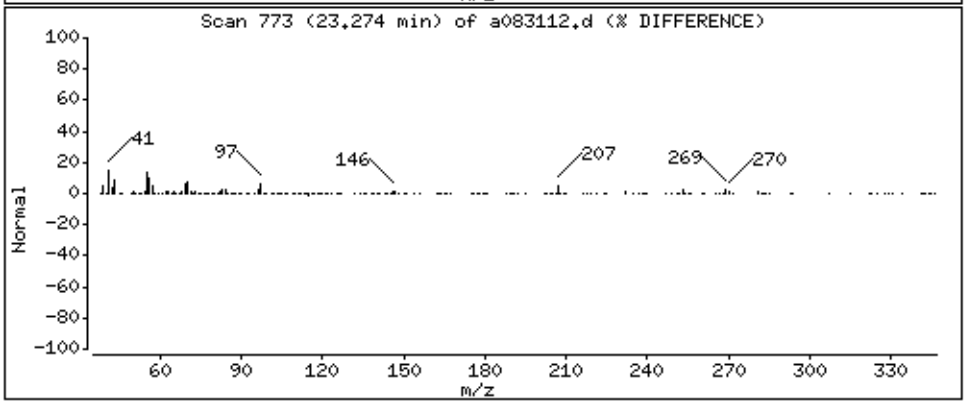
104 Propylbenzene

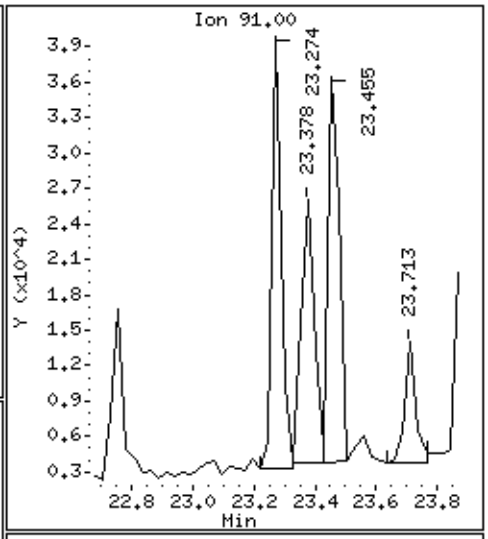
Concentration: 2.608 PPBV

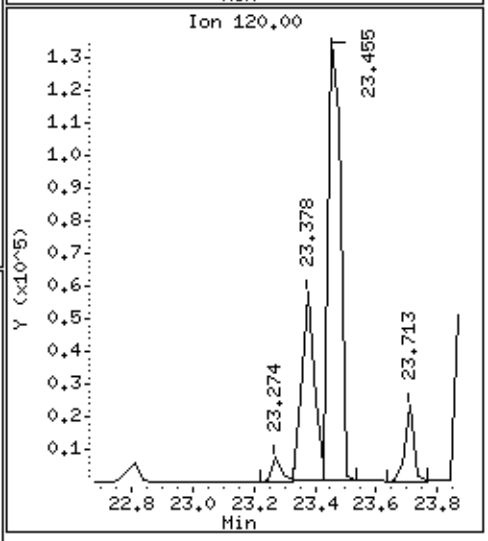


Data File: /chem/msda.i/31Aug2011.b/a083112.d

Date : 31-AUG-2011 16:25

Client ID:

Instrument: msda.i

Sample Info: 50mL #34006

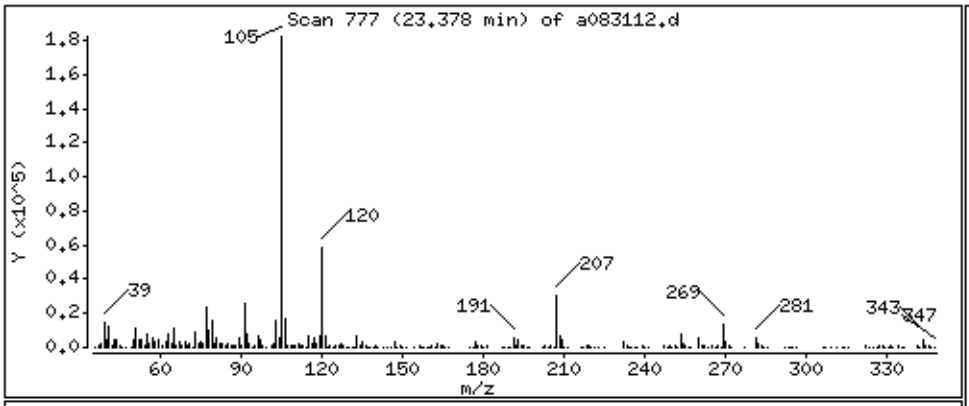
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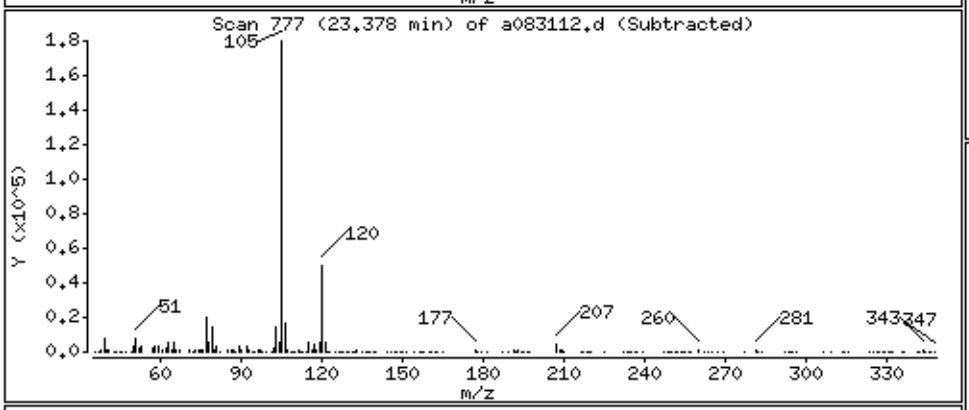
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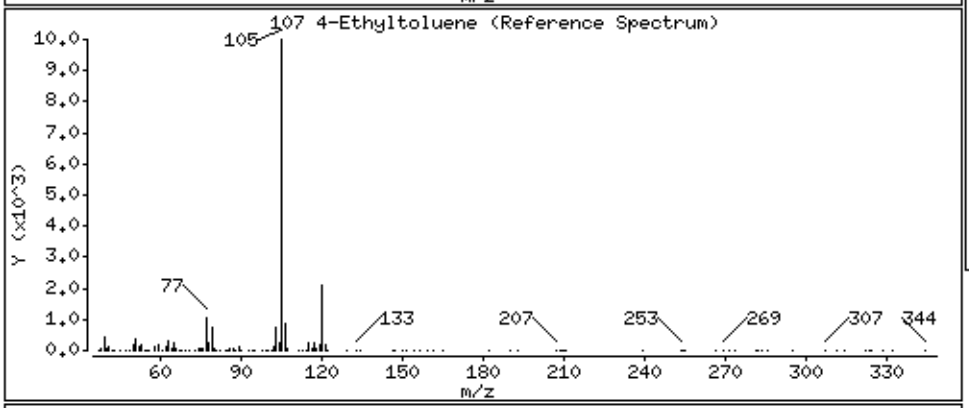
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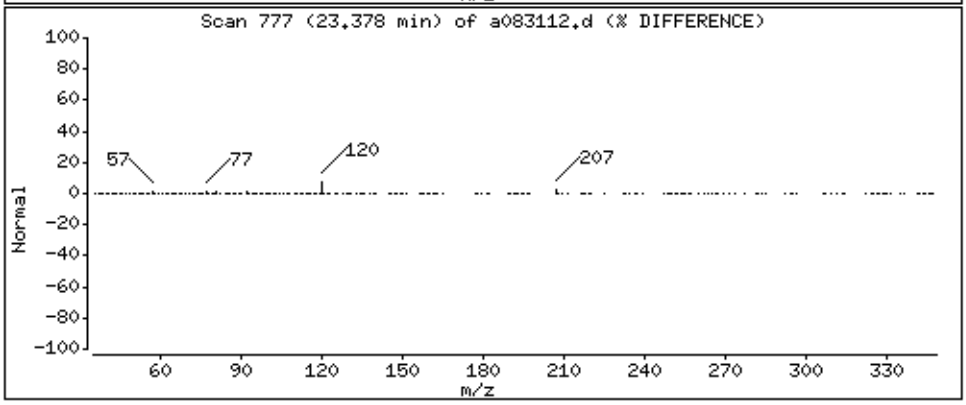
107 4-Ethyltoluene

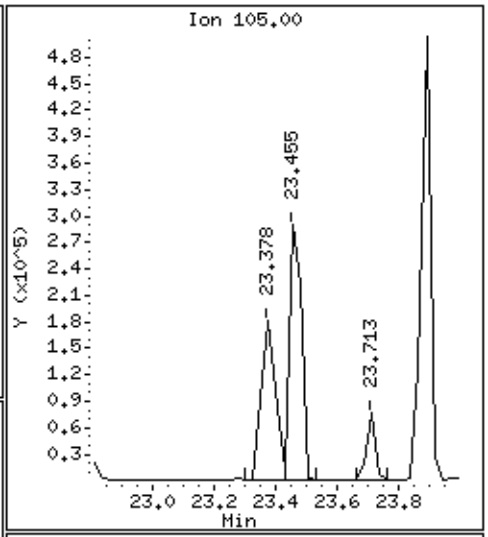
Concentration: 22.434 PPBV

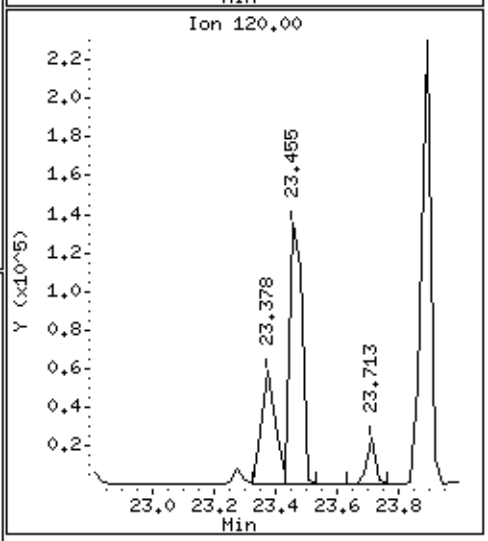


Data File: /chem/msda.i/31Aug2011.b/a083112.d

Date : 31-AUG-2011 16:25

Client ID:

Instrument: msda.i

Sample Info: 50mL #34006

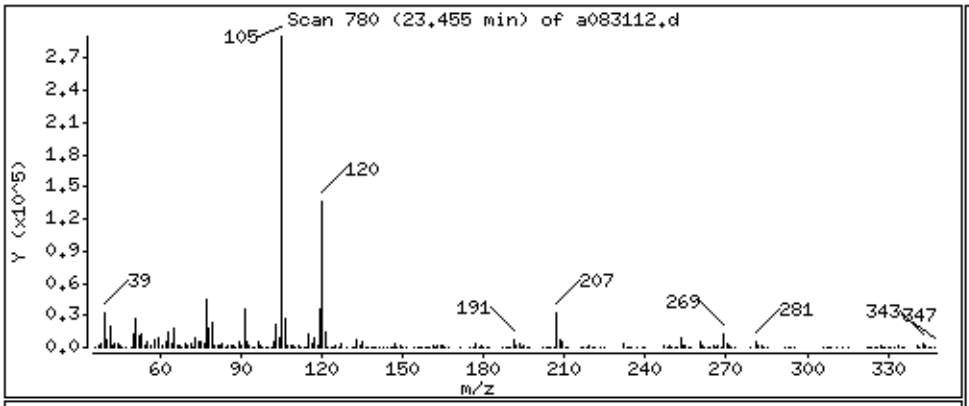
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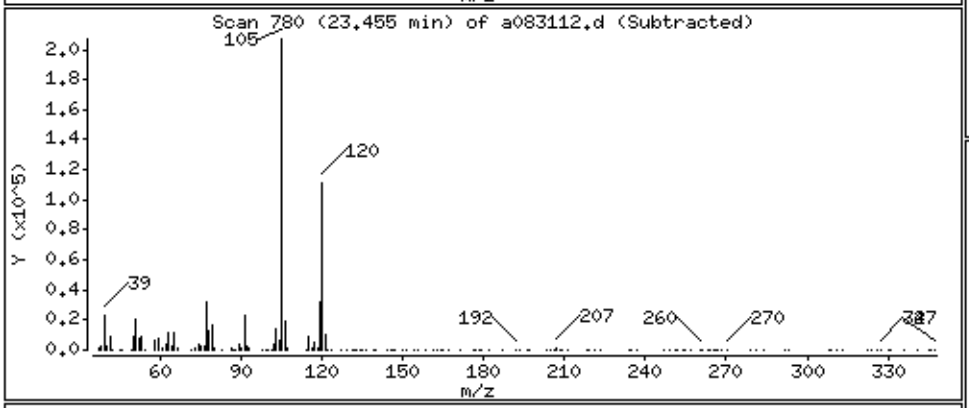
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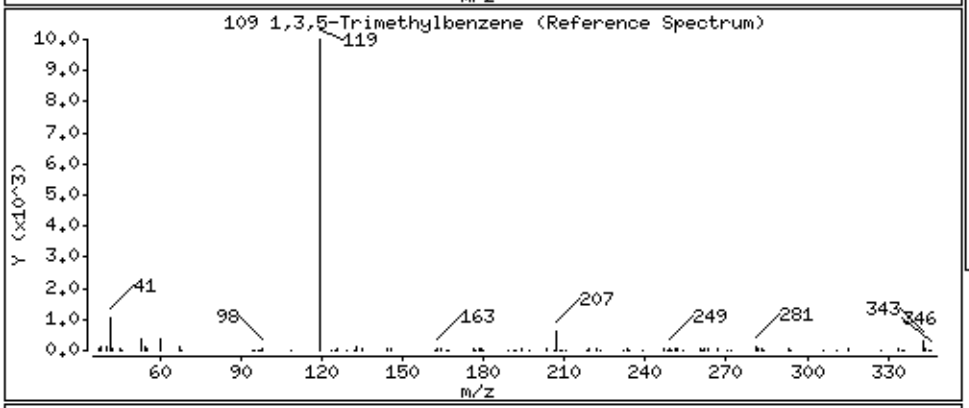
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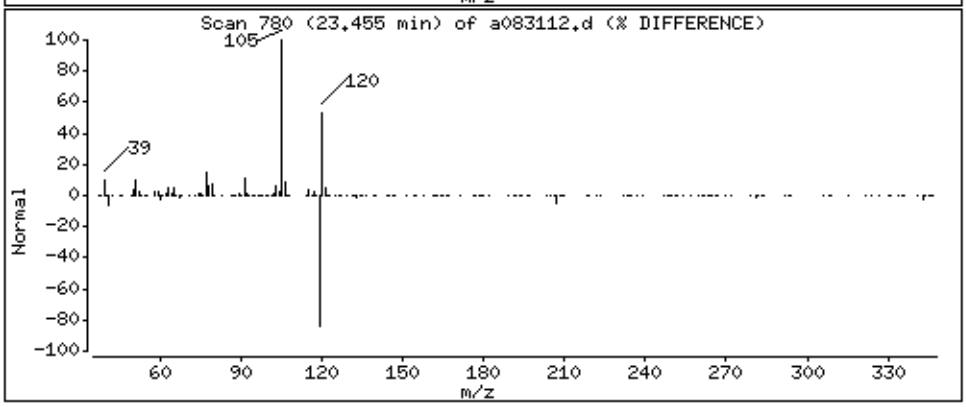
109 1,3,5-Trimethylbenzene

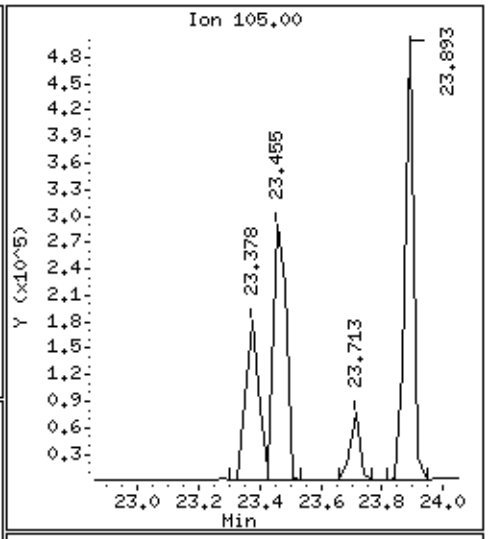
Concentration: 40.500 PPBV

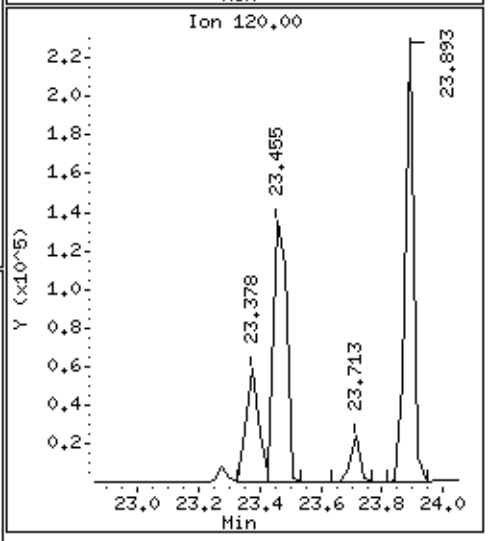


Data File: /chem/msda.i/31Aug2011.b/a083112.d

Date : 31-AUG-2011 16:25

Client ID:

Instrument: msda.i

Sample Info: 50mL #34006

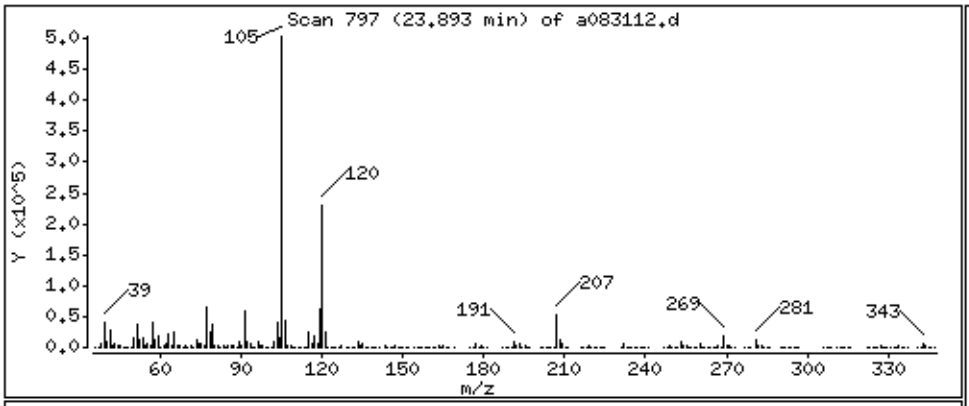
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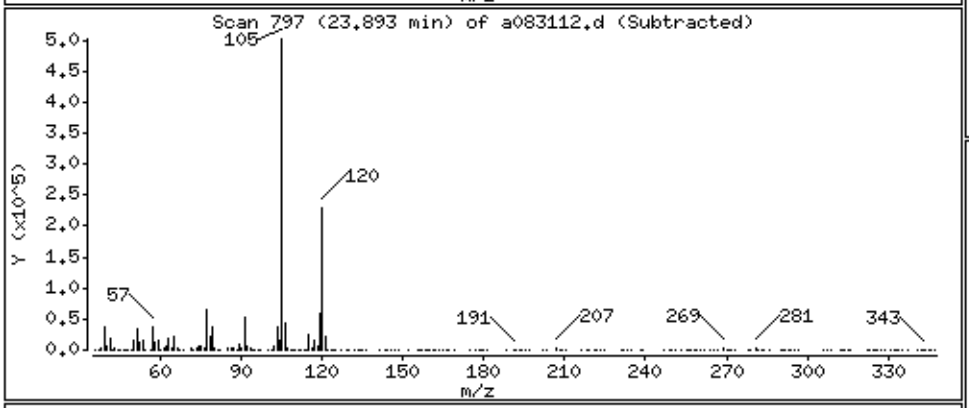
Column phase: RTx-624

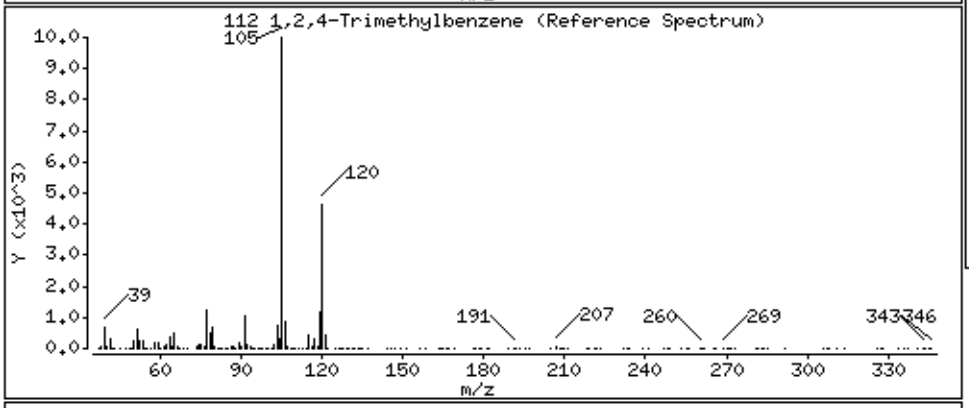
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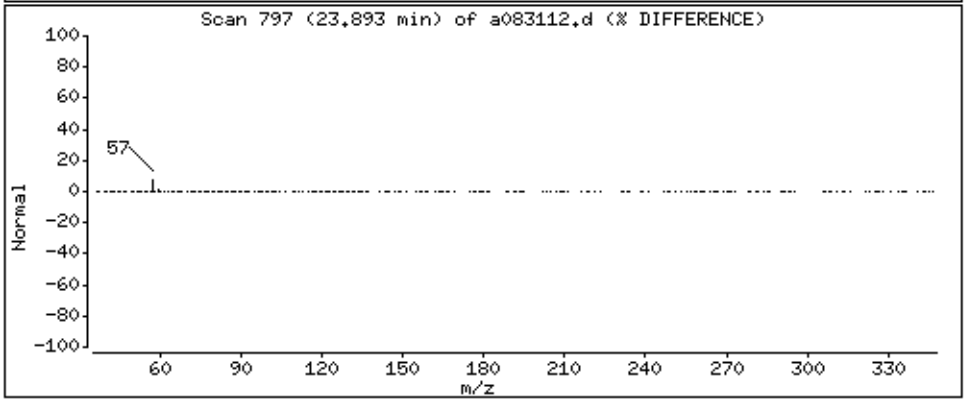
112 1,2,4-Trimethylbenzene

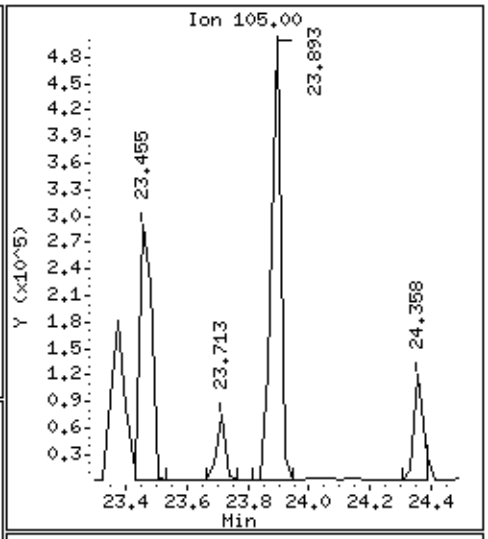
Concentration: 54.036 PPBV

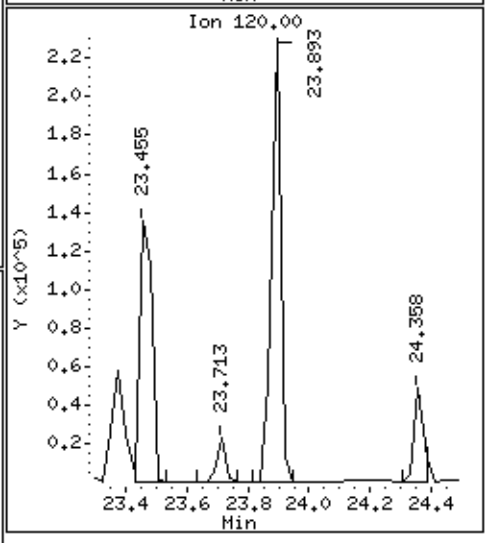


Data File: /chem/msda.i/31Aug2011.b/a083112.d

Date : 31-AUG-2011 16:25

Client ID:

Instrument: msda.i

Sample Info: 50mL #34006

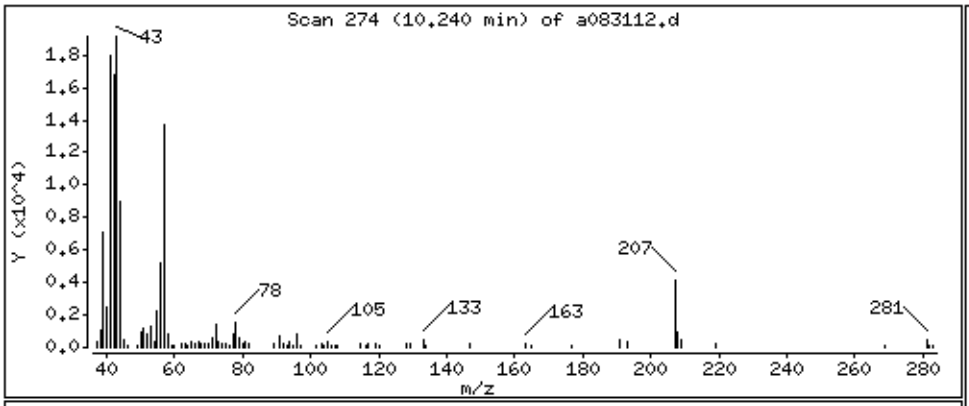
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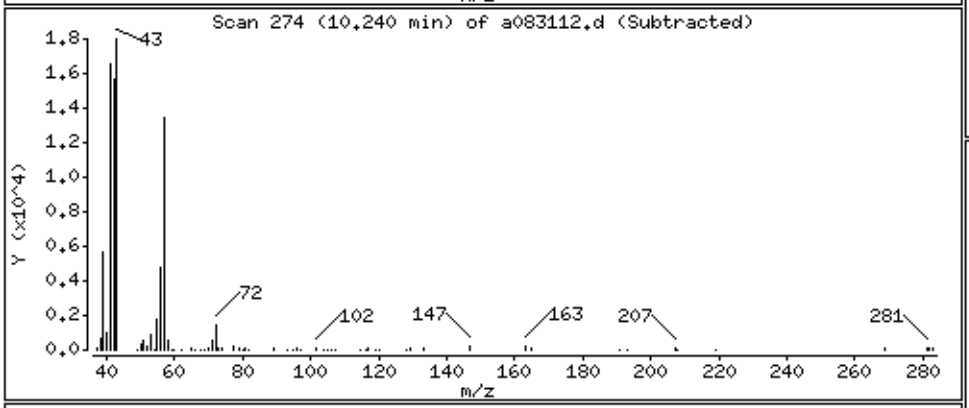
Column phase: RTx-624

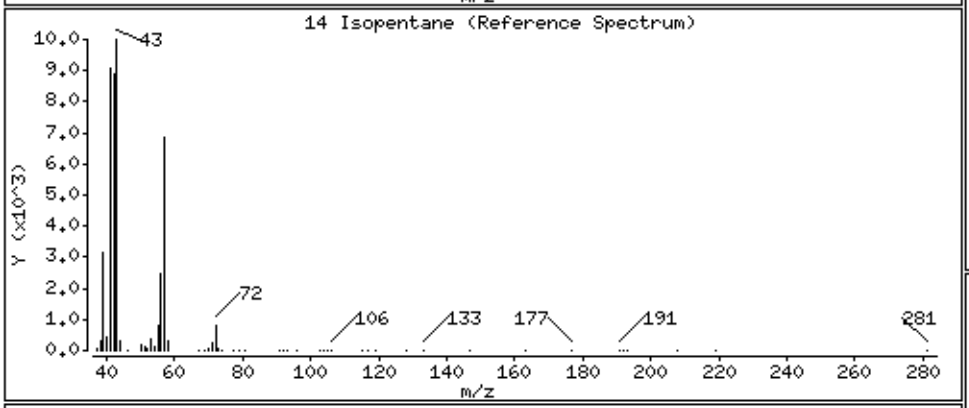
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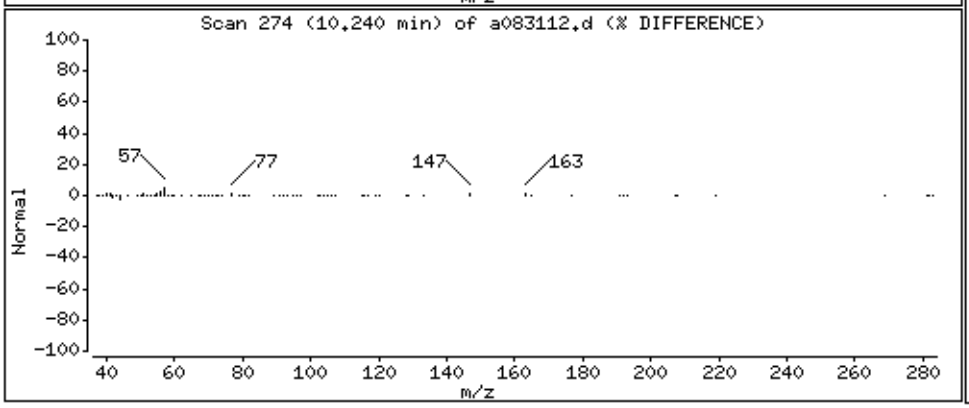
14 Isopentane

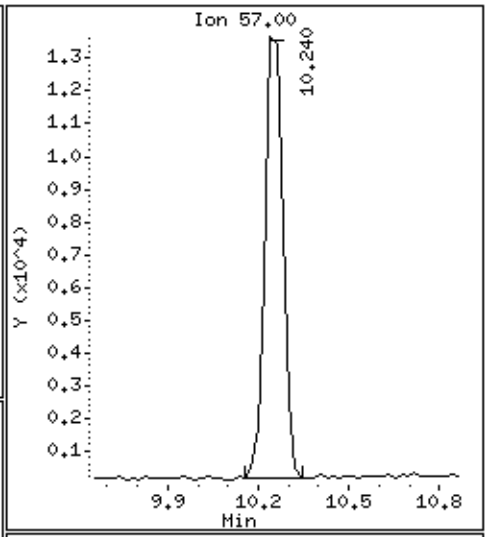
Concentration: 12.978 PPBV

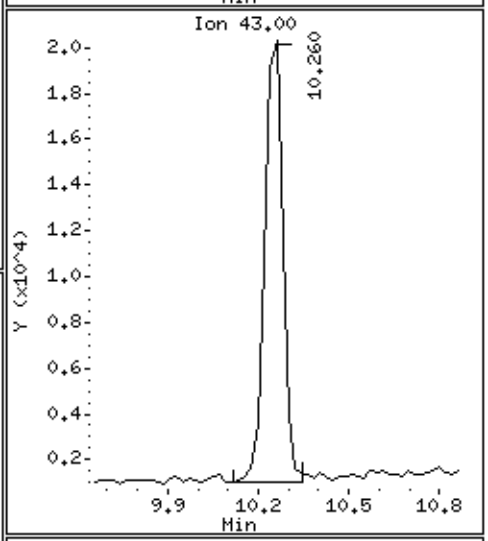


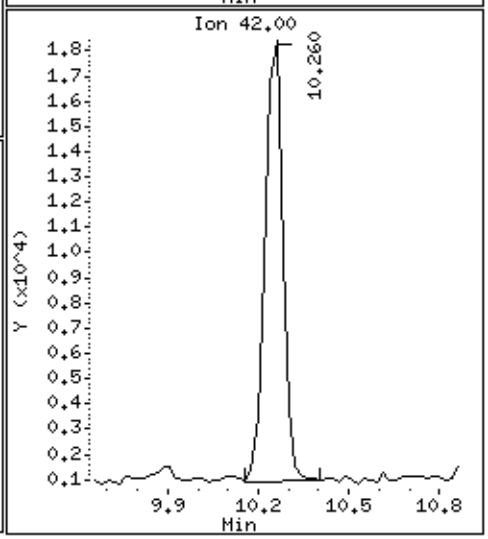



Data File: /chem/msda.i/31Aug2011.b/a083112.d

Date : 31-AUG-2011 16:25

Client ID:

Instrument: msda.i

Sample Info: 50mL #34006

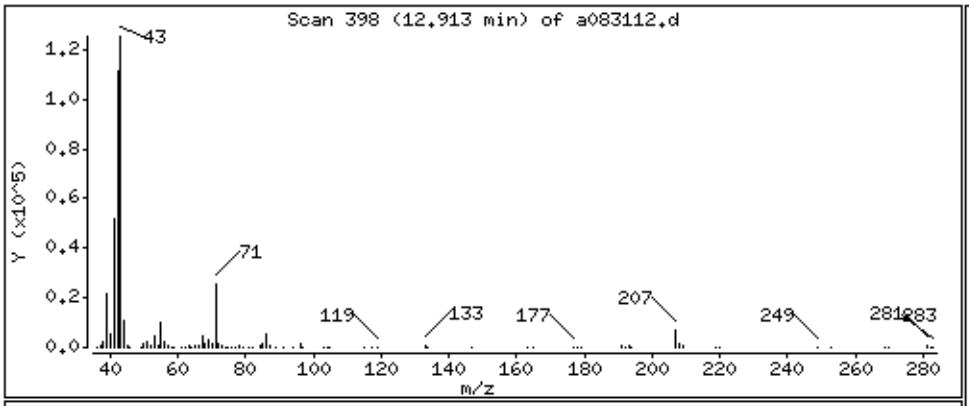
Operator: jc

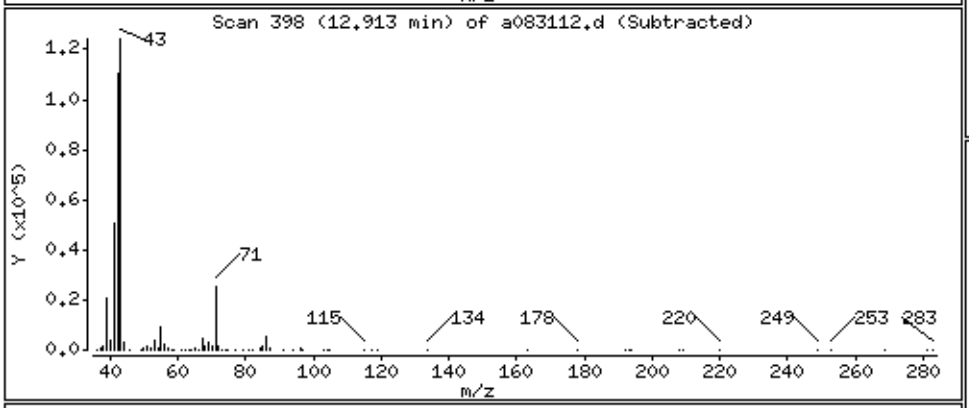
Column phase: RTx-624

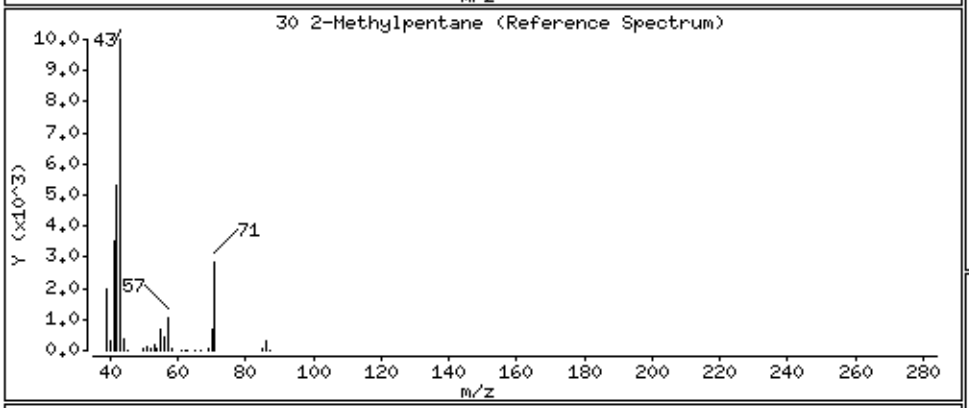
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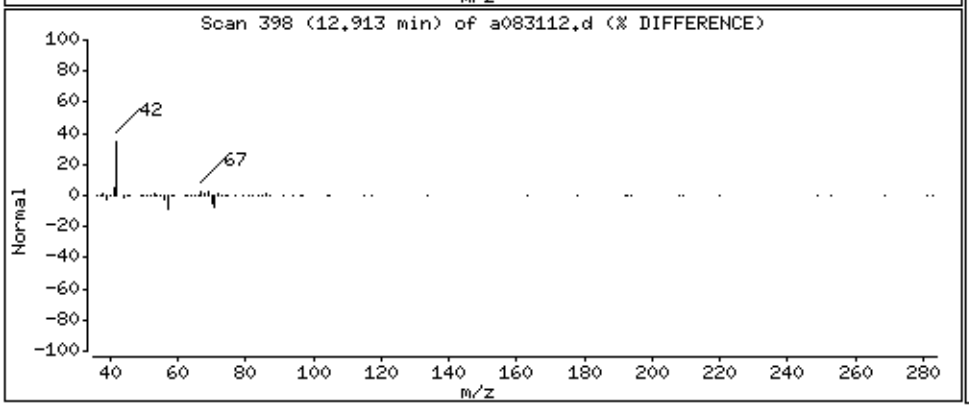
30 2-Methylpentane

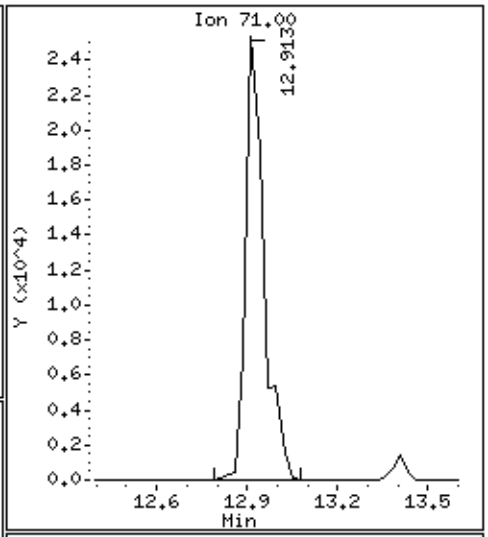
Concentration: 34.101 PPBV

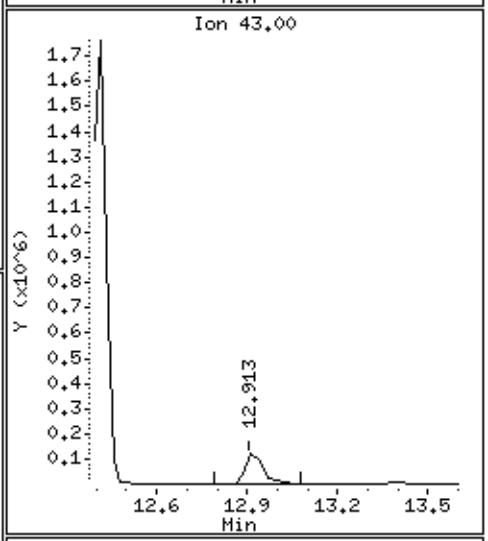


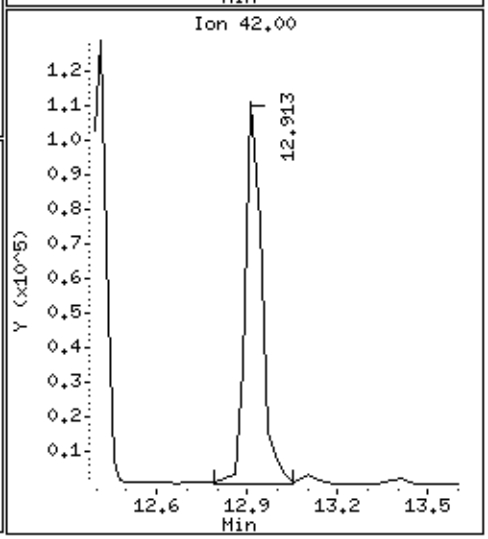



Data File: /chem/msda.i/31Aug2011.b/a083112.d

Date : 31-AUG-2011 16:25

Client ID:

Instrument: msda.i

Sample Info: 50mL #34006

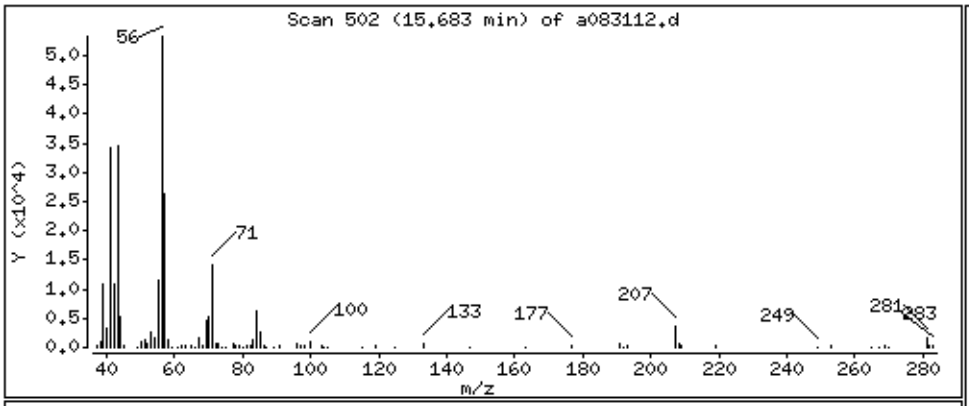
Operator: jc

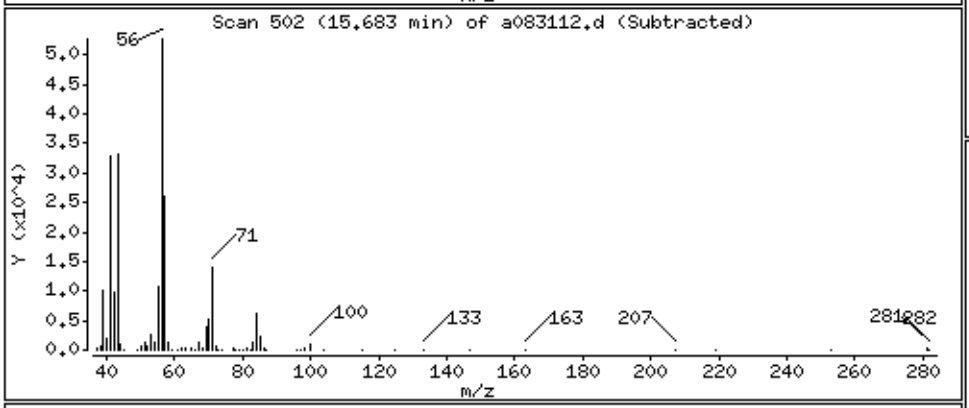
Column phase: RTx-624

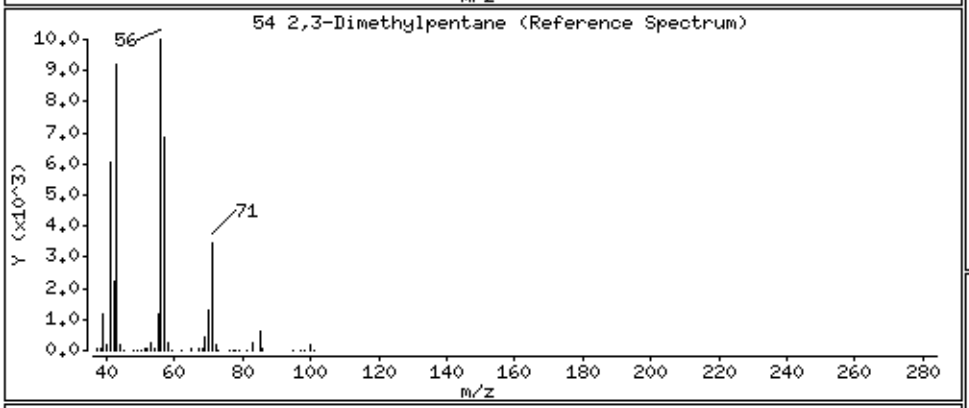
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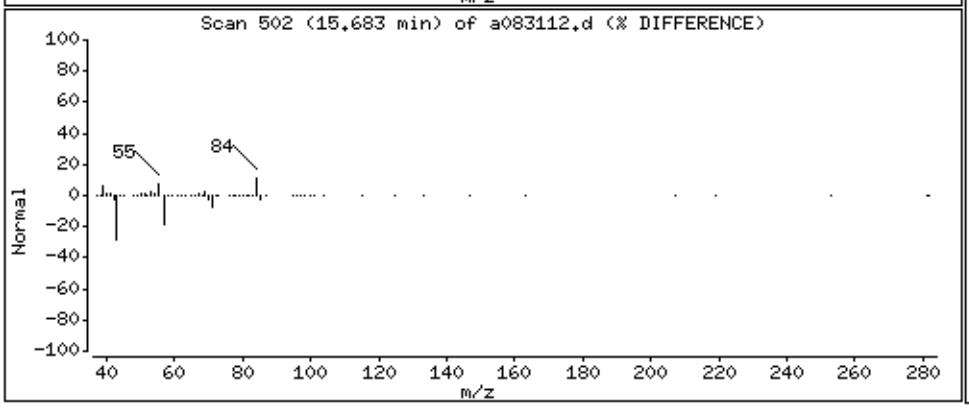
54 2,3-Dimethylpentane

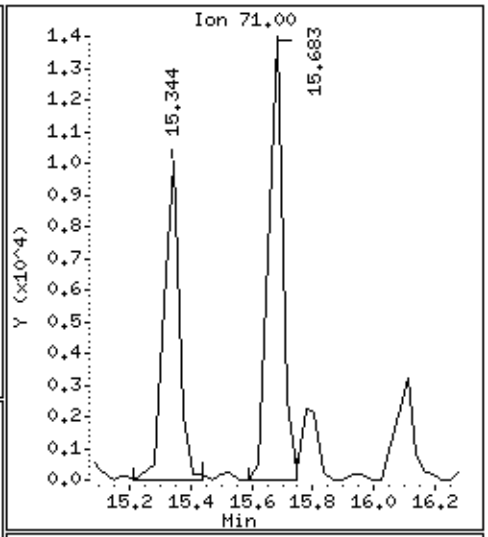
Concentration: 14.041 PPBV

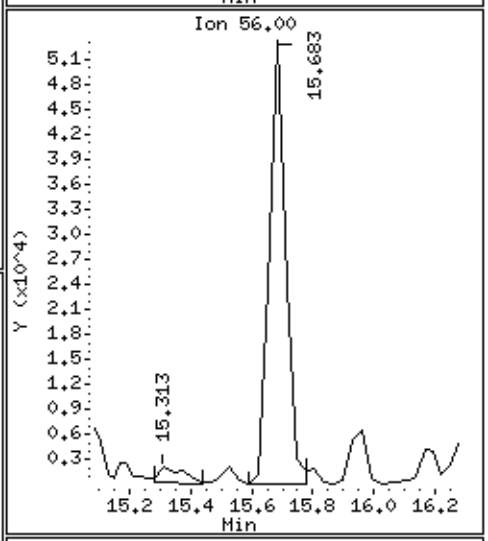


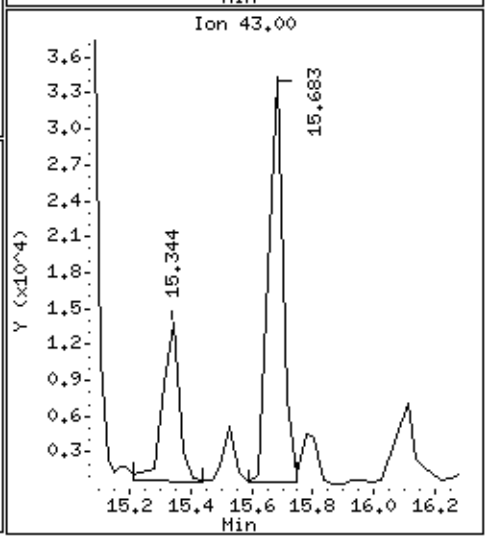



Data File: /chem/msda.i/31Aug2011.b/a083112.d

Date : 31-AUG-2011 16:25

Client ID:

Instrument: msda.i

Sample Info: 50mL #34006

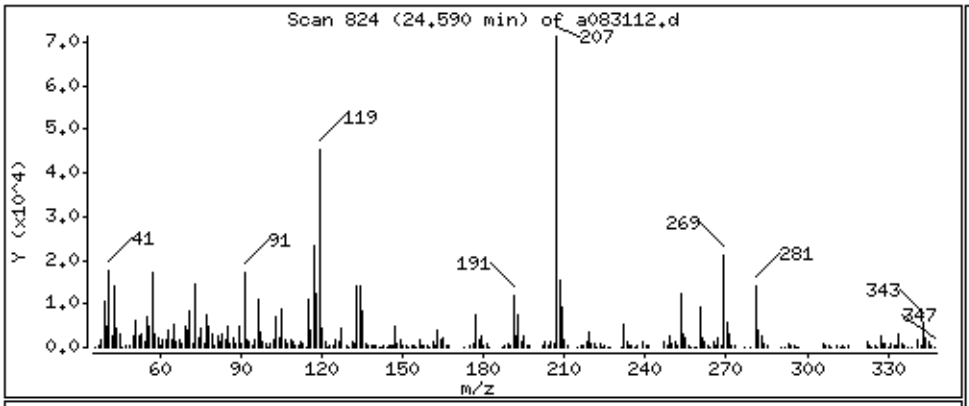
Operator: jc

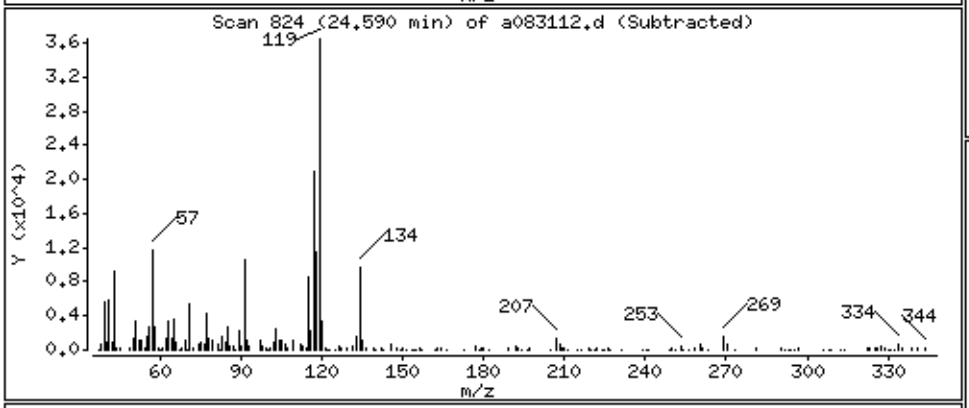
Column phase: RTx-624

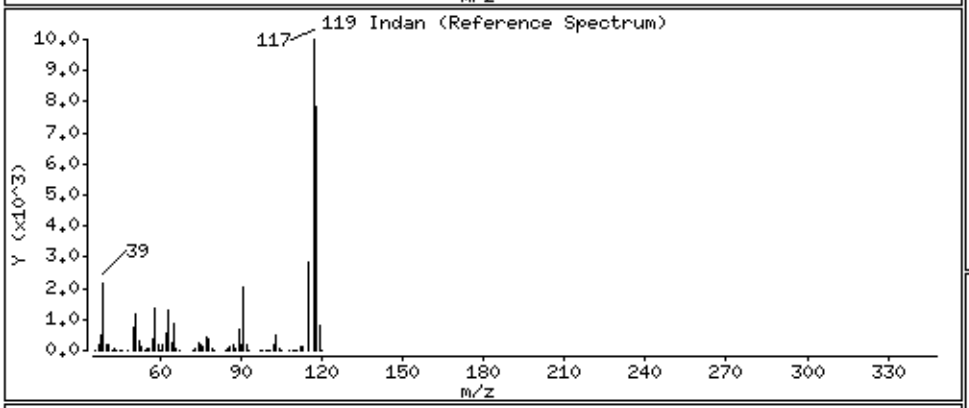
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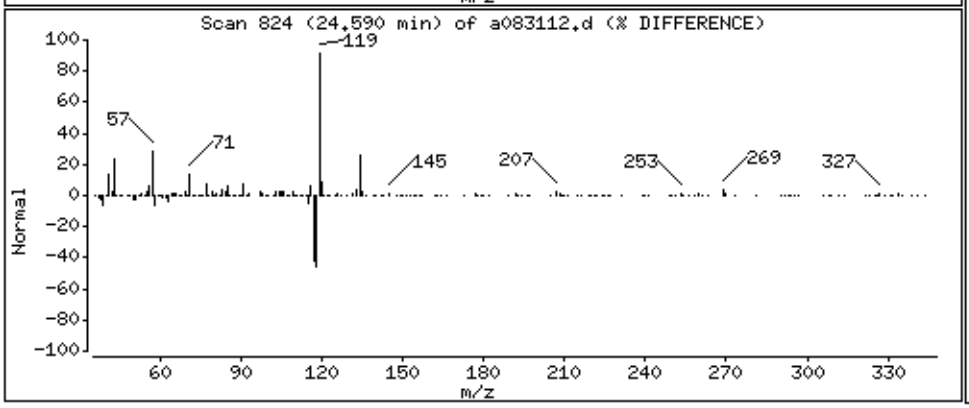
119 Indan

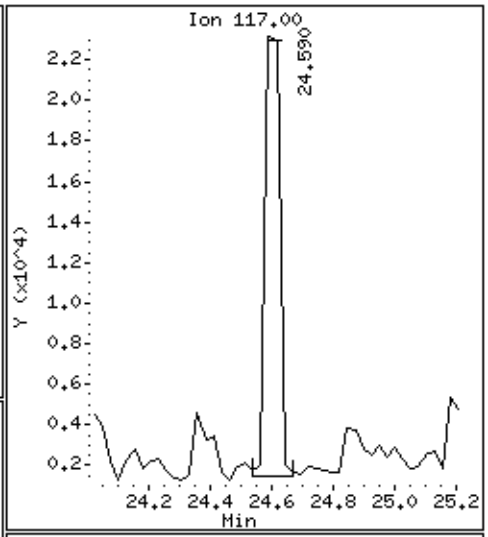
Concentration: 10.086 PPBV

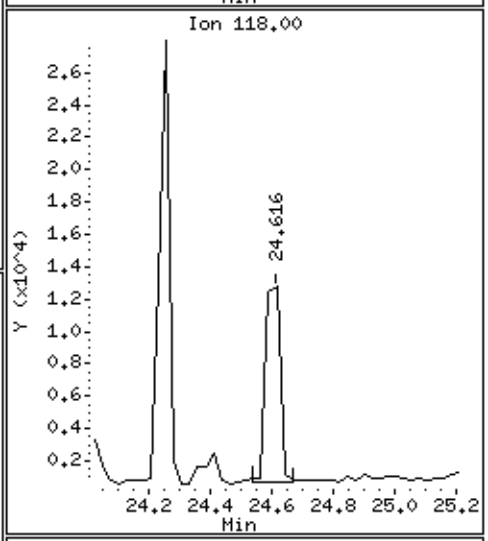


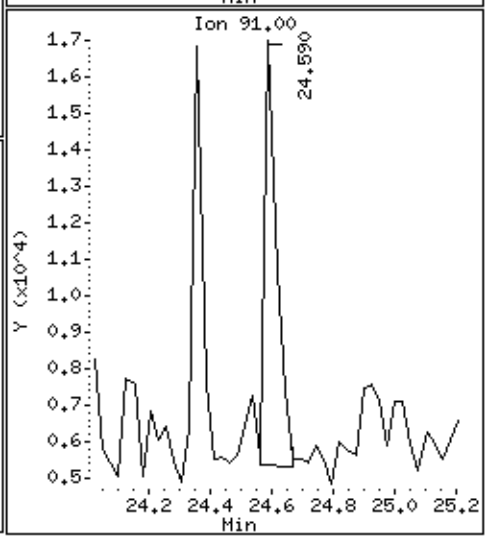



Data File: /chem/msda.i/31Aug2011.b/a083112.d

Date : 31-AUG-2011 16:25

Client ID:

Instrument: msda.i

Sample Info: 50mL #34006

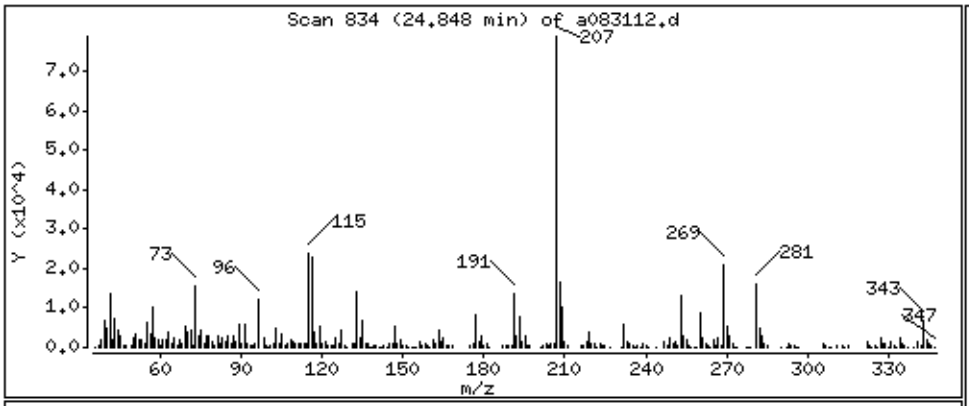
Operator: jc

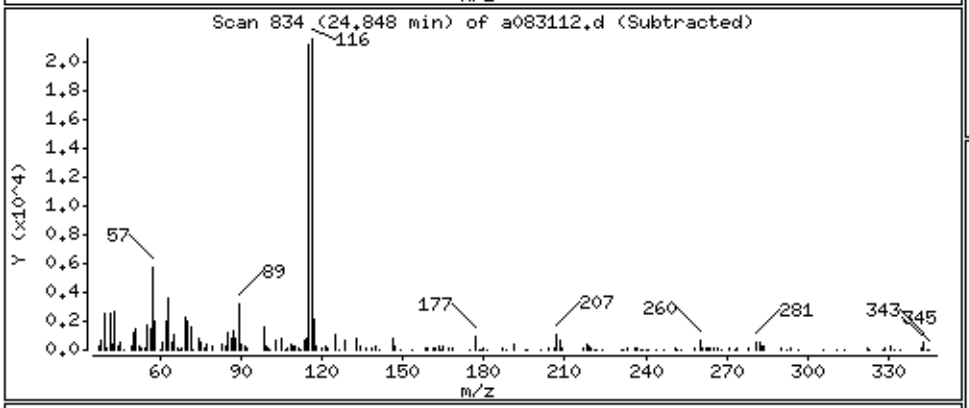
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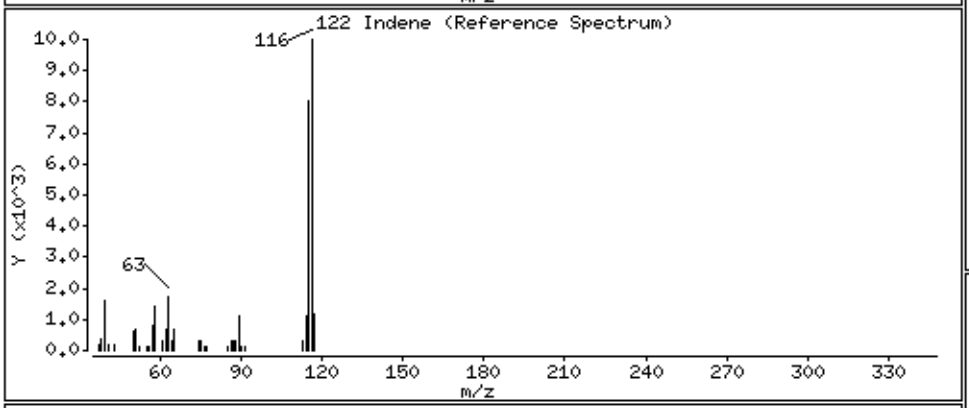
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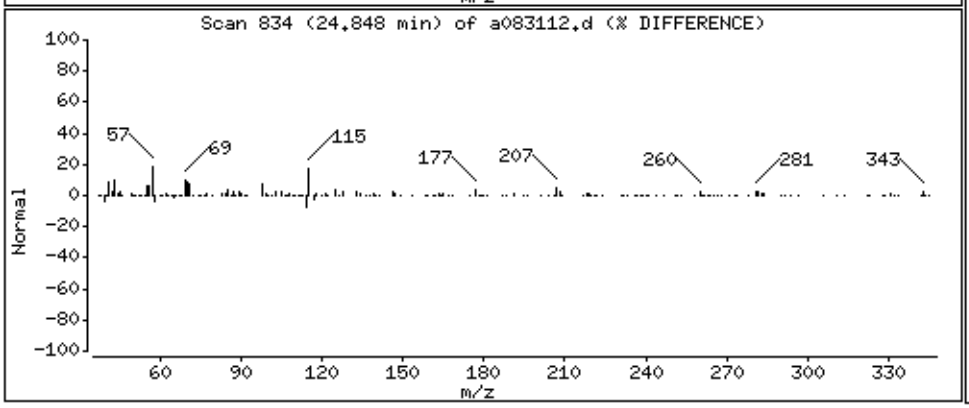
122 Indene

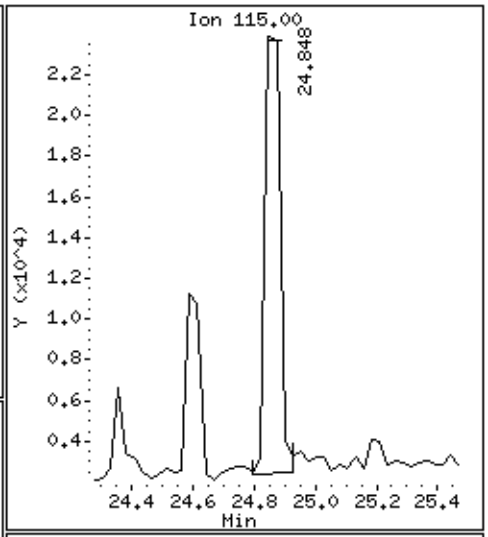
Concentration: 28.702 PPBV

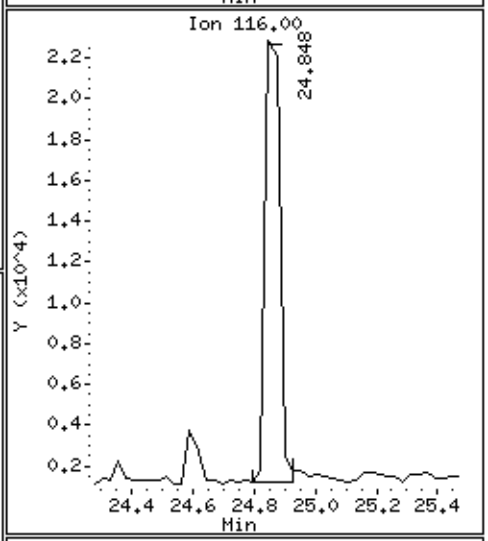


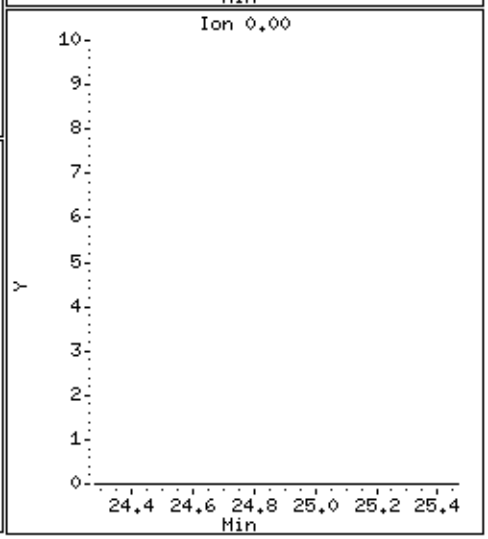



Data File: /chem/msda.i/31Aug2011.b/a083112.d

Date : 31-AUG-2011 16:25

Client ID:

Instrument: msda.i

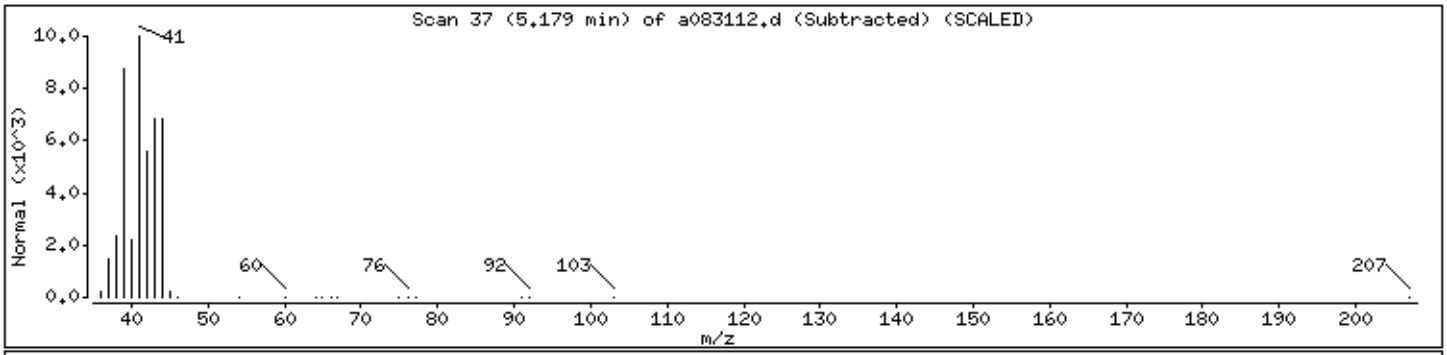
Sample Info: 50mL #34006

Operator: jc

Column phase: RTx-624

Column diameter: 0.32

| Library Search Compound Match | CAS Number | Library | Entry | Quality | Formula | Weight |
|---|---|---|---|---|---|---|
| Unknown | | | 0 | 0 | | 0 |



Data File: /chem/msda.i/31Aug2011.b/a083112.d

Date : 31-AUG-2011 16:25

Client ID:

Instrument: msda.i

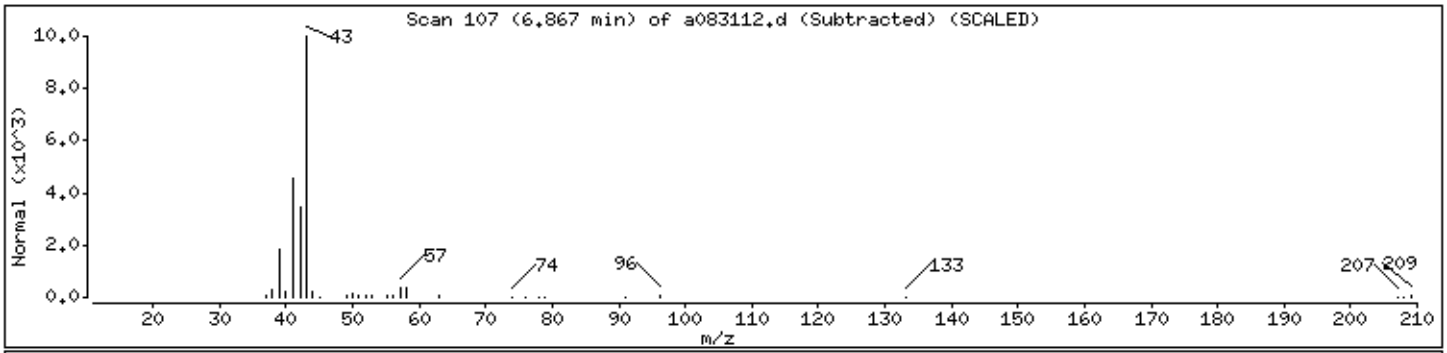
Sample Info: 50mL #34006

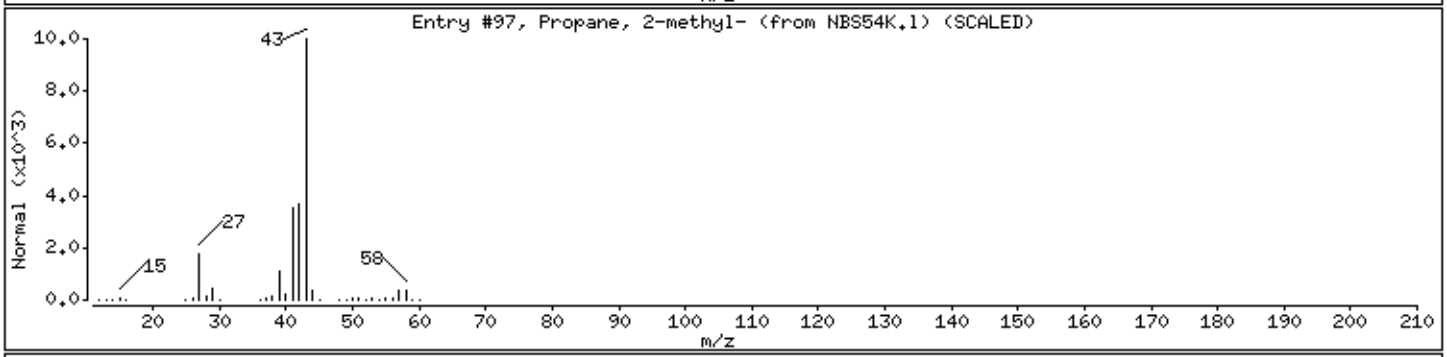
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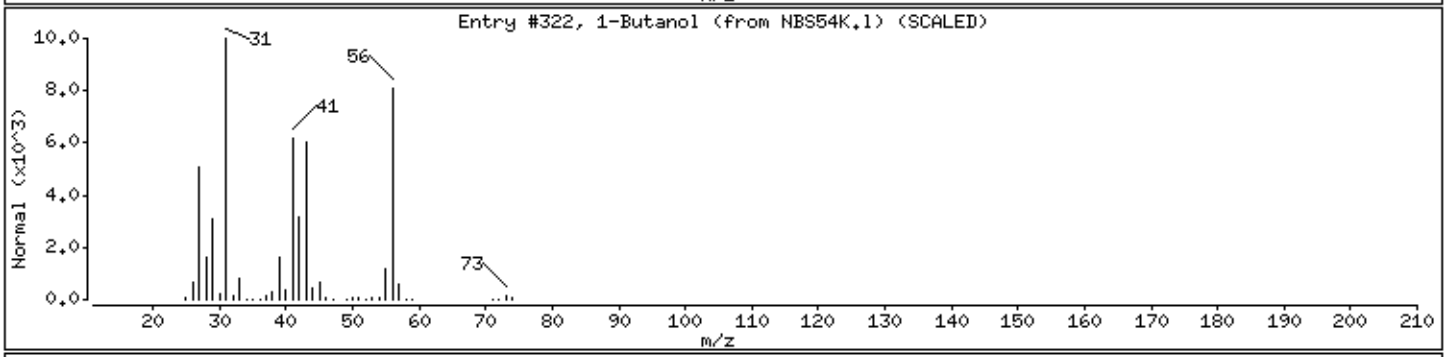
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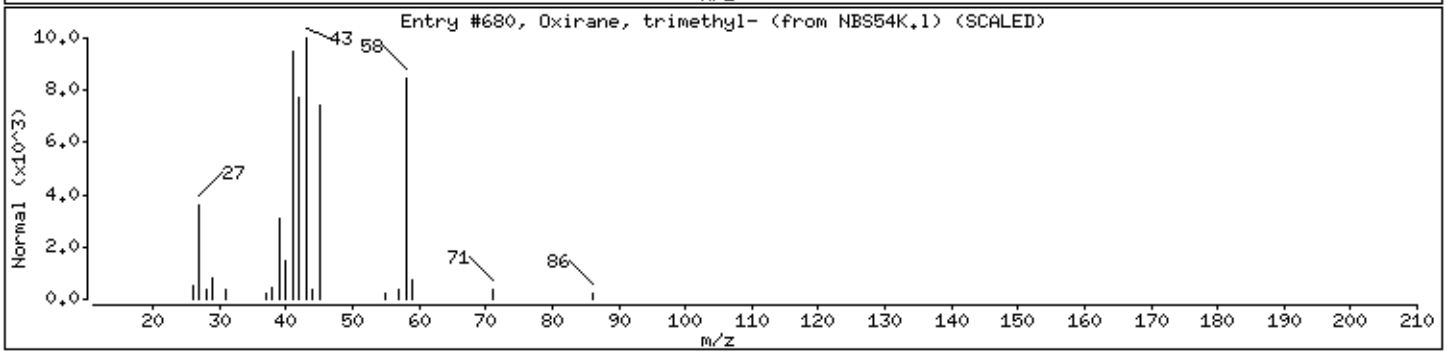
Column diameter: 0.32

| Library Search Compound Match | CAS Number | Library | Entry | Quality | Formula | Weight |
|---|---|---|---|---|---|---|
| Propane, 2-methyl- | 75-28-5 | NBS54K.l | 97 | 64 | C4H10 | 58 |
| 1-Butanol | 71-36-3 | NBS54K.l | 322 | 7 | C4H10O | 74 |
| Oxirane, trimethyl- | 5076-19-7 | NBS54K.l | 680 | 4 | C5H10O | 86 |



Data File: /chem/msda.i/31Aug2011.b/a083112.d

Date : 31-AUG-2011 16:25

Client ID:

Instrument: msda.i

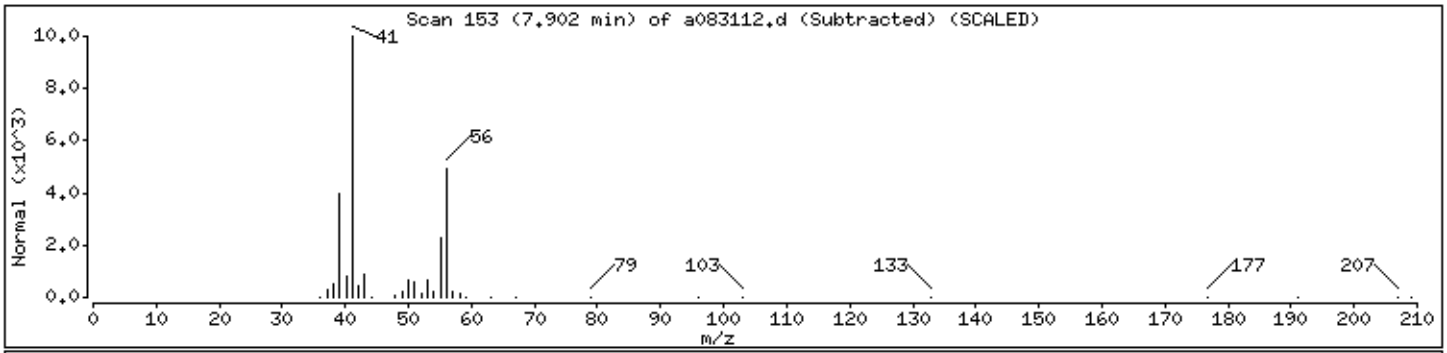
Sample Info: 50mL #34006

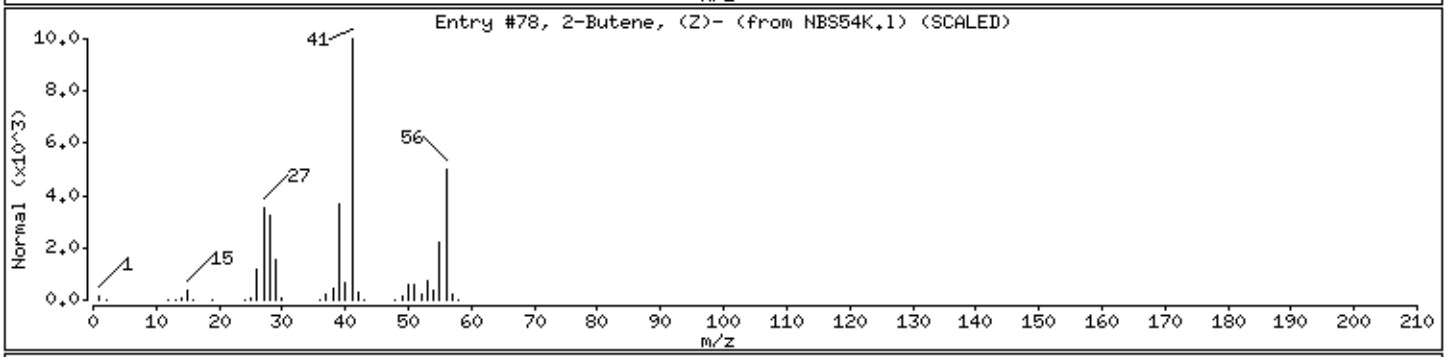
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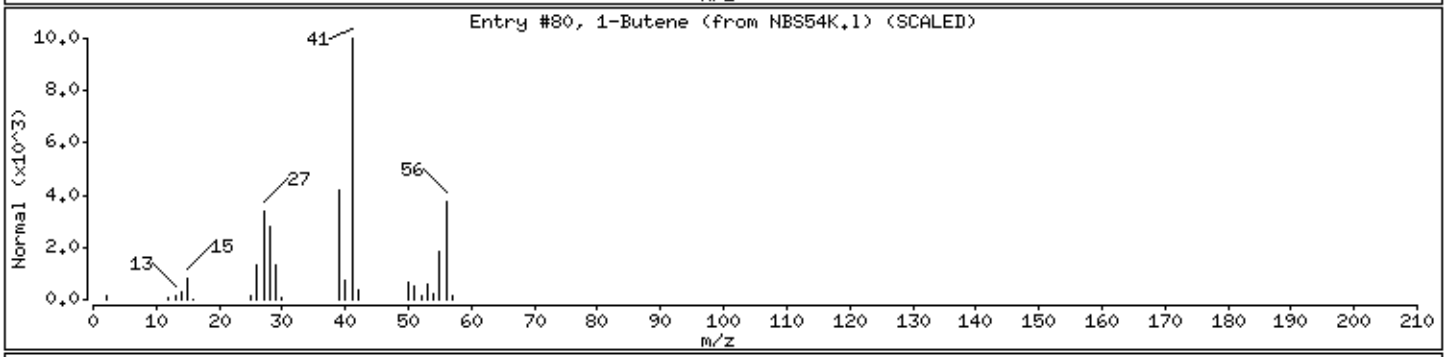
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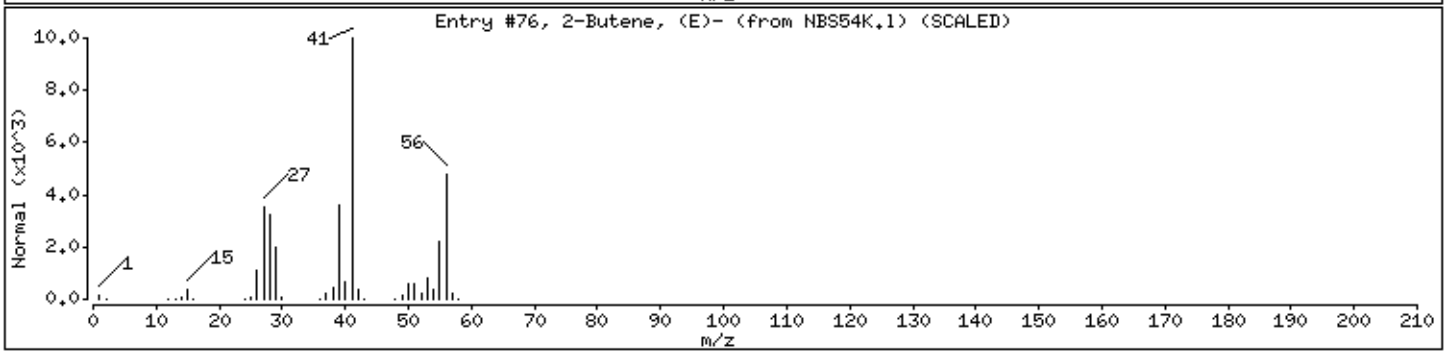
Column diameter: 0.32

| Library Search Compound Match | CAS Number | Library | Entry | Quality | Formula | Weight |
|---|---|---|---|---|---|---|
| 2-Butene, (Z)- | 590-18-1 | NBS54K.l | 78 | 80 | C4H8 | 56 |
| 1-Butene | 106-98-9 | NBS54K.l | 80 | 80 | C4H8 | 56 |
| 2-Butene, (E)- | 624-64-6 | NBS54K.l | 76 | 80 | C4H8 | 56 |



Data File: /chem/msda.i/31Aug2011.b/a083112.d

Date : 31-AUG-2011 16:25

Client ID:

Instrument: msda.i

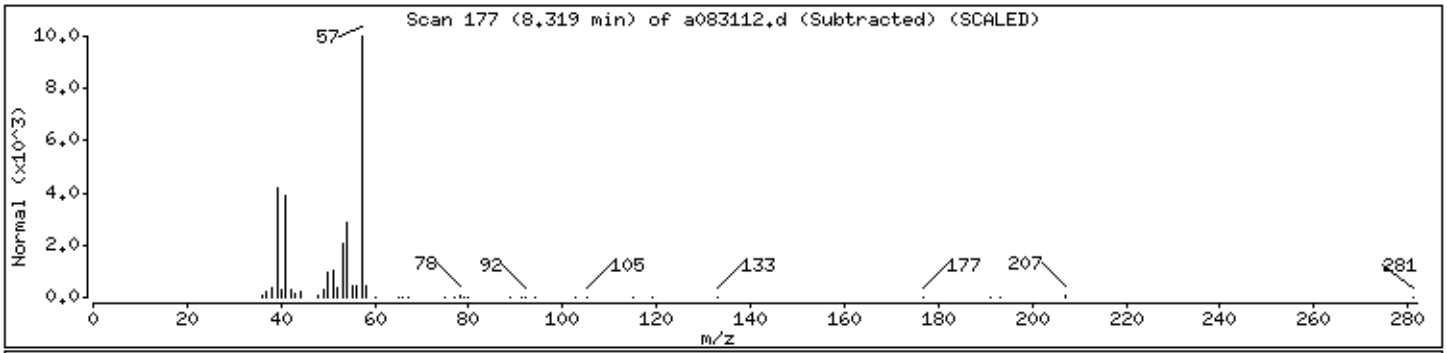
Sample Info: 50mL #34006

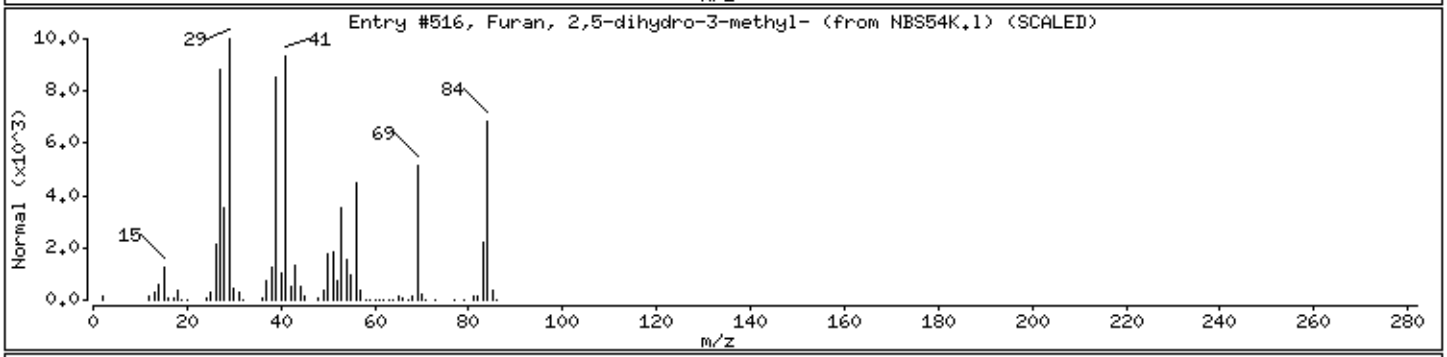
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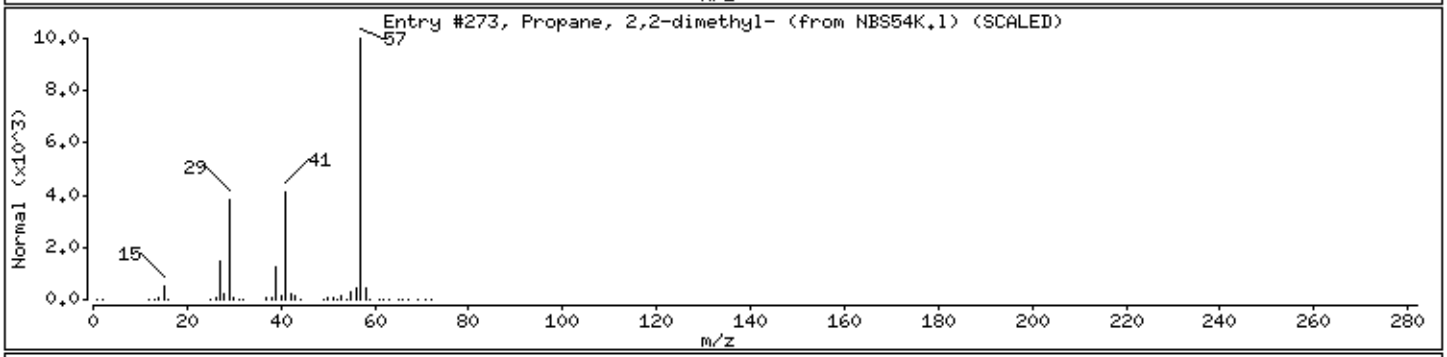
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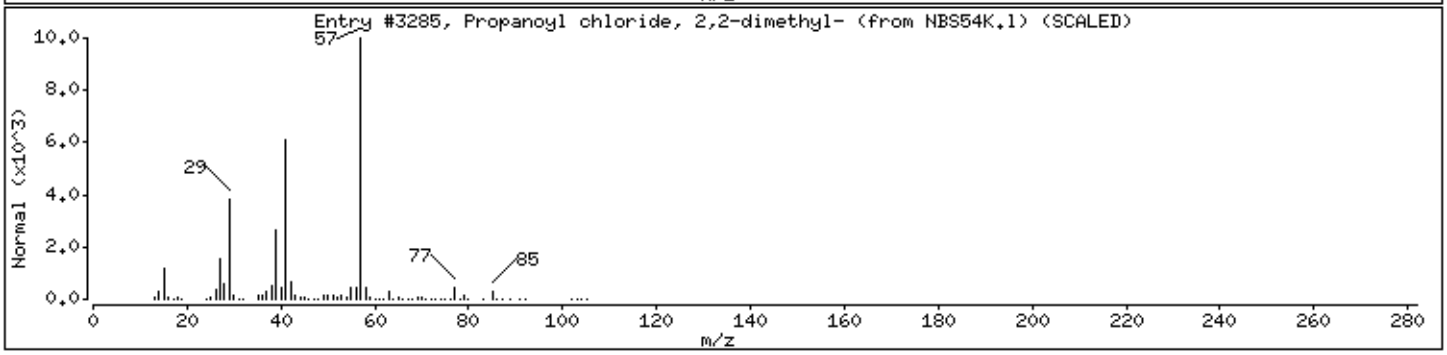
Column diameter: 0.32

| Library Search Compound Match | CAS Number | Library | Entry | Quality | Formula | Weight |
|---|---|---|---|---|---|---|
| Unknown | | | | | | |
| Furan, 2,5-dihydro-3-methyl- | 1708-31-2 | NBS54K.l | 516 | 50 | C5H8O | 84 |
| Propane, 2,2-dimethyl- | 463-82-1 | NBS54K.l | 273 | 9 | C5H12 | 72 |
| Propanoyl chloride, 2,2-dimethyl- | 3282-30-2 | NBS54K.l | 3285 | 9 | C5H9ClO | 120 |



Data File: /chem/msda.i/31Aug2011.b/a083112.d

Date : 31-AUG-2011 16:25

Client ID:

Instrument: msda.i

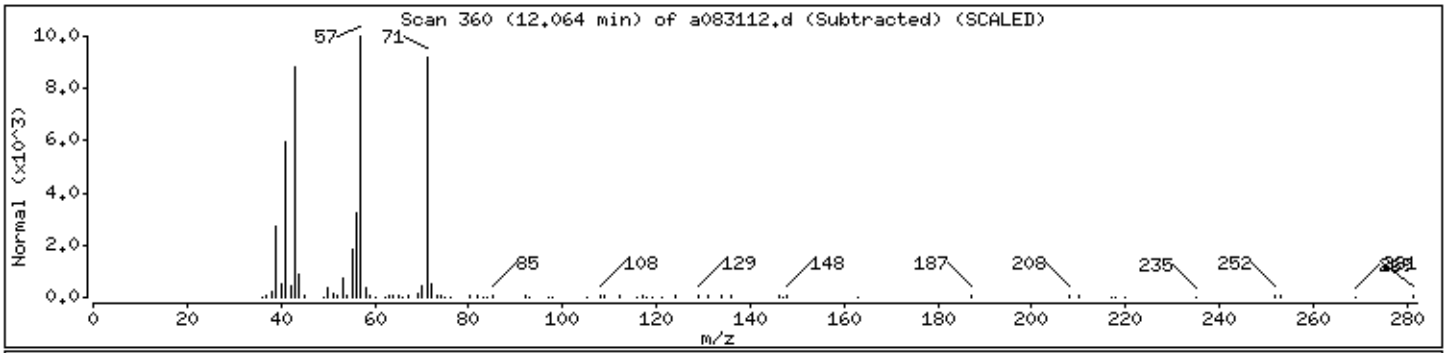
Sample Info: 50mL #34006

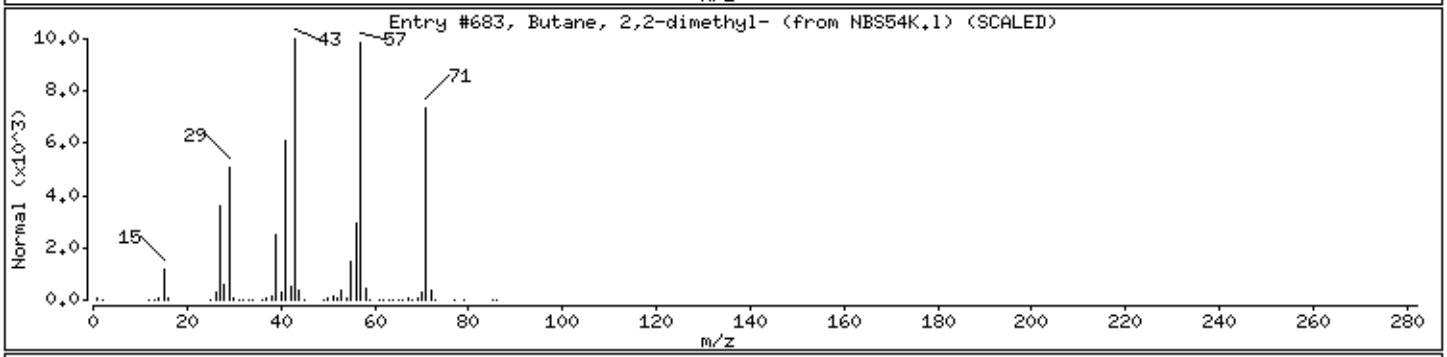
Operator: jc

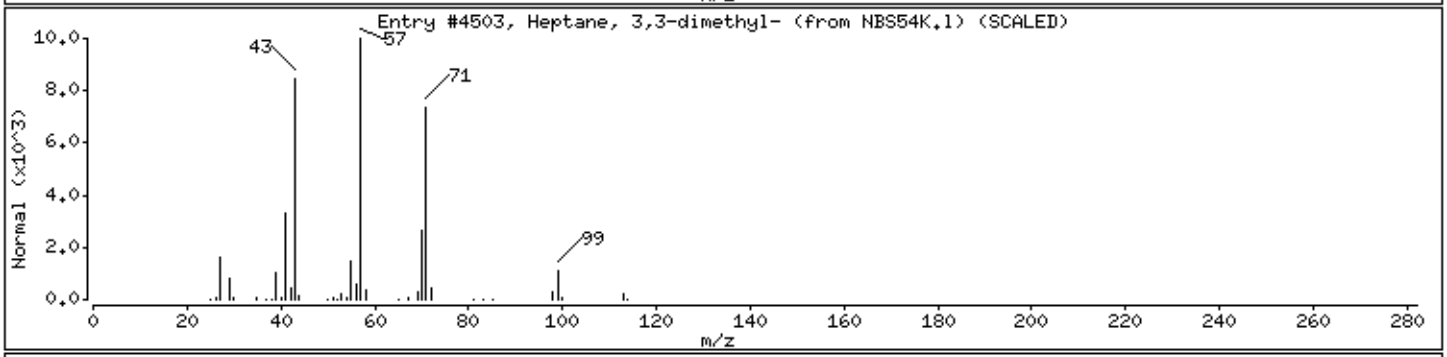
Column phase: RTx-624

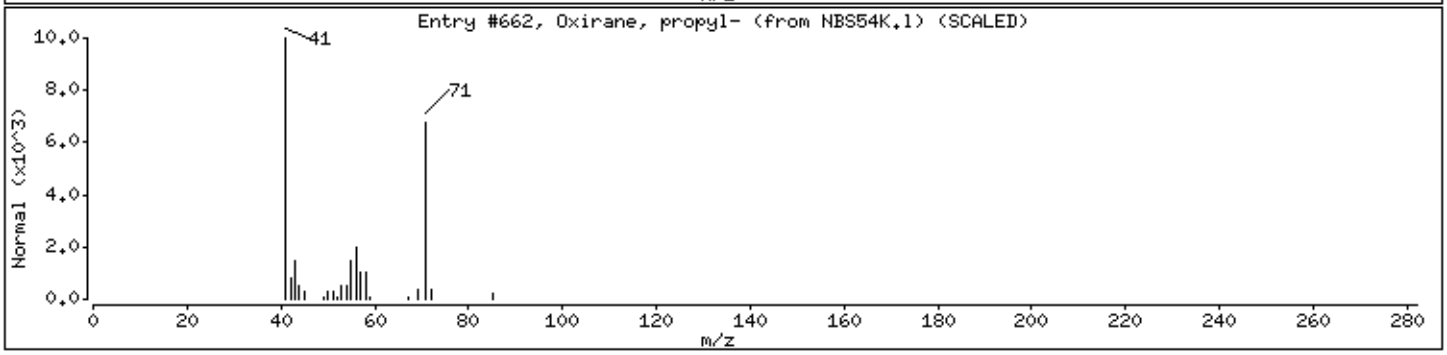
Column diameter: 0.32

| Library Search Compound Match | CAS Number | Library | Entry | Quality | Formula | Weight |
|---|---|---|---|---|---|---|
| Butane, 2,2-dimethyl- | 75-83-2 | NBS54K.l | 683 | 78 | C6H14 | 86 |
| Heptane, 3,3-dimethyl- | 4032-86-4 | NBS54K.l | 4503 | 64 | C9H20 | 128 |
| Oxirane, propyl- | 1003-14-1 | NBS54K.l | 662 | 53 | C5H10O | 86 |



Data File: /chem/msda.i/31Aug2011.b/a083112.d

Date : 31-AUG-2011 16:25

Client ID:

Instrument: msda.i

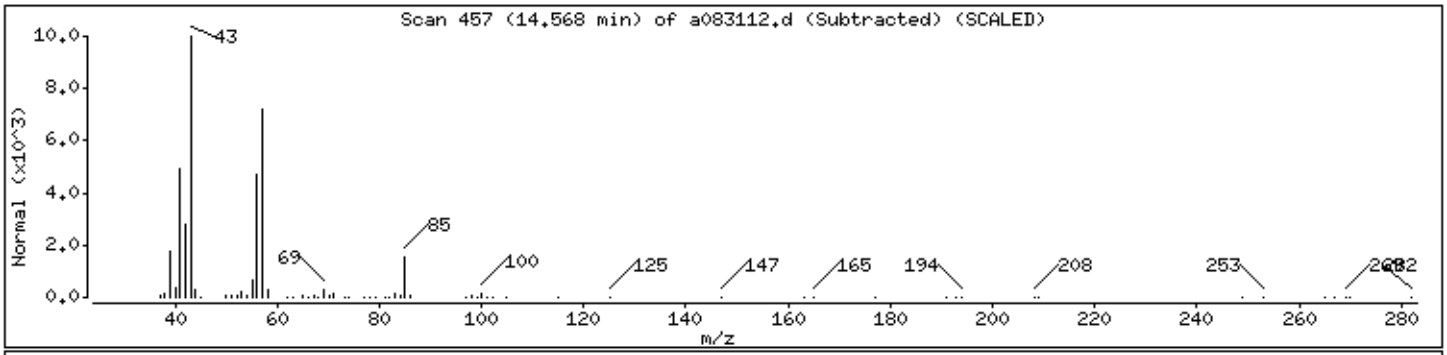
Sample Info: 50mL #34006

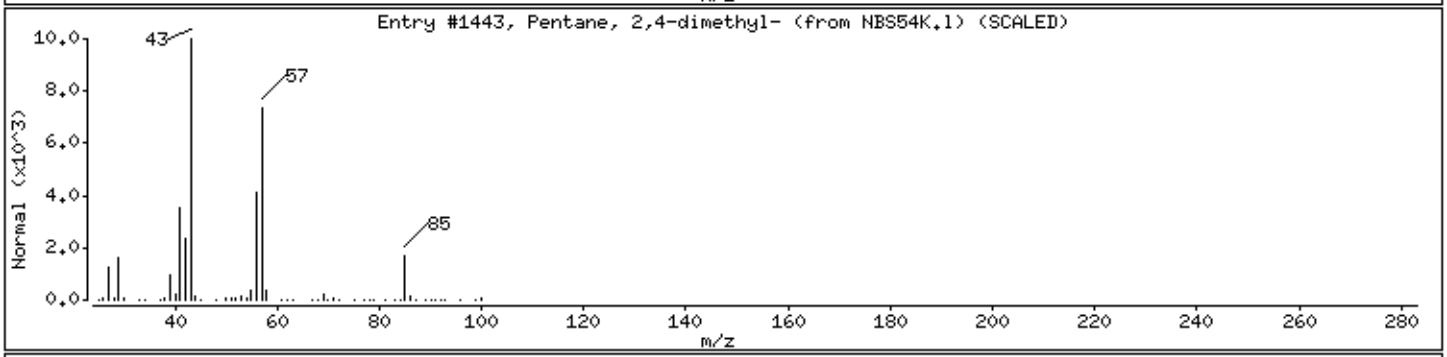
Operator: jc

Column phase: RTx-624

Column diameter: 0.32

| Library Search Compound Match | CAS Number | Library | Entry | Quality | Formula | Weight |
|---|---|---|---|---|---|---|
| Pentane, 2,4-dimethyl- | 108-08-7 | NBS54K.l | 1443 | 72 | C7H16 | 100 |



Data File: /chem/msda.i/31Aug2011.b/a083112.d

Date : 31-AUG-2011 16:25

Client ID:

Instrument: msda.i

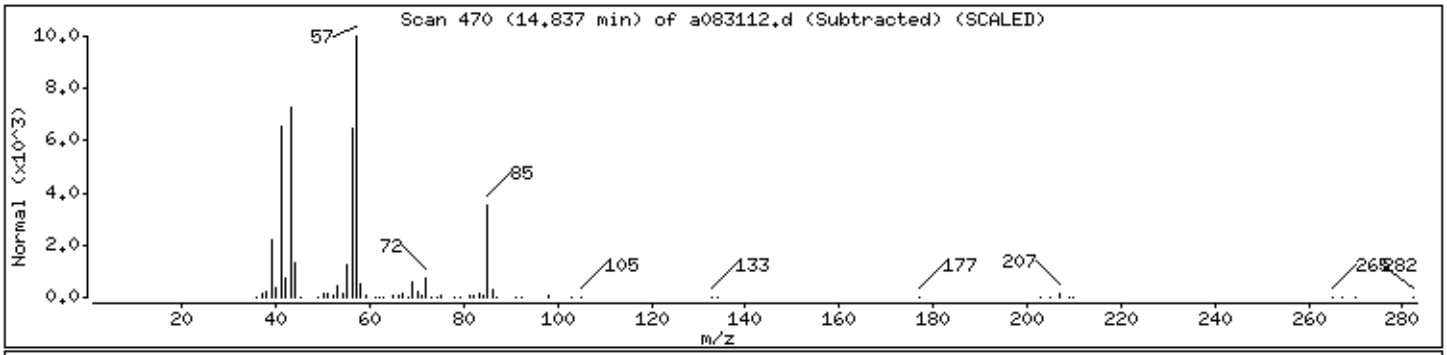
Sample Info: 50mL #34006

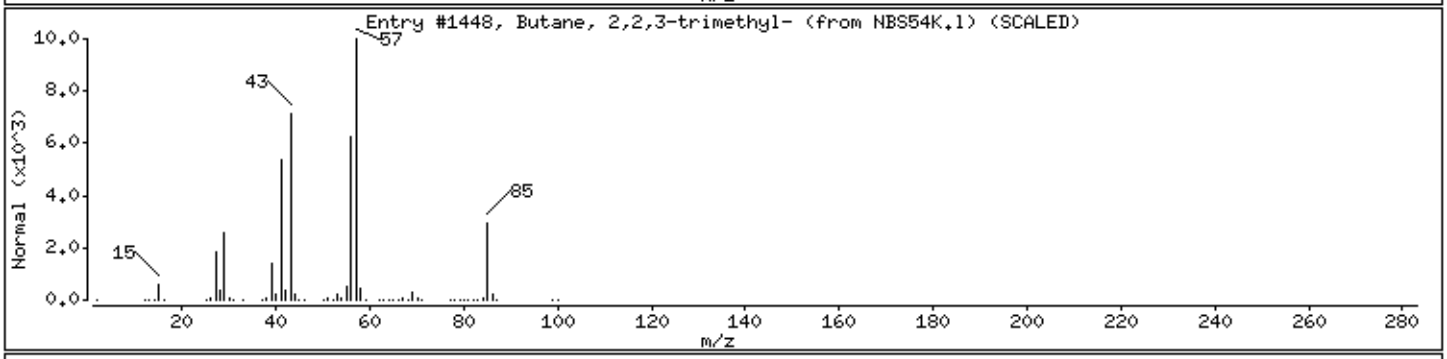
Operator: jc

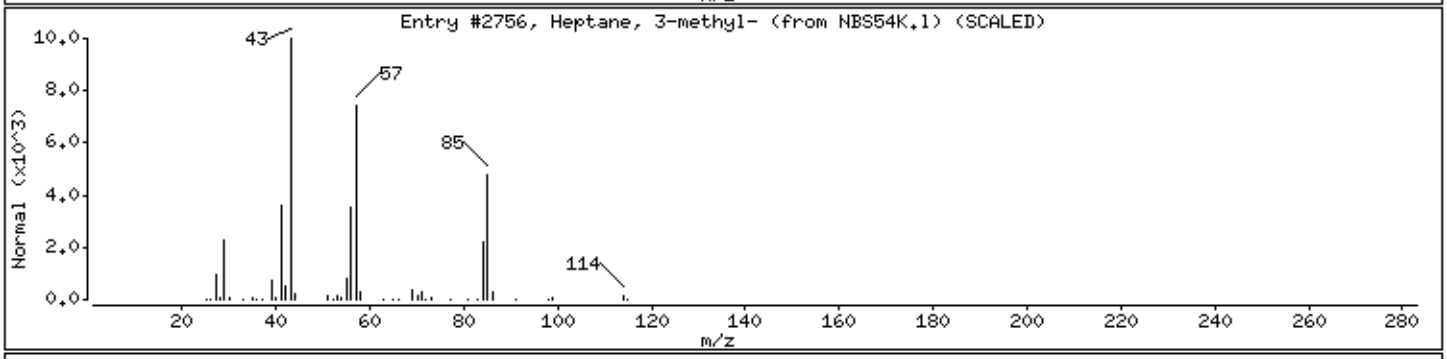
Column phase: RTx-624

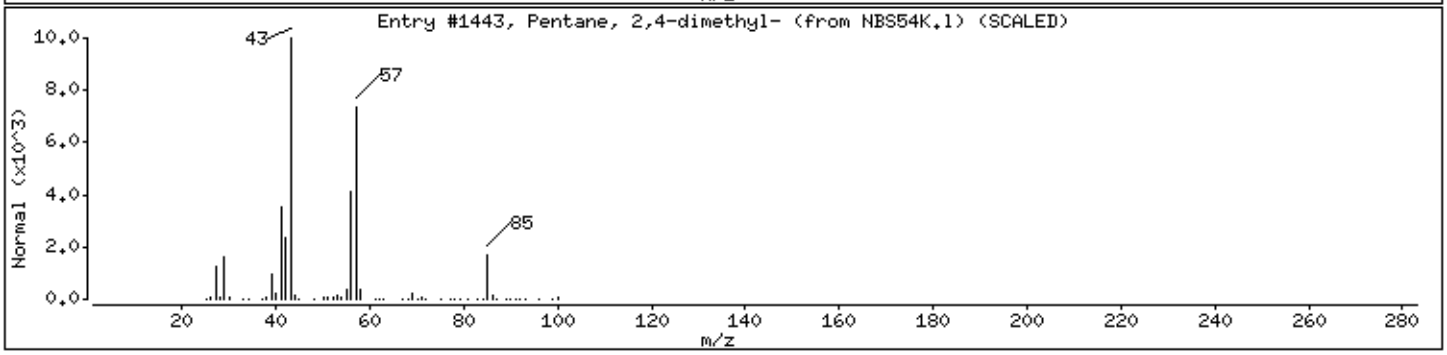
Column diameter: 0.32

| Library Search Compound Match | CAS Number | Library | Entry | Quality | Formula | Weight |
|---|---|---|---|---|---|---|
| Butane, 2,2,3-trimethyl- | 464-06-2 | NBS54K.l | 1448 | 64 | C7H16 | 100 |
| Heptane, 3-methyl- | 589-81-1 | NBS54K.l | 2756 | 64 | C8H18 | 114 |
| Pentane, 2,4-dimethyl- | 108-08-7 | NBS54K.l | 1443 | 50 | C7H16 | 100 |



Data File: /chem/msda.i/31Aug2011.b/a083112.d

Date : 31-AUG-2011 16:25

Client ID:

Instrument: msda.i

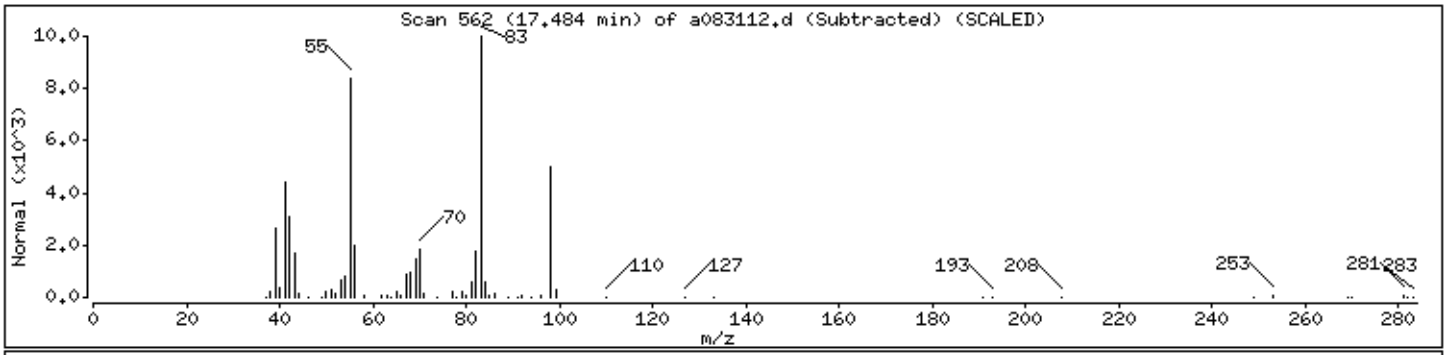
Sample Info: 50mL #34006

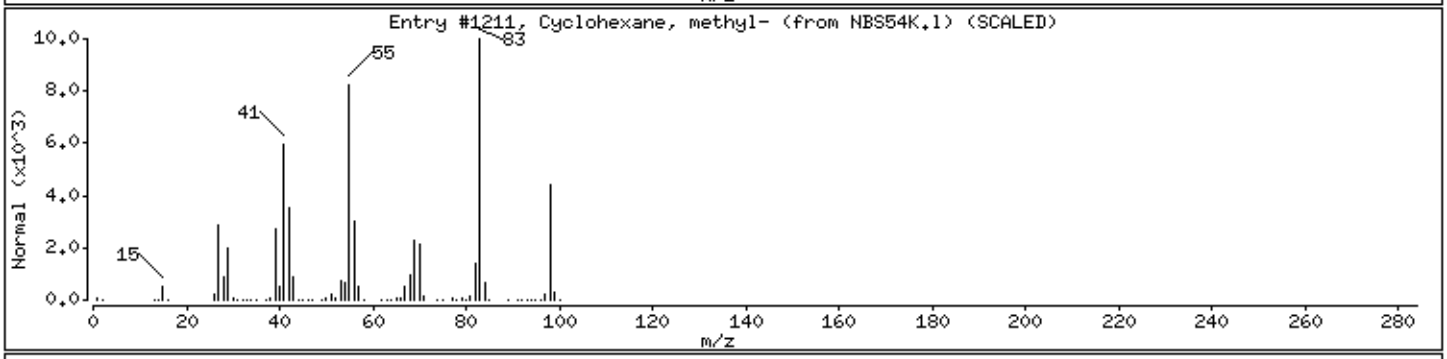
Operator: jc

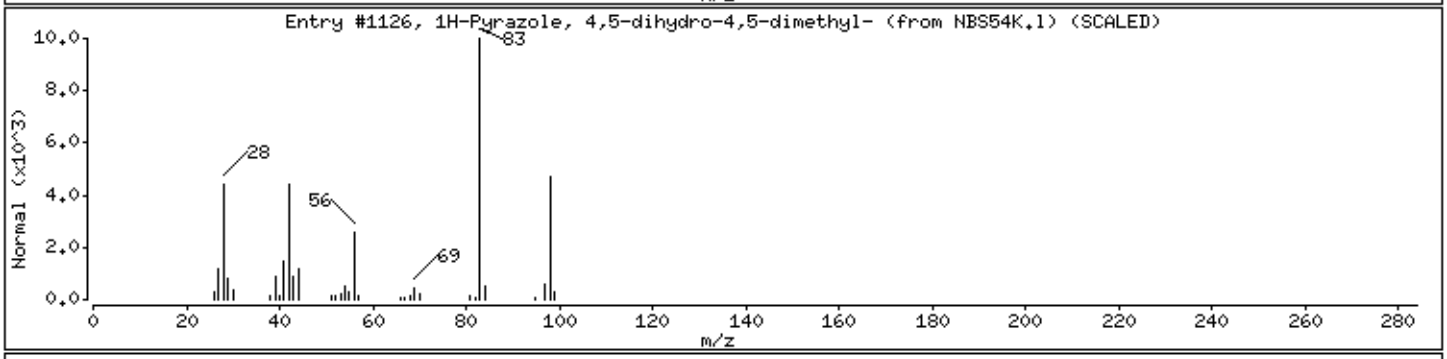
Column phase: RTx-624

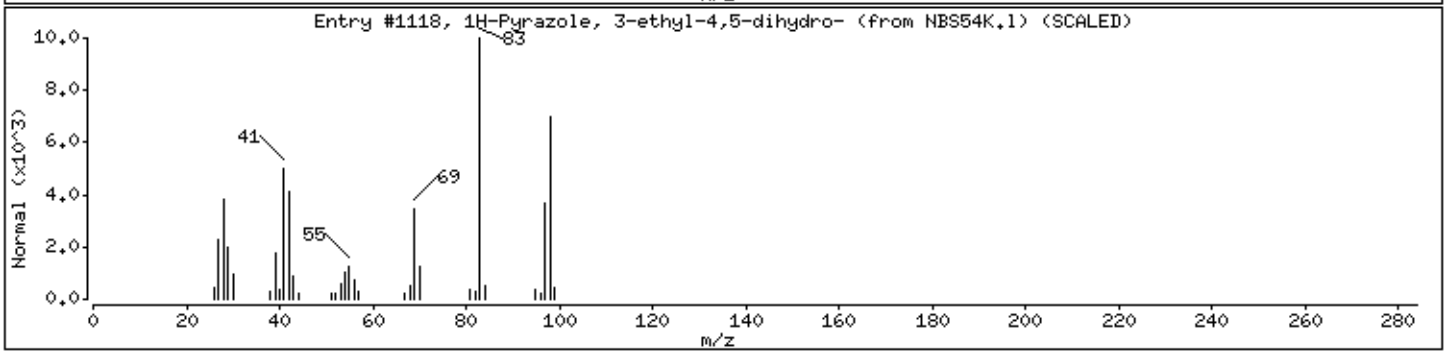
Column diameter: 0.32

| Library Search Compound Match | CAS Number | Library | Entry | Quality | Formula | Weight |
|---|---|---|---|---|---|---|
| Cyclohexane, methyl- | 108-87-2 | NBS54K.l | 1211 | 80 | C7H14 | 98 |
| 1H-Pyrazole, 4,5-dihydro-4,5-dimethyl- | 28019-94-5 | NBS54K.l | 1126 | 59 | C5H10N2 | 98 |
| 1H-Pyrazole, 3-ethyl-4,5-dihydro- | 5920-29-6 | NBS54K.l | 1118 | 58 | C5H10N2 | 98 |



Data File: /chem/msda.i/31Aug2011.b/a083112.d

Date : 31-AUG-2011 16:25

Client ID:

Instrument: msda.i

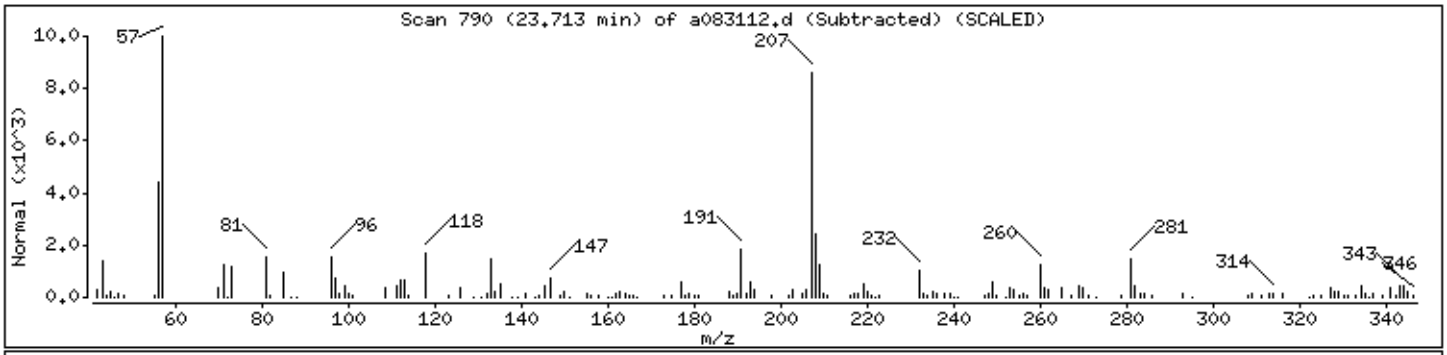
Sample Info: 50mL #34006

Operator: jc

Column phase: RTx-624

Column diameter: 0.32

| Library Search Compound Match | CAS Number | Library | Entry | Quality | Formula | Weight |
|---|---|---|---|---|---|---|
| Unknown | | | 0 | 0 | | 0 |



Data File: /chem/msda.i/31Aug2011.b/a083112.d

Date : 31-AUG-2011 16:25

Client ID:

Instrument: msda.i

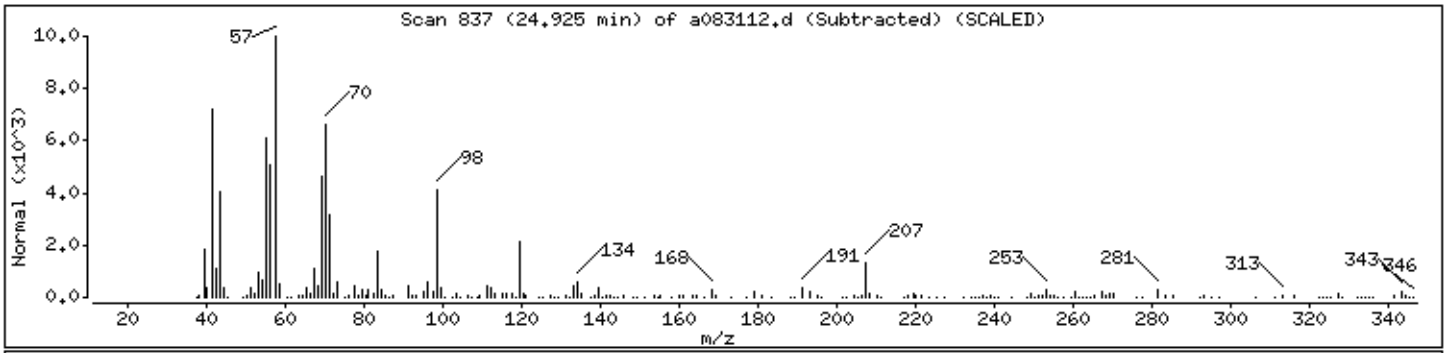
Sample Info: 50mL #34006

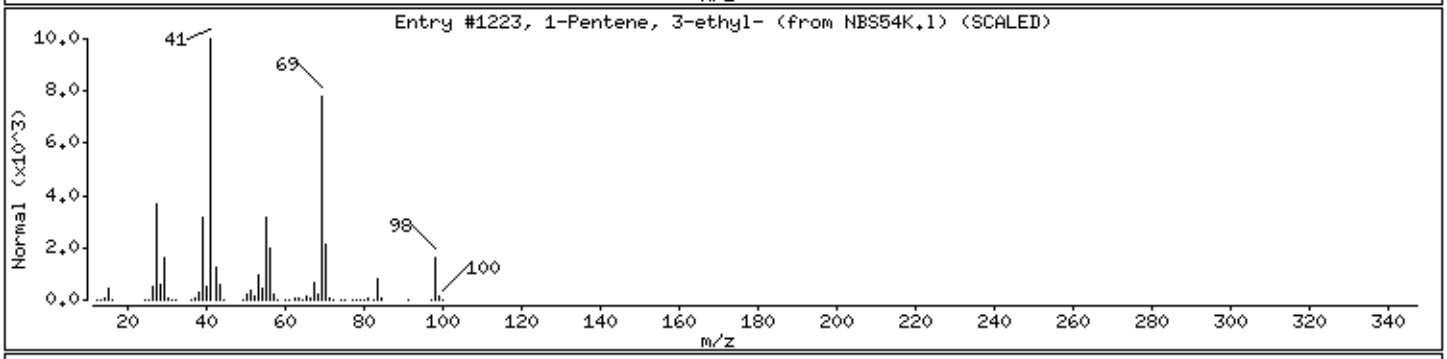
Operator: jc

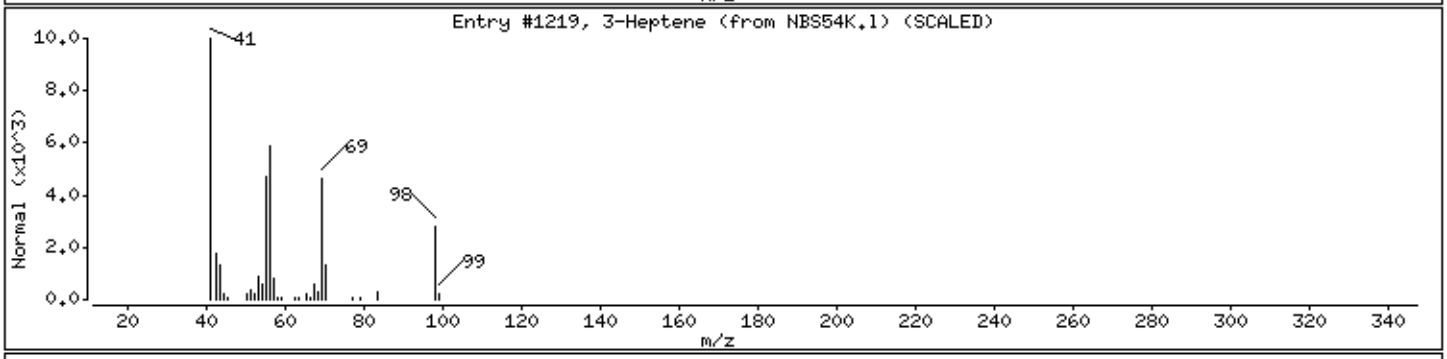
Column phase: RTx-624

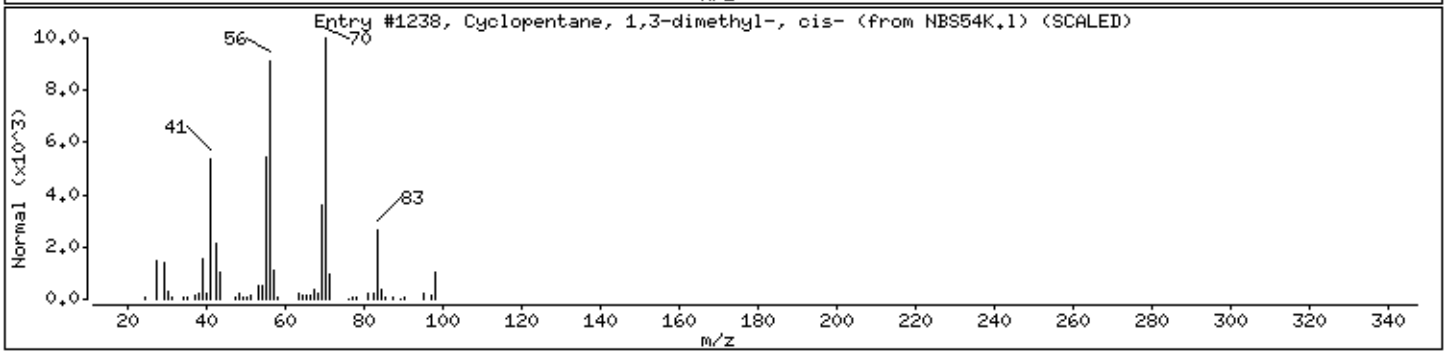
Column diameter: 0.32

| Library Search Compound Match | CAS Number | Library | Entry | Quality | Formula | Weight |
|---|---|---|---|---|---|---|
| 1-Pentene, 3-ethyl- | 4038-04-4 | NBS54K.l | 1223 | 47 | C7H14 | 98 |
| 3-Heptene | 592-78-9 | NBS54K.l | 1219 | 46 | C7H14 | 98 |
| Cyclopentane, 1,3-dimethyl-, cis- | 2532-58-3 | NBS54K.l | 1238 | 38 | C7H14 | 98 |



Air Toxics LTD.
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# Summary of Detected Compounds
# MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

**Client Sample ID: SG-10**

**Lab ID#: 1108582-03A**

| Compound | Rpt. Limit (ppbv) | Amount (ppbv) | Rpt. Limit (ug/m3) | Amount (ug/m3) |
|---|---|---|---|---|
| Freon 12 | 0.34 | 0.57 | 1.7 | 2.8 |
| Chloromethane | 0.34 | 0.45 | 0.69 | 0.93 |
| Ethanol | 1.7 | 13 J | 3.2 | 25 J |
| Acetone | 1.7 | 980 E | 4.0 | 2300 E |
| 2-Propanol | 1.7 | 4.8 | 4.1 | 12 |
| Hexane | 0.34 | 0.89 | 1.2 | 3.2 |
| 2-Butanone (Methyl Ethyl Ketone) | 1.7 | 10 | 5.0 | 30 |
| Chloroform | 0.34 | 1.6 | 1.6 | 7.8 |
| 1,1,1-Trichloroethane | 0.34 | 0.66 | 1.8 | 3.6 |
| Cyclohexane | 0.34 | 0.37 | 1.2 | 1.3 |
| Benzene | 0.34 | 2.3 | 1.1 | 7.5 |
| Heptane | 0.34 | 1.1 | 1.4 | 4.7 |
| Toluene | 0.34 | 9.2 | 1.3 | 35 |
| Tetrachloroethene | 0.34 | 19 | 2.3 | 130 |
| 2-Hexanone | 1.7 | 1.8 | 6.9 | 7.6 |
| Ethyl Benzene | 0.34 | 3.8 | 1.4 | 16 |
| m,p-Xylene | 0.34 | 11 | 1.4 | 50 |
| o-Xylene | 0.34 | 2.9 | 1.4 | 13 |
| Styrene | 0.34 | 0.72 | 1.4 | 3.1 |
| 4-Ethyltoluene | 0.34 | 1.0 | 1.6 | 5.0 |
| 1,3,5-Trimethylbenzene | 0.34 | 0.42 | 1.6 | 2.0 |
| 1,2,4-Trimethylbenzene | 0.34 | 0.95 | 1.6 | 4.7 |

**TENTATIVELY IDENTIFIED COMPOUNDS**

| Compound | CAS Number | Match Quality | Amount (ppbv) |
|---|---|---|---|
| Cyclopropanecarboxylic acid | 1759-53-1 | 64% | 13 NJ |
| 1-Butene | 106-98-9 | 80% | 130 NJ |
| Acetaldehyde | 75-07-0 | 86% | 18 NJ |
| Butanal | 123-72-8 | 58% | 16 NJ |
| Pentanal | 110-62-3 | 59% | 17 NJ |
| 2-Heptanone | 110-43-0 | 91% | 21 NJ |
| .alpha.-Pinene | 80-56-8 | 95% | 12 NJ |

Air Toxics LTD.
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# Summary of Detected Compounds
# MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

**Client Sample ID: SG-10**

**Lab ID#: 1108582-03A**

**TENTATIVELY IDENTIFIED COMPOUNDS**

| Compound | CAS Number | Match Quality | Amount (ppbv) |
|---|---|---|---|
| Hexane, 3,3-dimethyl- | 563-16-6 | 64% | 16 NJ |
| Octane, 2,2,6-trimethyl- | 62016-28-8 | 59% | 25 NJ |
| Unknown | NA | NA | 19 J |

Air Toxics LTD.
Laboratory Services Since 1989

**Client Sample ID: SG-10**

**Lab ID#: 1108582-03A**

**MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN**

| | | | |
|---|---|---|---|
| **File Name:** | **a083113** | **Date of Collection:** | **8/25/11 9:30:00 AM** |
| **Dil. Factor:** | **3.36** | **Date of Analysis:** | **8/31/11 05:22 PM** |

| Compound | Rpt. Limit (ppbv) | Amount (ppbv) | Rpt. Limit (ug/m3) | Amount (ug/m3) |
|---|---|---|---|---|
| Freon 12 | 0.34 | 0.57 | 1.7 | 2.8 |
| Freon 114 | 0.34 | Not Detected | 2.3 | Not Detected |
| Chloromethane | 0.34 | 0.45 | 0.69 | 0.93 |
| Vinyl Chloride | 0.34 | Not Detected | 0.86 | Not Detected |
| 1,3-Butadiene | 0.34 | Not Detected | 0.74 | Not Detected |
| Bromomethane | 0.34 | Not Detected | 1.3 | Not Detected |
| Chloroethane | 1.7 | Not Detected | 4.4 | Not Detected |
| Freon 11 | 0.34 | Not Detected | 1.9 | Not Detected |
| Ethanol | 1.7 | 13 J | 3.2 | 25 J |
| Freon 113 | 0.34 | Not Detected | 2.6 | Not Detected |
| 1,1-Dichloroethene | 0.34 | Not Detected | 1.3 | Not Detected |
| Acetone | 1.7 | 980 E | 4.0 | 2300 E |
| 2-Propanol | 1.7 | 4.8 | 4.1 | 12 |
| Carbon Disulfide | 1.7 | Not Detected | 5.2 | Not Detected |
| 3-Chloropropene | 1.7 | Not Detected | 5.2 | Not Detected |
| Methylene Chloride | 0.67 | Not Detected | 2.3 | Not Detected |
| Methyl tert-butyl ether | 0.34 | Not Detected | 1.2 | Not Detected |
| trans-1,2-Dichloroethene | 0.34 | Not Detected | 1.3 | Not Detected |
| Hexane | 0.34 | 0.89 | 1.2 | 3.2 |
| 1,1-Dichloroethane | 0.34 | Not Detected | 1.4 | Not Detected |
| 2-Butanone (Methyl Ethyl Ketone) | 1.7 | 10 | 5.0 | 30 |
| cis-1,2-Dichloroethene | 0.34 | Not Detected | 1.3 | Not Detected |
| Tetrahydrofuran | 1.7 | Not Detected | 5.0 | Not Detected |
| Chloroform | 0.34 | 1.6 | 1.6 | 7.8 |
| 1,1,1-Trichloroethane | 0.34 | 0.66 | 1.8 | 3.6 |
| Cyclohexane | 0.34 | 0.37 | 1.2 | 1.3 |
| Carbon Tetrachloride | 0.34 | Not Detected | 2.1 | Not Detected |
| 2,2,4-Trimethylpentane | 1.7 | Not Detected | 7.8 | Not Detected |
| Benzene | 0.34 | 2.3 | 1.1 | 7.5 |
| 1,2-Dichloroethane | 0.34 | Not Detected | 1.4 | Not Detected |
| Heptane | 0.34 | 1.1 | 1.4 | 4.7 |
| Trichloroethene | 0.34 | Not Detected | 1.8 | Not Detected |
| 1,2-Dichloropropane | 0.34 | Not Detected | 1.6 | Not Detected |
| 1,4-Dioxane | 0.34 | Not Detected | 1.2 | Not Detected |
| Bromodichloromethane | 0.34 | Not Detected | 2.2 | Not Detected |
| cis-1,3-Dichloropropene | 0.34 | Not Detected | 1.5 | Not Detected |
| 4-Methyl-2-pentanone | 0.34 | Not Detected | 1.4 | Not Detected |
| Toluene | 0.34 | 9.2 | 1.3 | 35 |
| trans-1,3-Dichloropropene | 0.34 | Not Detected | 1.5 | Not Detected |
| 1,1,2-Trichloroethane | 0.34 | Not Detected | 1.8 | Not Detected |
| Tetrachloroethene | 0.34 | 19 | 2.3 | 130 |

Air Toxics LTD.
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**Client Sample ID: SG-10**

**Lab ID#: 1108582-03A**

**MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN**

| | | | |
|---|---|---|---|
| **File Name:** | **a083113** | **Date of Collection:** | **8/25/11 9:30:00 AM** |
| **Dil. Factor:** | **3.36** | **Date of Analysis:** | **8/31/11 05:22 PM** |

| Compound | Rpt. Limit (ppbv) | Amount (ppbv) | Rpt. Limit (ug/m3) | Amount (ug/m3) |
|---|---|---|---|---|
| 2-Hexanone | 1.7 | 1.8 | 6.9 | 7.6 |
| Dibromochloromethane | 0.34 | Not Detected | 2.9 | Not Detected |
| 1,2-Dibromoethane (EDB) | 0.34 | Not Detected | 2.6 | Not Detected |
| Chlorobenzene | 0.34 | Not Detected | 1.5 | Not Detected |
| Ethyl Benzene | 0.34 | 3.8 | 1.4 | 16 |
| m,p-Xylene | 0.34 | 11 | 1.4 | 50 |
| o-Xylene | 0.34 | 2.9 | 1.4 | 13 |
| Styrene | 0.34 | 0.72 | 1.4 | 3.1 |
| Bromoform | 0.34 | Not Detected | 3.5 | Not Detected |
| Cumene | 0.34 | Not Detected | 1.6 | Not Detected |
| 1,1,2,2-Tetrachloroethane | 0.34 | Not Detected | 2.3 | Not Detected |
| Propylbenzene | 0.34 | Not Detected | 1.6 | Not Detected |
| 4-Ethyltoluene | 0.34 | 1.0 | 1.6 | 5.0 |
| 1,3,5-Trimethylbenzene | 0.34 | 0.42 | 1.6 | 2.0 |
| 1,2,4-Trimethylbenzene | 0.34 | 0.95 | 1.6 | 4.7 |
| 1,3-Dichlorobenzene | 0.34 | Not Detected | 2.0 | Not Detected |
| 1,4-Dichlorobenzene | 0.34 | Not Detected | 2.0 | Not Detected |
| alpha-Chlorotoluene | 0.34 | Not Detected | 1.7 | Not Detected |
| 1,2-Dichlorobenzene | 0.34 | Not Detected | 2.0 | Not Detected |
| 1,2,4-Trichlorobenzene | 1.7 | Not Detected | 12 | Not Detected |
| Hexachlorobutadiene | 1.7 | Not Detected | 18 | Not Detected |
| 2,3-Dimethylpentane | 1.7 | Not Detected | 6.9 | Not Detected |
| 2-Methylpentane | 1.7 | Not Detected | 5.9 | Not Detected |
| Indene | 1.7 | Not Detected | 8.0 | Not Detected |
| Indan | 1.7 | Not Detected | 8.1 | Not Detected |
| Isopentane | 1.7 | Not Detected | 5.0 | Not Detected |
| Naphthalene | 1.7 | Not Detected | 8.8 | Not Detected |
| Thiophene | 1.7 | Not Detected | 5.8 | Not Detected |

J = Estimated value due to bias in the CCV.
E = Exceeds instrument calibration range.

**TENTATIVELY IDENTIFIED COMPOUNDS**

| Compound | CAS Number | Match Quality | Amount ((ppbv)) |
|---|---|---|---|
| Cyclopropanecarboxylic acid | 1759-53-1 | 64% | 13 NJ |
| 1-Butene | 106-98-9 | 80% | 130 NJ |
| Acetaldehyde | 75-07-0 | 86% | 18 NJ |
| Butanal | 123-72-8 | 58% | 16 NJ |
| Pentanal | 110-62-3 | 59% | 17 NJ |
| 2-Heptanone | 110-43-0 | 91% | 21 NJ |
| .alpha.-Pinene | 80-56-8 | 95% | 12 NJ |

Air Toxics LTD.
Laboratory Services Since 1989

**Client Sample ID: SG-10**

**Lab ID#: 1108582-03A**

**MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN**

| | | | |
|---|---|---|---|
| **File Name:** | **a083113** | **Date of Collection: 8/25/11 9:30:00 AM** | |
| **Dil. Factor:** | **3.36** | **Date of Analysis: 8/31/11 05:22 PM** | |

**TENTATIVELY IDENTIFIED COMPOUNDS**

| Compound | CAS Number | Match Quality | Amount ((ppbv)) |
|---|---|---|---|
| Hexane, 3,3-dimethyl- | 563-16-6 | 64% | 16 NJ |
| Octane, 2,2,6-trimethyl- | 62016-28-8 | 59% | 25 NJ |
| Unknown | NA | NA | 19 J |

NJ =The identification is based on presumptive evidence; estimated value.

**Container Type: 6 Liter Summa Special (100% Certified)**

| Surrogates | %Recovery | Method Limits |
|---|---|---|
| 1,2-Dichloroethane-d4 | 106 | 70-130 |
| Toluene-d8 | 104 | 70-130 |
| 4-Bromofluorobenzene | 122 | 70-130 |

Air Toxics Ltd.

AMBIENT AIR METHOD TO14/TO15

Data file : /chem/msda.i/31Aug2011.b/a083113.d
Lab Smp Id: 1108582-03A
Inj Date : 31-AUG-2011 17:22
Operator : jc Inst ID: msda.i
Smp Info : 125mL #33325
Misc Info : 6.0"Hg-5psi
Comment :
Method : /chem/msda.i/31Aug2011.b/a11l0818b.m
Meth Date : 13-Sep-2011 12:21 ejakob Quant Type: ISTD
Cal Date : 31-AUG-2011 11:39 Cal File: a083106.d
Als bottle: 28
Dil Factor: 3.36000
Integrator: HP RTE Compound Sublist: Par16136.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

| | | | | CONCENTRATIONS ON-COL | FINAL | | |
|---|---|---|---|---|---|---|---|
| RT | EXP RT (REL RT) | MASS | RESPONSE | ( PPBV) | ( PPBV) | TARGET RANGE | RATIO |
| * 52 Bromochloromethane | | | | | | CAS #: 74-97-5 | |
| 15.406 | 15.406 (1.000) | 130 | 168175 | 10.0000 | | 80.00- 120.00 | 100.00 |
| 15.406 | 15.406 (1.000) | 128 | 129868 | | | 0.00- 30.00 | 77.22 |
| 15.406 | 15.406 (1.000) | 49 | 295956 | | | 0.00- 30.00 | 175.98 |
| * 66 1,4-Difluorobenzene | | | | | | CAS #: 540-36-3 | |
| 16.825 | 16.825 (1.000) | 114 | 819309 | 10.0000 | | 80.00- 120.00 | 100.00 |
| 16.825 | 16.825 (1.000) | 88 | 136867 | | | 0.00- 30.00 | 16.71 |
| * 88 Chlorobenzene-d5 | | | | | | CAS #: 3114-55-4 | |
| 21.614 | 21.614 (1.000) | 117 | 636715 | 10.0000 | | 80.00- 120.00 | 100.00 |
| 21.614 | 21.614 (1.000) | 82 | 382348 | | | 0.00- 30.00 | 60.05 |
| $ 61 1,2-Dichloroethane-d4 | | | | | | CAS #: 17060-07-0 | |
| 16.248 | 16.248 (1.055) | 65 | 320281 | 10.5833 | 10.583 | 80.00- 120.00 | 100.00 |
| 16.248 | 16.248 (1.055) | 67 | 162020 | | | 21.17- 81.17 | 50.59 |
| $ 80 Toluene-d8 | | | | | | CAS #: 2037-26-5 | |
| 19.389 | 19.411 (1.152) | 98 | 829948 | 10.4202 | 10.420 | 80.00- 120.00 | 100.00 |
| 19.389 | 19.411 (1.152) | 70 | 106443 | | | 0.00- 41.96 | 12.83 |

| RT | EXP RT (REL RT) | MASS | RESPONSE | CONCENTRATIONS ON-COL ( PPBV) | CONCENTRATIONS FINAL ( PPBV) | TARGET RANGE | RATIO |
|---|---|---|---|---|---|---|---|
| $ 80 Toluene-d8 (continued) | | | | | | | |
| 19.389 | 19.411 (1.152) | 100 | 550749 | | | 36.91- 96.91 | 66.36 |
| $ 100 Bromofluorobenzene | | | | | CAS #: 460-00-4 | | |
| 23.068 | 23.068 (1.067) | 174 | 403184 | 12.1576 | 12.158 | 80.00- 120.00 | 100.00 |
| 23.068 | 23.068 (1.067) | 95 | 579074 | | | 114.98- 174.98 | 143.63 |
| 23.068 | 23.068 (1.067) | 176 | 385799 | | | 67.23- 127.23 | 95.69 |
| 4 Dichlorodifluoromethane/Fr12 | | | | | CAS #: 75-71-8 | | |
| 5.589 | 5.613 (0.363) | 85 | 18640 | 0.16870 | 0.5668 | 80.00- 120.00 | 100.00 |
| 5.613 | 5.613 (0.364) | 87 | 5887 | | | 2.29- 62.29 | 31.58 |
| 7 Chloromethane | | | | | CAS #: 74-87-3 | | |
| 7.276 | 7.276 (0.472) | 50 | 5422 | 0.13353 | 0.4487 | 80.00- 120.00 | 100.00 |
| 7.276 | 7.276 (0.472) | 52 | 1587 | | | 2.29- 62.29 | 29.27 |
| 20 Ethanol | | | | | CAS #: 64-17-5 | | |
| 11.690 | 11.690 (0.759) | 45 | 24174 | 3.96756 | 13.331 | 80.00- 120.00 | 100.00 |
| 11.690 | 11.690 (0.759) | 43 | 7909 | | | 0.00- 57.08 | 32.72 |
| 11.690 | 11.690 (0.759) | 46 | 8904 | | | 10.87- 70.87 | 36.83 |
| 24 Acetone | | | | | CAS #: 67-64-1 | | |
| 12.416 | 12.416 (0.806) | 58 | 6390404 | 292.137 | 981.58 | 80.00- 120.00 | 100.00(A) |
| 12.416 | 12.416 (0.806) | 43 | 19914398 | | | 283.54- 343.54 | 311.63 |
| 27 2-Propanol | | | | | CAS #: 67-63-0 | | |
| 12.727 | 12.727 (0.826) | 45 | 144933 | 1.43506 | 4.822 | 80.00- 120.00 | 100.00 |
| 12.706 | 12.727 (0.825) | 43 | 42807 | | | 0.00- 49.76 | 29.54 |
| 12.727 | 12.727 (0.826) | 59 | 4597 | | | 0.00- 34.09 | 3.17 |
| 40 Hexane | | | | | CAS #: 110-54-3 | | |
| 13.819 | 13.819 (0.897) | 57 | 22400 | 0.26615 | 0.8943 | 80.00- 120.00 | 100.00 |
| 13.819 | 13.819 (0.897) | 43 | 14713 | | | 33.38- 93.38 | 65.68 |
| 13.819 | 13.819 (0.897) | 86 | 3600 | | | 0.00- 46.43 | 16.07 |
| 48 2-Butanone | | | | | CAS #: 78-93-3 | | |
| 15.065 | 15.065 (0.978) | 72 | 77020 | 3.07239 | 10.323 | 80.00- 120.00 | 100.00 |
| 15.065 | 15.065 (0.978) | 43 | 527299 | | | 298.82- 358.82 | 684.63 |
| 15.065 | 15.065 (0.978) | 57 | 26846 | | | 0.00- 56.09 | 34.86 |
| 53 Chloroform | | | | | CAS #: 67-66-3 | | |
| 15.467 | 15.467 (1.004) | 83 | 45770 | 0.47857 | 1.608 | 80.00- 120.00 | 100.00 |
| 15.467 | 15.467 (1.004) | 85 | 34440 | | | 34.45- 94.45 | 75.25 |
| 55 Cyclohexane | | | | | CAS #: 110-82-7 | | |
| 15.714 | 15.714 (1.020) | 84 | 7766 | 0.11065 | 0.3718 | 80.00- 120.00 | 100.00 |

| RT | EXP RT (REL RT) | MASS | RESPONSE | CONCENTRATIONS ON-COL ( PPBV) | CONCENTRATIONS FINAL ( PPBV) | TARGET RANGE | RATIO |
|---|---|---|---|---|---|---|---|
| 55 Cyclohexane (continued) | | | | | | | |
| 15.714 | 15.714 (1.020) | 56 | 12518 | | | 97.99- 157.99 | 161.19 |
| 15.714 | 15.714 (1.020) | 41 | 7533 | | | 37.94- 97.94 | 97.00 |
| 56 1,1,1-Trichloroethane | | | | | CAS #: 71-55-6 | | |
| 15.714 | 15.714 (1.020) | 97 | 20120 | 0.19691 | 0.6616 | 80.00- 120.00 | 100.00 |
| 15.714 | 15.714 (1.020) | 99 | 12891 | | | 34.37- 94.37 | 64.07 |
| 60 Benzene | | | | | CAS #: 71-43-2 | | |
| 16.248 | 16.248 (0.966) | 78 | 106033 | 0.69679 | 2.341 | 80.00- 120.00 | 100.00 |
| 16.248 | 16.248 (0.966) | 77 | 25243 | | | 0.00- 53.14 | 23.81 |
| 64 Heptane | | | | | CAS #: 142-82-5 | | |
| 16.413 | 16.413 (0.976) | 57 | 17212 | 0.33937 | 1.140 | 80.00- 120.00 | 100.00 |
| 16.413 | 16.413 (0.976) | 100 | 4247 | | | 11.16- 71.16 | 24.67 |
| 16.413 | 16.413 (0.976) | 43 | 31973 | | | 158.27- 218.27 | 185.76 |
| 81 Toluene | | | | | CAS #: 108-88-3 | | |
| 19.523 | 19.524 (1.160) | 91 | 479502 | 2.75520 | 9.257 | 80.00- 120.00 | 100.00 |
| 19.523 | 19.524 (1.160) | 92 | 285946 | | | 30.18- 90.18 | 59.63 |
| 84 Tetrachloroethene | | | | | CAS #: 127-18-4 | | |
| 20.365 | 20.365 (0.942) | 166 | 383909 | 5.58320 | 18.760 | 80.00- 120.00 | 100.00 |
| 20.333 | 20.365 (0.941) | 129 | 301759 | | | 48.84- 108.84 | 78.60 |
| 20.333 | 20.365 (0.941) | 131 | 286593 | | | 46.09- 106.09 | 74.65 |
| 85 2-Hexanone | | | | | CAS #: 591-78-6 | | |
| 20.495 | 20.495 (0.948) | 58 | 33004 | 0.55207 | 1.855 | 80.00- 120.00 | 100.00 |
| 20.495 | 20.495 (0.948) | 43 | 66068 | | | 132.91- 192.91 | 200.18 |
| 20.495 | 20.495 (0.948) | 100 | 5526 | | | 0.00- 49.97 | 16.74 |
| 91 Ethyl Benzene | | | | | CAS #: 100-41-4 | | |
| 21.711 | 21.711 (1.004) | 106 | 70174 | 1.13008 | 3.797 | 80.00- 120.00 | 100.00 |
| 21.711 | 21.711 (1.004) | 91 | 229203 | | | 291.22- 351.22 | 326.62 |
| 93 m,p-Xylene | | | | | CAS #: 108-38-3 | | |
| 21.855 | 21.855 (1.011) | 106 | 231514 | 3.40964 | 11.456 | 80.00- 120.00 | 100.00 |
| 21.855 | 21.855 (1.011) | 91 | 466566 | | | 173.15- 233.15 | 201.53 |
| 94 o-Xylene | | | | | CAS #: 95-47-6 | | |
| 22.385 | 22.385 (1.036) | 106 | 57013 | 0.87271 | 2.932 | 80.00- 120.00 | 100.00 |
| 22.385 | 22.385 (1.036) | 91 | 122741 | | | 185.20- 245.20 | 215.29 |
| 95 Styrene | | | | | CAS #: 100-42-5 | | |
| 22.409 | 22.409 (1.037) | 104 | 22876 | 0.21544 | 0.7239 | 80.00- 120.00 | 100.00 |
| 22.409 | 22.409 (1.037) | 78 | 19727 | | | 21.95- 81.95 | 86.23 |

| RT | EXP RT (REL RT) | MASS | RESPONSE | CONCENTRATIONS ON-COL ( PPBV) | FINAL ( PPBV) | TARGET RANGE | RATIO |
|---|---|---|---|---|---|---|---|
| 107 4-Ethyltoluene | | | | | CAS #: 622-96-8 | | |
| 23.377 | 23.403 (1.082) | 105 | 55785 | 0.30120 | 1.012 | 80.00- 120.00 | 100.00 |
| 23.377 | 23.403 (1.082) | 120 | 15352 | | | 0.31- 60.31 | 27.52 |
| 109 1,3,5-Trimethylbenzene | | | | | CAS #: 108-67-8 | | |
| 23.455 | 23.455 (1.085) | 105 | 18236 | 0.12464 | 0.4188 | 80.00- 120.00 | 100.00 |
| 23.455 | 23.455 (1.085) | 120 | 8544 | | | 18.26- 78.26 | 46.85 |
| 112 1,2,4-Trimethylbenzene | | | | | CAS #: 95-63-6 | | |
| 23.893 | 23.893 (1.105) | 105 | 38765 | 0.28388 | 0.9538 | 80.00- 120.00 | 100.00 |
| 23.893 | 23.893 (1.105) | 120 | 16873 | | | 15.25- 75.25 | 43.53 |

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.

Air Toxics Ltd.

AMBIENT AIR METHOD TO14/TO15

Data file : /chem/msda.i/31Aug2011.b/a083113.d
Lab Smp Id: 1108582-03A
Inj Date : 31-AUG-2011 17:22
Operator : jc Inst ID: msda.i
Smp Info : 125mL #33325
Misc Info : 6.0"Hg-5psi
Comment :
Method : /chem/msda.i/31Aug2011.b/a11l0818b.m
Meth Date : 13-Sep-2011 12:21 ejakob Quant Type: ISTD
Cal Date : 31-AUG-2011 11:39 Cal File: a083106.d
Als bottle: 28
Dil Factor: 3.36000
Integrator: HP RTE Compound Sublist: Par16136.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

| ISTD | RT | AREA | AMOUNT |
|---|---|---|---|
| * 52 Bromochloromethane | 15.406 | 1295310 | 10.000 |
| * 66 1,4-Difluorobenzene | 16.825 | 2299320 | 10.000 |
| * 88 Chlorobenzene-d5 | 21.614 | 2814746 | 10.000 |

| | CONCENTRATIONS | | | | QUANT | | |
|---|---|---|---|---|---|---|---|
| RT | AREA | ON-COL( PPBV) | FINAL( PPBV) | QUAL | LIBRARY | LIB ENTRY | CPND # |
| Cyclopropanecarboxylic acid | | | | | CAS #: 1759-53-1 | | |
| 5.131 | 516219 | 3.98529119 | 13.390 | 64 | NBS54K.l | 610 | 52 |
| 1-Butene | | | | | CAS #: 106-98-9 | | |
| 7.902 | 4867236 | 37.5758269 | 126.25 | 80 | NBS54K.l | 80 | 52(L) |
| Acetaldehyde | | | | | CAS #: 75-07-0 | | |
| 8.926 | 679814 | 5.24826717 | 17.634 | 86 | NBS54K.l | 37 | 52 |

| RT | AREA | ON-COL( PPBV) | FINAL( PPBV) | QUAL | LIBRARY | LIB ENTRY | CPND # |
|---|---|---|---|---|---|---|---|
| Butanal | | | | | CAS #: 123-72-8 | | |
| 14.816 | 634571 | 4.89898433 | 16.460 | 58 | NBS54K.l | 257 | 52 |
| Pentanal | | | | | CAS #: 110-62-3 | | |
| 17.731 | 1189637 | 5.17386264 | 17.384 | 59 | NBS54K.l | 647 | 66 |
| 2-Heptanone | | | | | CAS #: 110-43-0 | | |
| 22.482 | 1786384 | 6.34651735 | 21.324 | 91 | NBS54K.l | 2687 | 88 |
| .alpha.-Pinene | | | | | CAS #: 80-56-8 | | |
| 22.758 | 1005957 | 3.57388174 | 12.008 | 95 | NBS54K.l | 5805 | 88(L) |
| Hexane, 3,3-dimethyl- | | | | | CAS #: 563-16-6 | | |
| 23.996 | 1364002 | 4.84591469 | 16.282 | 64 | NBS54K.l | 2752 | 88 |
| Octane, 2,2,6-trimethyl- | | | | | CAS #: 62016-28-8 | | |
| 24.254 | 2072624 | 7.36344886 | 24.741 | 59 | NBS54K.l | 9968 | 88 |
| Unknown | | | | | CAS #: | | |
| 24.925 | 1625277 | 5.77415154 | 19.401 | 0 | 0 | | 88 |

## QC Flag Legend

L - Operator selected an alternate library search match.

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msda.i
Lab File ID: a083113.d
Lab Smp Id: 1108582-03A
Analysis Type: VOA
Quant Type: ISTD
Operator: jc
Method File: /chem/msda.i/31Aug2011.b/a11l0818b.m
Misc Info: 6.0"Hg-5psi

Calibration Date: 31-AUG-2011
Calibration Time: 08:01
Level: LOW
Sample Type: AIR

| | | AREA LIMIT | | | |
|---|---|---|---|---|---|
| COMPOUND | STANDARD | LOWER | UPPER | SAMPLE | %DIFF |
| 52 Bromochloromethan | 206450 | 123870 | 289030 | 168175 | -18.54 |
| 66 1,4-Difluorobenze | 897592 | 538555 | 1256629 | 819309 | -8.72 |
| 88 Chlorobenzene-d5 | 792197 | 475318 | 1109076 | 636715 | -19.63 |

| | | RT LIMIT | | | |
|---|---|---|---|---|---|
| COMPOUND | STANDARD | LOWER | UPPER | SAMPLE | %DIFF |
| 52 Bromochloromethan | 15.41 | 15.08 | 15.74 | 15.41 | 0.00 |
| 66 1,4-Difluorobenze | 16.82 | 16.50 | 17.15 | 16.82 | 0.00 |
| 88 Chlorobenzene-d5 | 21.61 | 21.28 | 21.94 | 21.61 | 0.00 |

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Report Date: 13-Sep-2011 12:22

Air Toxics Ltd.

RECOVERY REPORT

Client Name: Client SDG: 31Aug2011
Sample Matrix: GAS Fraction: VOA
Lab Smp Id: 1108582-03A
Level: LOW Operator: jc
Data Type: MS DATA SampleType: SAMPLE
SpikeList File: AT09.spk Quant Type: ISTD
Sublist File: Par16136.sub
Method File: /chem/msda.i/31Aug2011.b/a11l0818b.m
Misc Info: 6.0"Hg-5psi

| SURROGATE COMPOUND | CONC ADDED PPBV | CONC RECOVERED PPBV | % RECOVERED | LIMITS |
|---|---|---|---|---|
| $ 61 1,2-Dichloroethane | 10.000 | 10.583 | 105.83 | 70-130 |
| $ 80 Toluene-d8 | 10.000 | 10.420 | 104.20 | 70-130 |
| $ 100 Bromofluorobenzene | 10.000 | 12.158 | 121.58 | 70-130 |

+Ù

Data File: /chem/msda.i/31Aug2011.b/a083113.d



Date : 31-AUG-2011 17:22

Client ID:

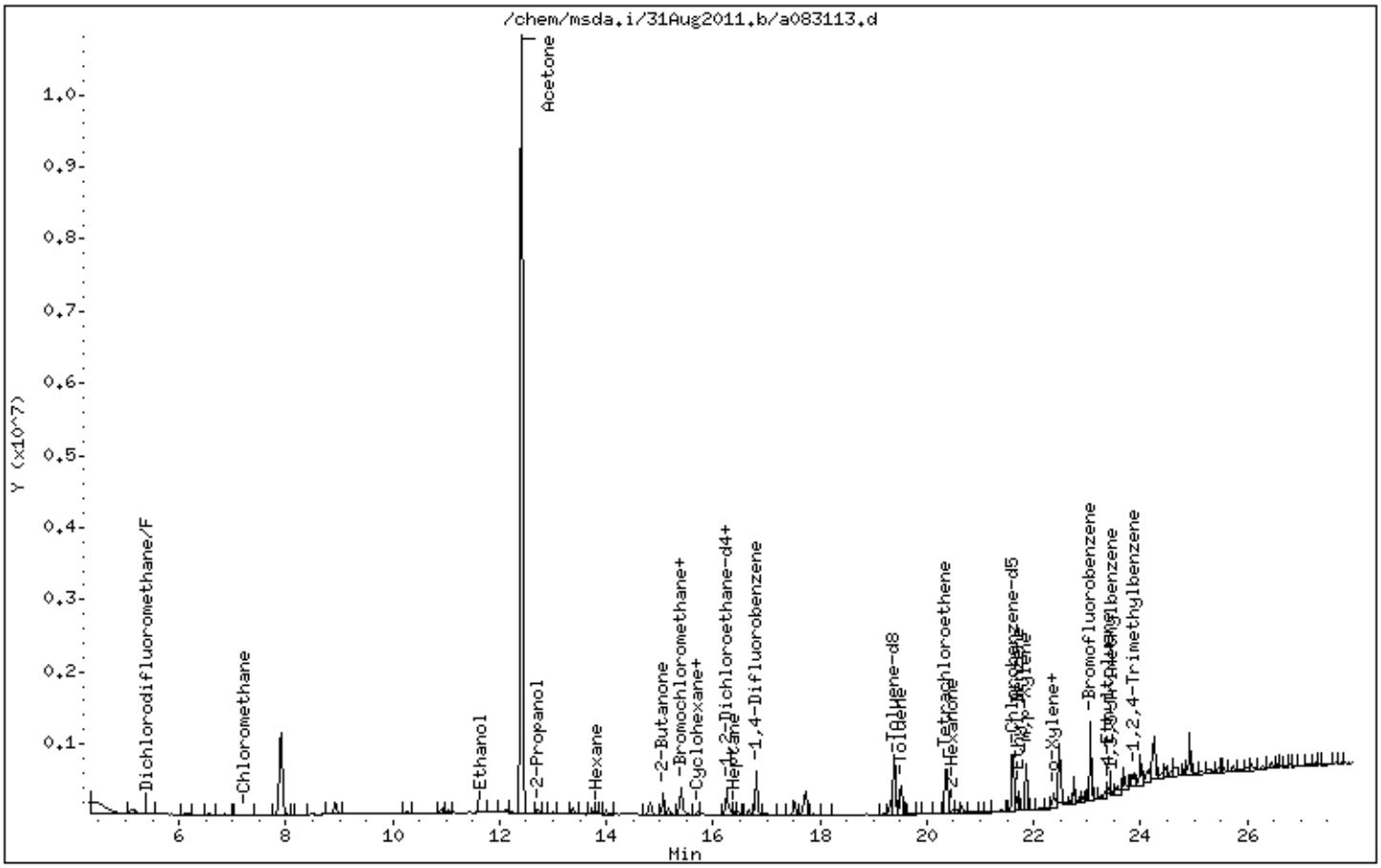
Instrument: msda.i

Sample Info: 125mL #33325

Operator: jc

Column phase: RTx-624

Column diameter: 0.32



Data File: /chem/msda.i/31Aug2011.b/a083113.d

Date : 31-AUG-2011 17:22

Client ID:

Instrument: msda.i

Sample Info: 125mL #33325

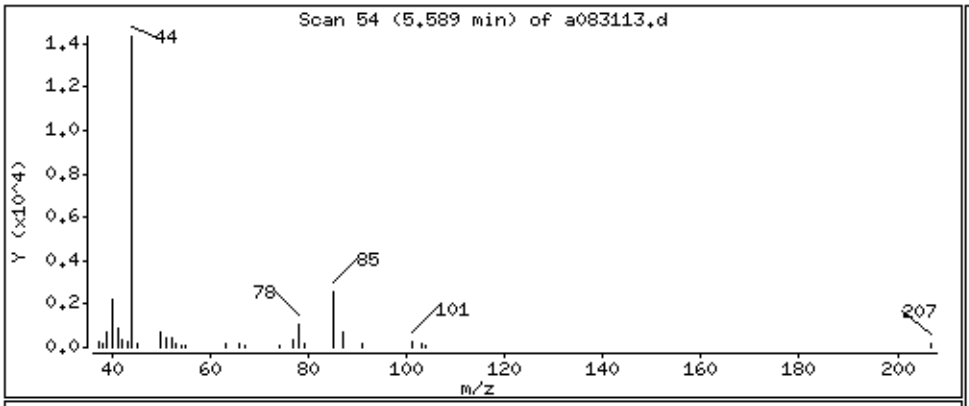
Operator: jc

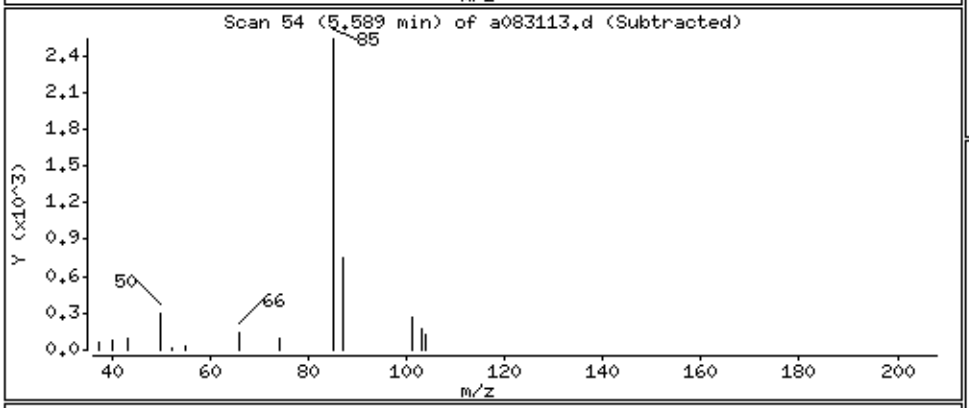
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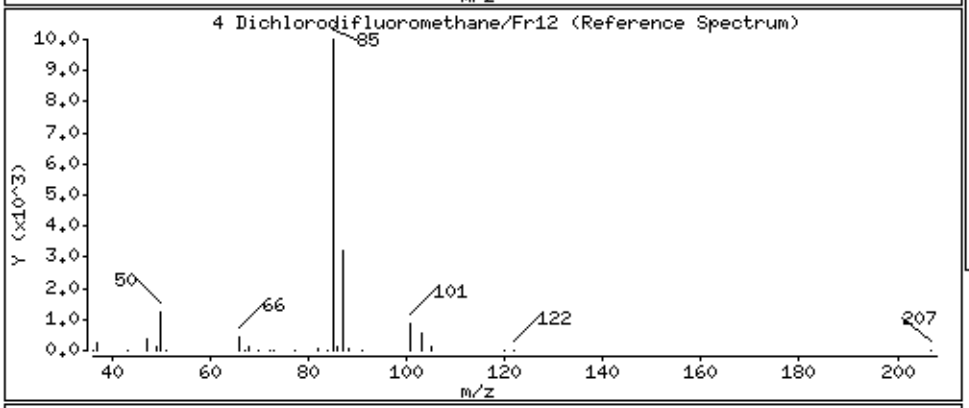
Column diameter: 0.32

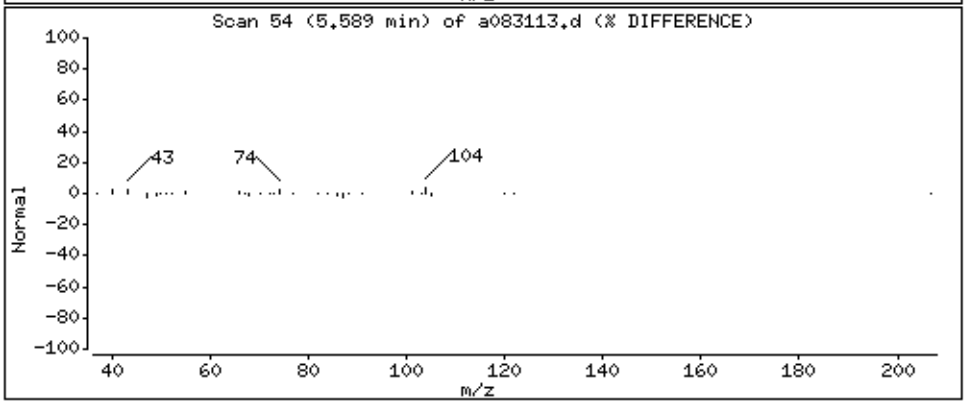
4 Dichlorodifluoromethane/Fr12

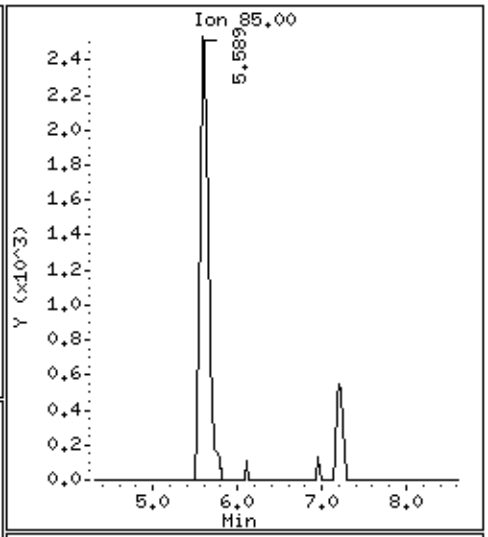
Concentration: 0.5668 PPBV

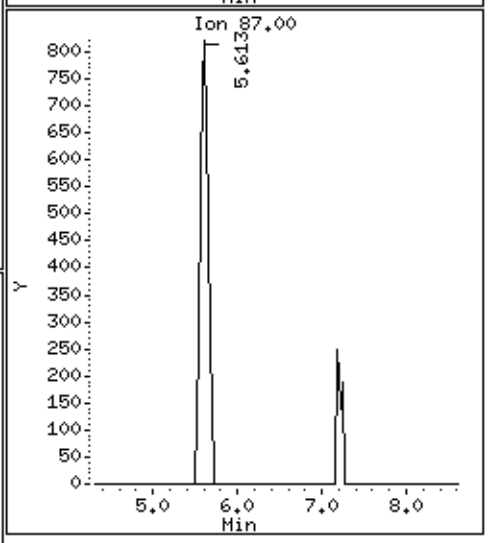


Data File: /chem/msda.i/31Aug2011.b/a083113.d

Date : 31-AUG-2011 17:22

Client ID:

Instrument: msda.i

Sample Info: 125mL #33325

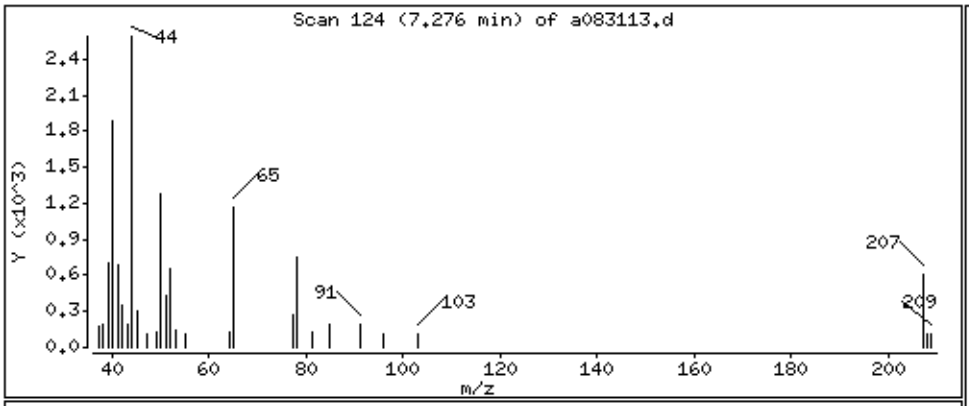
Operator: jc

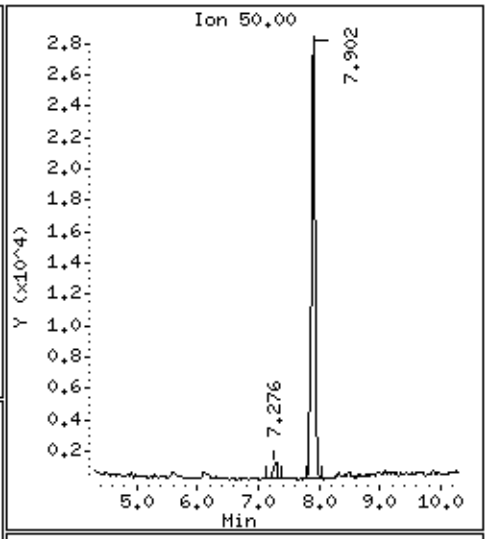
Column phase: RTx-624

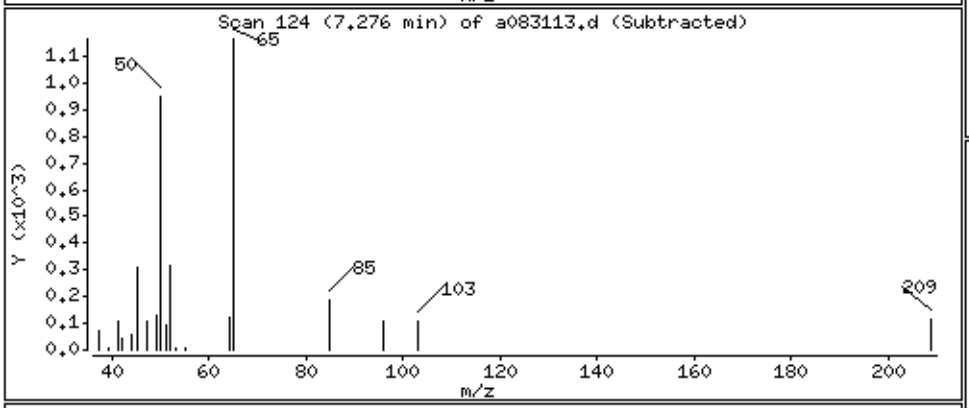
Column diameter: 0.32

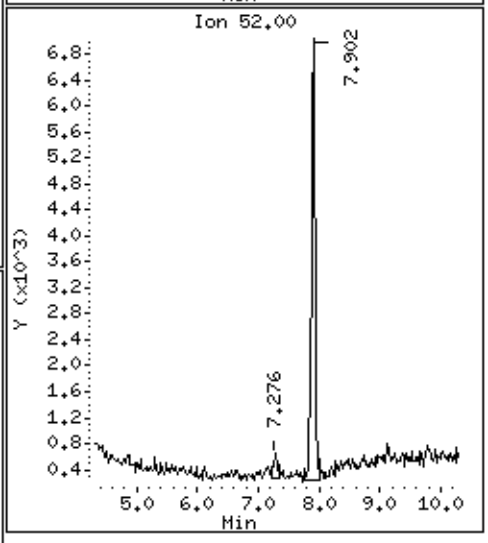
7 Chloromethane

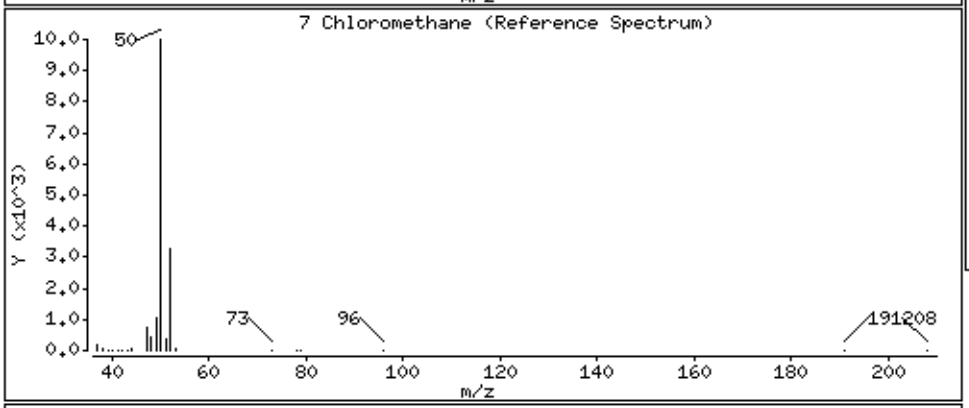
Concentration: 0.4487 PPBV

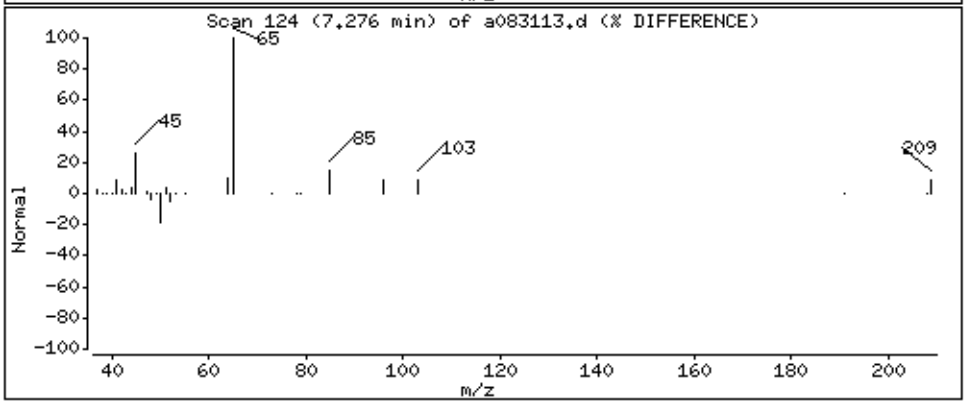


Data File: /chem/msda.i/31Aug2011.b/a083113.d

Date : 31-AUG-2011 17:22

Client ID:

Instrument: msda.i

Sample Info: 125mL #33325

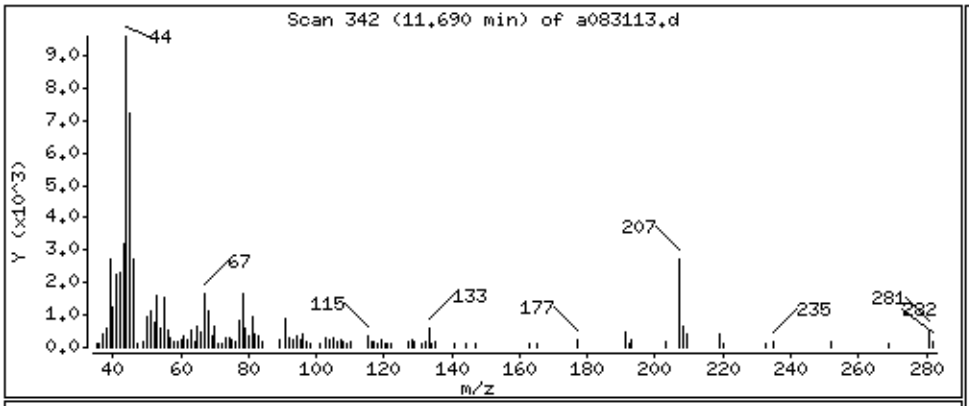
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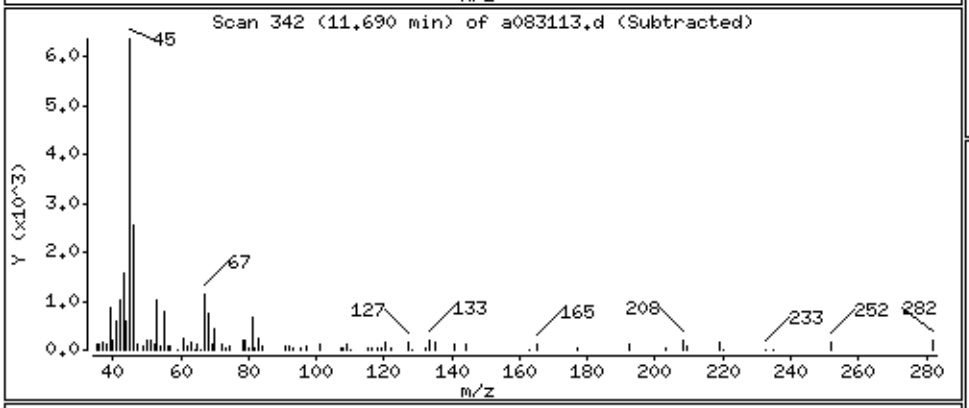
Column phase: RTx-624

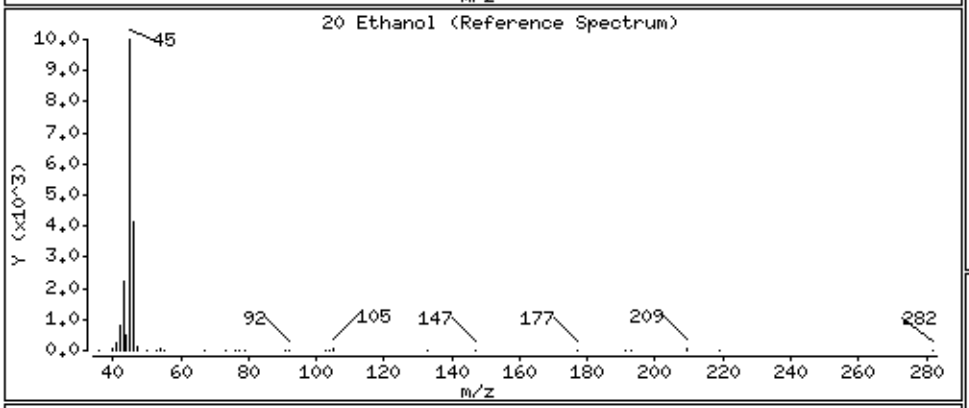
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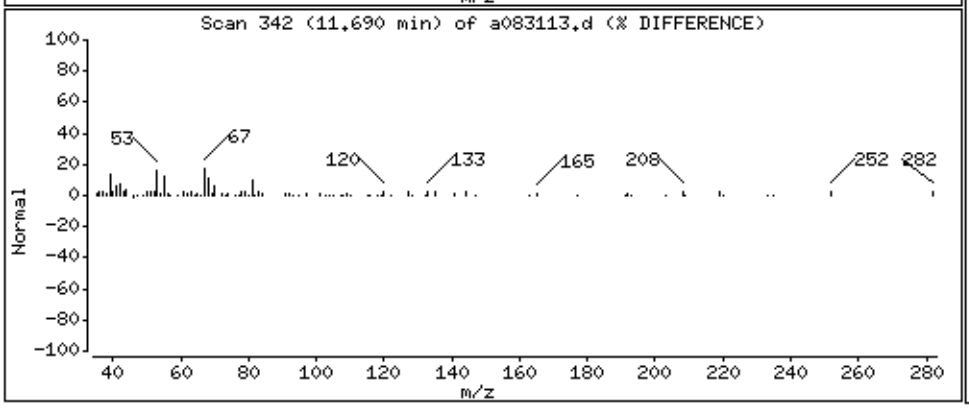
20 Ethanol

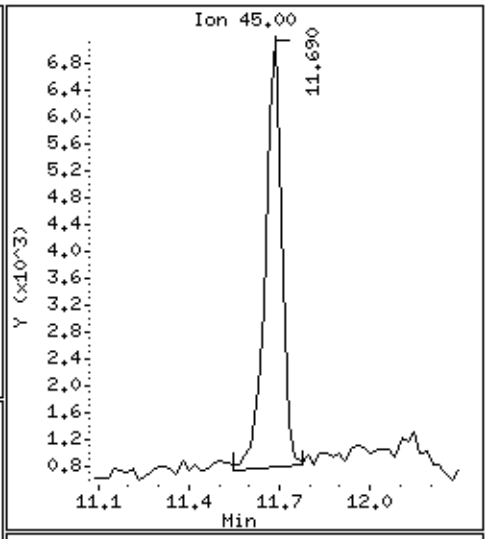
Concentration: 13.331 PPBV

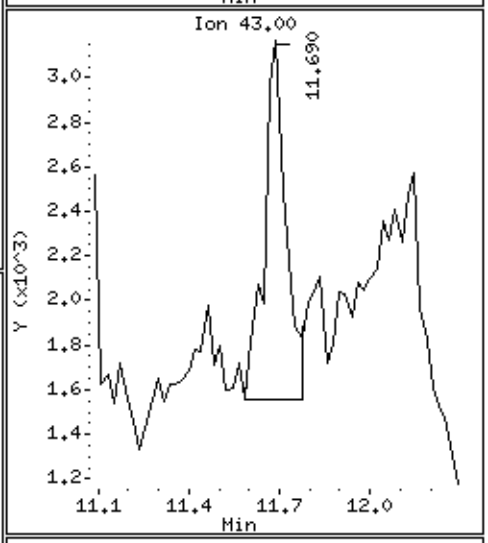


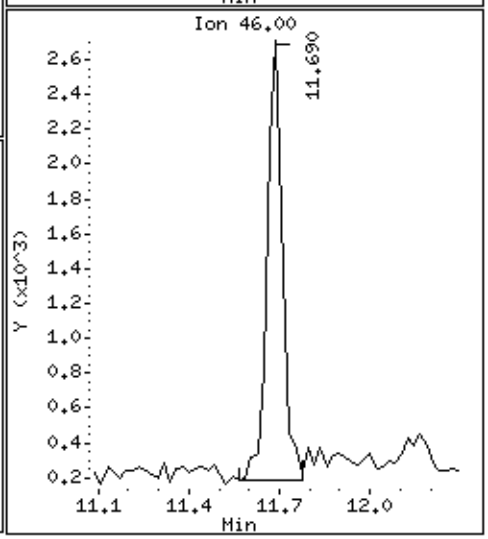



Data File: /chem/msda.i/31Aug2011.b/a083113.d

Date : 31-AUG-2011 17:22

Client ID:

Instrument: msda.i

Sample Info: 125mL #33325

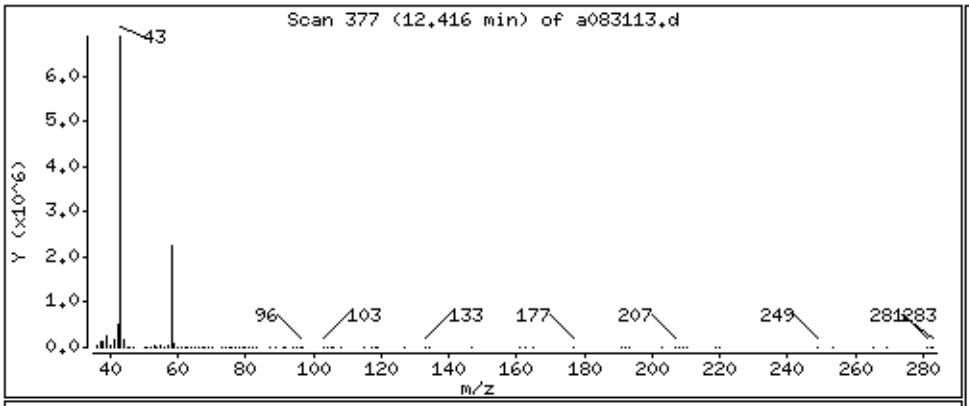
Operator: jc

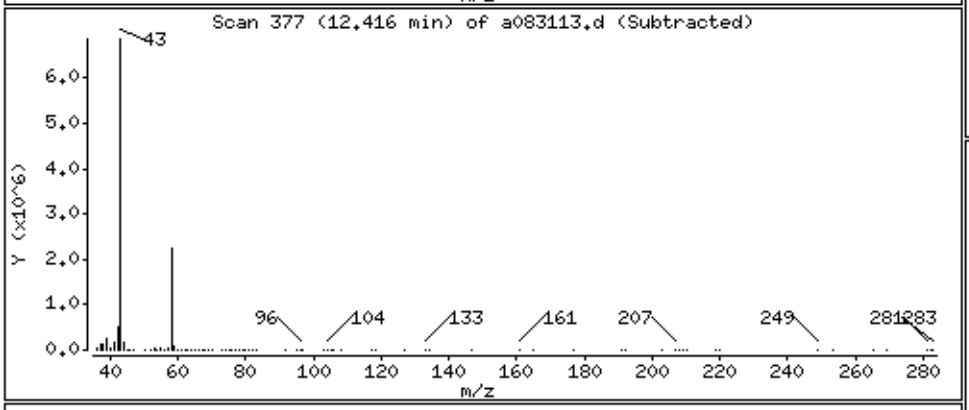
Column phase: RTx-624

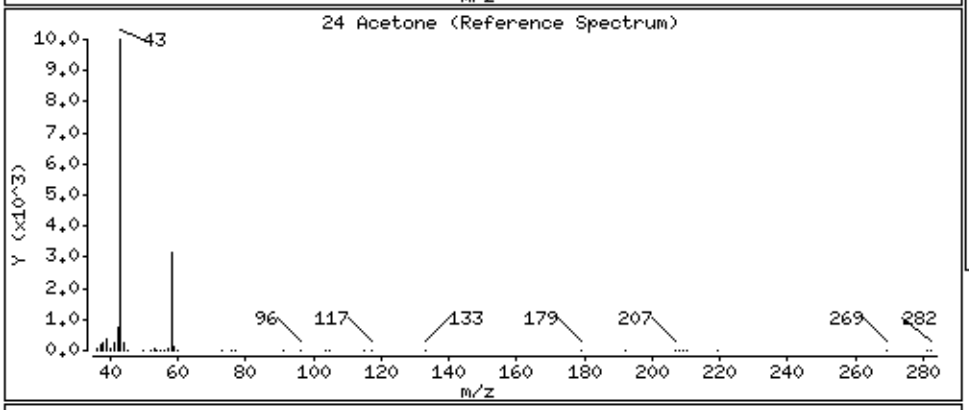
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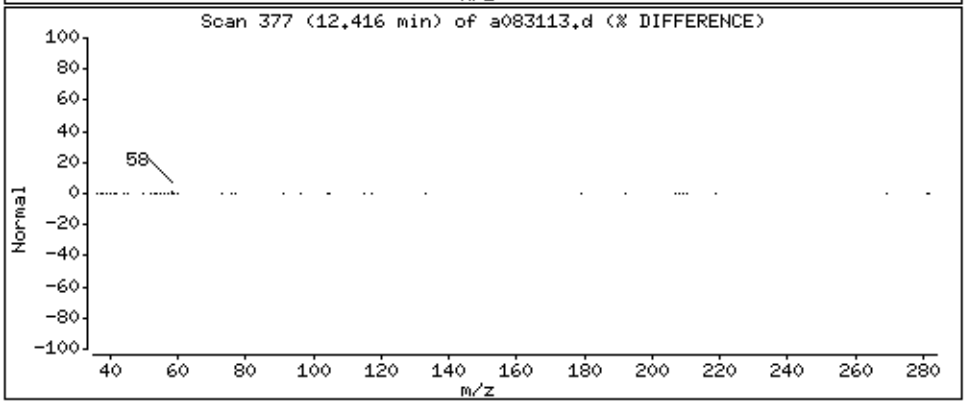
24 Acetone

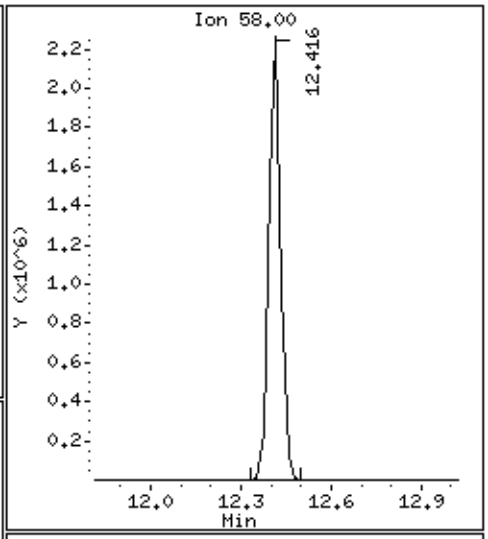
Concentration: 981.58 PPBV

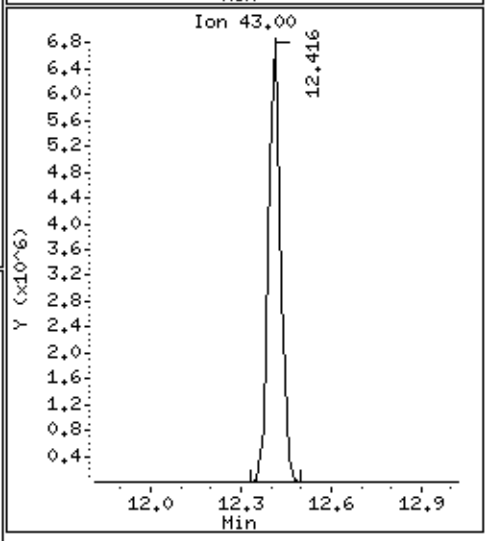


Data File: /chem/msda.i/31Aug2011.b/a083113.d

Date : 31-AUG-2011 17:22

Client ID:

Instrument: msda.i

Sample Info: 125mL #33325

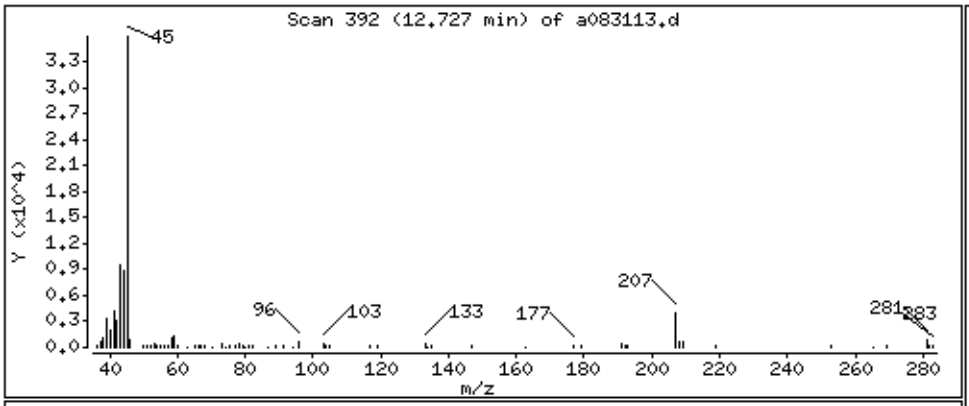
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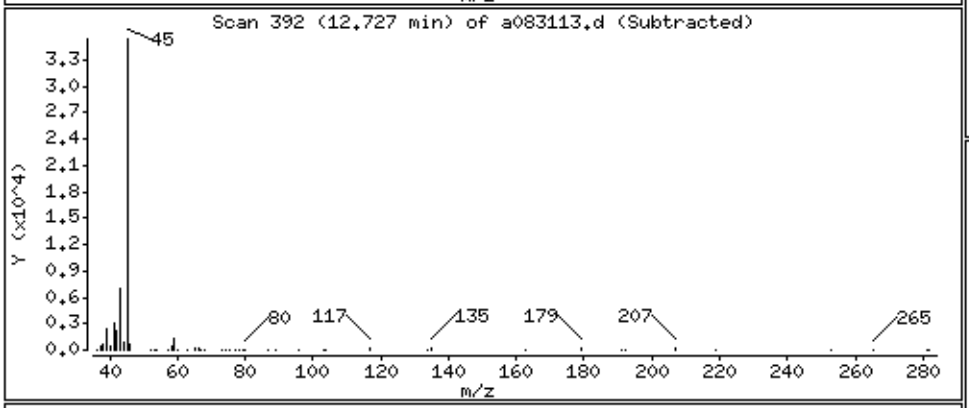
Column phase: RTx-624

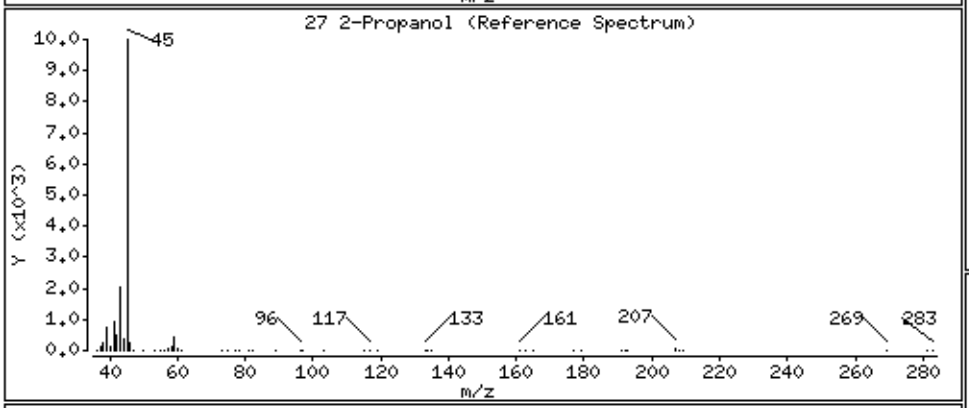
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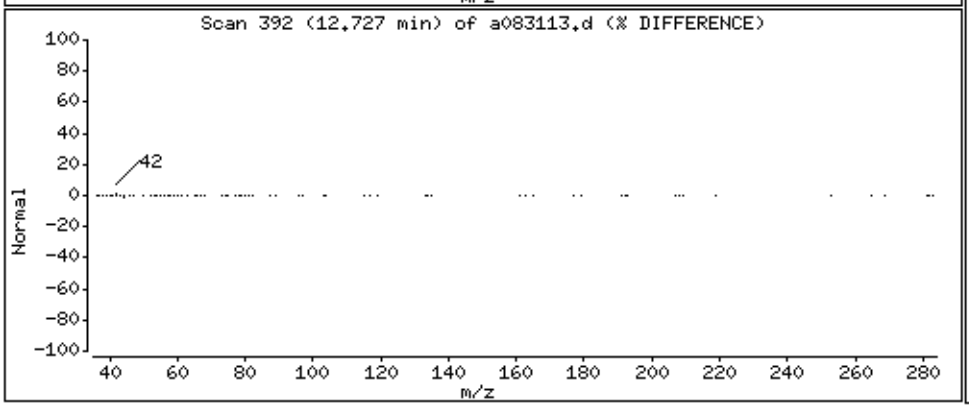
27 2-Propanol

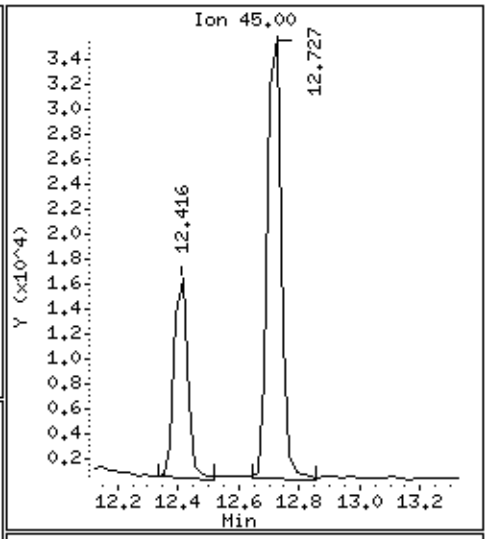
Concentration: 4.822 PPBV

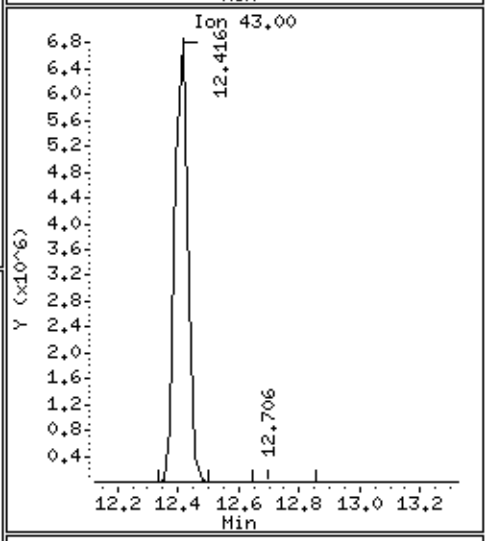


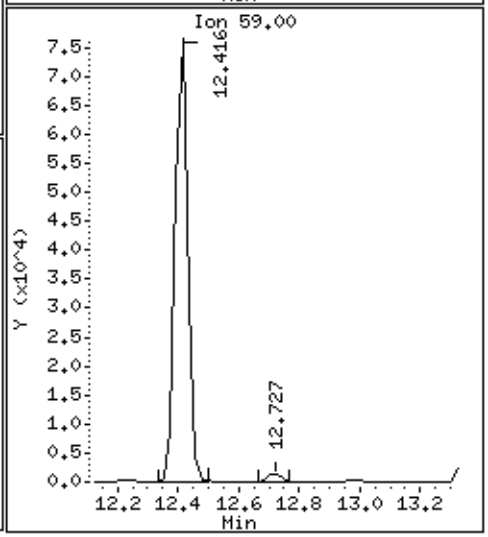



Data File: /chem/msda.i/31Aug2011.b/a083113.d

Date : 31-AUG-2011 17:22

Client ID:

Instrument: msda.i

Sample Info: 125mL #33325

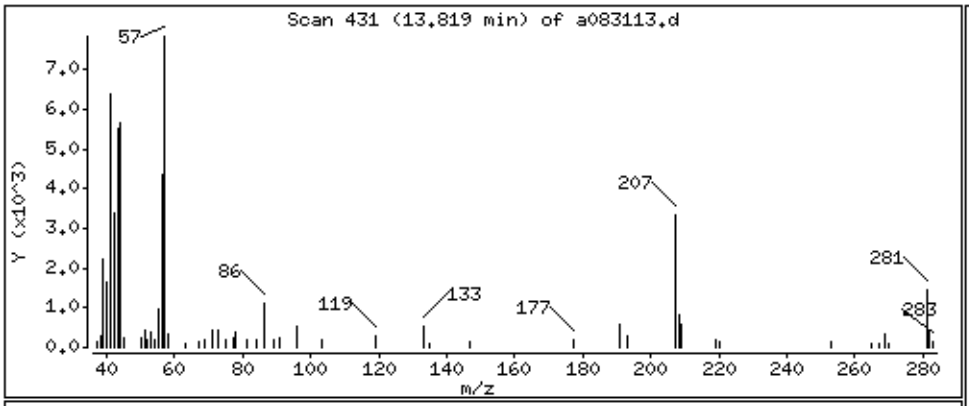
Operator: jc

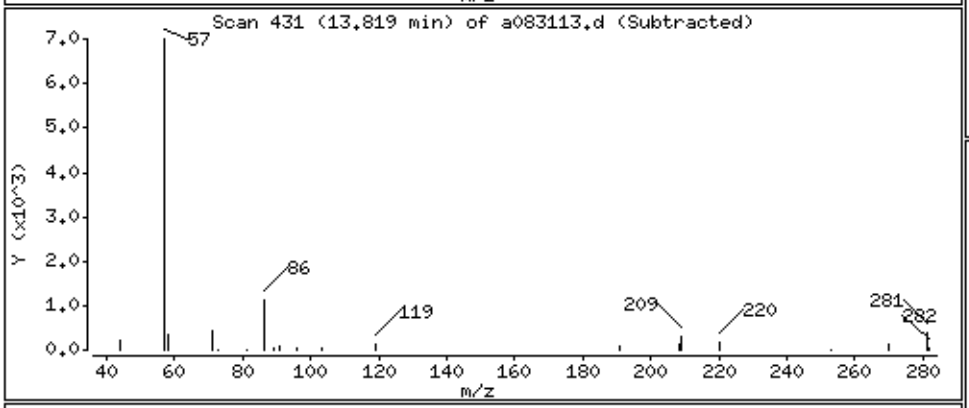
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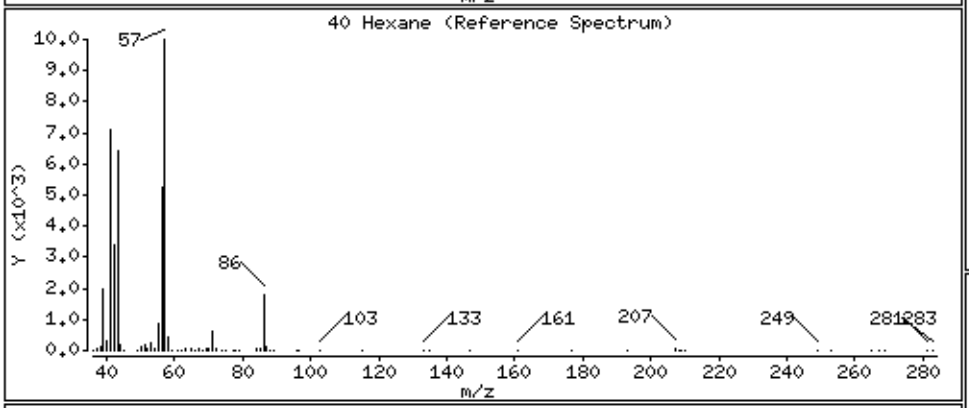
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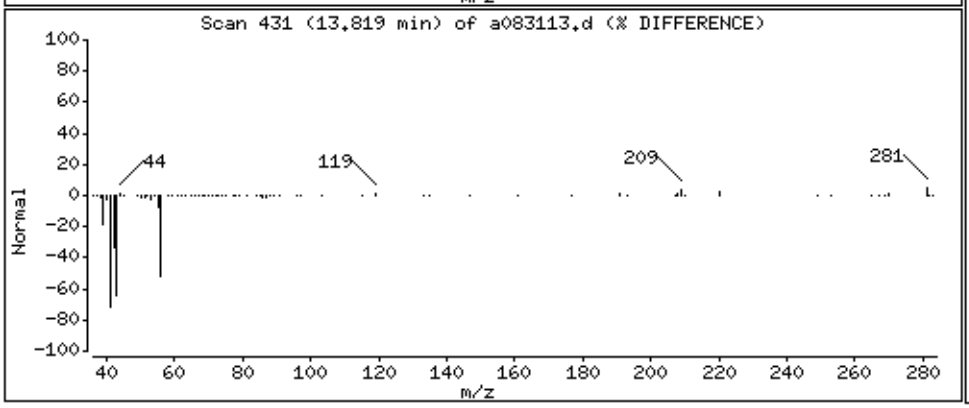
40 Hexane

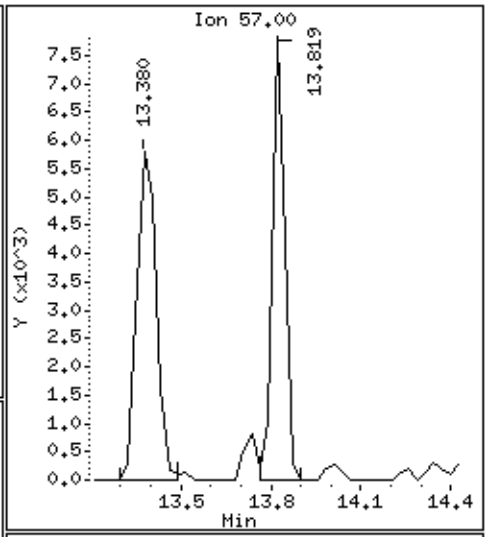
Concentration: 0.8943 PPBV

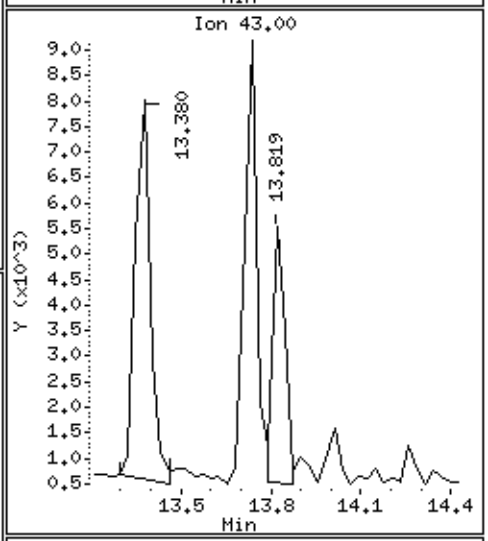


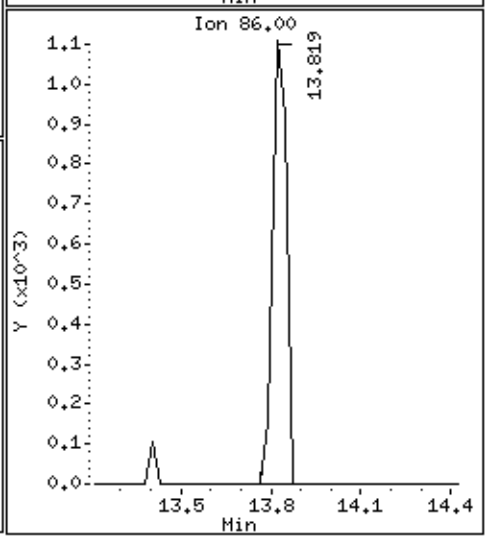



Data File: /chem/msda.i/31Aug2011.b/a083113.d

Date : 31-AUG-2011 17:22

Client ID:

Instrument: msda.i

Sample Info: 125mL #33325

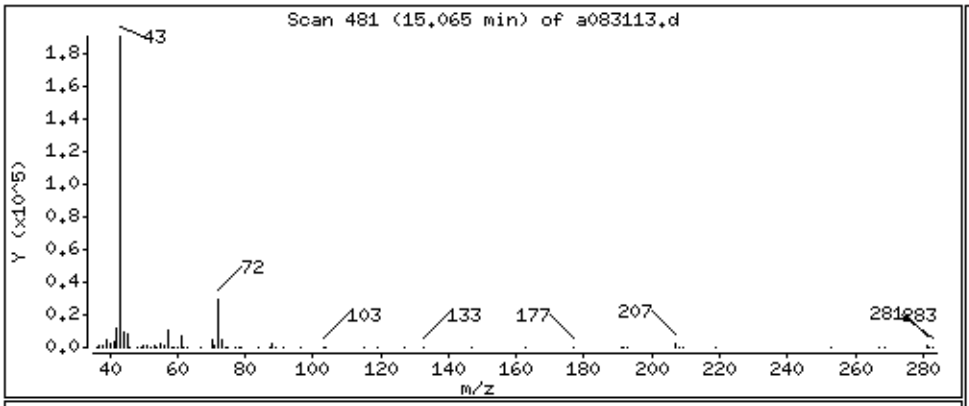
Operator: jc

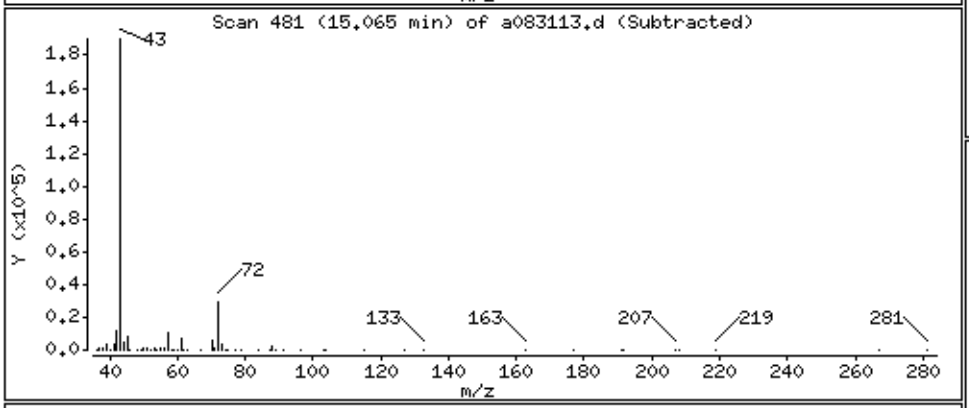
Column phase: RTx-624

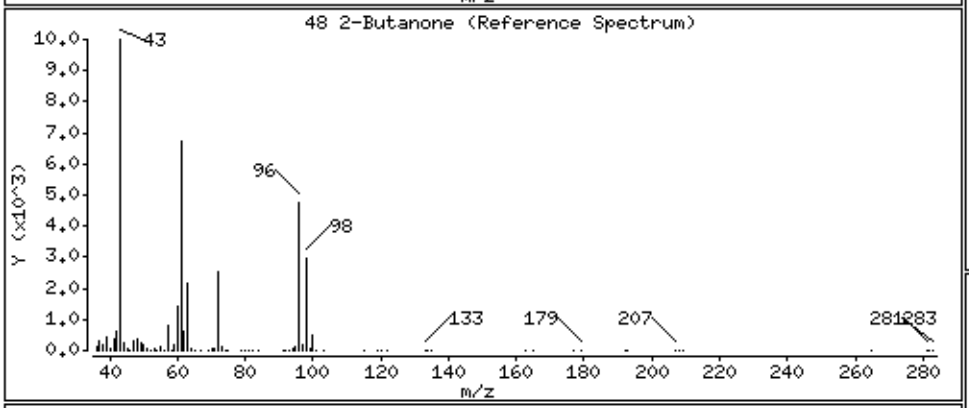
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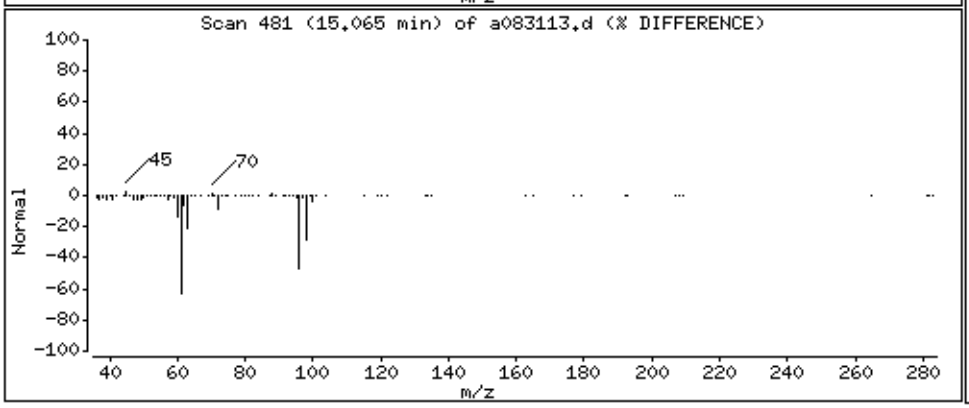
48 2-Butanone

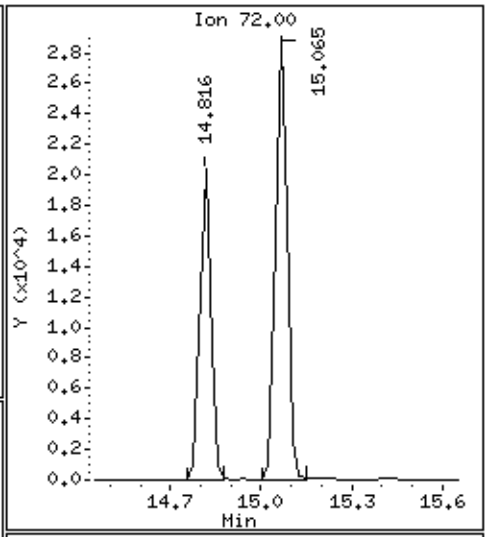
Concentration: 10.323 PPBV

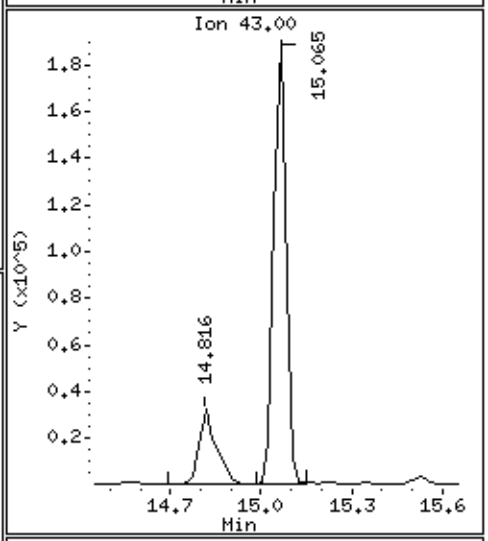


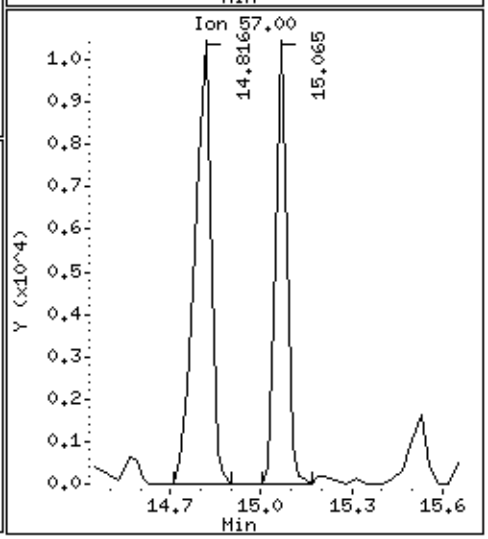



Data File: /chem/msda.i/31Aug2011.b/a083113.d

Date : 31-AUG-2011 17:22

Client ID:

Instrument: msda.i

Sample Info: 125mL #33325

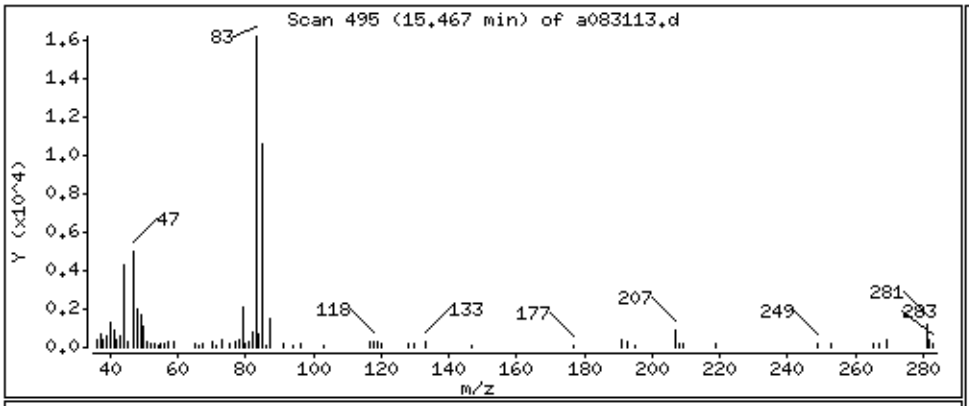
Operator: jc

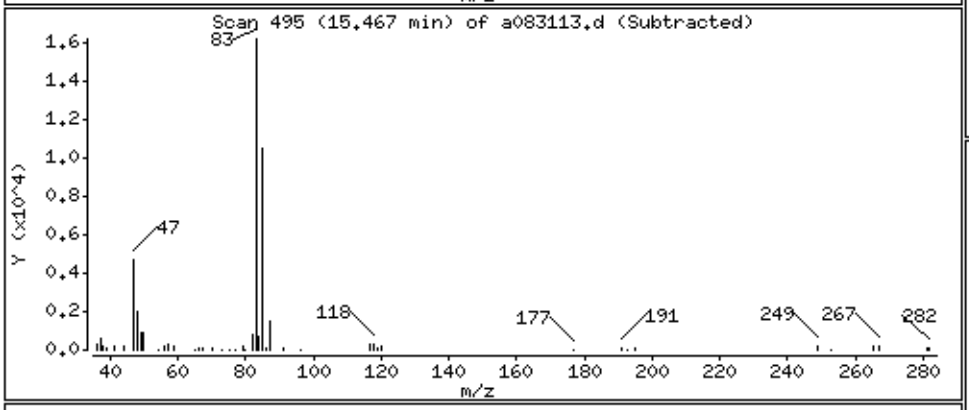
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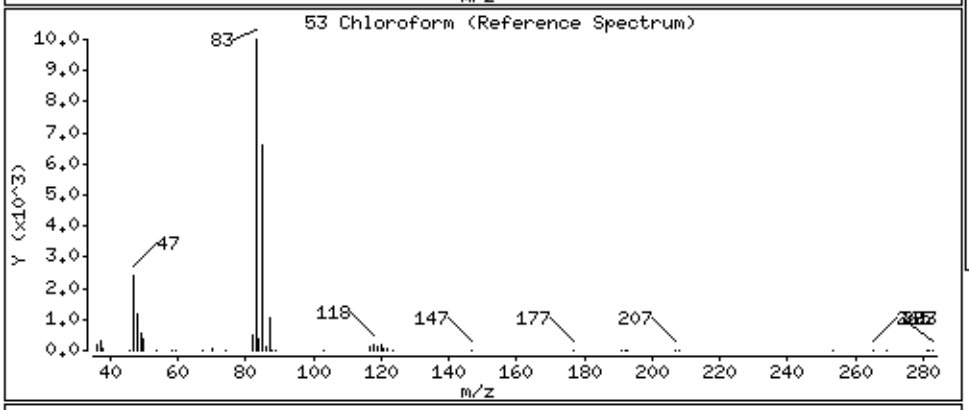
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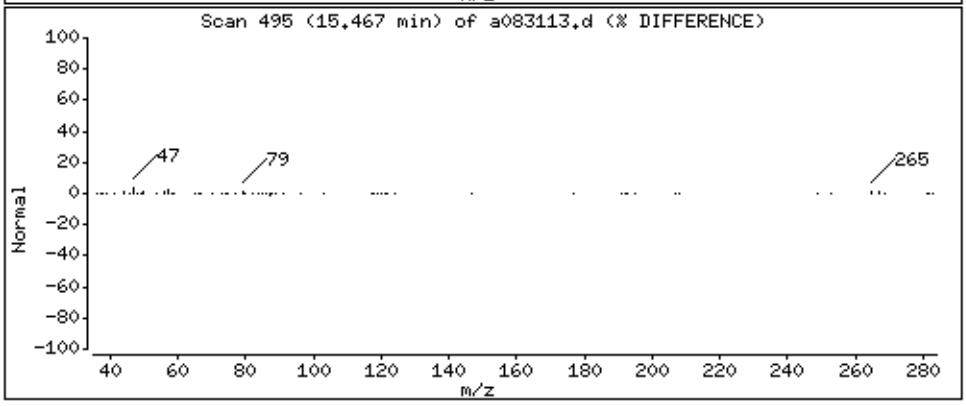
53 Chloroform

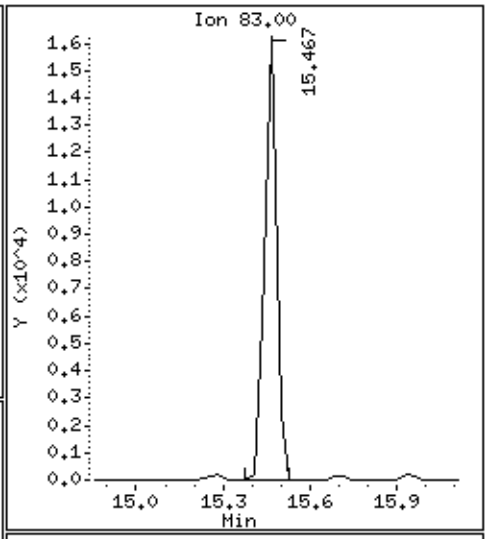
Concentration: 1.608 PPBV

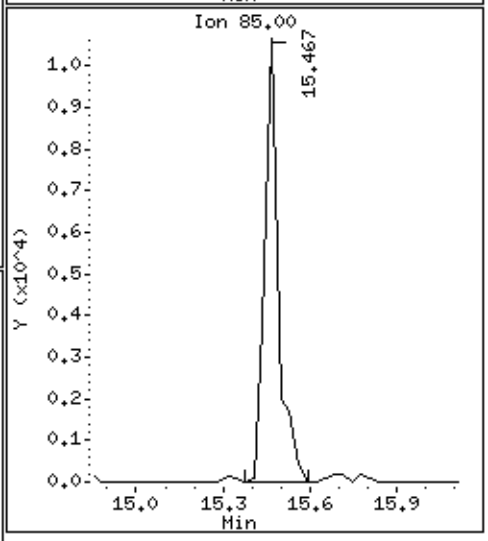


Data File: /chem/msda.i/31Aug2011.b/a083113.d

Date : 31-AUG-2011 17:22

Client ID:

Instrument: msda.i

Sample Info: 125mL #33325

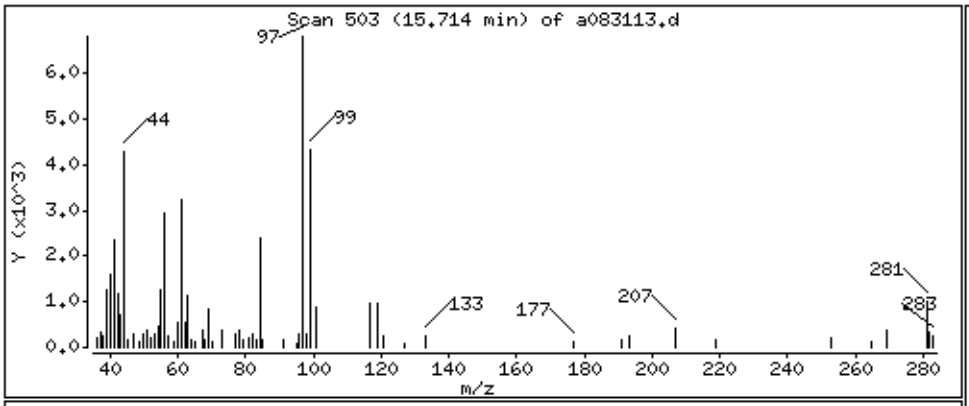
Operator: jc

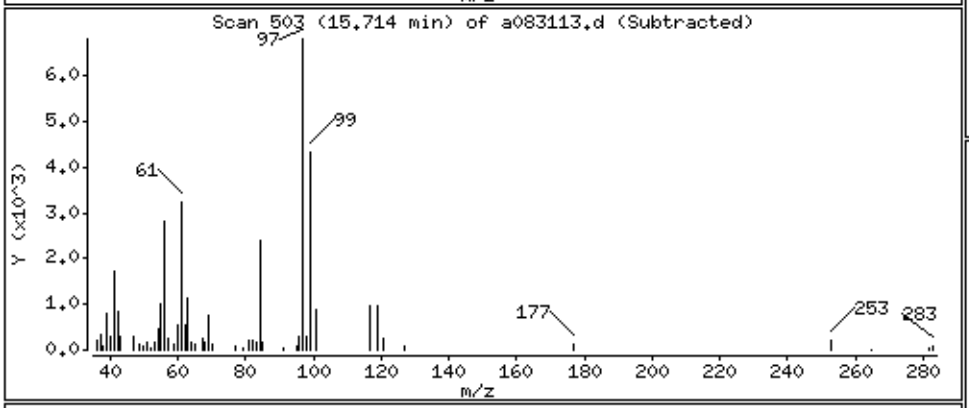
Column phase: RTx-624

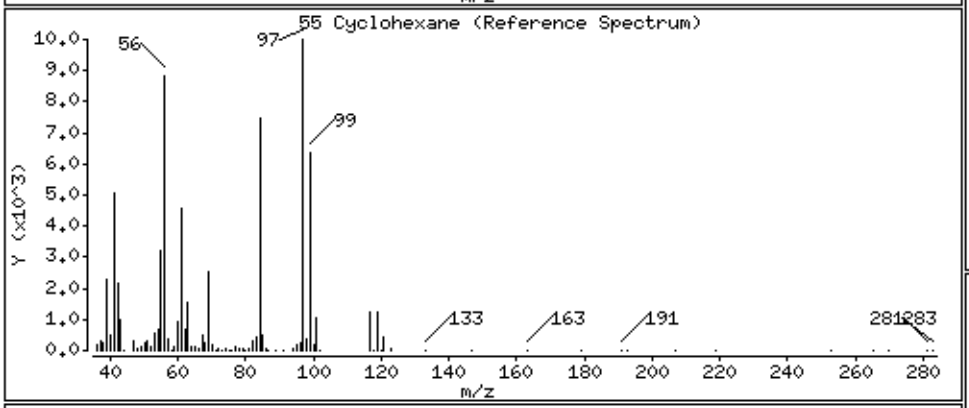
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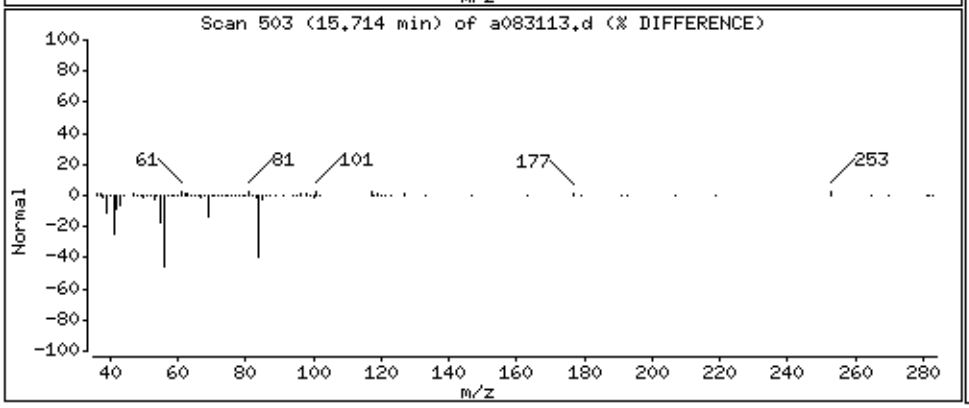
55 Cyclohexane

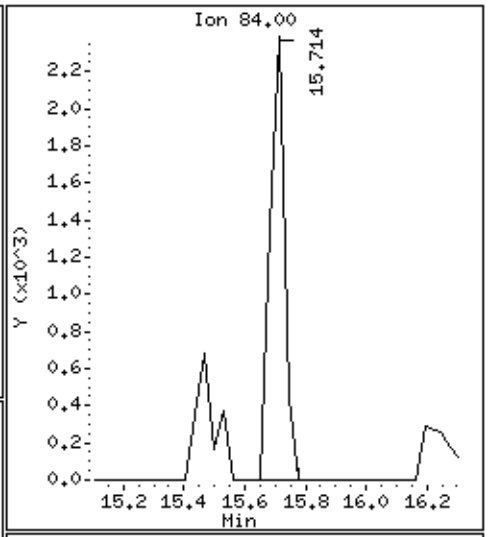
Concentration: 0.3718 PPBV

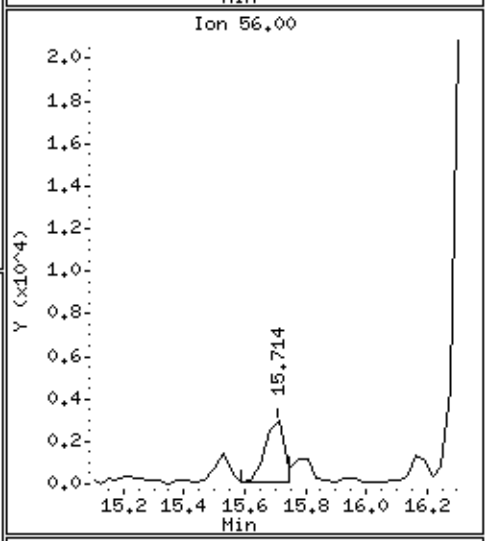


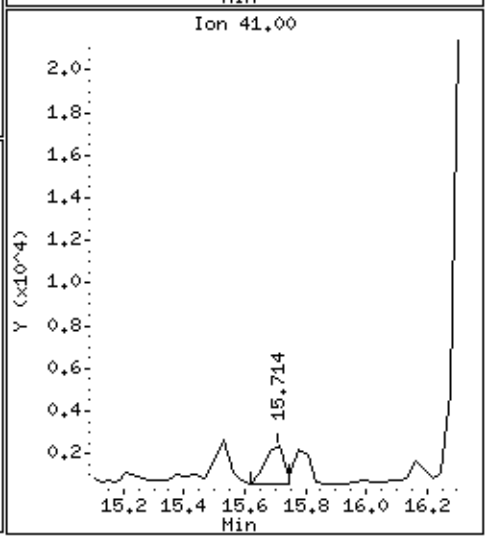



Data File: /chem/msda.i/31Aug2011.b/a083113.d

Date : 31-AUG-2011 17:22

Client ID:

Instrument: msda.i

Sample Info: 125mL #33325

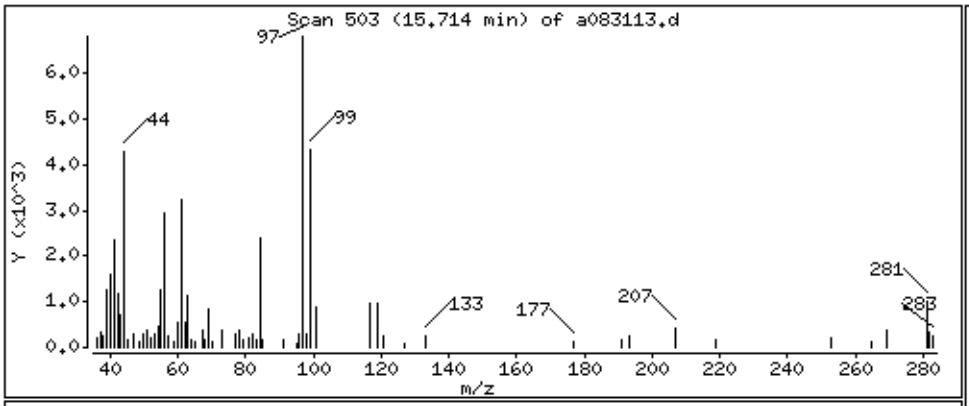
Operator: jc

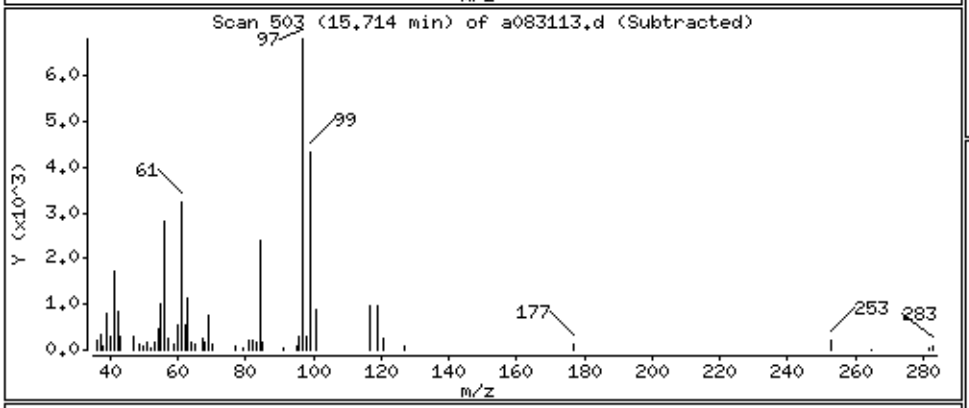
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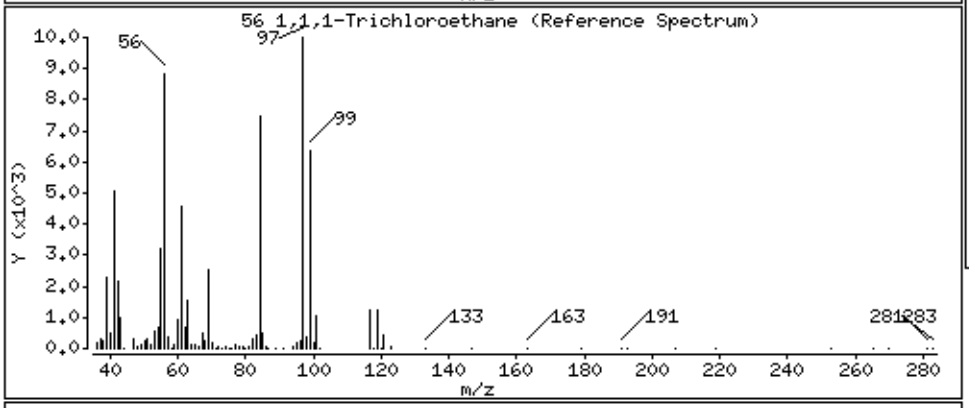
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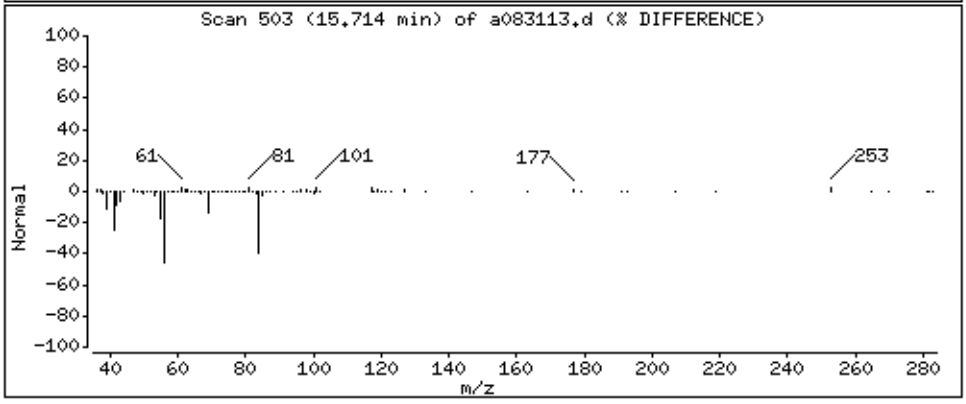
56 1,1,1-Trichloroethane

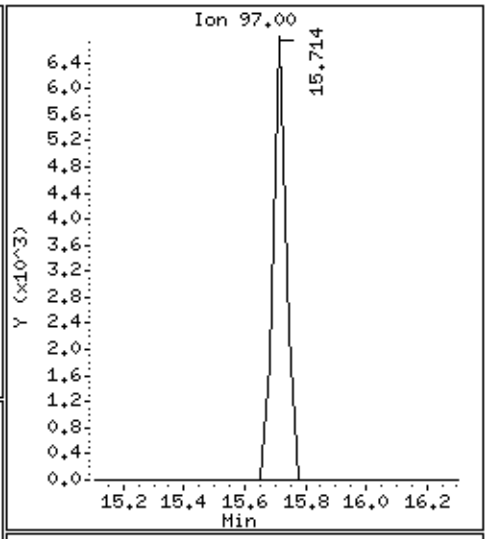
Concentration: 0.6616 PPBV

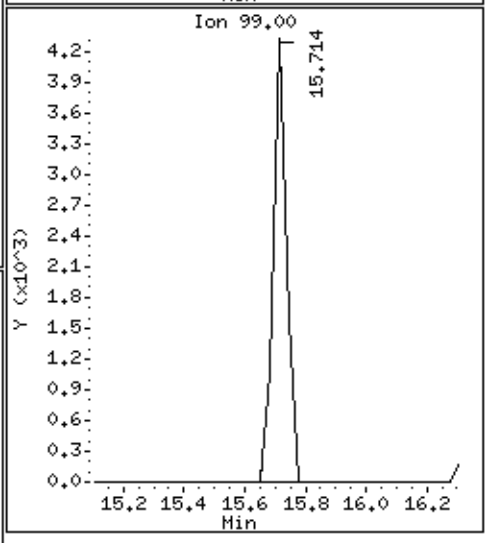


Data File: /chem/msda.i/31Aug2011.b/a083113.d

Date : 31-AUG-2011 17:22

Client ID:

Instrument: msda.i

Sample Info: 125mL #33325

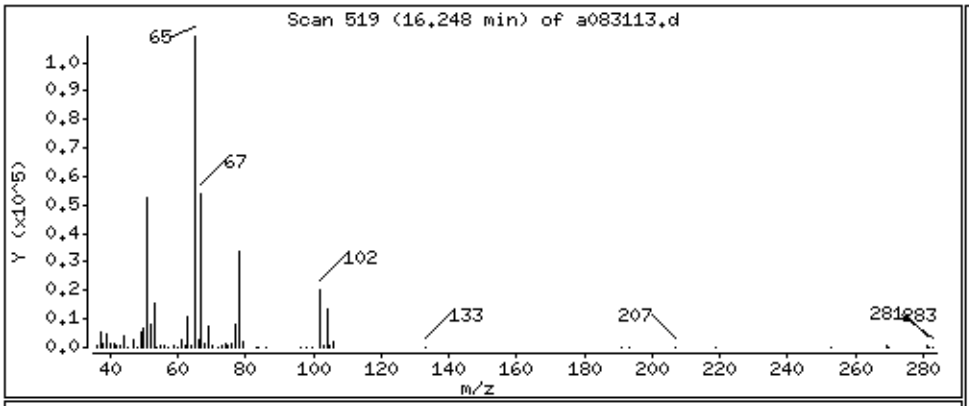
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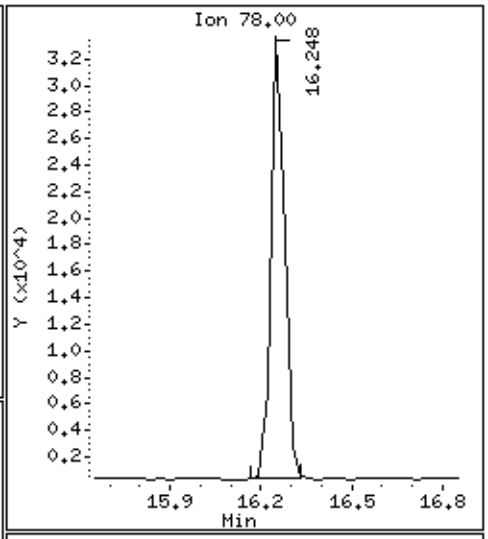
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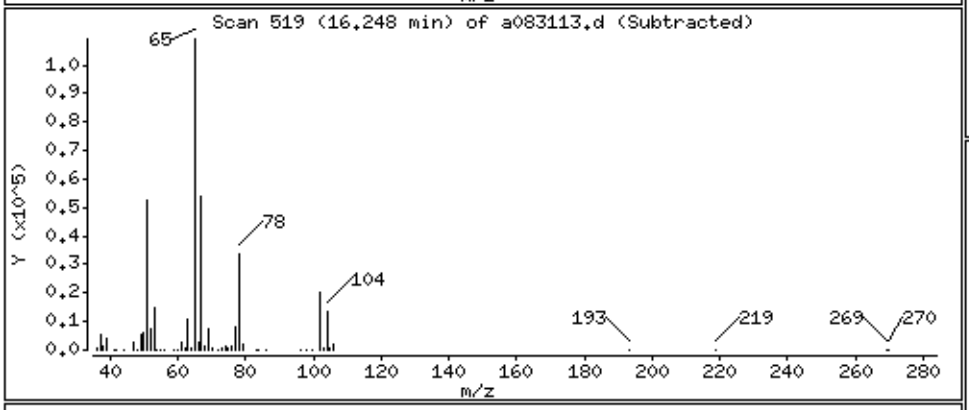
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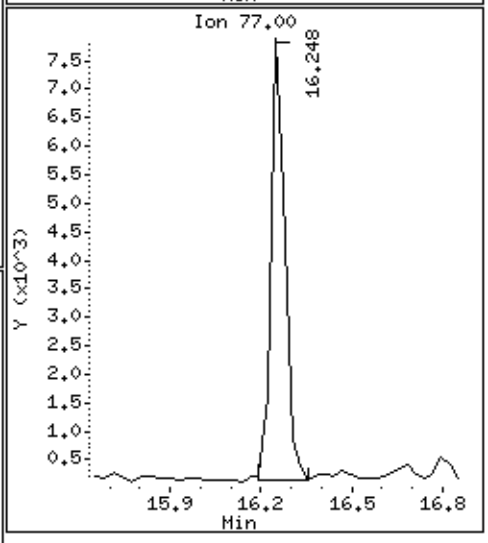
60 Benzene

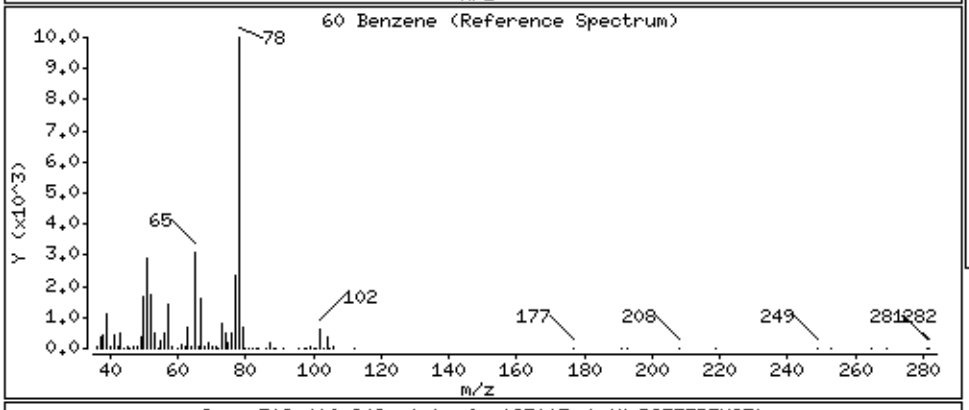
Concentration: 2.341 PPBV

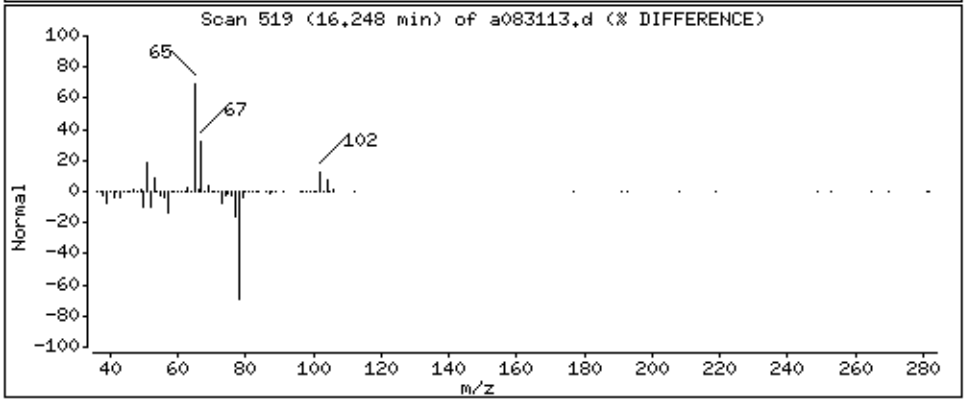


Data File: /chem/msda.i/31Aug2011.b/a083113.d

Date : 31-AUG-2011 17:22

Client ID:

Instrument: msda.i

Sample Info: 125mL #33325

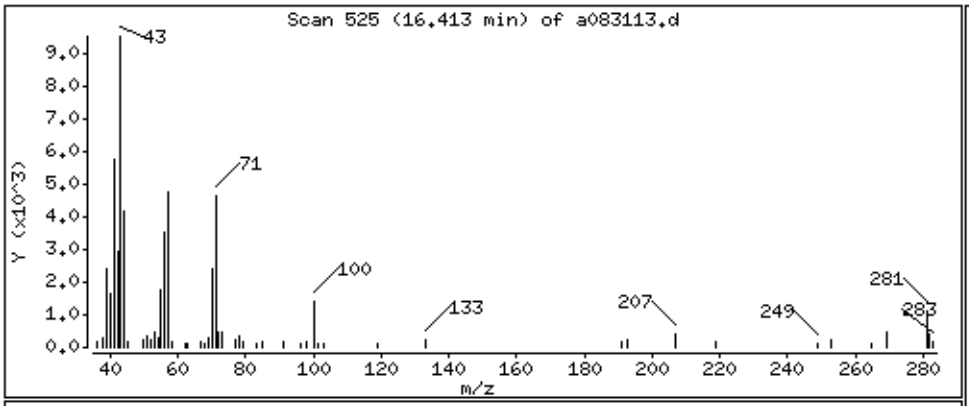
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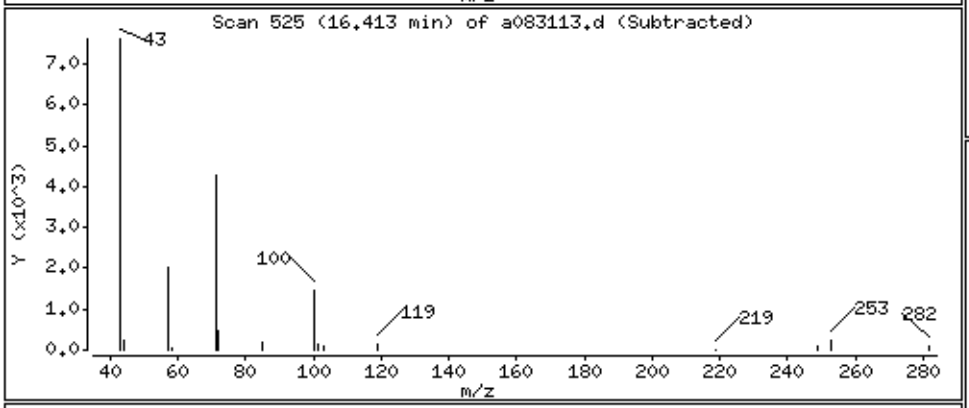
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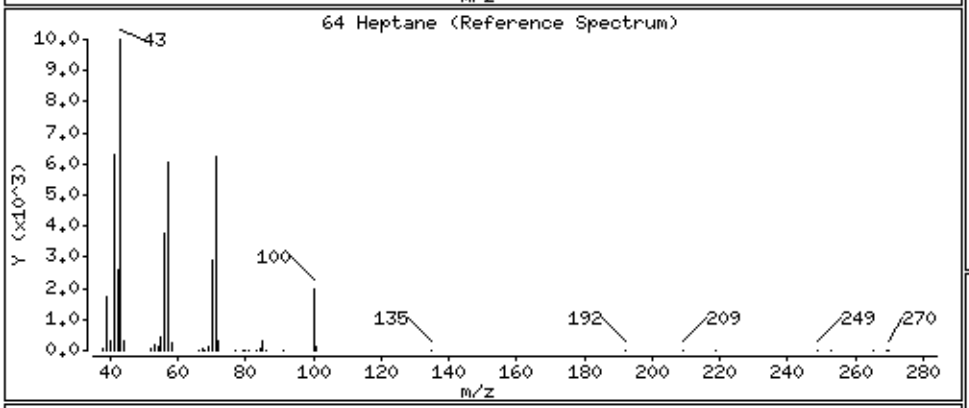
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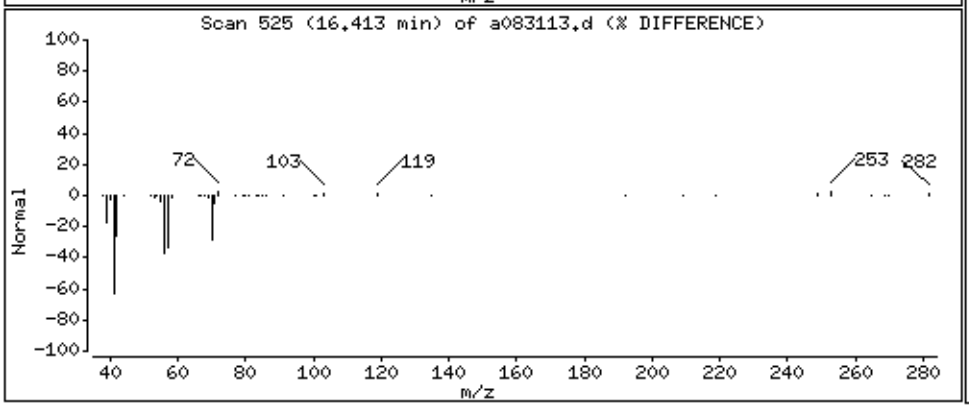
64 Heptane

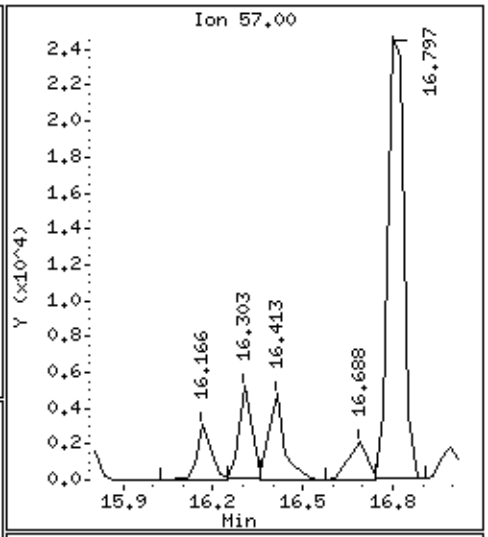
Concentration: 1.140 PPBV

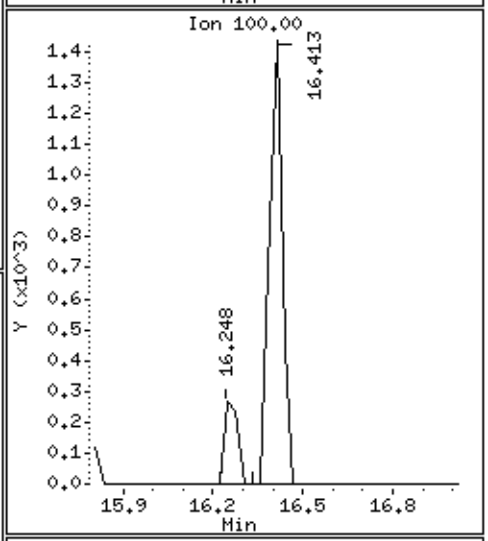


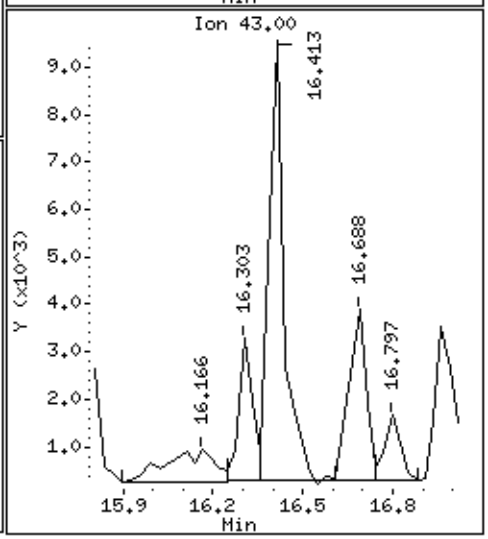



Data File: /chem/msda.i/31Aug2011.b/a083113.d

Date : 31-AUG-2011 17:22

Client ID:

Instrument: msda.i

Sample Info: 125mL #33325

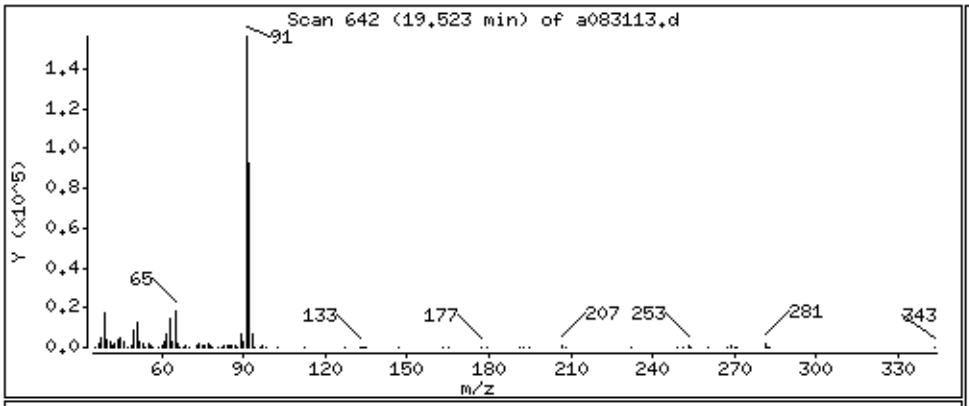
Operator: jc

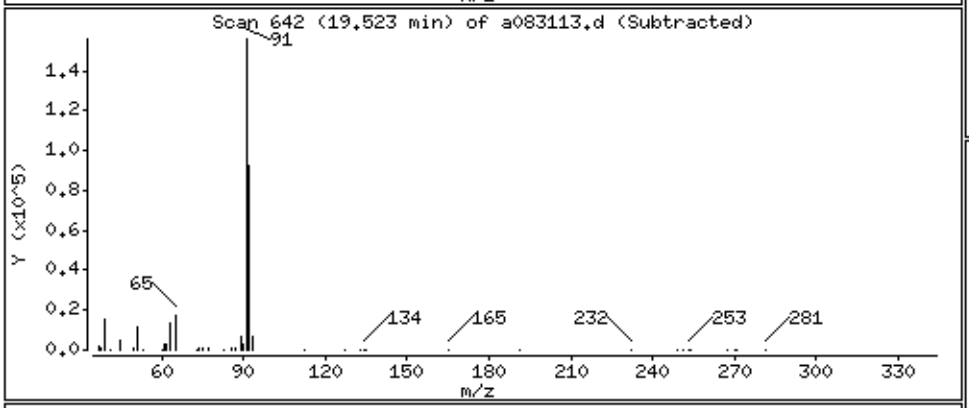
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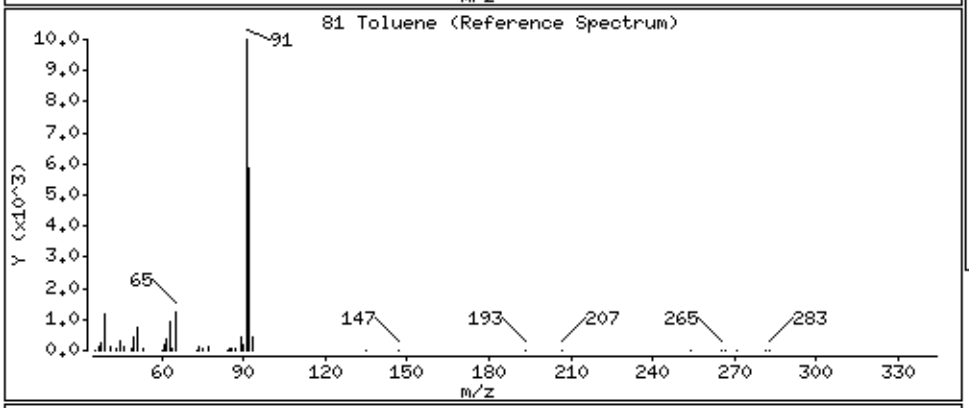
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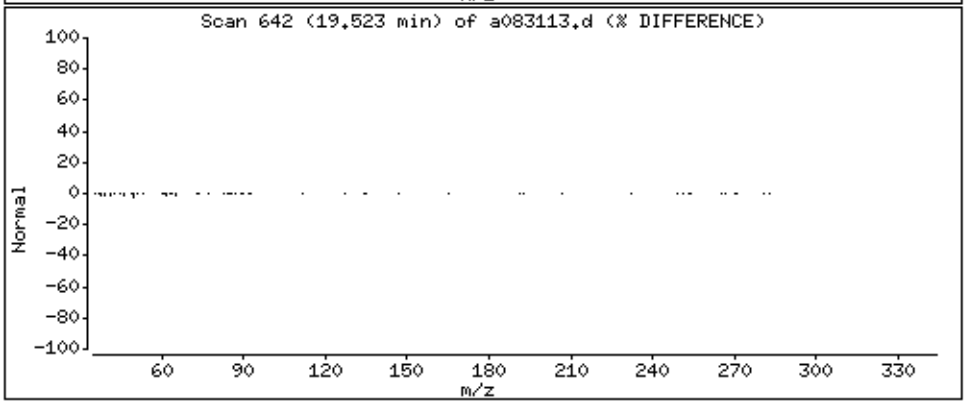
81 Toluene

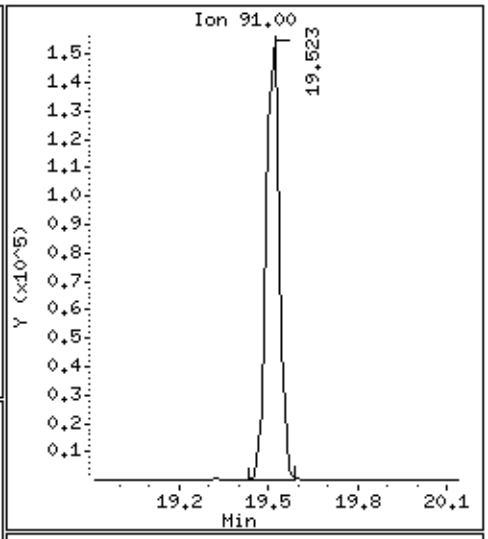
Concentration: 9.257 PPBV

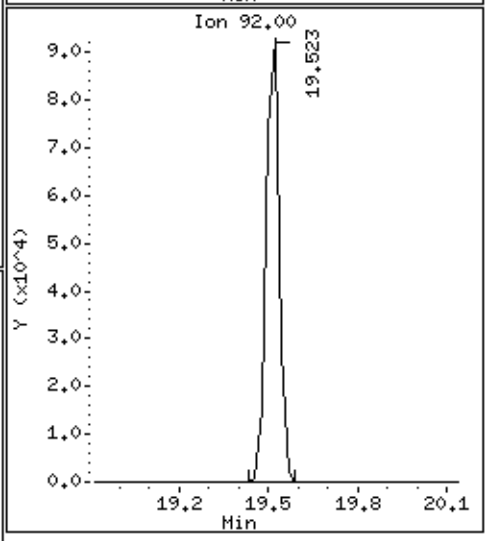


Data File: /chem/msda.i/31Aug2011.b/a083113.d

Date : 31-AUG-2011 17:22

Client ID:

Instrument: msda.i

Sample Info: 125mL #33325

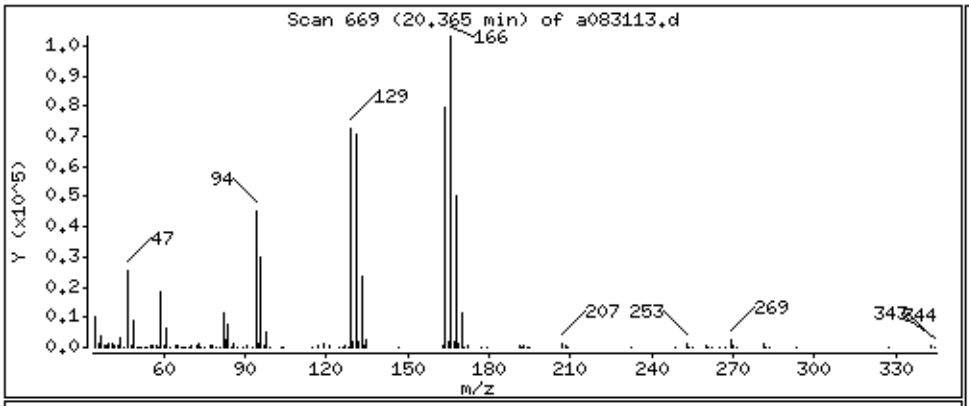
Operator: jc

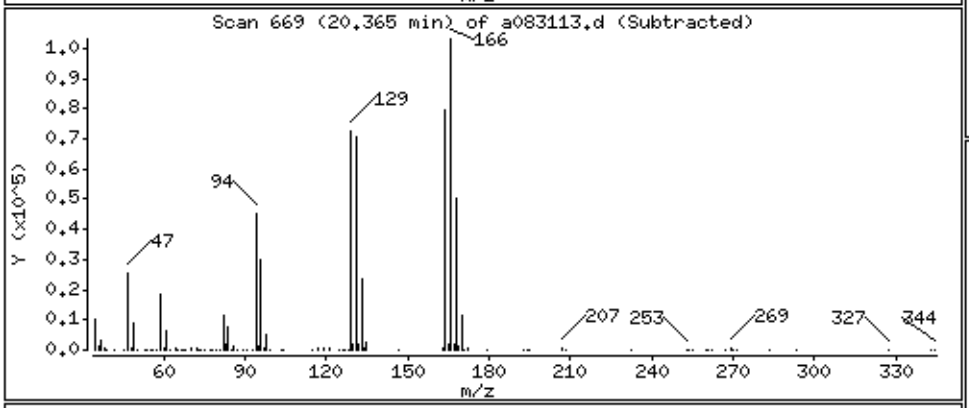
Column phase: RTx-624

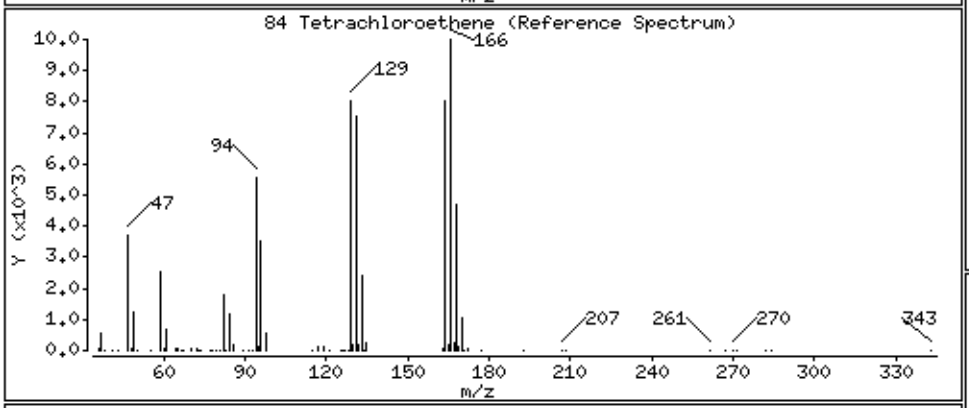
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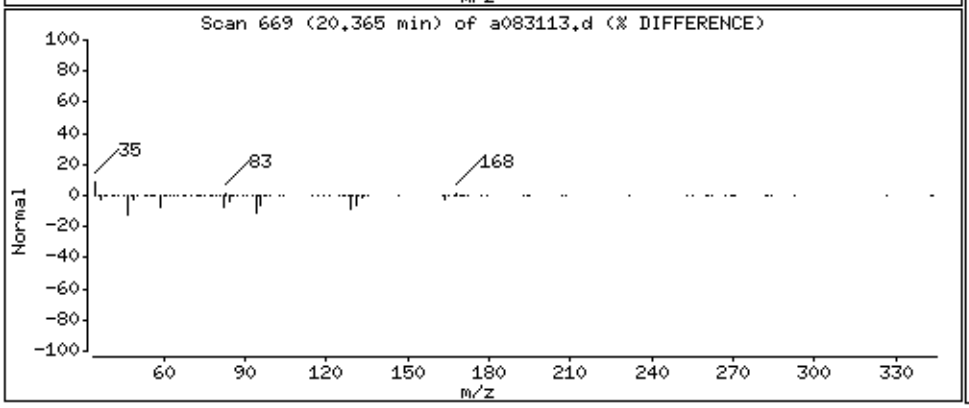
84 Tetrachloroethene

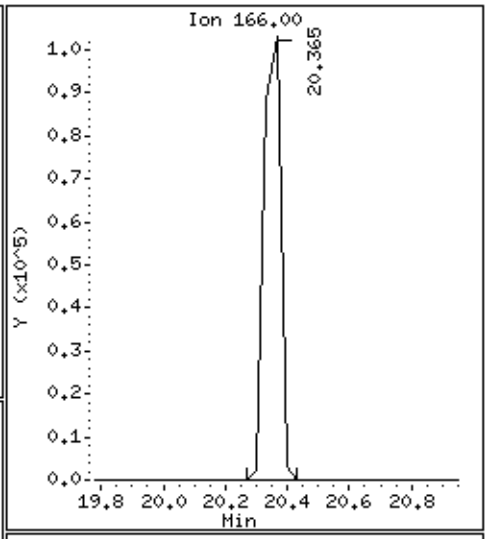
Concentration: 18.760 PPBV

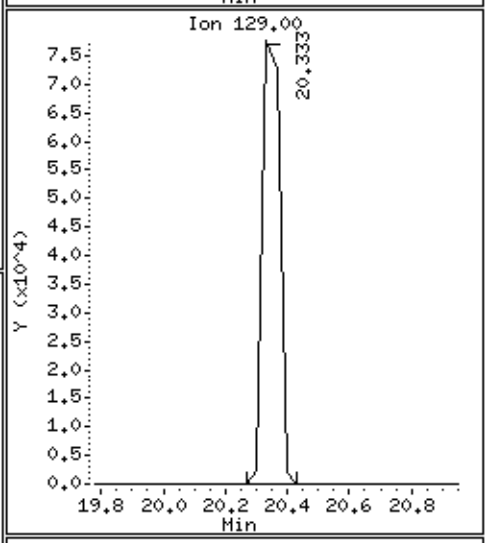


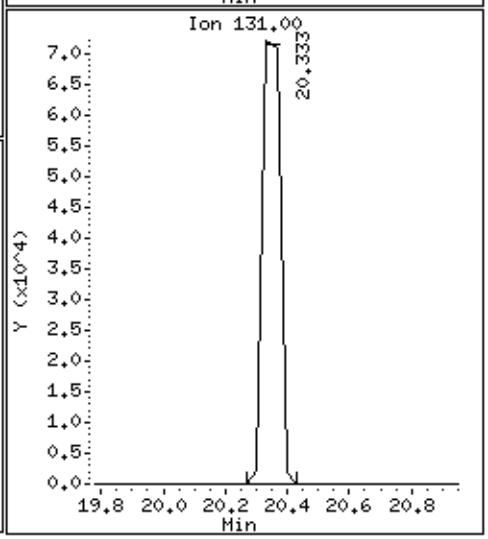



Data File: /chem/msda.i/31Aug2011.b/a083113.d

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Instrument: msda.i

Sample Info: 125mL #33325

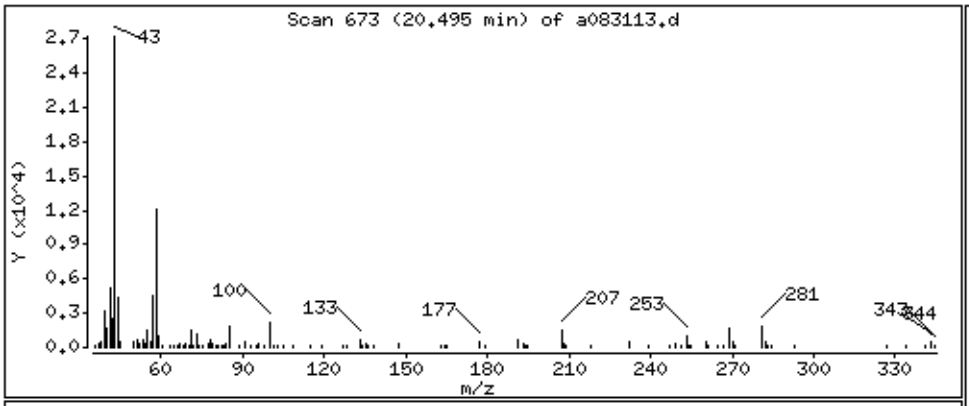
Operator: jc

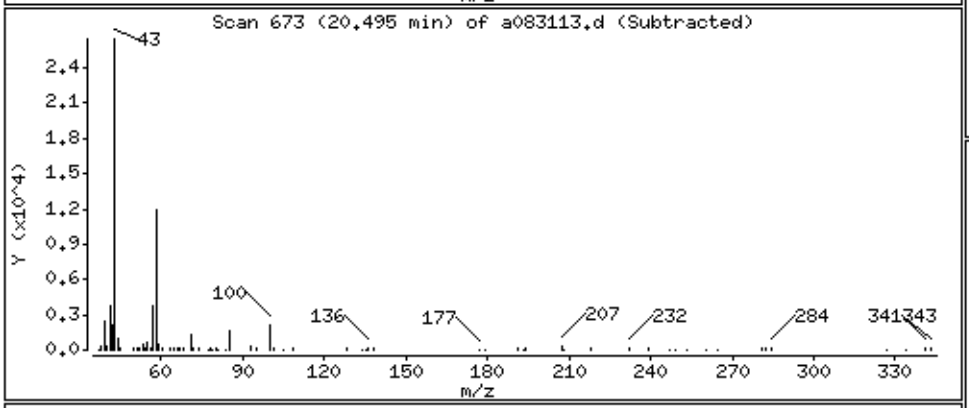
Column phase: RTx-624

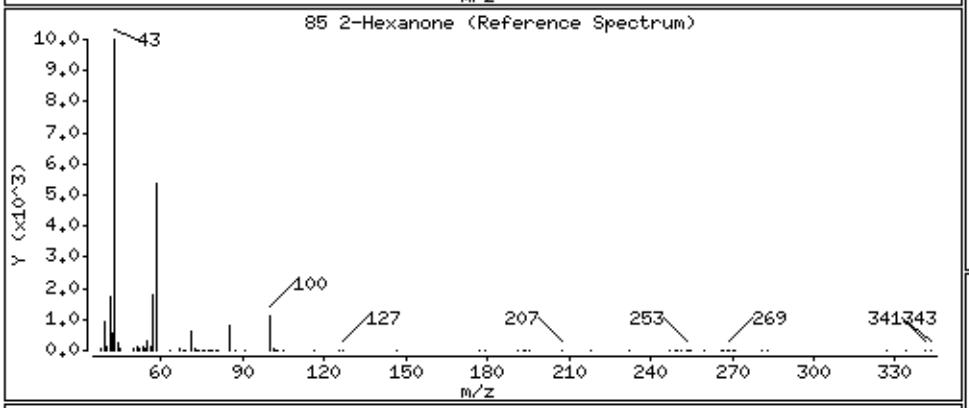
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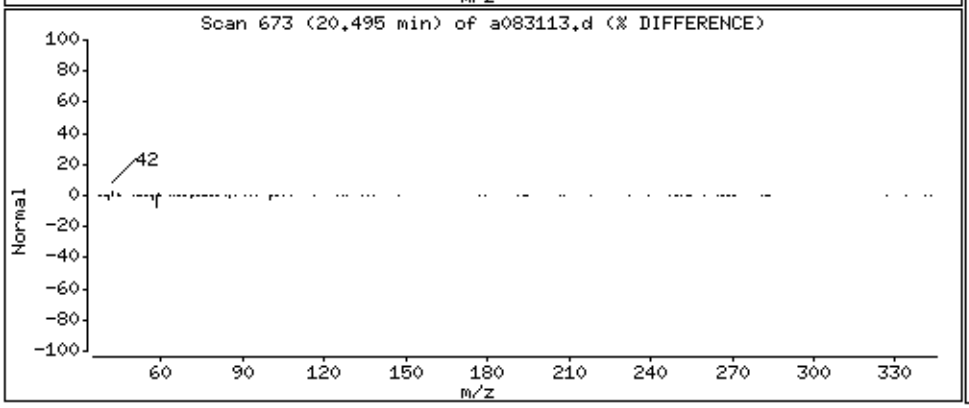
85 2-Hexanone

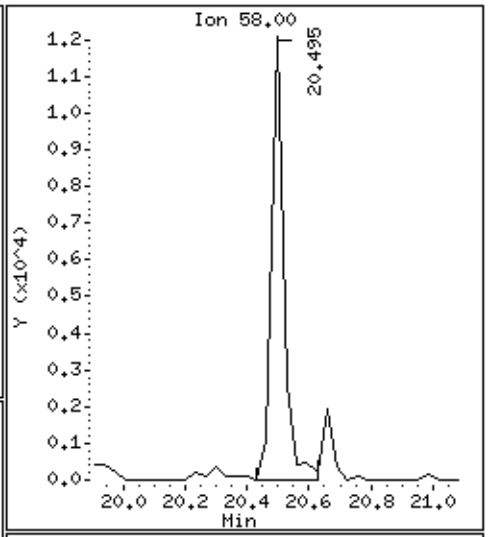
Concentration: 1.855 PPBV

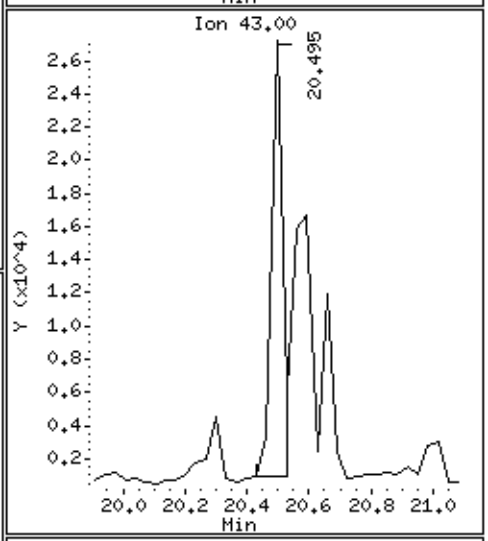


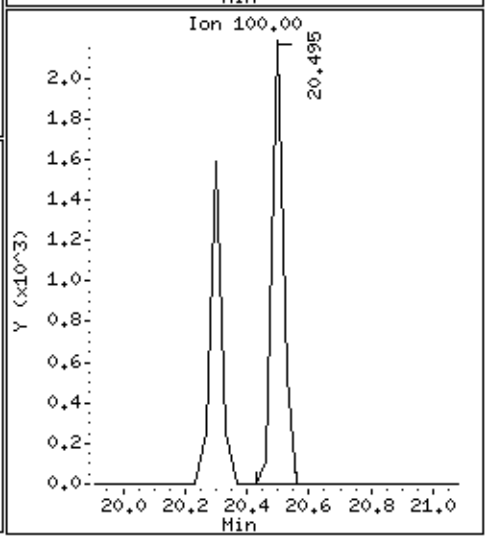



Data File: /chem/msda.i/31Aug2011.b/a083113.d

Date : 31-AUG-2011 17:22

Client ID:

Instrument: msda.i

Sample Info: 125mL #33325

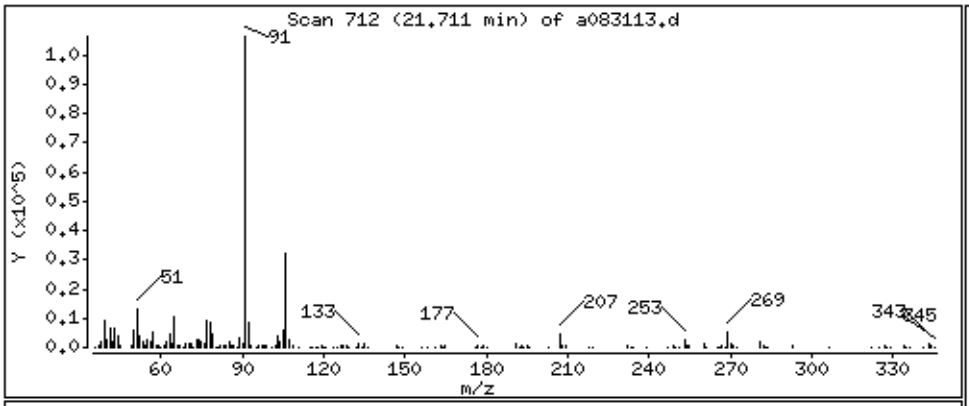
Operator: jc

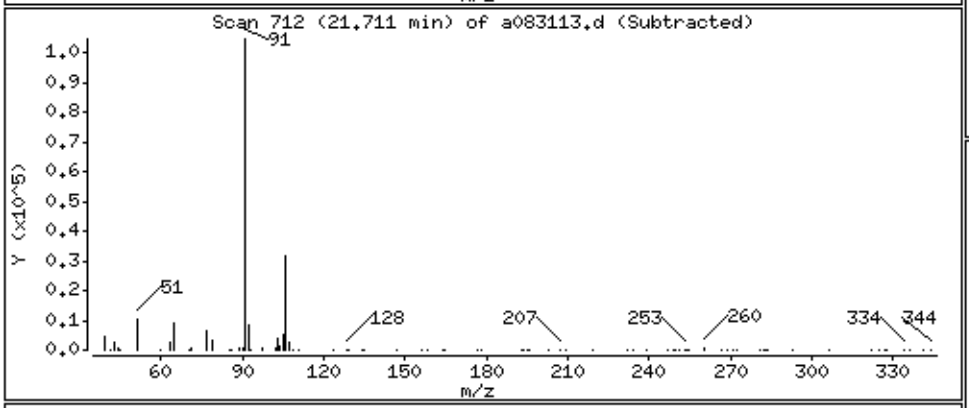
Column phase: RTx-624

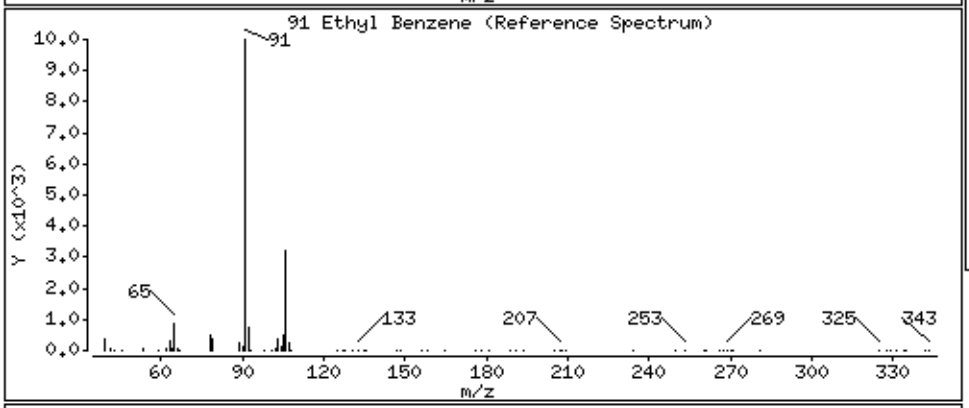
Column diameter: 0.32

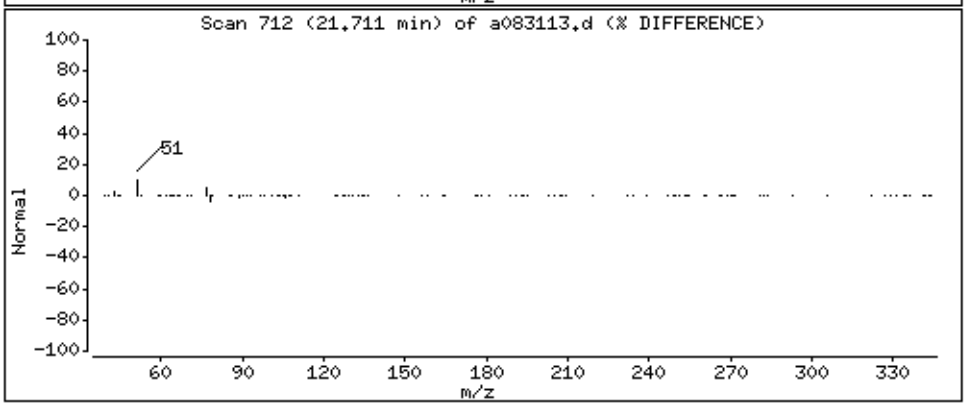
91 Ethyl Benzene

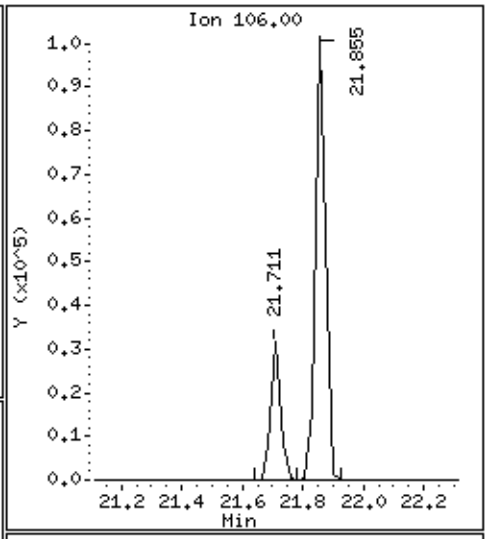
Concentration: 3.797 PPBV

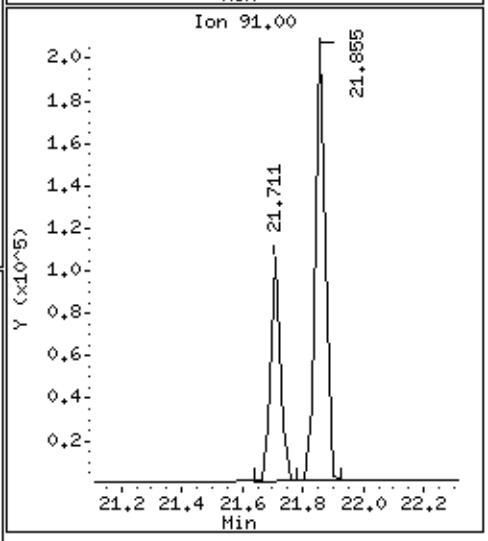


Data File: /chem/msda.i/31Aug2011.b/a083113.d

Date : 31-AUG-2011 17:22

Client ID:

Instrument: msda.i

Sample Info: 125mL #33325

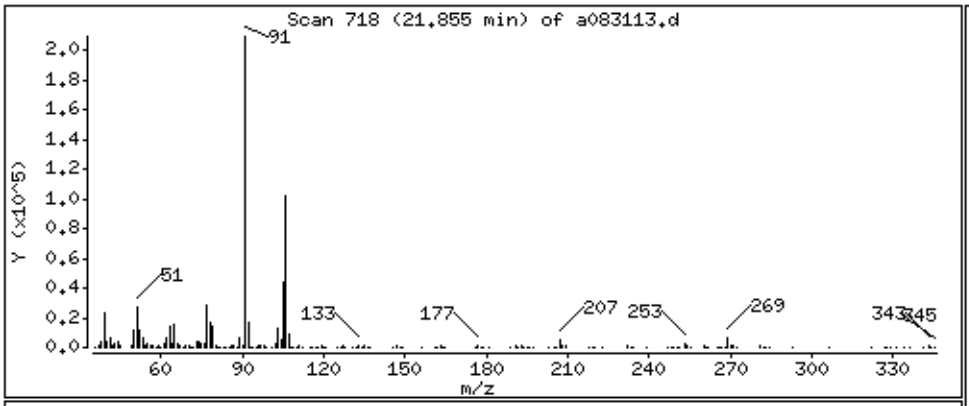
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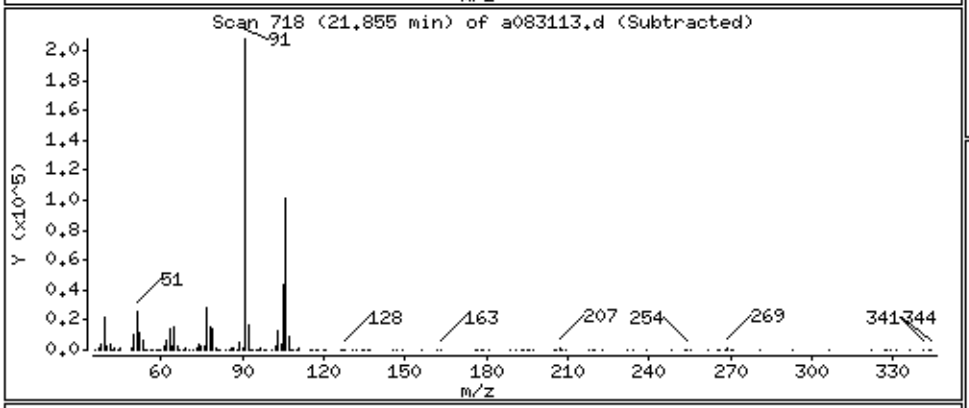
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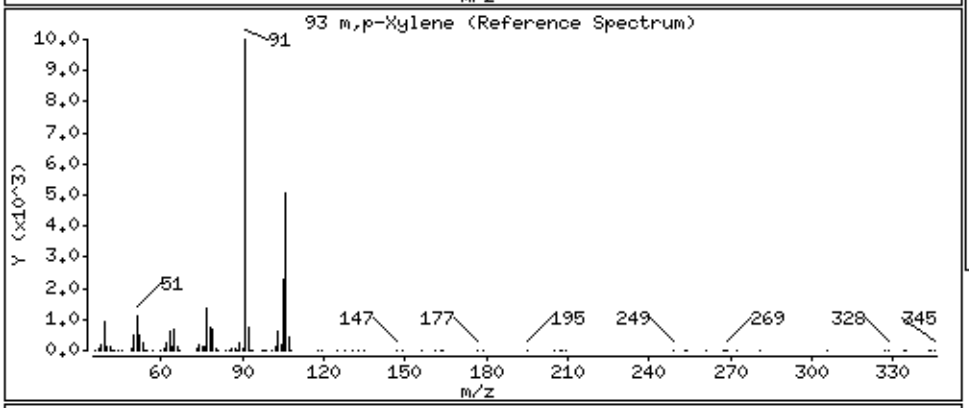
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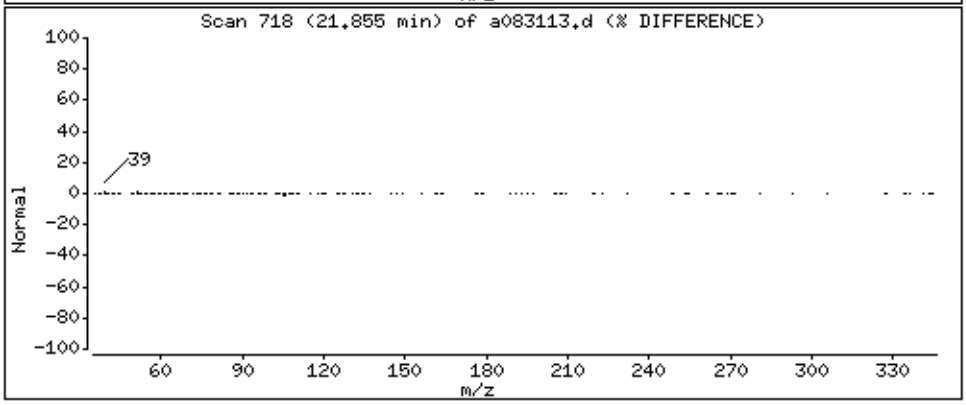
93 m,p-Xylene

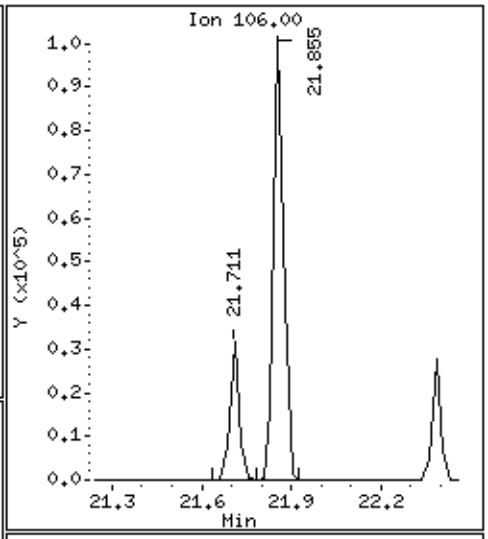
Concentration: 11.456 PPBV

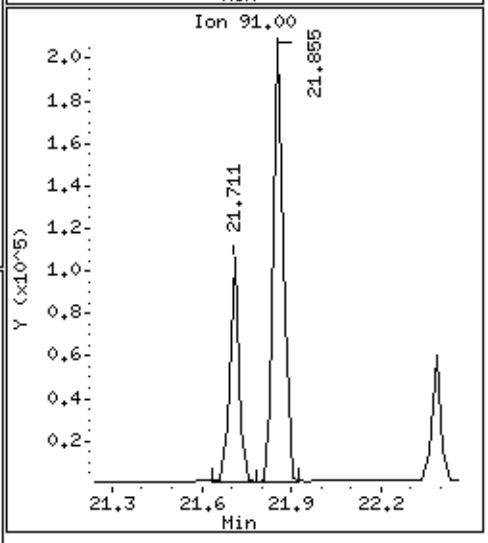


Data File: /chem/msda.i/31Aug2011.b/a083113.d

Date : 31-AUG-2011 17:22

Client ID:

Instrument: msda.i

Sample Info: 125mL #33325

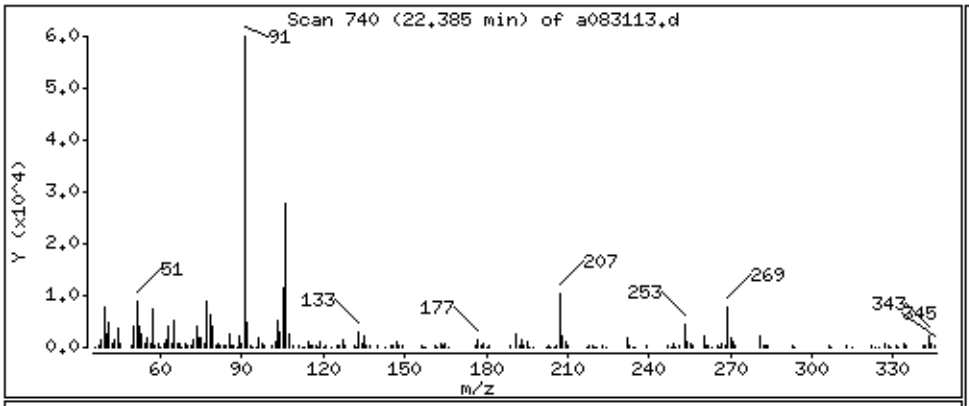
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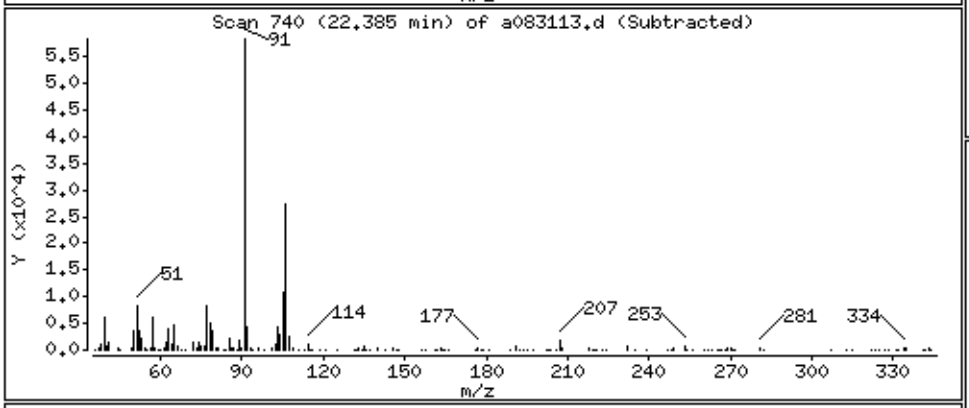
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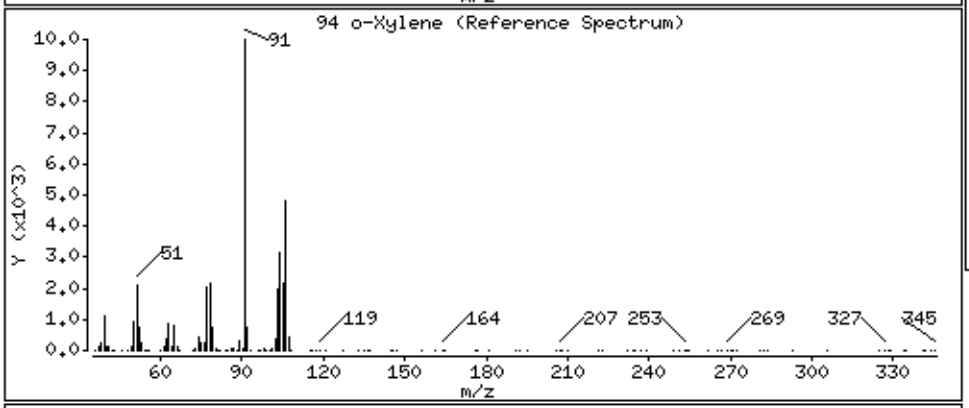
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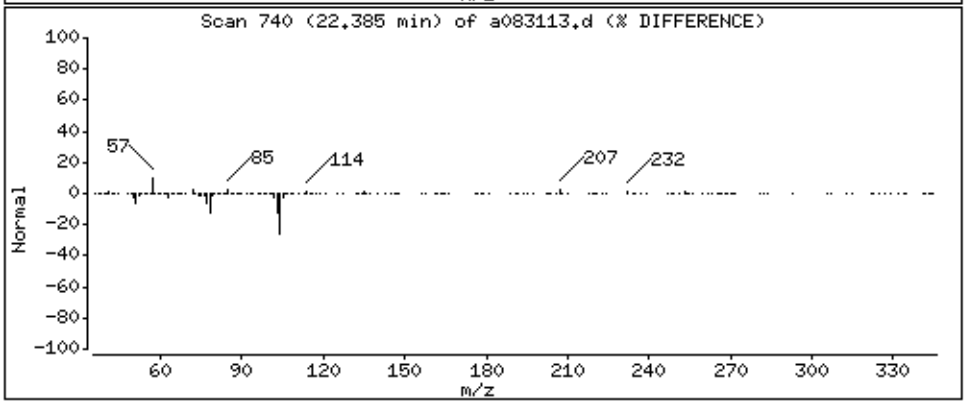
94 o-Xylene

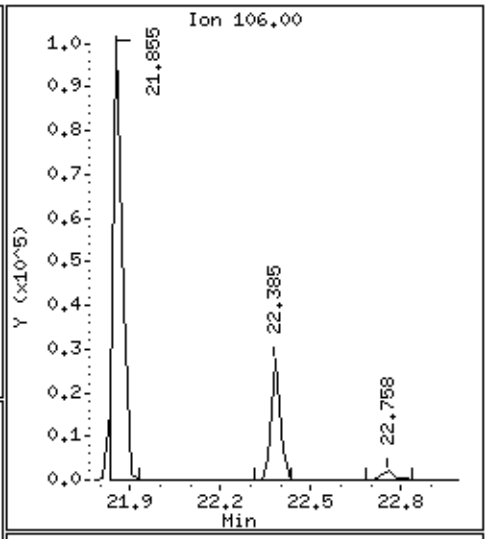
Concentration: 2.932 PPBV

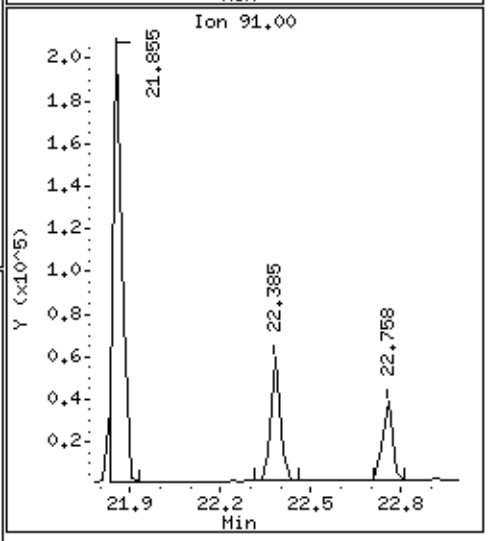


Data File: /chem/msda.i/31Aug2011.b/a083113.d

Date : 31-AUG-2011 17:22

Client ID:

Instrument: msda.i

Sample Info: 125mL #33325

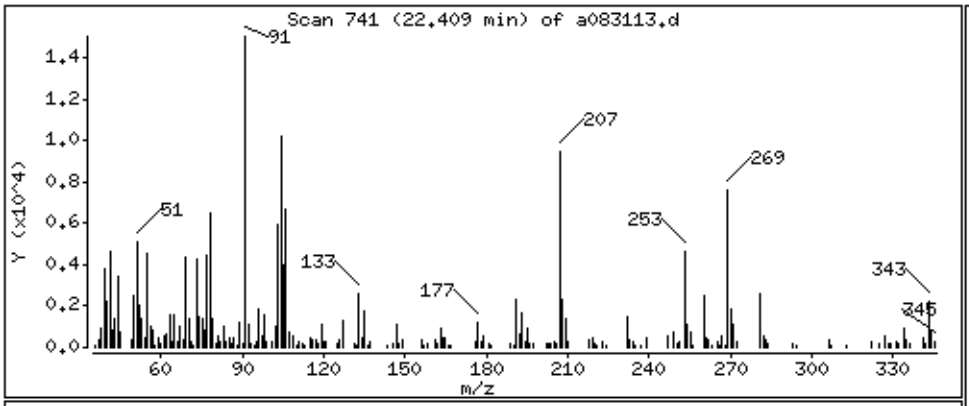
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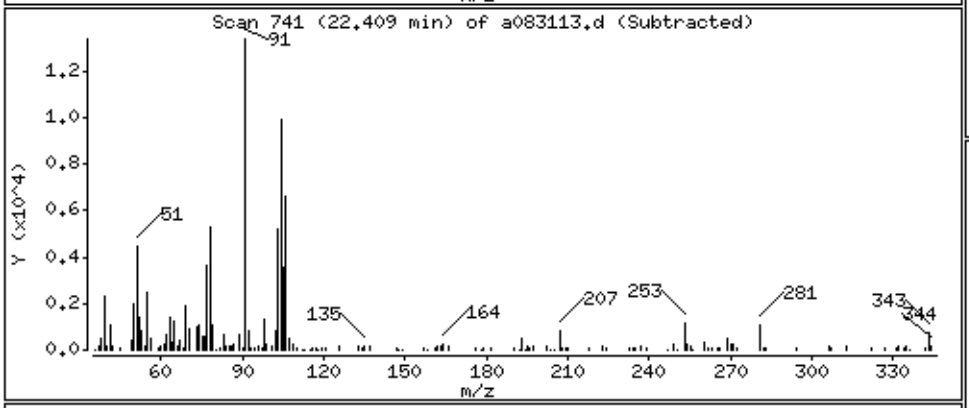
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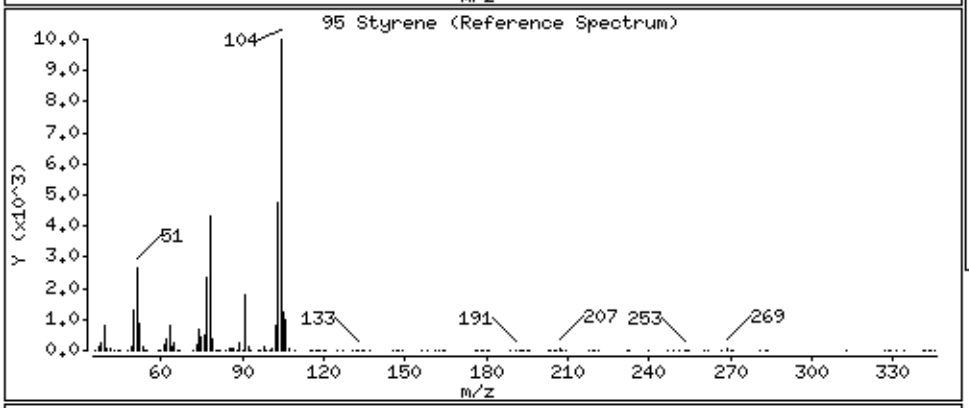
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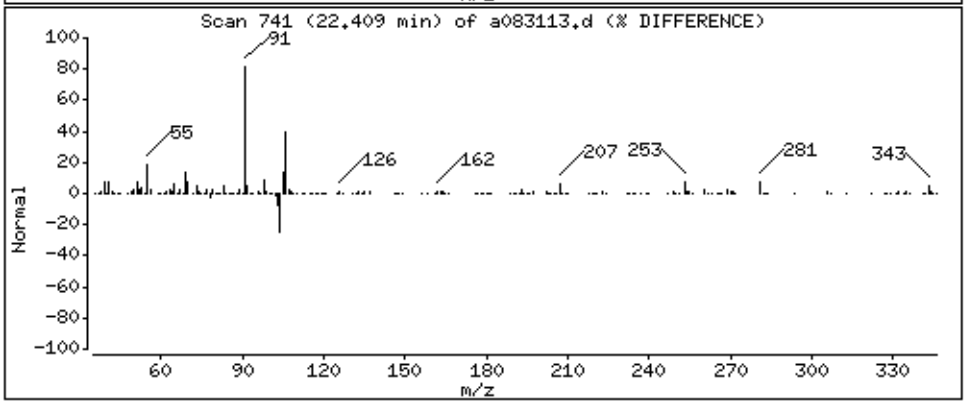
95 Styrene

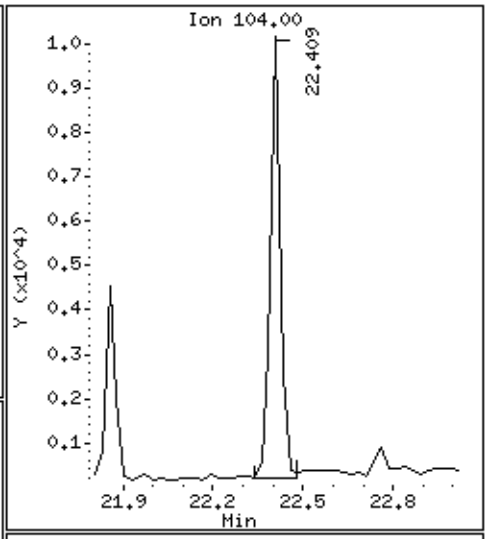
Concentration: 0.7239 PPBV

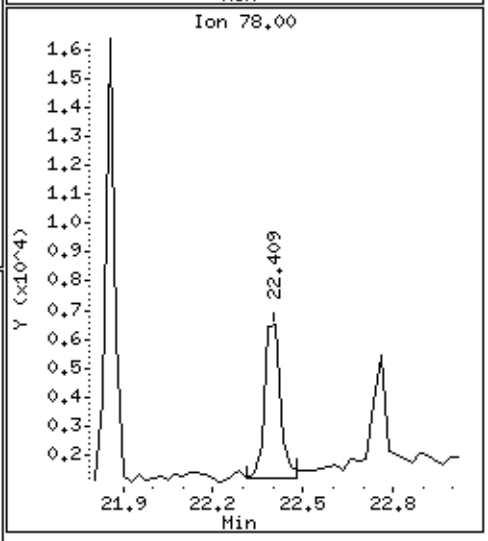


Data File: /chem/msda.i/31Aug2011.b/a083113.d

Date : 31-AUG-2011 17:22

Client ID:

Instrument: msda.i

Sample Info: 125mL #33325

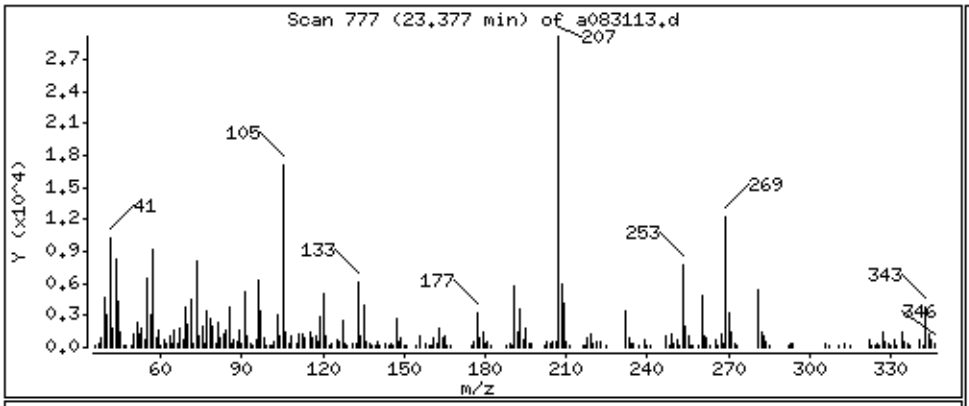
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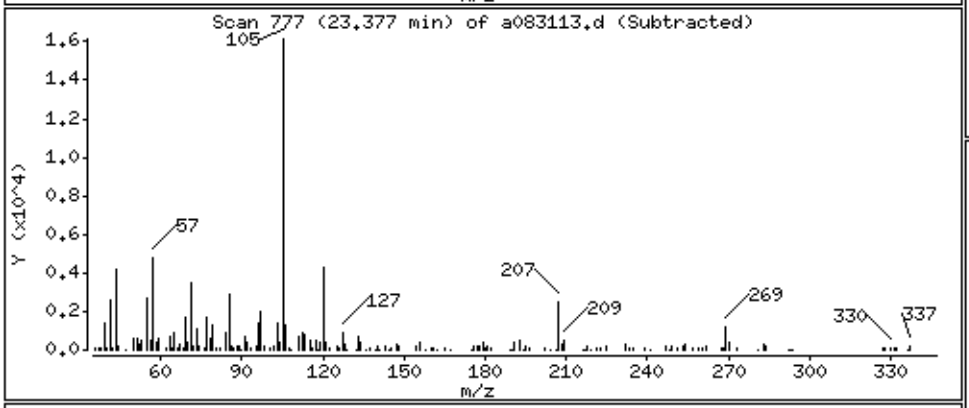
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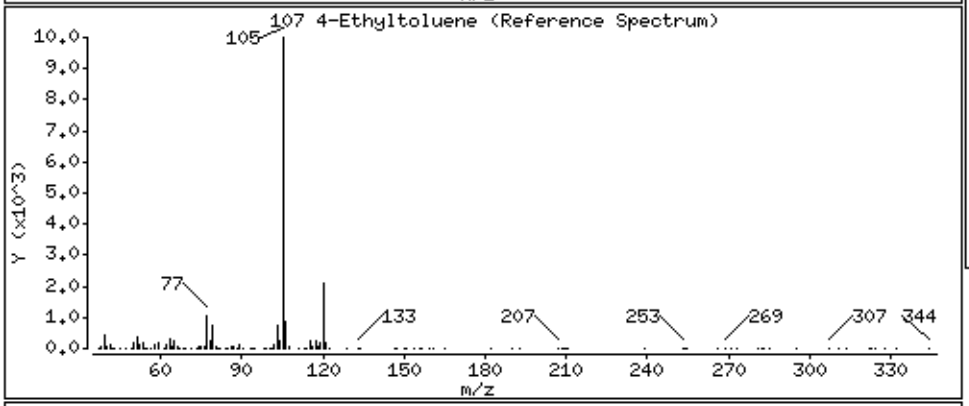
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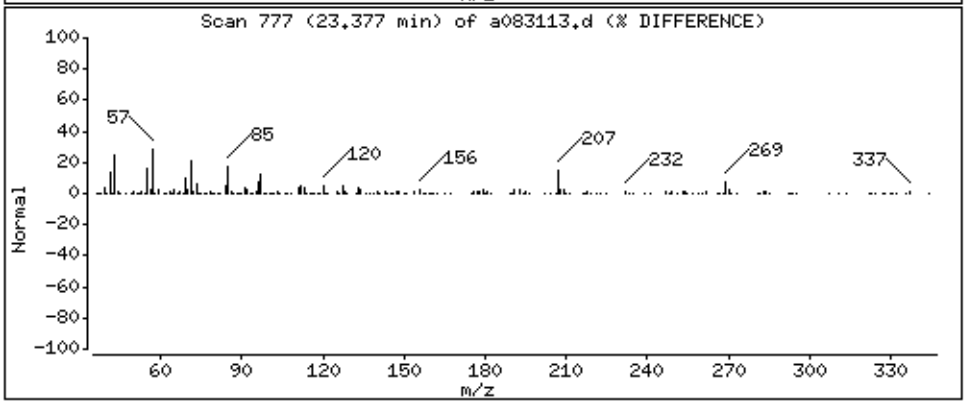
107 4-Ethyltoluene

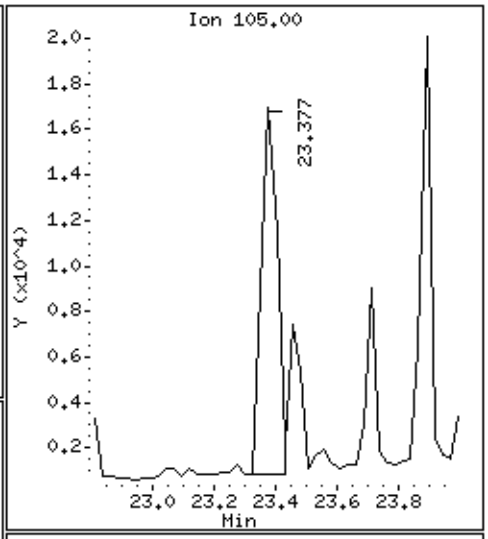
Concentration: 1.012 PPBV

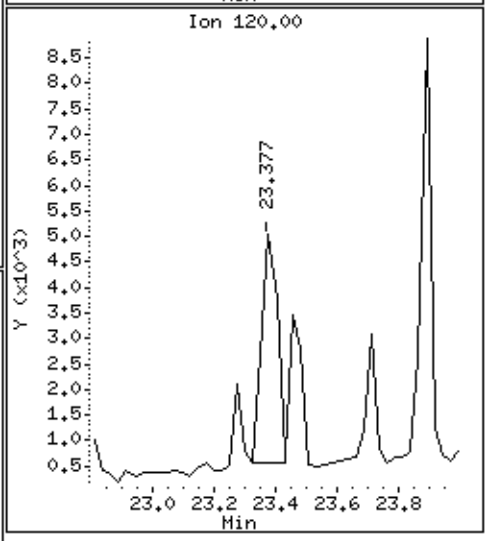


Data File: /chem/msda.i/31Aug2011.b/a083113.d

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Instrument: msda.i

Sample Info: 125mL #33325

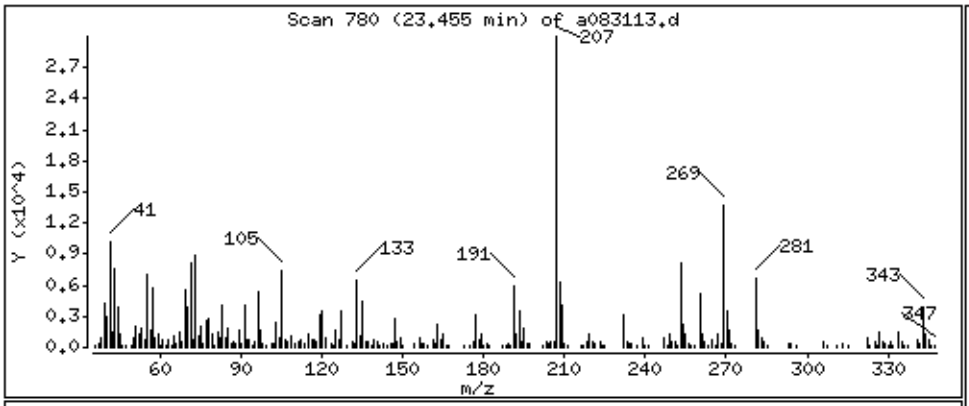
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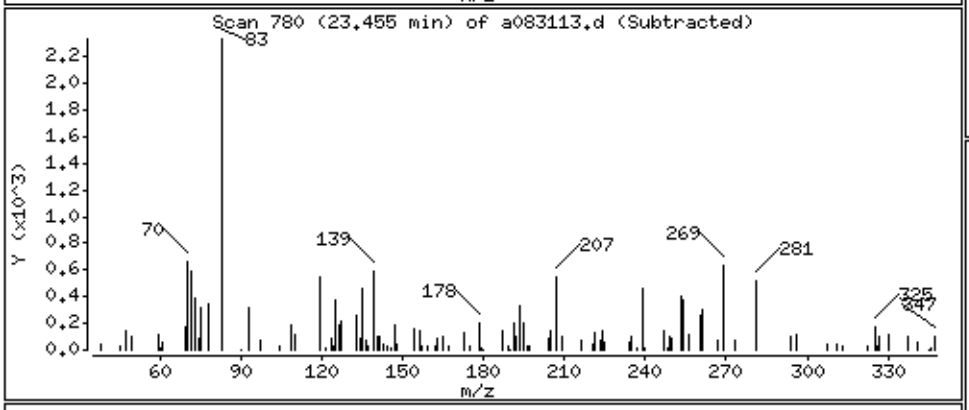
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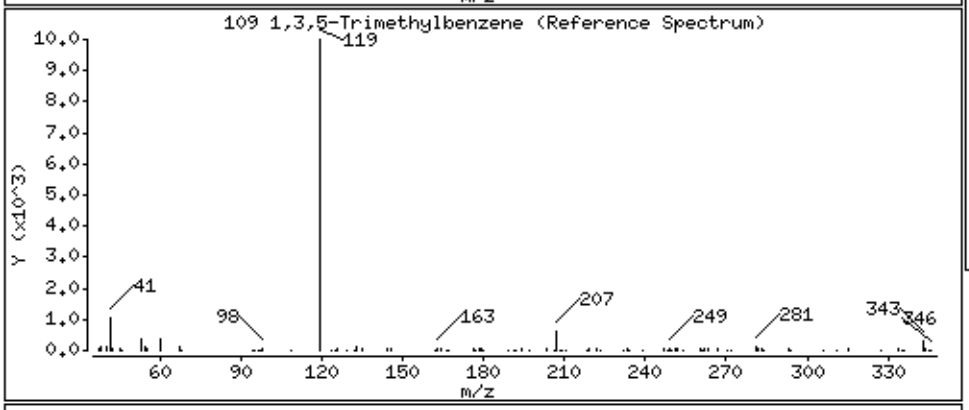
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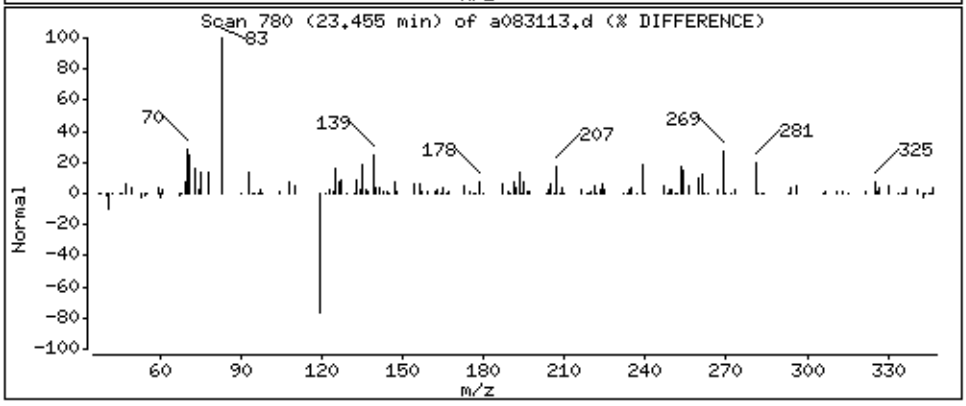
109 1,3,5-Trimethylbenzene

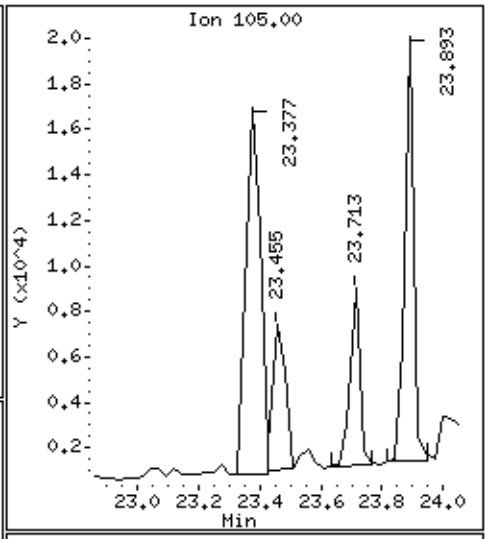
Concentration: 0.4188 PPBV

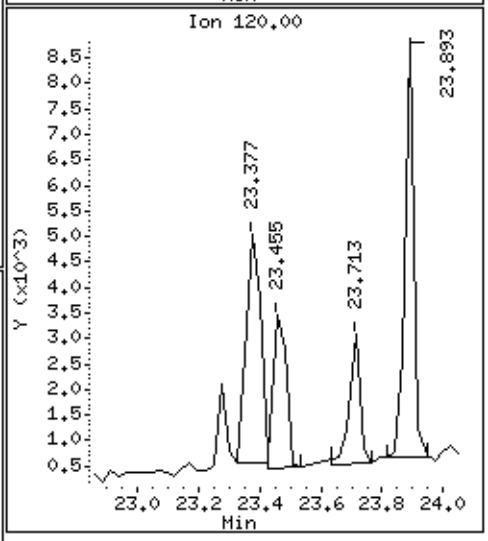


Data File: /chem/msda.i/31Aug2011.b/a083113.d

Date : 31-AUG-2011 17:22

Client ID:

Instrument: msda.i

Sample Info: 125mL #33325

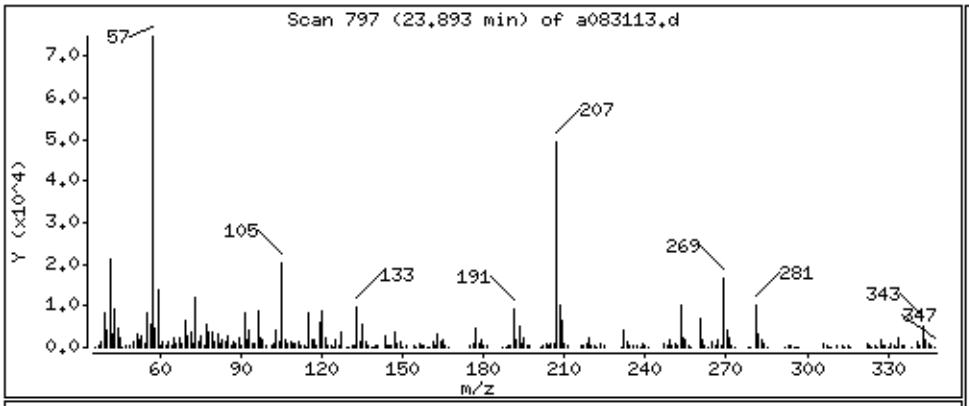
Operator: jc

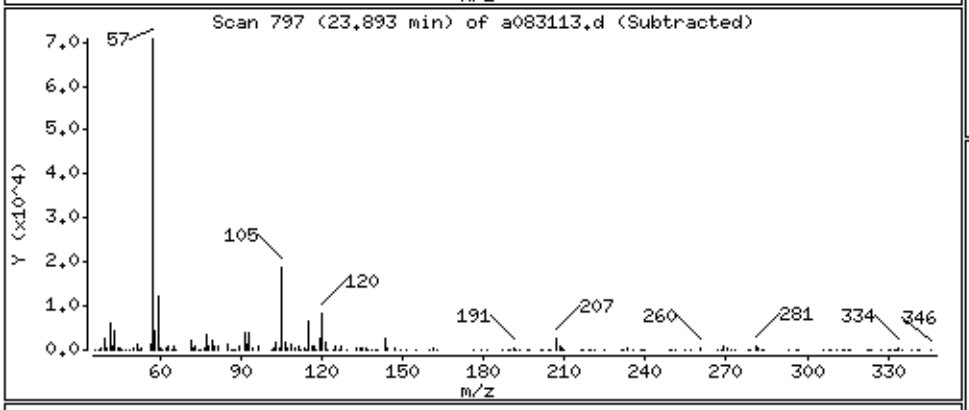
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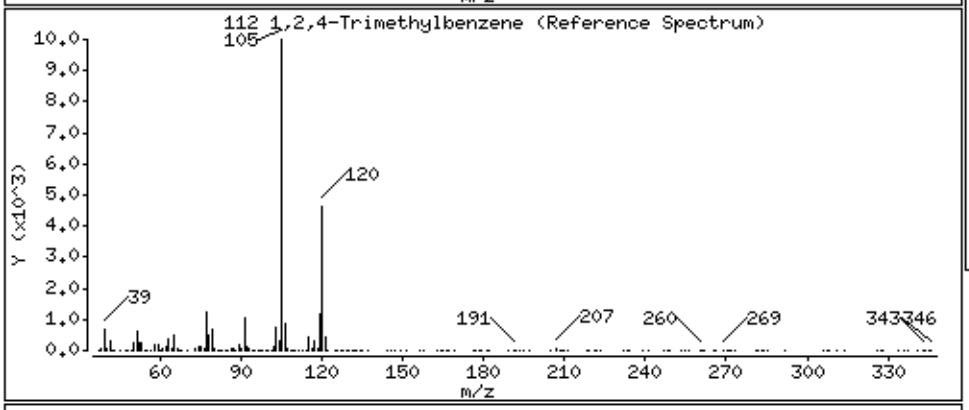
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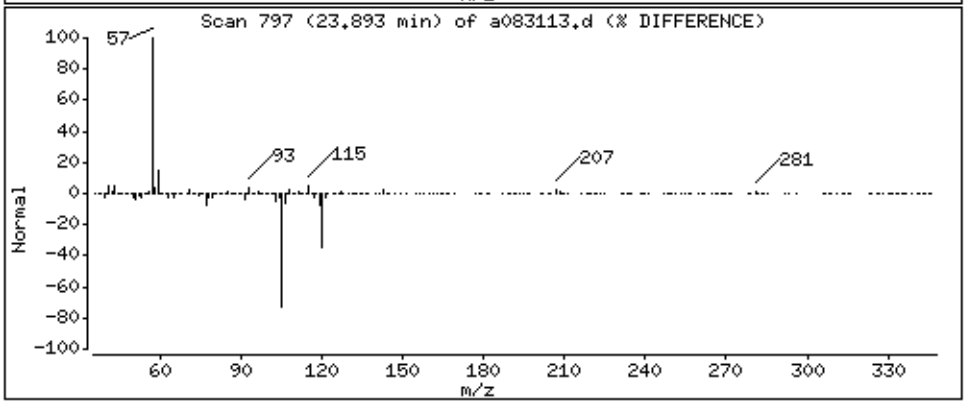
112 1,2,4-Trimethylbenzene

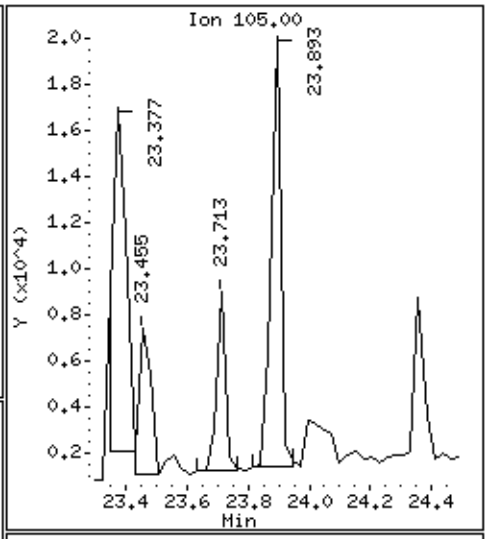
Concentration: 0.9538 PPBV

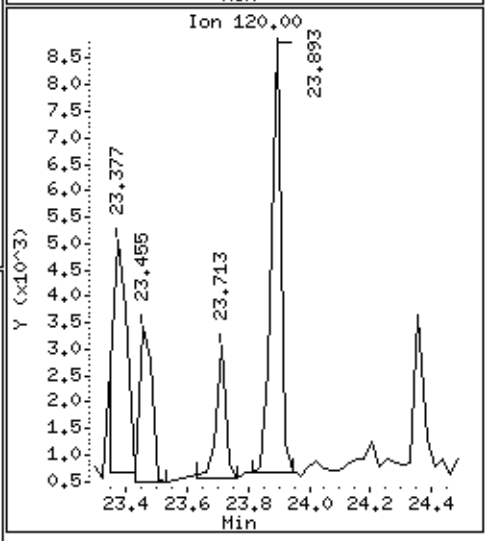


Data File: /chem/msda.i/31Aug2011.b/a083113.d

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Client ID:

Instrument: msda.i

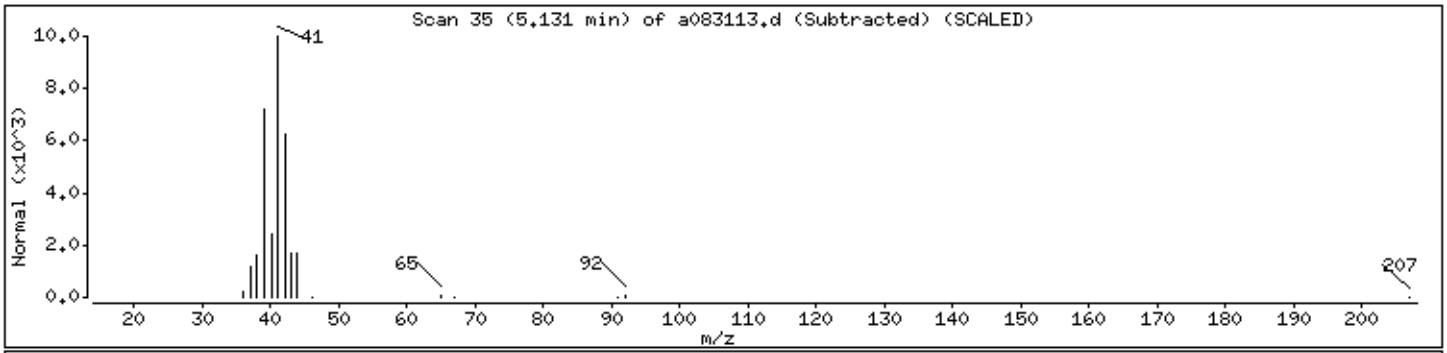
Sample Info: 125mL #33325

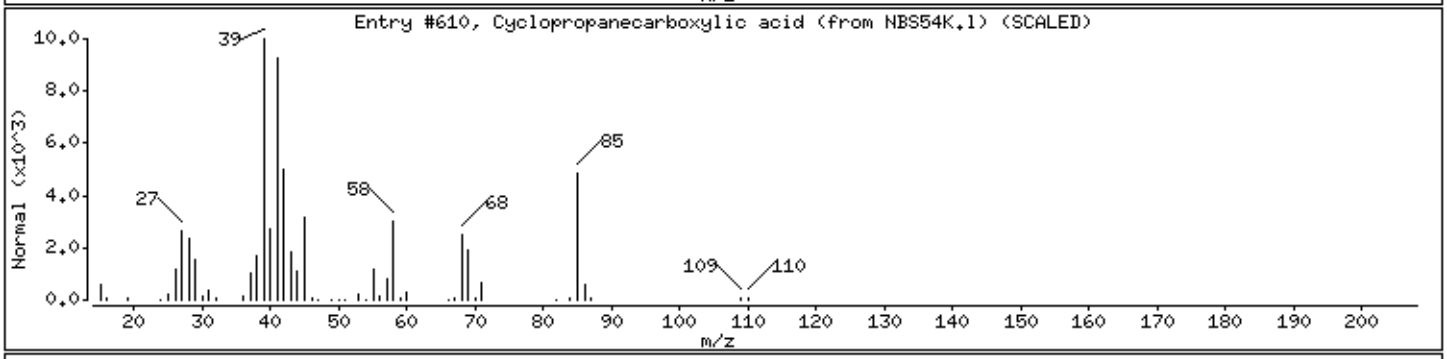
Operator: jc

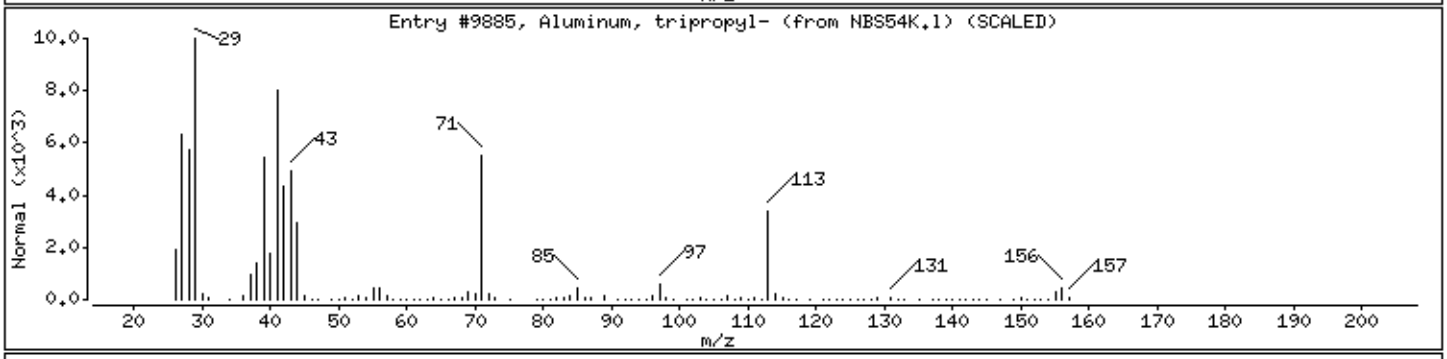
Column phase: RTx-624

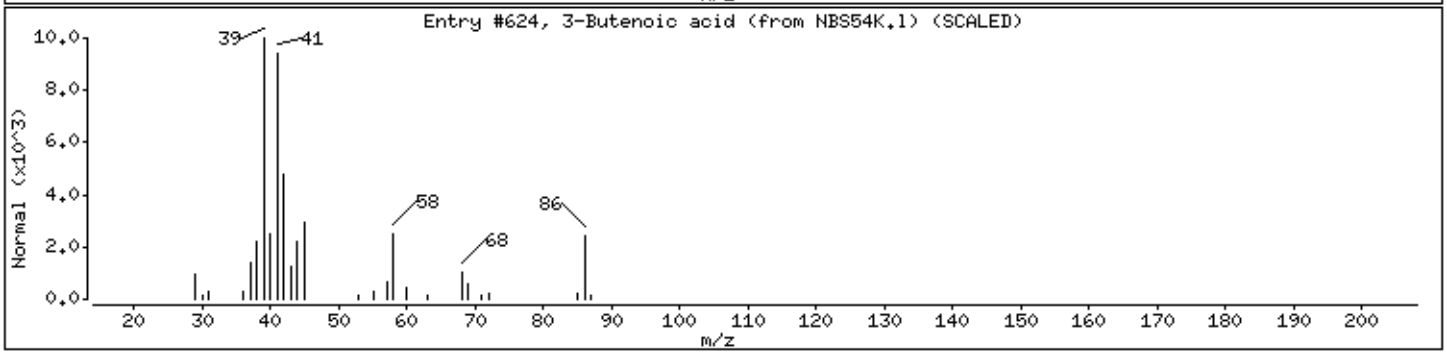
Column diameter: 0.32

| Library Search Compound Match | CAS Number | Library | Entry | Quality | Formula | Weight |
|---|---|---|---|---|---|---|
| Cyclopropanecarboxylic acid | 1759-53-1 | NBS54K.l | 610 | 64 | C4H6O2 | 86 |
| Aluminum, tripropyl- | 102-67-0 | NBS54K.l | 9885 | 56 | C9H21Al | 156 |
| 3-Butenoic acid | 625-38-7 | NBS54K.l | 624 | 50 | C4H6O2 | 86 |



Data File: /chem/msda.i/31Aug2011.b/a083113.d

Date : 31-AUG-2011 17:22

Client ID:

Instrument: msda.i

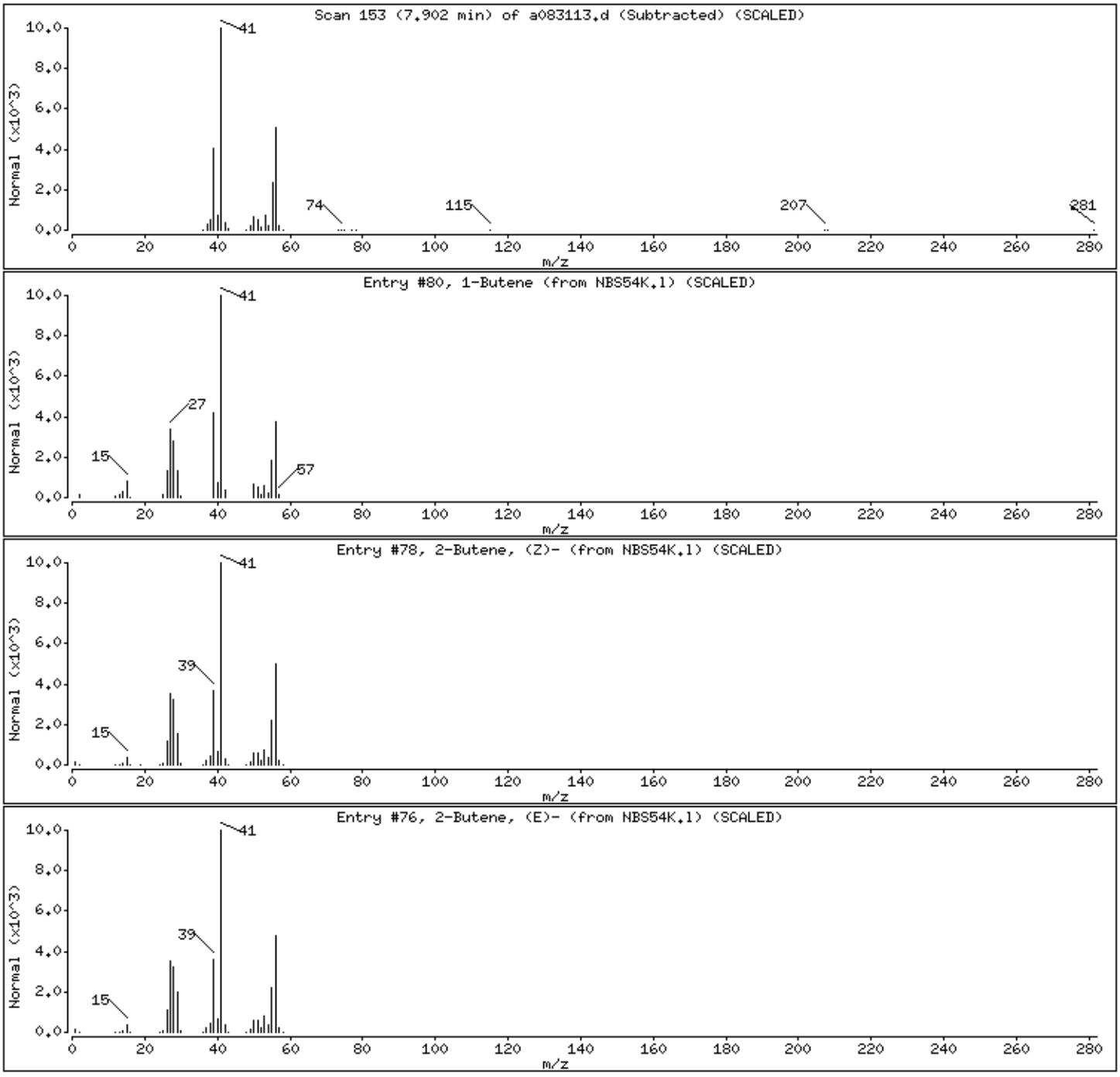
Sample Info: 125mL #33325

Operator: jc

Column phase: RTx-624

Column diameter: 0.32

| Library Search Compound Match | CAS Number | Library | Entry | Quality | Formula | Weight |
|---|---|---|---|---|---|---|
| 1-Butene | 106-98-9 | NBS54K.l | 80 | 80 | C4H8 | 56 |
| 2-Butene, (Z)- | 590-18-1 | NBS54K.l | 78 | 80 | C4H8 | 56 |
| 2-Butene, (E)- | 624-64-6 | NBS54K.l | 76 | 80 | C4H8 | 56 |



Data File: /chem/msda.i/31Aug2011.b/a083113.d

Date : 31-AUG-2011 17:22

Client ID:

Instrument: msda.i

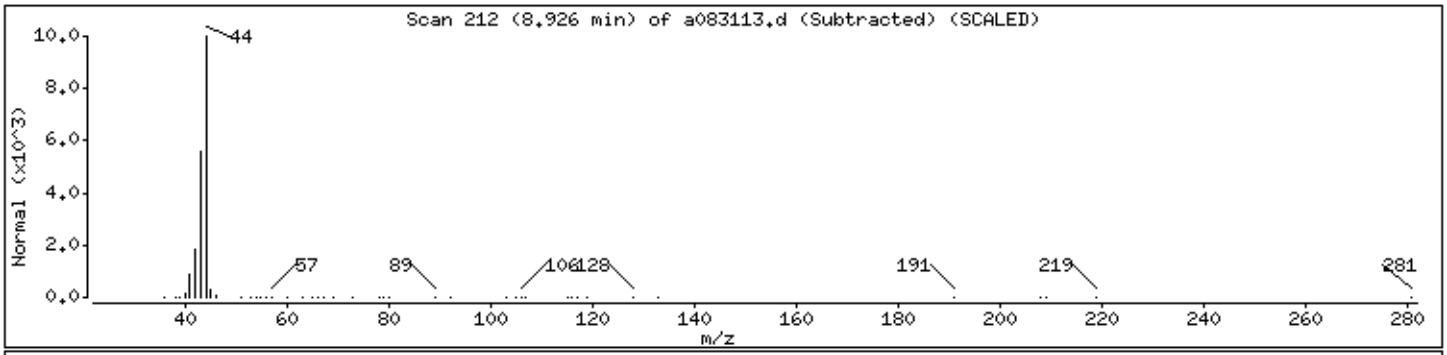
Sample Info: 125mL #33325

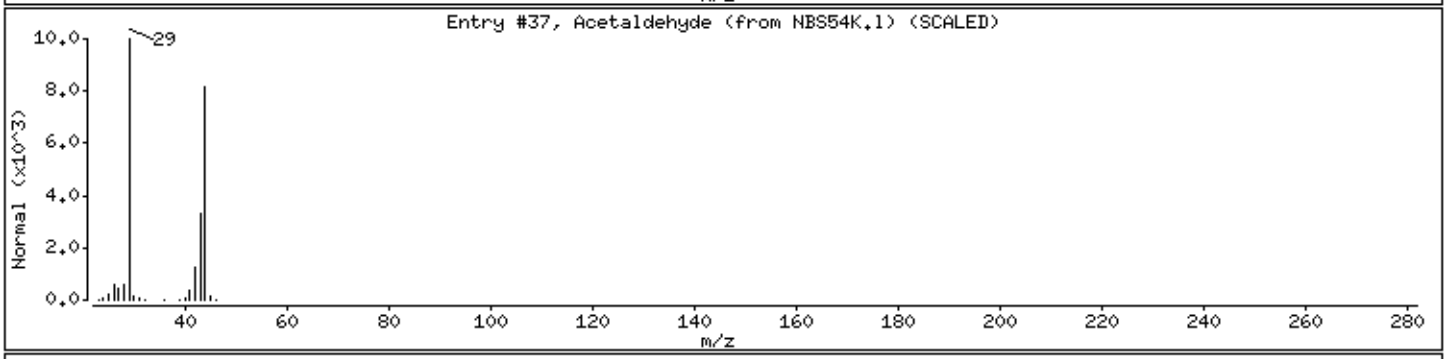
Operator: jc

Column phase: RTx-624

Column diameter: 0.32

| Library Search Compound Match | CAS Number | Library | Entry | Quality | Formula | Weight |
|---|---|---|---|---|---|---|
| Acetaldehyde | 75-07-0 | NBS54K.l | 37 | 86 | C2H4O | 44 |



Data File: /chem/msda.i/31Aug2011.b/a083113.d

Date : 31-AUG-2011 17:22

Client ID:

Instrument: msda.i

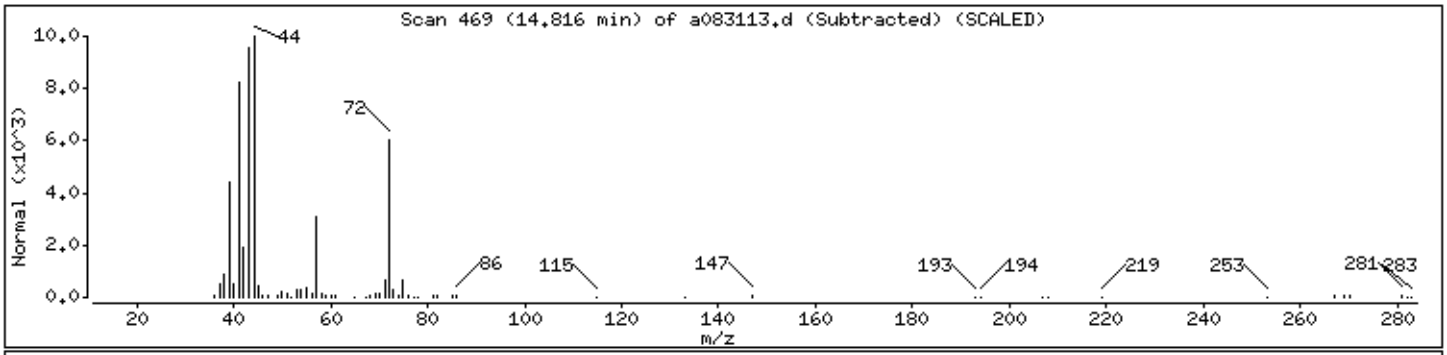
Sample Info: 125mL #33325

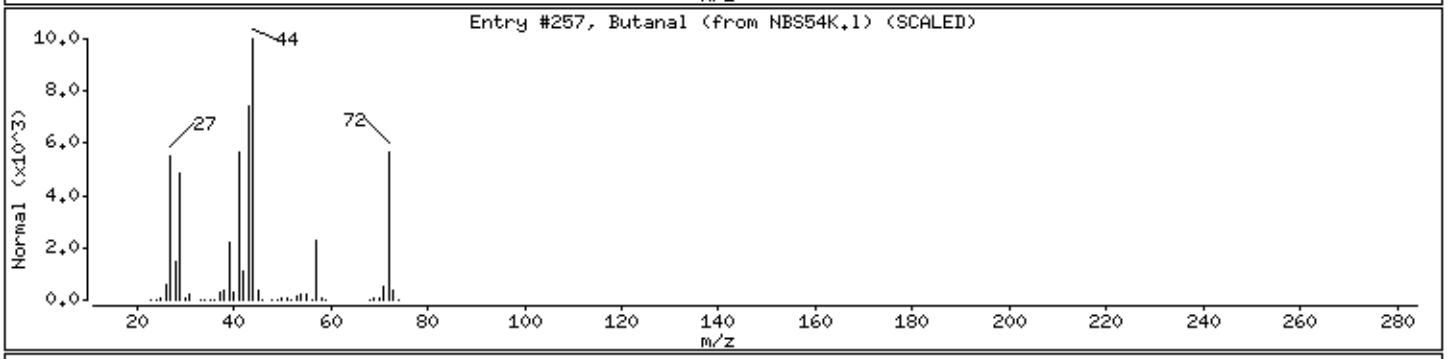
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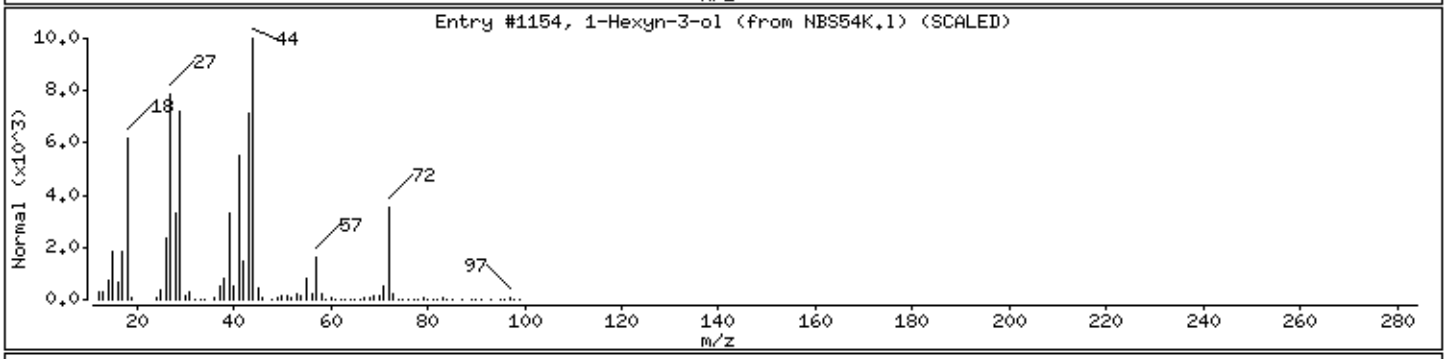
Column phase: RTx-624

Column diameter: 0.32

| Library Search Compound Match | CAS Number | Library | Entry | Quality | Formula | Weight |
|---|---|---|---|---|---|---|
| Butanal | 123-72-8 | NBS54K.l | 257 | 58 | C4H8O | 72 |
| 1-Hexyn-3-ol | 105-31-7 | NBS54K.l | 1154 | 50 | C6H10O | 98 |



Data File: /chem/msda.i/31Aug2011.b/a083113.d

Date : 31-AUG-2011 17:22

Client ID:

Instrument: msda.i

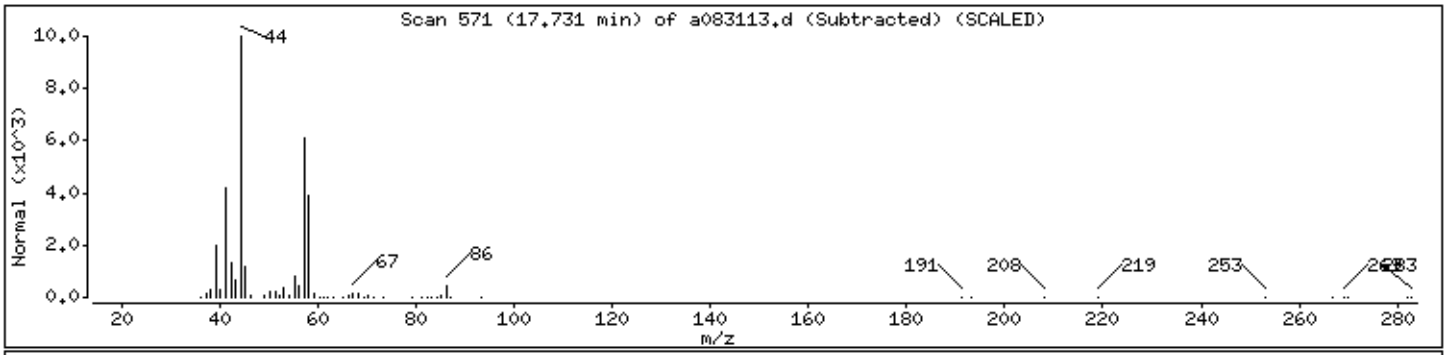
Sample Info: 125mL #33325

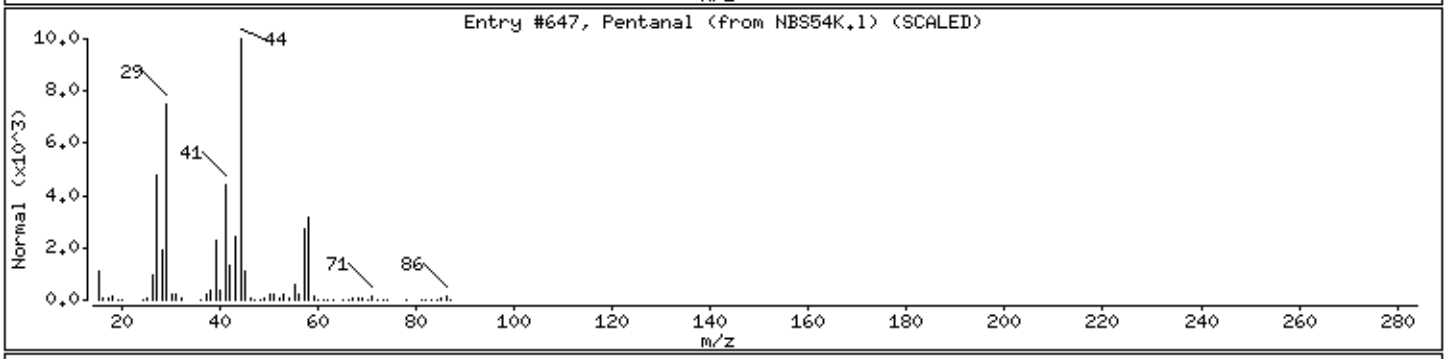
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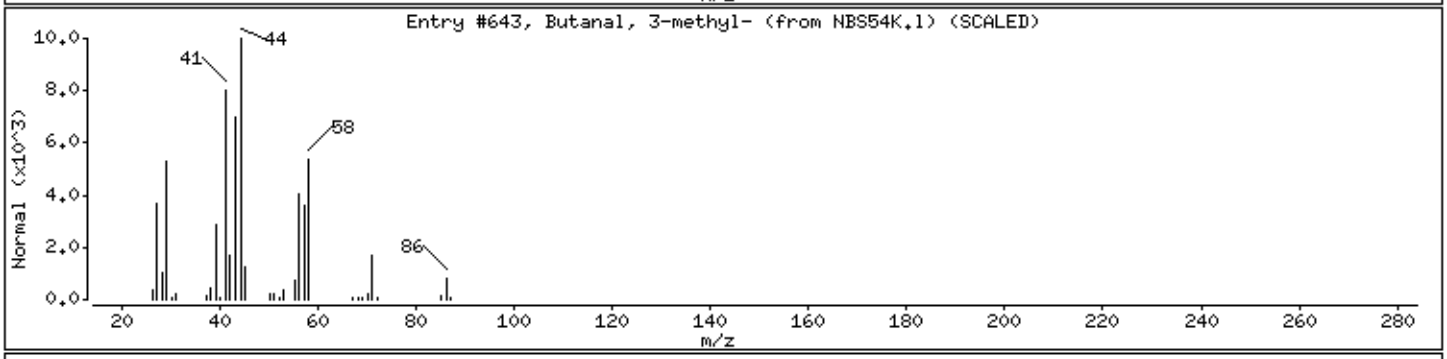
Column phase: RTx-624

Column diameter: 0.32

| Library Search Compound Match | CAS Number | Library | Entry | Quality | Formula | Weight |
|---|---|---|---|---|---|---|
| Pentanal | 110-62-3 | NBS54K.l | 647 | 59 | C5H10O | 86 |
| Butanal, 3-methyl- | 590-86-3 | NBS54K.l | 643 | 53 | C5H10O | 86 |



Data File: /chem/msda.i/31Aug2011.b/a083113.d

Date : 31-AUG-2011 17:22

Client ID:

Instrument: msda.i

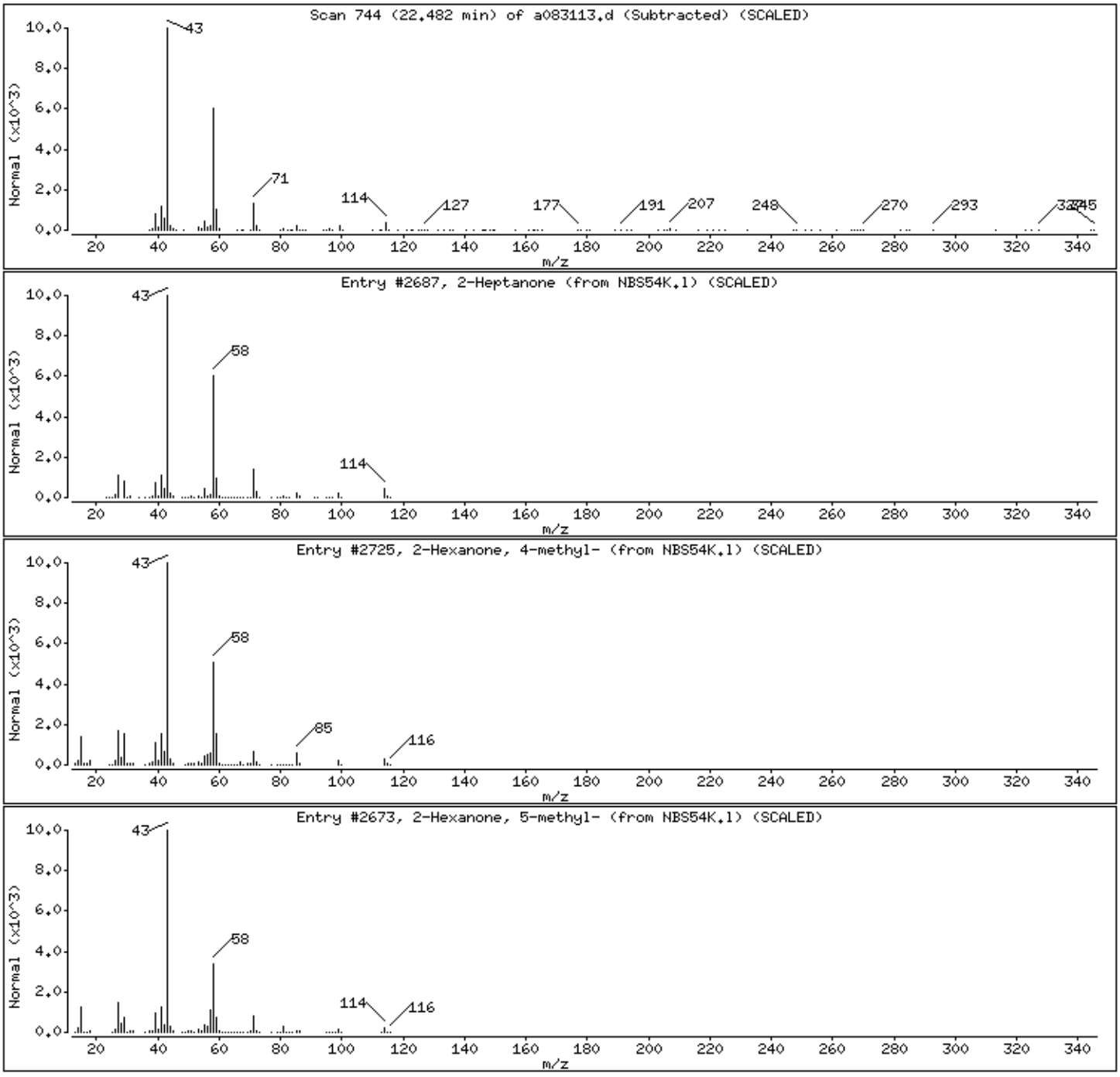
Sample Info: 125mL #33325

Operator: jc

Column phase: RTx-624

Column diameter: 0.32

| Library Search Compound Match | CAS Number | Library | Entry | Quality | Formula | Weight |
|---|---|---|---|---|---|---|
| 2-Heptanone | 110-43-0 | NBS54K.l | 2687 | 91 | C7H140 | 114 |
| 2-Hexanone, 4-methyl- | 105-42-0 | NBS54K.l | 2725 | 72 | C7H140 | 114 |
| 2-Hexanone, 5-methyl- | 110-12-3 | NBS54K.l | 2673 | 64 | C7H140 | 114 |



Data File: /chem/msda.i/31Aug2011.b/a083113.d

Date : 31-AUG-2011 17:22

Client ID:

Instrument: msda.i

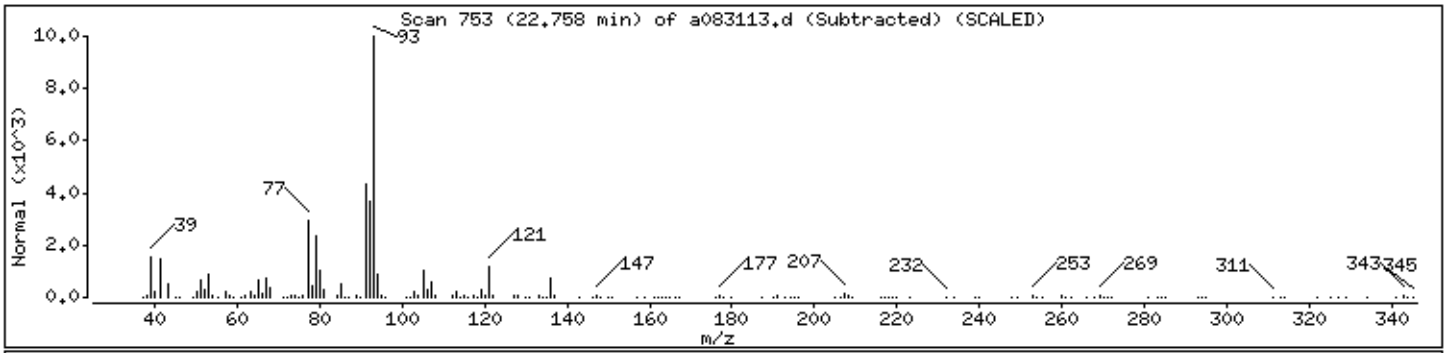
Sample Info: 125mL #33325

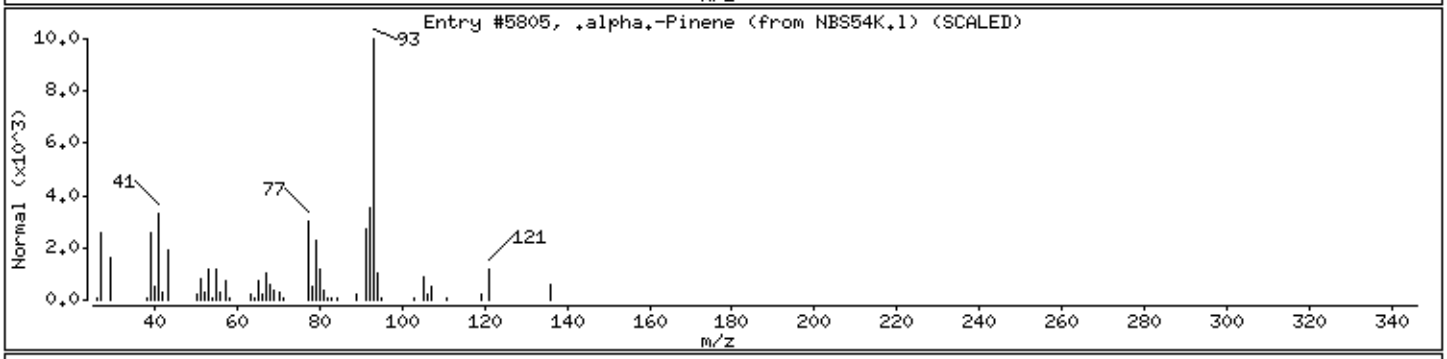
Operator: jc

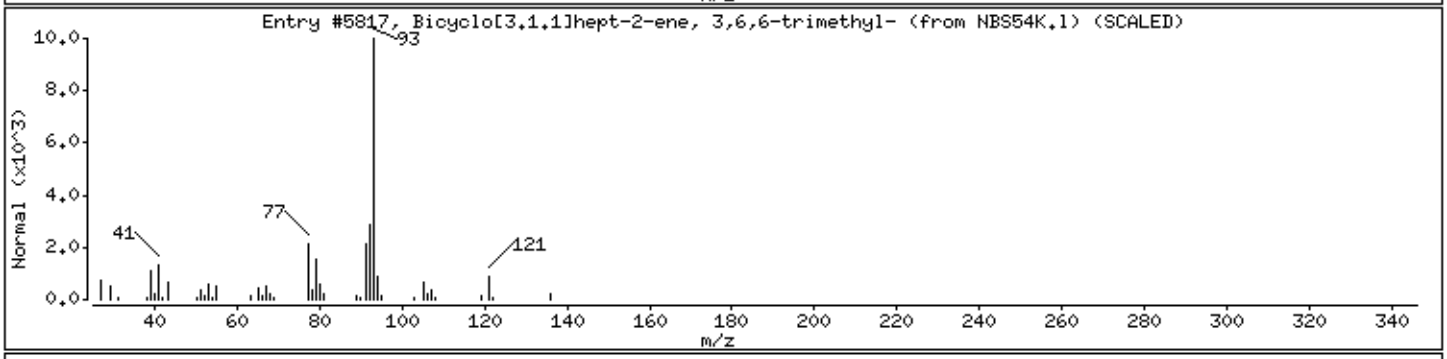
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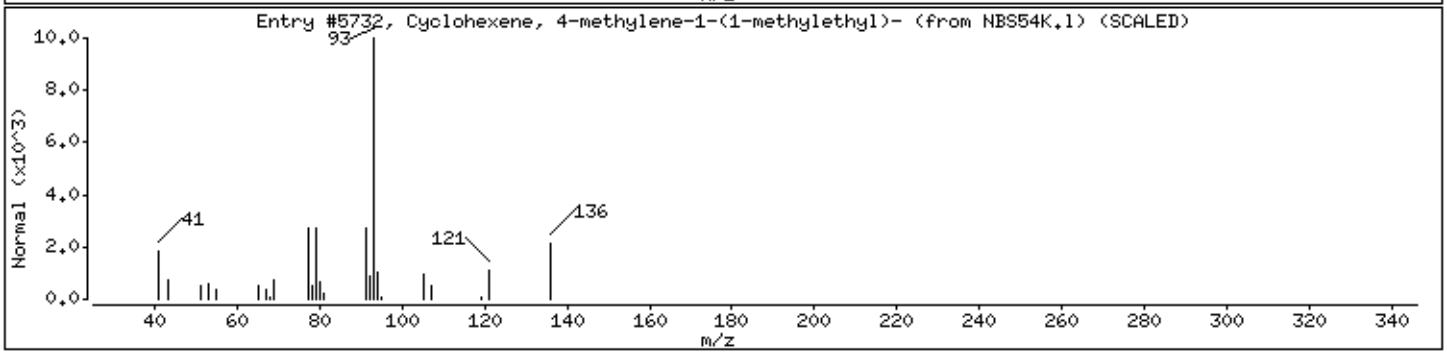
Column diameter: 0.32

| Library Search Compound Match | CAS Number | Library | Entry | Quality | Formula | Weight |
|---|---|---|---|---|---|---|
| .alpha.-Pinene | 80-56-8 | NBS54K.l | 5805 | 95 | C10H16 | 136 |
| Bicyclo[3.1.1]hept-2-ene, 3,6,6-trimethy | 4889-83-2 | NBS54K.l | 5817 | 91 | C10H16 | 136 |
| Cyclohexene, 4-methylene-1-(1-methylethy | 99-84-3 | NBS54K.l | 5732 | 87 | C10H16 | 136 |



Data File: /chem/msda.i/31Aug2011.b/a083113.d

Date : 31-AUG-2011 17:22

Client ID:

Instrument: msda.i

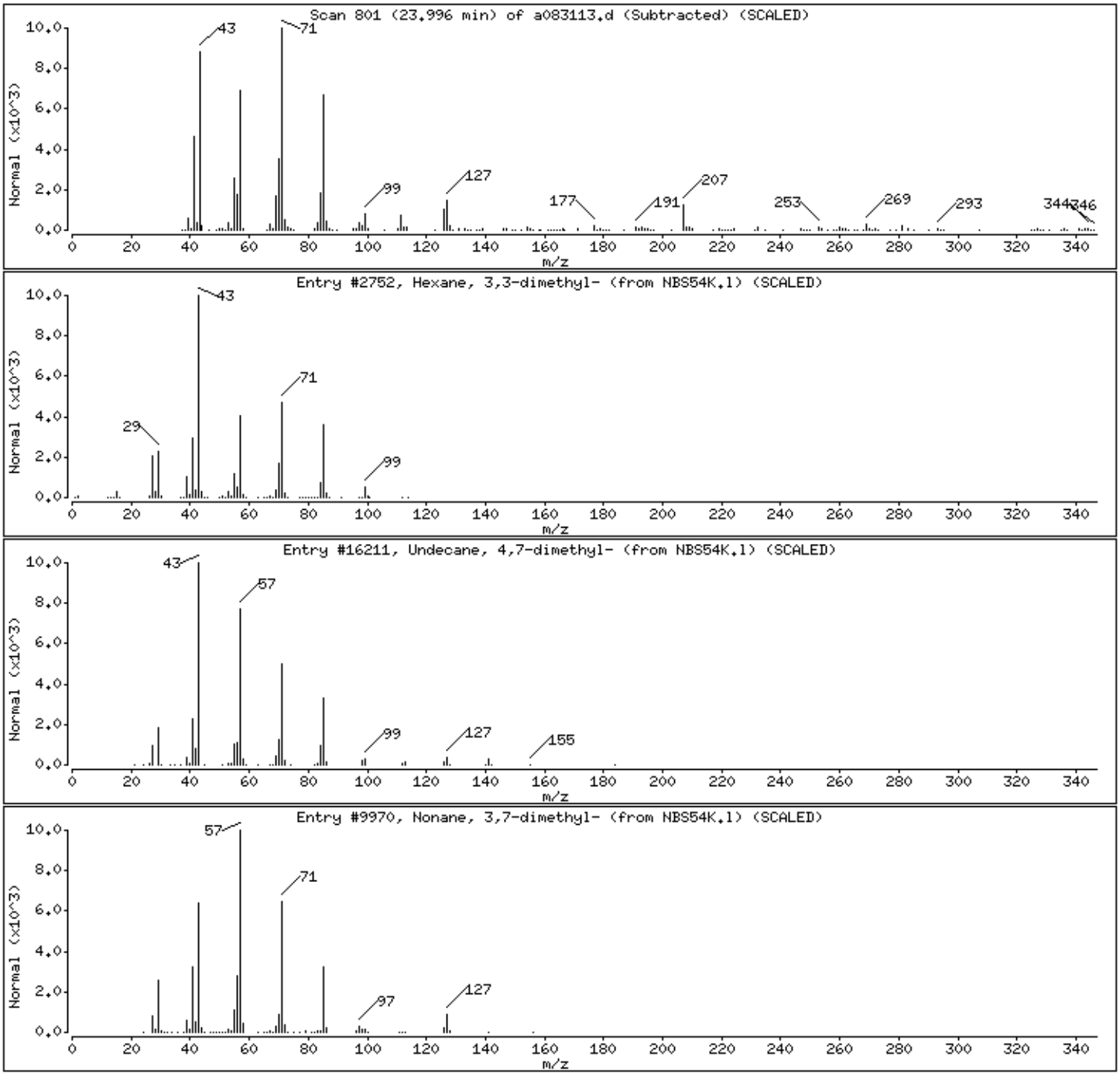
Sample Info: 125mL #33325

Operator: jc

Column phase: RTx-624

Column diameter: 0.32

| Library Search Compound Match | CAS Number | Library | Entry | Quality | Formula | Weight |
|---|---|---|---|---|---|---|
| Hexane, 3,3-dimethyl- | 563-16-6 | NBS54K.l | 2752 | 64 | C8H18 | 114 |
| Undecane, 4,7-dimethyl- | 17301-32-5 | NBS54K.l | 16211 | 59 | C13H28 | 184 |
| Nonane, 3,7-dimethyl- | 17302-32-8 | NBS54K.l | 9970 | 59 | C11H24 | 156 |



Data File: /chem/msda.i/31Aug2011.b/a083113.d

Date : 31-AUG-2011 17:22

Client ID:

Instrument: msda.i

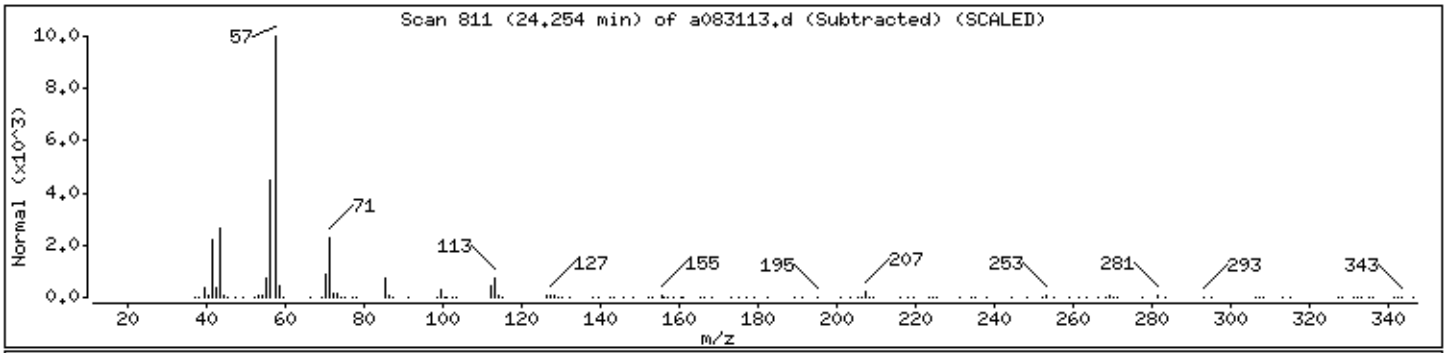
Sample Info: 125mL #33325

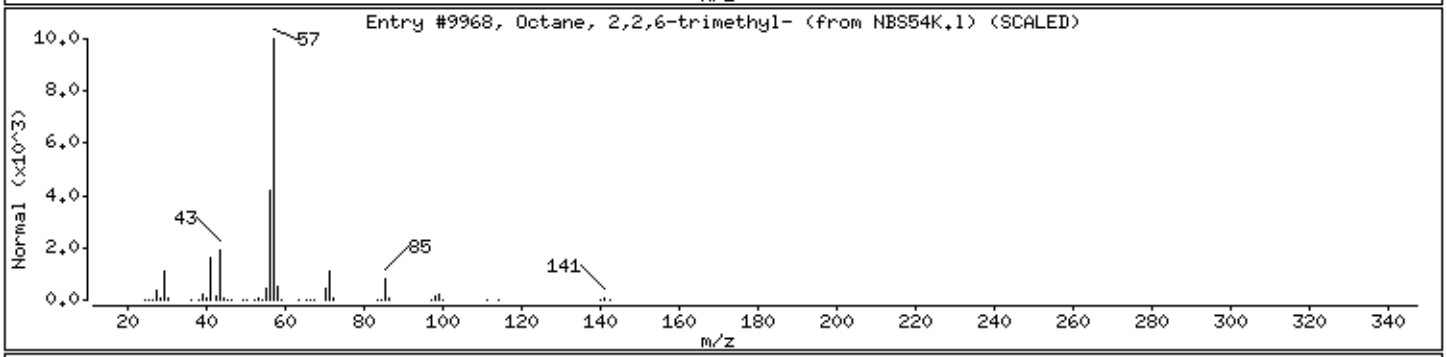
Operator: jc

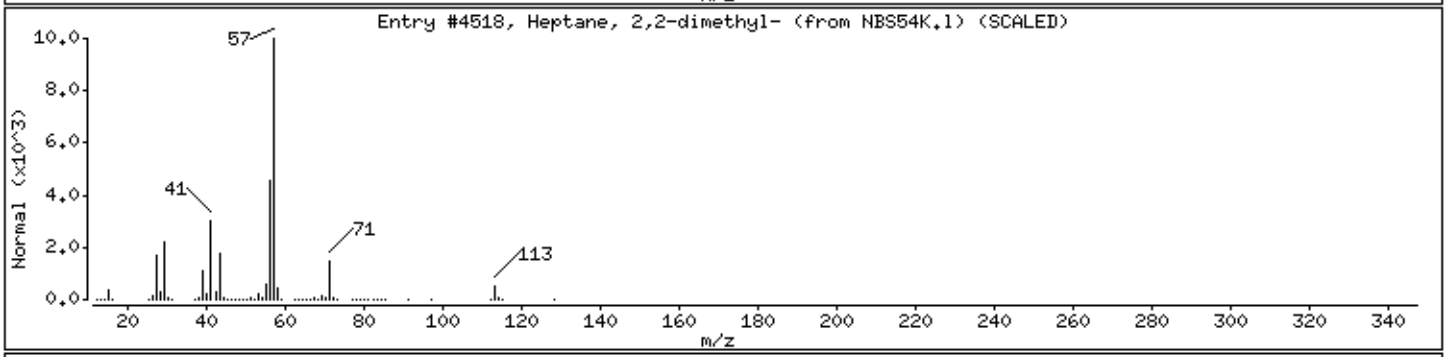
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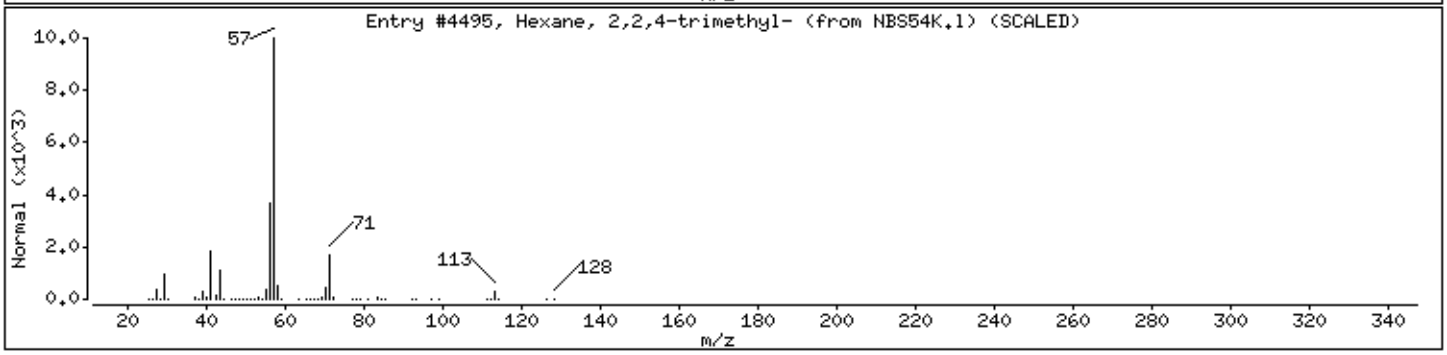
Column diameter: 0.32

| Library Search Compound Match | CAS Number | Library | Entry | Quality | Formula | Weight |
|---|---|---|---|---|---|---|
| Octane, 2,2,6-trimethyl- | 62016-28-8 | NBS54K.l | 9968 | 59 | C11H24 | 156 |
| Heptane, 2,2-dimethyl- | 1071-26-7 | NBS54K.l | 4518 | 59 | C9H20 | 128 |
| Hexane, 2,2,4-trimethyl- | 16747-26-5 | NBS54K.l | 4495 | 56 | C9H20 | 128 |



Data File: /chem/msda.i/31Aug2011.b/a083113.d

Date : 31-AUG-2011 17:22

Client ID:

Instrument: msda.i

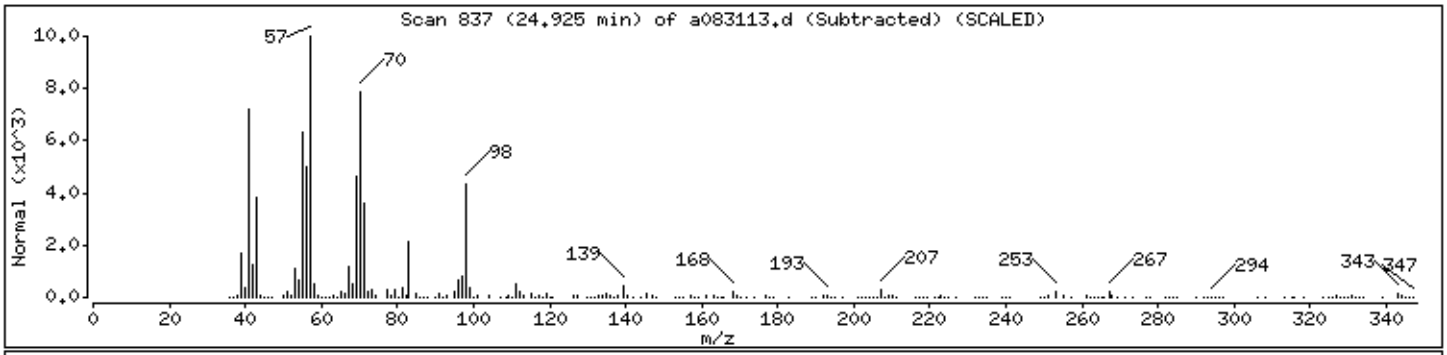
Sample Info: 125mL #33325

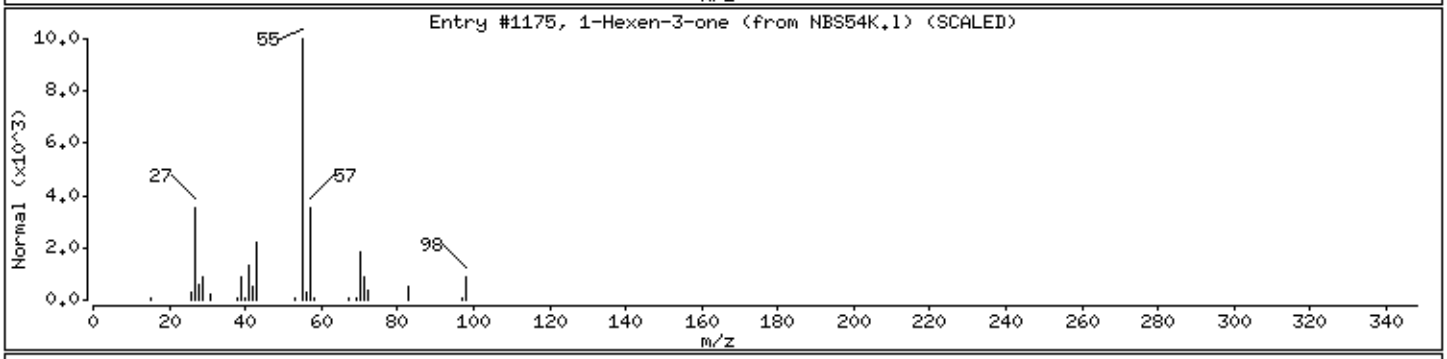
Operator: jc

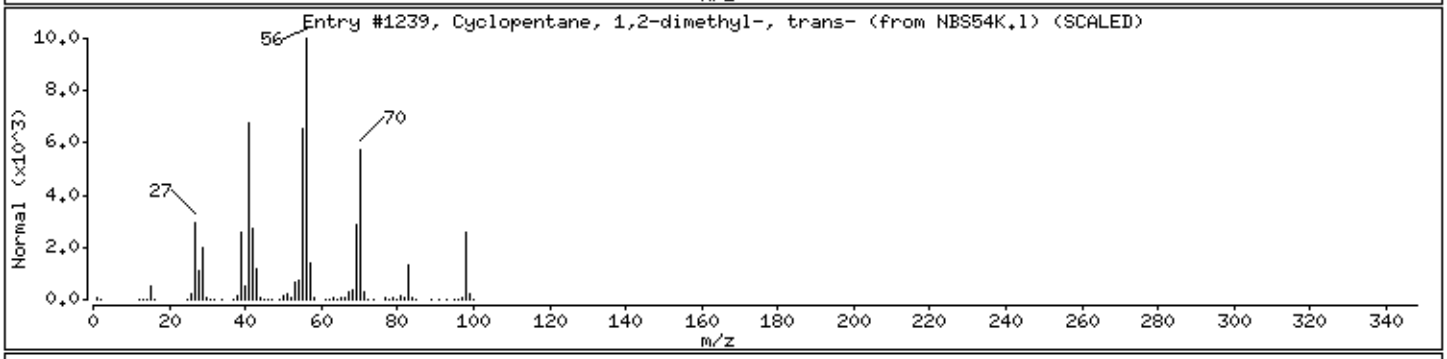
Column phase: RTx-624

Column diameter: 0.32

| Library Search Compound Match | CAS Number | Library | Entry | Quality | Formula | Weight |
|---|---|---|---|---|---|---|
| Unknown | | | | | | |
| 1-Hexen-3-one | 1629-60-3 | NBS54K.l | 1175 | 53 | C6H10O | 98 |
| Cyclopentane, 1,2-dimethyl-, trans- | 822-50-4 | NBS54K.l | 1239 | 50 | C7H14 | 98 |



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# Summary of Detected Compounds
# MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

**Client Sample ID: SG-8**

**Lab ID#: 1108582-04A**

| Compound | Rpt. Limit (ppbv) | Amount (ppbv) | Rpt. Limit (ug/m3) | Amount (ug/m3) |
|---|---|---|---|---|
| Chloromethane | 0.84 | 1.9 | 1.7 | 4.0 |
| 1,3-Butadiene | 0.84 | 14 | 1.8 | 30 |
| Freon 11 | 0.84 | 0.88 | 4.7 | 5.0 |
| Ethanol | 4.2 | 62 J | 7.9 | 120 J |
| Acetone | 4.2 | 2000 E | 10 | 4900 E |
| 2-Propanol | 4.2 | 13 | 10 | 32 |
| Carbon Disulfide | 4.2 | 17 | 13 | 53 |
| Hexane | 0.84 | 11 | 3.0 | 39 |
| 2-Butanone (Methyl Ethyl Ketone) | 4.2 | 42 | 12 | 120 |
| Chloroform | 0.84 | 3.1 | 4.1 | 15 |
| 1,1,1-Trichloroethane | 0.84 | 1.1 | 4.6 | 6.0 |
| Cyclohexane | 0.84 | 3.0 | 2.9 | 10 |
| Benzene | 0.84 | 22 | 2.7 | 72 |
| Heptane | 0.84 | 5.9 | 3.4 | 24 |
| Trichloroethene | 0.84 | 8.2 | 4.5 | 44 |
| Toluene | 0.84 | 130 | 3.2 | 500 |
| Tetrachloroethene | 0.84 | 15 | 5.7 | 100 |
| Chlorobenzene | 0.84 | 7.5 | 3.9 | 34 |
| Ethyl Benzene | 0.84 | 91 | 3.6 | 400 |
| m,p-Xylene | 0.84 | 200 | 3.6 | 850 |
| o-Xylene | 0.84 | 48 | 3.6 | 210 |
| Cumene | 0.84 | 2.0 | 4.1 | 10 |
| Propylbenzene | 0.84 | 0.86 | 4.1 | 4.2 |
| 4-Ethyltoluene | 0.84 | 2.5 | 4.1 | 12 |
| 2-Methylpentane | 4.2 | 15 | 15 | 53 |
| Isopentane | 4.2 | 21 | 12 | 62 |

**TENTATIVELY IDENTIFIED COMPOUNDS**

| Compound | CAS Number | Match Quality | Amount (ppbv) |
|---|---|---|---|
| Cyclohexane, 1,3-dimethyl-, cis- | 638-04-0 | 94% | 760 NJ |
| Cyclohexane, 1,4-dimethyl-, cis- | 624-29-3 | 94% | 500 NJ |
| Cyclohexane, 1,4-dimethyl- | 589-90-2 | 91% | 640 NJ |

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# Summary of Detected Compounds
# MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

**Client Sample ID: SG-8**

**Lab ID#: 1108582-04A**

**TENTATIVELY IDENTIFIED COMPOUNDS**

| Compound | CAS Number | Match Quality | Amount (ppbv) |
|---|---|---|---|
| Cyclohexane, ethyl- | 1678-91-7 | 91% | 1000 NJ |
| Cyclohexane, 1,1,3-trimethyl- | 3073-66-3 | 50% | 900 NJ |
| Unknown | NA | NA | 540 J |
| Octane, 2,7-dimethyl- | 1072-16-8 | 64% | 540 NJ |
| Cyclohexane, 1,3,5-trimethyl-, (1.alpha. | 1795-27-3 | 91% | 560 NJ |
| Octane, 3-methyl- | 2216-33-3 | 50% | 510 NJ |
| Cyclohexane, 1,2,3-trimethyl-, (1.alpha. | 7667-55-2 | 91% | 740 NJ |

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**Client Sample ID: SG-8**

**Lab ID#: 1108582-04A**

**MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN**

| | | | |
|---|---|---|---|
| **File Name:** | **a083114** | **Date of Collection:** | **8/24/11 8:55:00 AM** |
| **Dil. Factor:** | **8.40** | **Date of Analysis:** | **8/31/11 06:05 PM** |

| Compound | Rpt. Limit (ppbv) | Amount (ppbv) | Rpt. Limit (ug/m3) | Amount (ug/m3) |
|---|---|---|---|---|
| Freon 12 | 0.84 | Not Detected | 4.2 | Not Detected |
| Freon 114 | 0.84 | Not Detected | 5.9 | Not Detected |
| Chloromethane | 0.84 | 1.9 | 1.7 | 4.0 |
| Vinyl Chloride | 0.84 | Not Detected | 2.1 | Not Detected |
| 1,3-Butadiene | 0.84 | 14 | 1.8 | 30 |
| Bromomethane | 0.84 | Not Detected | 3.3 | Not Detected |
| Chloroethane | 4.2 | Not Detected | 11 | Not Detected |
| Freon 11 | 0.84 | 0.88 | 4.7 | 5.0 |
| Ethanol | 4.2 | 62 J | 7.9 | 120 J |
| Freon 113 | 0.84 | Not Detected | 6.4 | Not Detected |
| 1,1-Dichloroethene | 0.84 | Not Detected | 3.3 | Not Detected |
| Acetone | 4.2 | 2000 E | 10 | 4900 E |
| 2-Propanol | 4.2 | 13 | 10 | 32 |
| Carbon Disulfide | 4.2 | 17 | 13 | 53 |
| 3-Chloropropene | 4.2 | Not Detected | 13 | Not Detected |
| Methylene Chloride | 1.7 | Not Detected | 5.8 | Not Detected |
| Methyl tert-butyl ether | 0.84 | Not Detected | 3.0 | Not Detected |
| trans-1,2-Dichloroethene | 0.84 | Not Detected | 3.3 | Not Detected |
| Hexane | 0.84 | 11 | 3.0 | 39 |
| 1,1-Dichloroethane | 0.84 | Not Detected | 3.4 | Not Detected |
| 2-Butanone (Methyl Ethyl Ketone) | 4.2 | 42 | 12 | 120 |
| cis-1,2-Dichloroethene | 0.84 | Not Detected | 3.3 | Not Detected |
| Tetrahydrofuran | 4.2 | Not Detected | 12 | Not Detected |
| Chloroform | 0.84 | 3.1 | 4.1 | 15 |
| 1,1,1-Trichloroethane | 0.84 | 1.1 | 4.6 | 6.0 |
| Cyclohexane | 0.84 | 3.0 | 2.9 | 10 |
| Carbon Tetrachloride | 0.84 | Not Detected | 5.3 | Not Detected |
| 2,2,4-Trimethylpentane | 4.2 | Not Detected | 20 | Not Detected |
| Benzene | 0.84 | 22 | 2.7 | 72 |
| 1,2-Dichloroethane | 0.84 | Not Detected | 3.4 | Not Detected |
| Heptane | 0.84 | 5.9 | 3.4 | 24 |
| Trichloroethene | 0.84 | 8.2 | 4.5 | 44 |
| 1,2-Dichloropropane | 0.84 | Not Detected | 3.9 | Not Detected |
| 1,4-Dioxane | 0.84 | Not Detected | 3.0 | Not Detected |
| Bromodichloromethane | 0.84 | Not Detected | 5.6 | Not Detected |
| cis-1,3-Dichloropropene | 0.84 | Not Detected | 3.8 | Not Detected |
| 4-Methyl-2-pentanone | 0.84 | Not Detected | 3.4 | Not Detected |
| Toluene | 0.84 | 130 | 3.2 | 500 |
| trans-1,3-Dichloropropene | 0.84 | Not Detected | 3.8 | Not Detected |
| 1,1,2-Trichloroethane | 0.84 | Not Detected | 4.6 | Not Detected |
| Tetrachloroethene | 0.84 | 15 | 5.7 | 100 |

Air Toxics LTD.
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**Client Sample ID: SG-8**

**Lab ID#: 1108582-04A**

**MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN**

| | | | |
|---|---|---|---|
| **File Name:** | **a083114** | **Date of Collection:** | **8/24/11 8:55:00 AM** |
| **Dil. Factor:** | **8.40** | **Date of Analysis:** | **8/31/11 06:05 PM** |

| Compound | Rpt. Limit (ppbv) | Amount (ppbv) | Rpt. Limit (ug/m3) | Amount (ug/m3) |
|---|---|---|---|---|
| 2-Hexanone | 4.2 | Not Detected | 17 | Not Detected |
| Dibromochloromethane | 0.84 | Not Detected | 7.2 | Not Detected |
| 1,2-Dibromoethane (EDB) | 0.84 | Not Detected | 6.4 | Not Detected |
| Chlorobenzene | 0.84 | 7.5 | 3.9 | 34 |
| Ethyl Benzene | 0.84 | 91 | 3.6 | 400 |
| m,p-Xylene | 0.84 | 200 | 3.6 | 850 |
| o-Xylene | 0.84 | 48 | 3.6 | 210 |
| Styrene | 0.84 | Not Detected | 3.6 | Not Detected |
| Bromoform | 0.84 | Not Detected | 8.7 | Not Detected |
| Cumene | 0.84 | 2.0 | 4.1 | 10 |
| 1,1,2,2-Tetrachloroethane | 0.84 | Not Detected | 5.8 | Not Detected |
| Propylbenzene | 0.84 | 0.86 | 4.1 | 4.2 |
| 4-Ethyltoluene | 0.84 | 2.5 | 4.1 | 12 |
| 1,3,5-Trimethylbenzene | 0.84 | Not Detected | 4.1 | Not Detected |
| 1,2,4-Trimethylbenzene | 0.84 | Not Detected | 4.1 | Not Detected |
| 1,3-Dichlorobenzene | 0.84 | Not Detected | 5.0 | Not Detected |
| 1,4-Dichlorobenzene | 0.84 | Not Detected | 5.0 | Not Detected |
| alpha-Chlorotoluene | 0.84 | Not Detected | 4.3 | Not Detected |
| 1,2-Dichlorobenzene | 0.84 | Not Detected | 5.0 | Not Detected |
| 1,2,4-Trichlorobenzene | 4.2 | Not Detected | 31 | Not Detected |
| Hexachlorobutadiene | 4.2 | Not Detected | 45 | Not Detected |
| 2,3-Dimethylpentane | 4.2 | Not Detected | 17 | Not Detected |
| 2-Methylpentane | 4.2 | 15 | 15 | 53 |
| Indene | 4.2 | Not Detected | 20 | Not Detected |
| Indan | 4.2 | Not Detected | 20 | Not Detected |
| Isopentane | 4.2 | 21 | 12 | 62 |
| Naphthalene | 4.2 | Not Detected | 22 | Not Detected |
| Thiophene | 4.2 | Not Detected | 14 | Not Detected |

J = Estimated value due to bias in the CCV.
E = Exceeds instrument calibration range.

**TENTATIVELY IDENTIFIED COMPOUNDS**

| Compound | CAS Number | Match Quality | Amount ((ppbv)) |
|---|---|---|---|
| Cyclohexane, 1,3-dimethyl-, cis- | 638-04-0 | 94% | 760 NJ |
| Cyclohexane, 1,4-dimethyl-, cis- | 624-29-3 | 94% | 500 NJ |
| Cyclohexane, 1,4-dimethyl- | 589-90-2 | 91% | 640 NJ |
| Cyclohexane, ethyl- | 1678-91-7 | 91% | 1000 NJ |
| Cyclohexane, 1,1,3-trimethyl- | 3073-66-3 | 50% | 900 NJ |
| Unknown | NA | NA | 540 J |
| Octane, 2,7-dimethyl- | 1072-16-8 | 64% | 540 NJ |

Air Toxics LTD.
Laboratory Services Since 1989

**Client Sample ID: SG-8**

**Lab ID#: 1108582-04A**

**MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN**

| | | | |
|---|---|---|---|
| **File Name:** | **a083114** | **Date of Collection: 8/24/11 8:55:00 AM** | |
| **Dil. Factor:** | **8.40** | **Date of Analysis: 8/31/11 06:05 PM** | |

**TENTATIVELY IDENTIFIED COMPOUNDS**

| Compound | CAS Number | Match Quality | Amount ((ppbv)) |
|---|---|---|---|
| Cyclohexane, 1,3,5-trimethyl-, (1.alpha. | 1795-27-3 | 91% | 560 NJ |
| Octane, 3-methyl- | 2216-33-3 | 50% | 510 NJ |
| Cyclohexane, 1,2,3-trimethyl-, (1.alpha. | 7667-55-2 | 91% | 740 NJ |

NJ =The identification is based on presumptive evidence; estimated value.

**Container Type: 6 Liter Summa Special (100% Certified)**

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

Air Toxics Ltd.

AMBIENT AIR METHOD TO14/TO15

Data file : /chem/msda.i/31Aug2011.b/a083114.d
Lab Smp Id: 1108582-04A
Inj Date : 31-AUG-2011 18:05
Operator : jc Inst ID: msda.i
Smp Info : 50mL #34467
Misc Info : 6.0"Hg-5psi
Comment :
Method : /chem/msda.i/31Aug2011.b/a11l0818b.m
Meth Date : 13-Sep-2011 12:21 ejakob Quant Type: ISTD
Cal Date : 31-AUG-2011 11:39 Cal File: a083106.d
Als bottle: 28
Dil Factor: 8.40000
Integrator: HP RTE Compound Sublist: Par16136.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

| | | | | CONCENTRATIONS ON-COL | CONCENTRATIONS FINAL | | |
|---|---|---|---|---|---|---|---|
| RT | EXP RT (REL RT) | MASS | RESPONSE | ( PPBV) | ( PPBV) | TARGET RANGE | RATIO |
| * 52 Bromochloromethane | | | | | CAS #: 74-97-5 | | |
| 15.406 | 15.406 (1.000) | 130 | 196074 | 10.0000 | | 80.00- 120.00 | 100.00 |
| 15.406 | 15.406 (1.000) | 128 | 154514 | | | 0.00- 30.00 | 78.80 |
| 15.406 | 15.406 (1.000) | 49 | 348454 | | | 0.00- 30.00 | 177.72 |
| * 66 1,4-Difluorobenzene | | | | | CAS #: 540-36-3 | | |
| 16.797 | 16.825 (1.000) | 114 | 902210 | 10.0000 | | 80.00- 120.00 | 100.00 |
| 16.797 | 16.825 (1.000) | 88 | 153327 | | | 0.00- 30.00 | 16.99 |
| * 88 Chlorobenzene-d5 | | | | | CAS #: 3114-55-4 | | |
| 21.614 | 21.614 (1.000) | 117 | 776378 | 10.0000 | | 80.00- 120.00 | 100.00(H) |
| 21.638 | 21.614 (1.000) | 82 | 1223308 | | | 0.00- 30.00 | 157.57 |
| $ 61 1,2-Dichloroethane-d4 | | | | | CAS #: 17060-07-0 | | |
| 16.248 | 16.248 (1.055) | 65 | 359820 | 10.1981 | 10.198 | 80.00- 120.00 | 100.00 |
| 16.248 | 16.248 (1.055) | 67 | 190218 | | | 21.17- 81.17 | 52.86 |
| $ 80 Toluene-d8 | | | | | CAS #: 2037-26-5 | | |
| 19.389 | 19.411 (1.154) | 98 | 894766 | 10.2017 | 10.202 | 80.00- 120.00 | 100.00 |
| 19.434 | 19.411 (1.157) | 70 | 359169 | | | 0.00- 41.96 | 40.14 |

| RT | EXP RT (REL RT) | MASS | RESPONSE | CONCENTRATIONS ON-COL ( PPBV) | FINAL ( PPBV) | TARGET RANGE | RATIO |
|---|---|---|---|---|---|---|---|
| $ 80 Toluene-d8 (continued) | | | | | | | |
| 19.389 | 19.411 (1.154) | 100 | 597822 | | | 36.91- 96.91 | 66.81 |
| $ 100 Bromofluorobenzene | | | | | CAS #: 460-00-4 | | |
| 23.068 | 23.068 (1.067) | 174 | 407096 | 10.0673 | 10.067 | 80.00- 120.00 | 100.00 |
| 23.068 | 23.068 (1.067) | 95 | 608385 | | | 114.98- 174.98 | 149.45 |
| 23.068 | 23.068 (1.067) | 176 | 390682 | | | 67.23- 127.23 | 95.97 |
| 7 Chloromethane | | | | | CAS #: 74-87-3 | | |
| 7.252 | 7.276 (0.471) | 50 | 10860 | 0.22940 | 1.927 | 80.00- 120.00 | 100.00 |
| 7.252 | 7.276 (0.471) | 52 | 3638 | | | 2.29- 62.29 | 33.50 |
| 11 1,3-Butadiene | | | | | CAS #: 106-99-0 | | |
| 8.301 | 8.319 (0.539) | 54 | 67906 | 1.62135 | 13.619 | 80.00- 120.00 | 100.00 |
| 8.301 | 8.319 (0.539) | 39 | 74293 | | | 64.36- 124.36 | 109.41 |
| 16 Trichlorofluoromethane/Fr11 | | | | | CAS #: 75-69-4 | | |
| 10.841 | 10.841 (0.704) | 101 | 10758 | 0.10499 | 0.8819 | 80.00- 120.00 | 100.00 |
| 10.841 | 10.841 (0.704) | 103 | 7285 | | | 34.85- 94.85 | 67.72 |
| 20 Ethanol | | | | | CAS #: 64-17-5 | | |
| 11.690 | 11.690 (0.759) | 45 | 52863 | 7.44163 | 62.510 | 80.00- 120.00 | 100.00 |
| 11.690 | 11.690 (0.759) | 43 | 12506 | | | 0.00- 57.08 | 23.66 |
| 11.690 | 11.690 (0.759) | 46 | 19450 | | | 10.87- 70.87 | 36.79 |
| 26 Carbon Disulfide | | | | | CAS #: 75-15-0 | | |
| 12.499 | 12.499 (0.811) | 76 | 212596 | 2.03156 | 17.065 | 80.00- 120.00 | 100.00 |
| 24 Acetone | | | | | CAS #: 67-64-1 | | |
| 12.416 | 12.416 (0.806) | 58 | 6229211 | 244.249 | 2051.7 | 80.00- 120.00 | 100.00(A) |
| 12.416 | 12.416 (0.806) | 43 | 19158593 | | | 283.54- 343.54 | 307.56 |
| 27 2-Propanol | | | | | CAS #: 67-63-0 | | |
| 12.706 | 12.727 (0.825) | 45 | 181151 | 1.53846 | 12.923 | 80.00- 120.00 | 100.00 |
| 12.706 | 12.727 (0.825) | 43 | 35468 | | | 0.00- 49.76 | 19.58 |
| 12.706 | 12.727 (0.825) | 59 | 6856 | | | 0.00- 34.09 | 3.78 |
| 40 Hexane | | | | | CAS #: 110-54-3 | | |
| 13.819 | 13.819 (0.897) | 57 | 130379 | 1.32873 | 11.161 | 80.00- 120.00 | 100.00 |
| 13.819 | 13.819 (0.897) | 43 | 86277 | | | 33.38- 93.38 | 66.17 |
| 13.819 | 13.819 (0.897) | 86 | 20932 | | | 0.00- 46.43 | 16.05 |
| 48 2-Butanone | | | | | CAS #: 78-93-3 | | |
| 15.065 | 15.065 (0.978) | 72 | 145392 | 4.97456 | 41.786 | 80.00- 120.00 | 100.00 |
| 15.065 | 15.065 (0.978) | 43 | 805665 | | | 298.82- 358.82 | 554.13 |
| 15.065 | 15.065 (0.978) | 57 | 53068 | | | 0.00- 56.09 | 36.50 |

| RT | EXP RT (REL RT) | MASS | RESPONSE | CONCENTRATIONS ON-COL ( PPBV) | CONCENTRATIONS FINAL ( PPBV) | TARGET RANGE | RATIO |
|---|---|---|---|---|---|---|---|
| 53 Chloroform | | | | | CAS #: 67-66-3 | | |
| 15.467 | 15.467 (1.004) | 83 | 41409 | 0.37137 | 3.119 | 80.00- 120.00 | 100.00 |
| 15.467 | 15.467 (1.004) | 85 | 17729 | | | 34.45- 94.45 | 42.81 |
| 55 Cyclohexane | | | | | CAS #: 110-82-7 | | |
| 15.714 | 15.714 (1.020) | 84 | 29065 | 0.35519 | 2.984 | 80.00- 120.00 | 100.00 |
| 15.683 | 15.714 (1.018) | 56 | 79195 | | | 97.99- 157.99 | 272.48 |
| 15.683 | 15.714 (1.018) | 41 | 47422 | | | 37.94- 97.94 | 163.16 |
| 56 1,1,1-Trichloroethane | | | | | CAS #: 71-55-6 | | |
| 15.714 | 15.714 (1.020) | 97 | 15713 | 0.13190 | 1.108 | 80.00- 120.00 | 100.00 |
| 15.714 | 15.714 (1.020) | 99 | 9574 | | | 34.37- 94.37 | 60.93 |
| 60 Benzene | | | | | CAS #: 71-43-2 | | |
| 16.248 | 16.248 (0.967) | 78 | 450729 | 2.68978 | 22.594 | 80.00- 120.00 | 100.00 |
| 16.248 | 16.248 (0.967) | 77 | 105840 | | | 0.00- 53.14 | 23.48 |
| 64 Heptane | | | | | CAS #: 142-82-5 | | |
| 16.413 | 16.413 (0.977) | 57 | 39088 | 0.69989 | 5.879 | 80.00- 120.00 | 100.00 |
| 16.413 | 16.413 (0.977) | 100 | 10612 | | | 11.16- 71.16 | 27.15 |
| 16.413 | 16.413 (0.977) | 43 | 81121 | | | 158.27- 218.27 | 207.53 |
| 67 Trichloroethene | | | | | CAS #: 79-01-6 | | |
| 17.237 | 17.237 (1.026) | 130 | 69504 | 0.97135 | 8.159 | 80.00- 120.00 | 100.00 |
| 17.237 | 17.237 (1.026) | 95 | 74349 | | | 75.28- 135.28 | 106.97 |
| 17.237 | 17.237 (1.026) | 97 | 48032 | | | 37.01- 97.01 | 69.11 |
| 81 Toluene | | | | | CAS #: 108-88-3 | | |
| 19.523 | 19.524 (1.162) | 91 | 3039353 | 15.8593 | 133.22 | 80.00- 120.00 | 100.00 |
| 19.523 | 19.524 (1.162) | 92 | 1821726 | | | 30.18- 90.18 | 59.94 |
| 84 Tetrachloroethene | | | | | CAS #: 127-18-4 | | |
| 20.365 | 20.365 (0.942) | 166 | 152985 | 1.82463 | 15.327 | 80.00- 120.00 | 100.00 |
| 20.333 | 20.365 (0.941) | 129 | 117131 | | | 48.84- 108.84 | 76.56 |
| 20.333 | 20.365 (0.941) | 131 | 115875 | | | 46.09- 106.09 | 75.74 |
| 89 Chlorobenzene | | | | | CAS #: 108-90-7 | | |
| 21.638 | 21.638 (1.001) | 112 | 131798 | 0.89307 | 7.502 | 80.00- 120.00 | 100.00 |
| 21.638 | 21.638 (1.001) | 114 | 300 | | | 2.00- 62.00 | 0.23 |
| 21.711 | 21.638 (1.004) | 77 | 343997 | | | 33.87- 93.87 | 261.00 |
| 91 Ethyl Benzene | | | | | CAS #: 100-41-4 | | |
| 21.711 | 21.711 (1.004) | 106 | 824225 | 10.8856 | 91.439 | 80.00- 120.00 | 100.00 |
| 21.711 | 21.711 (1.004) | 91 | 2707245 | | | 291.22- 351.22 | 328.46 |
| 93 m,p-Xylene | | | | | CAS #: 108-38-3 | | |
| 21.855 | 21.855 (1.011) | 106 | 1937873 | 23.4060 | 196.61 | 80.00- 120.00 | 100.00 |

| RT | EXP RT (REL RT) | MASS | RESPONSE | CONCENTRATIONS ON-COL ( PPBV) | CONCENTRATIONS FINAL ( PPBV) | TARGET RANGE | RATIO |
|---|---|---|---|---|---|---|---|
| 93 m,p-Xylene (continued) | | | | | | | |
| 21.855 | 21.855 (1.011) | 91 | 3912434 | | | 173.15- 233.15 | 201.89 |
| 94 o-Xylene | | | | | CAS #: 95-47-6 | | |
| 22.385 | 22.385 (1.036) | 106 | 458866 | 5.76045 | 48.388 | 80.00- 120.00 | 100.00 |
| 22.385 | 22.385 (1.036) | 91 | 988437 | | | 185.20- 245.20 | 215.41 |
| 98 Cumene | | | | | CAS #: 98-82-8 | | |
| 22.810 | 22.810 (1.055) | 105 | 57652 | 0.24108 | 2.025 | 80.00- 120.00 | 100.00 |
| 22.810 | 22.810 (1.055) | 120 | 12270 | | | 0.00- 56.13 | 21.28 |
| 104 Propylbenzene | | | | | CAS #: 103-65-1 | | |
| 23.274 | 23.274 (1.077) | 91 | 25279 | 0.10216 | 0.8581 | 80.00- 120.00 | 100.00 |
| 23.274 | 23.274 (1.077) | 120 | 5502 | | | 0.00- 52.40 | 21.77 |
| 107 4-Ethyltoluene | | | | | CAS #: 622-96-8 | | |
| 23.377 | 23.403 (1.082) | 105 | 67319 | 0.29809 | 2.504 | 80.00- 120.00 | 100.00 |
| 23.377 | 23.403 (1.082) | 120 | 20317 | | | 0.31- 60.31 | 30.18 |
| 14 Isopentane | | | | | CAS #: 78-78-4 | | |
| 10.239 | 10.260 (0.665) | 57 | 96854 | 2.48131 | 20.843 | 80.00- 120.00 | 100.00 |
| 10.239 | 10.260 (0.665) | 43 | 147280 | | | 104.71- 164.71 | 152.06 |
| 10.239 | 10.260 (0.665) | 42 | 122391 | | | 89.04- 149.04 | 126.37 |
| 30 2-Methylpentane | | | | | CAS #: 107-83-5 | | |
| 12.995 | 12.995 (0.844) | 71 | 58826 | 1.79873 | 15.109 | 80.00- 120.00 | 100.00 |
| 12.995 | 12.995 (0.844) | 43 | 203635 | | | 0.00- 30.00 | 346.16 |
| 12.995 | 12.995 (0.844) | 42 | 102930 | | | 0.00- 30.00 | 174.97 |

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.
H - Operator selected an alternate compound hit.

Air Toxics Ltd.

AMBIENT AIR METHOD TO14/TO15

Data file : /chem/msda.i/31Aug2011.b/a083114.d
Lab Smp Id: 1108582-04A
Inj Date : 31-AUG-2011 18:05
Operator : jc Inst ID: msda.i
Smp Info : 50mL #34467
Misc Info : 6.0"Hg-5psi
Comment :
Method : /chem/msda.i/31Aug2011.b/a11l0818b.m
Meth Date : 13-Sep-2011 12:21 ejakob Quant Type: ISTD
Cal Date : 31-AUG-2011 11:39 Cal File: a083106.d
Als bottle: 28
Dil Factor: 8.40000
Integrator: HP RTE Compound Sublist: Par16136.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

| ISTD | RT | AREA | AMOUNT |
|---|---|---|---|
| * 66 1,4-Difluorobenzene | 16.797 | 2494306 | 10.000 |
| * 88 Chlorobenzene-d5 | 21.614 | 22025413 | 10.000 |

| | CONCENTRATIONS | | | | QUANT | | |
|---|---|---|---|---|---|---|---|
| RT | AREA | ON-COL( PPBV) | FINAL( PPBV) | QUAL | LIBRARY | LIB ENTRY | CPND # |
| Cyclohexane, 1,3-dimethyl-, cis- | | | | | CAS #: 638-04-0 | | |
| 19.210 | 22592274 | 90.5753624 | 760.83 | 94 | NBS54K.l | 2399 | 66(L) |
| Cyclohexane, 1,4-dimethyl-, cis- | | | | | CAS #: 624-29-3 | | |
| 19.845 | 14823829 | 6.73032950 | 56.535 | 94 | NBS54K.l | 2417 | 88 |
| Cyclohexane, 1,4-dimethyl- | | | | | CAS #: 589-90-2 | | |
| 20.008 | 19162825 | 8.70032469 | 73.083 | 91 | NBS54K.l | 2396 | 88 |
| Cyclohexane, ethyl- | | | | | CAS #: 1678-91-7 | | |
| 20.723 | 31185244 | 14.1587549 | 118.93 | 91 | NBS54K.l | 2390 | 88 |

| RT | AREA | ON-COL( PPBV) | FINAL( PPBV) | QUAL | LIBRARY | LIB ENTRY | CPND # |
|---|---|---|---|---|---|---|---|
| Cyclohexane, 1,1,3-trimethyl- | | | | CAS #: 3073-66-3 | | | |
| 20.788 | 26718712 | 12.1308558 | 101.90 | 50 | NBS54K.l | 4092 | 88 |
| Unknown | | | | CAS #: | | | |
| 20.918 | 16196636 | 7.35361275 | 61.770 | 0 | | 0 | 88 |
| Octane, 2,7-dimethyl- | | | | CAS #: 1072-16-8 | | | |
| 20.983 | 15961880 | 7.24702852 | 60.875 | 64 | NBS54K.l | 6986 | 88 |
| Cyclohexane, 1,3,5-trimethyl-, (1.alpha. | | | | CAS #: 1795-27-3 | | | |
| 21.113 | 16607666 | 7.54022875 | 63.338 | 91 | NBS54K.l | 4108 | 88(M) |
| Octane, 3-methyl- | | | | CAS #: 2216-33-3 | | | |
| 21.178 | 15095770 | 6.85379652 | 57.572 | 50 | NBS54K.l | 4514 | 88(ML) |
| Cyclohexane, 1,2,3-trimethyl-, (1.alpha. | | | | CAS #: 7667-55-2 | | | |
| 21.638 | 22025414 | 10.0000000 | 84.000 | 91 | NBS54K.l | 4087 | 88(L) |

## QC Flag Legend

M - Compound response manually integrated.
L - Operator selected an alternate library search match.

Report Date: 13-Sep-2011 12:22

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msda.i
Lab File ID: a083114.d
Lab Smp Id: 1108582-04A
Analysis Type: VOA
Quant Type: ISTD
Operator: jc
Method File: /chem/msda.i/31Aug2011.b/a11l0818b.m
Misc Info: 6.0"Hg-5psi

Calibration Date: 31-AUG-2011
Calibration Time: 08:01
Level: LOW
Sample Type: AIR

| | | AREA LIMIT | | | |
|---|---|---|---|---|---|
| COMPOUND | STANDARD | LOWER | UPPER | SAMPLE | %DIFF |
| 52 Bromochloromethan | 206450 | 123870 | 289030 | 196074 | -5.03 |
| 66 1,4-Difluorobenze | 897592 | 538555 | 1256629 | 902210 | 0.51 |
| 88 Chlorobenzene-d5 | 792197 | 475318 | 1109076 | 776378 | -2.00 |

| | | RT LIMIT | | | |
|---|---|---|---|---|---|
| COMPOUND | STANDARD | LOWER | UPPER | SAMPLE | %DIFF |
| 52 Bromochloromethan | 15.41 | 15.08 | 15.74 | 15.41 | 0.00 |
| 66 1,4-Difluorobenze | 16.82 | 16.50 | 17.15 | 16.80 | -0.16 |
| 88 Chlorobenzene-d5 | 21.61 | 21.28 | 21.94 | 21.61 | 0.00 |

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Report Date: 13-Sep-2011 12:22

Air Toxics Ltd.

RECOVERY REPORT

Client Name: Client SDG: 31Aug2011
Sample Matrix: GAS Fraction: VOA
Lab Smp Id: 1108582-04A
Level: LOW Operator: jc
Data Type: MS DATA SampleType: SAMPLE
SpikeList File: AT09.spk Quant Type: ISTD
Sublist File: Par16136.sub
Method File: /chem/msda.i/31Aug2011.b/a11l0818b.m
Misc Info: 6.0"Hg-5psi

| SURROGATE COMPOUND | CONC ADDED PPBV | CONC RECOVERED PPBV | % RECOVERED | LIMITS |
|---|---|---|---|---|
| $ 61 1,2-Dichloroethane | 10.000 | 10.198 | 101.98 | 70-130 |
| $ 80 Toluene-d8 | 10.000 | 10.202 | 102.02 | 70-130 |
| $ 100 Bromofluorobenzene | 10.000 | 10.067 | 100.67 | 70-130 |

pù

Data File: /chem/msda.i/31Aug2011.b/a083114.d 

Date : 31-AUG-2011 18:05

Client ID:

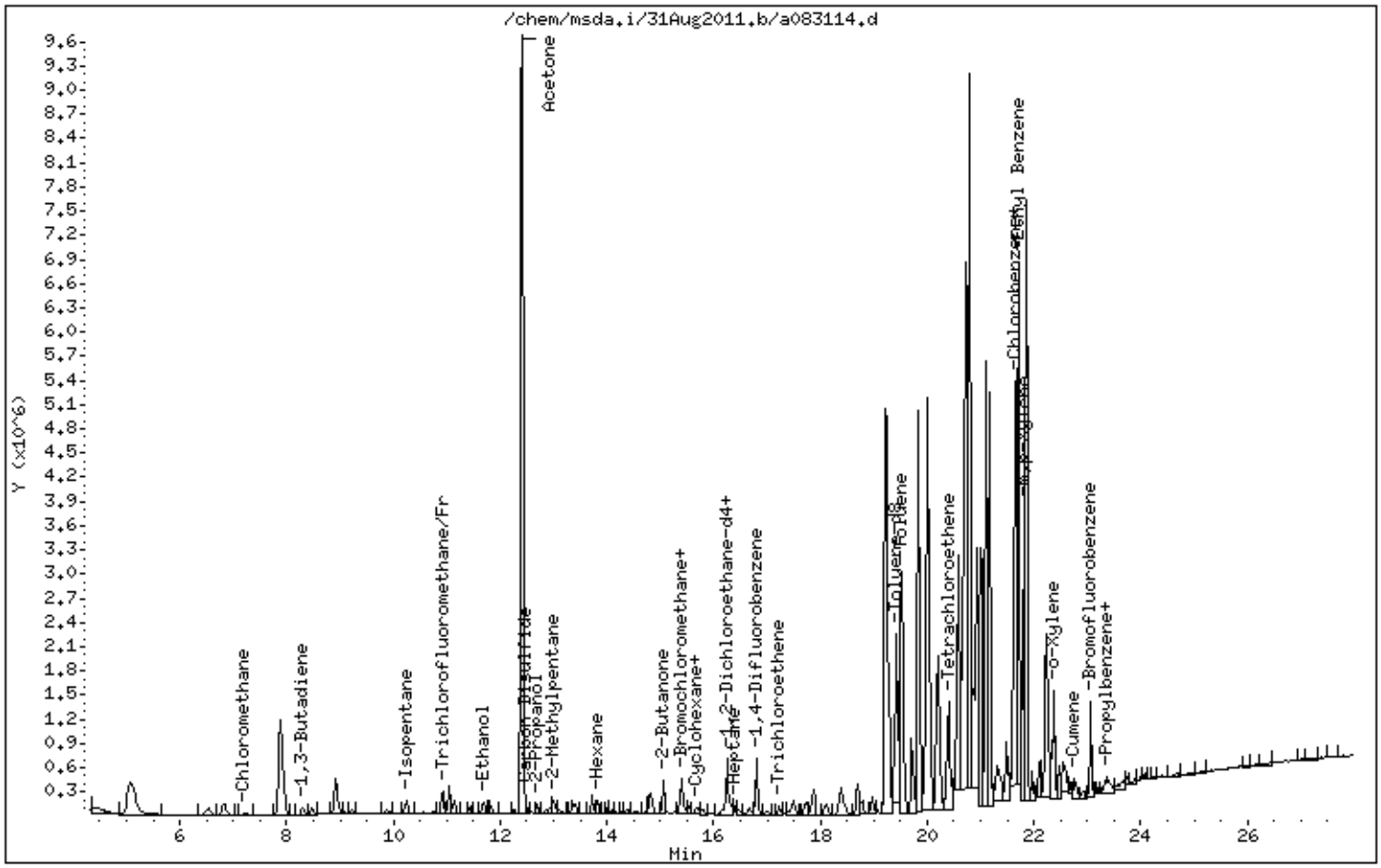
Instrument: msda.i

Sample Info: 50mL #34467

Operator: jc

Column phase: RTx-624

Column diameter: 0.32



Data File: /chem/msda.i/31Aug2011.b/a083114.d

Date : 31-AUG-2011 18:05

Client ID:

Instrument: msda.i

Sample Info: 50mL #34467

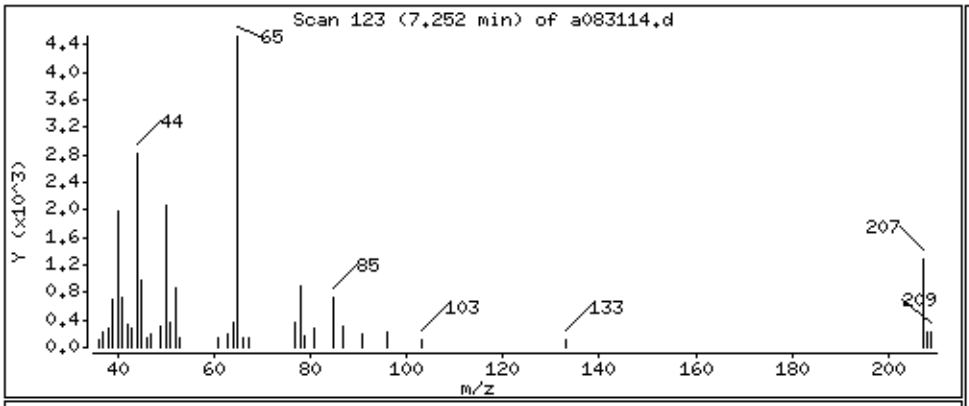
Operator: jc

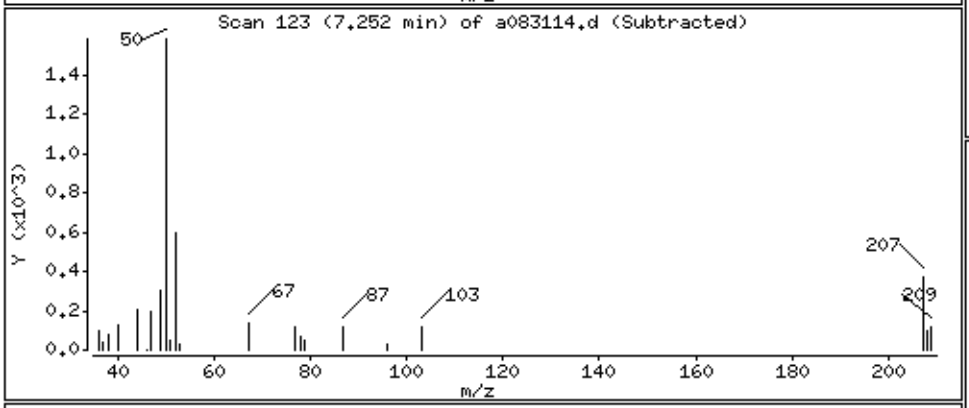
Column phase: RTx-624

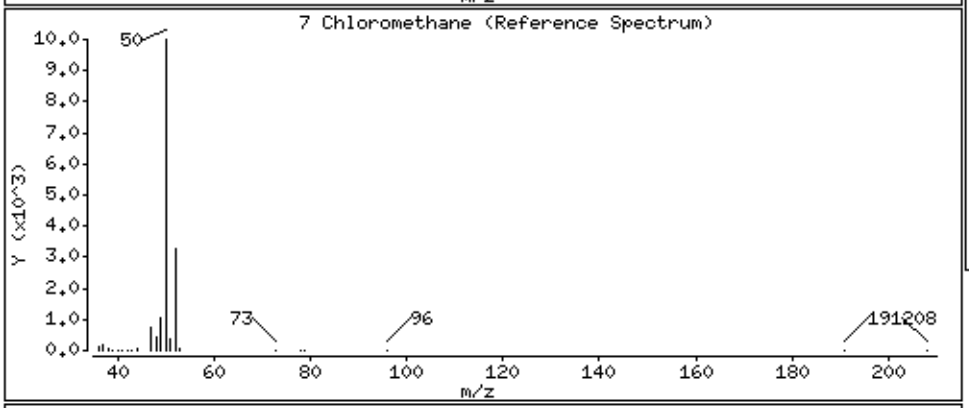
Column diameter: 0.32

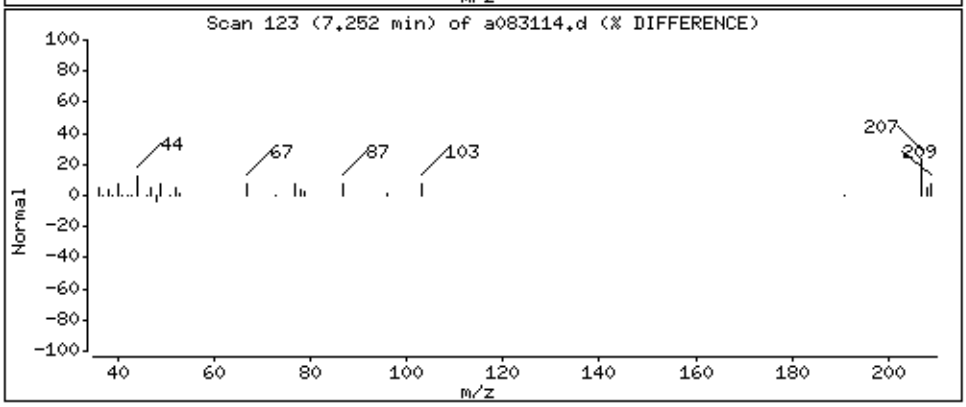
7 Chloromethane

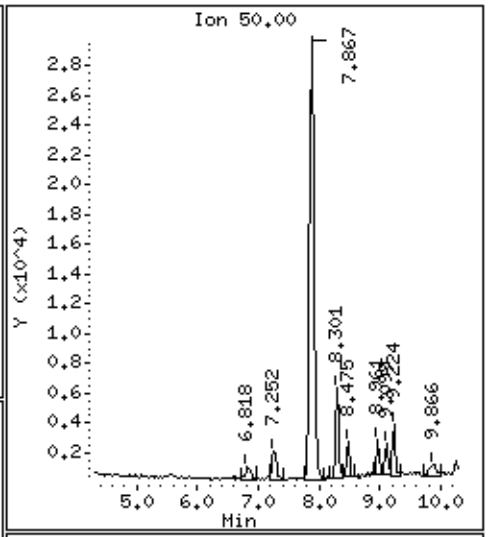
Concentration: 1.927 PPBV

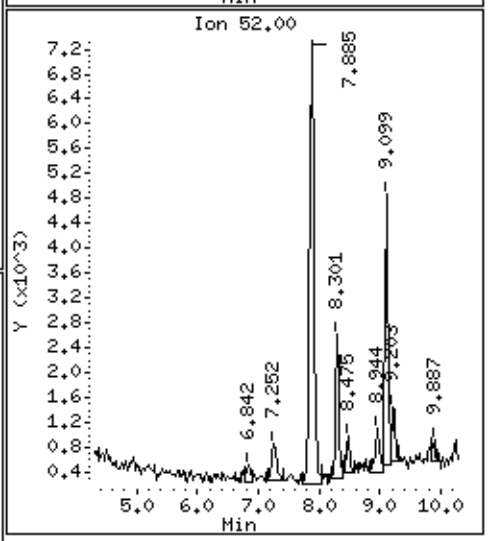


Data File: /chem/msda.i/31Aug2011.b/a083114.d

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Instrument: msda.i

Sample Info: 50mL #34467

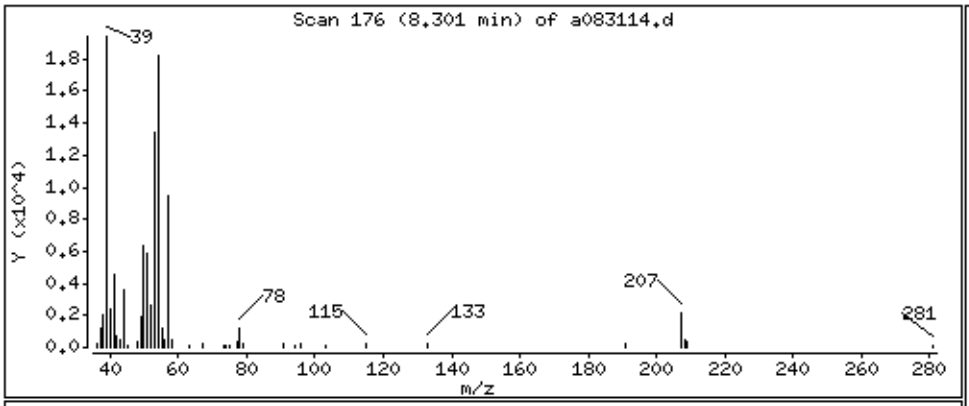
Operator: jc

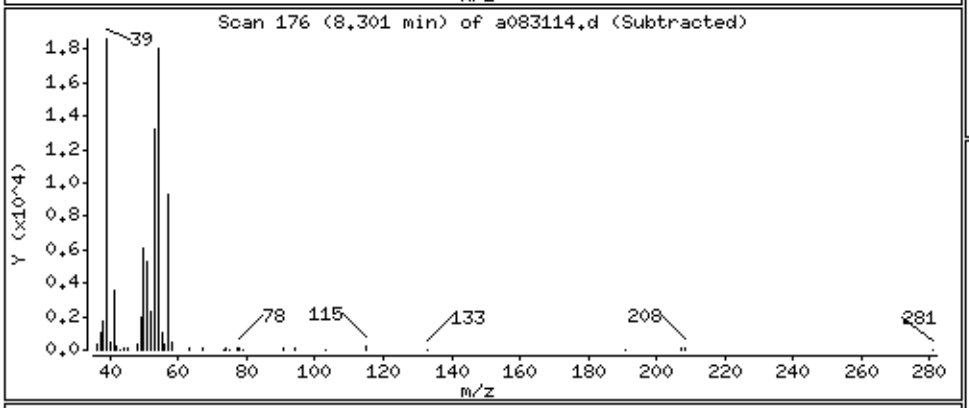
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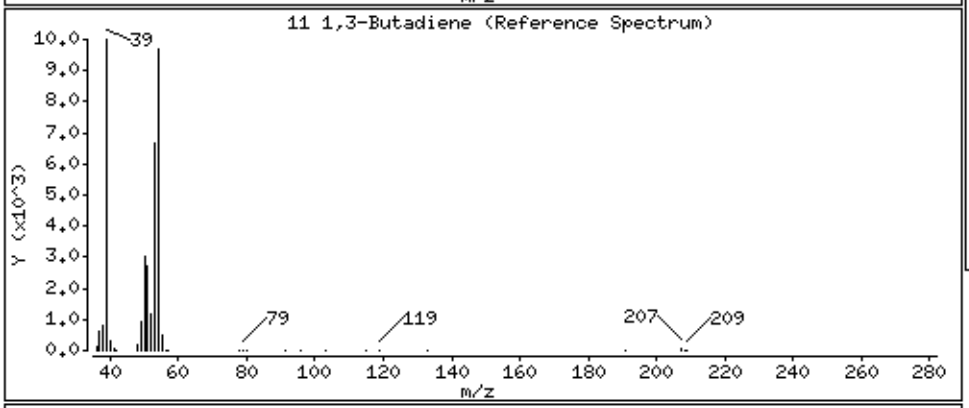
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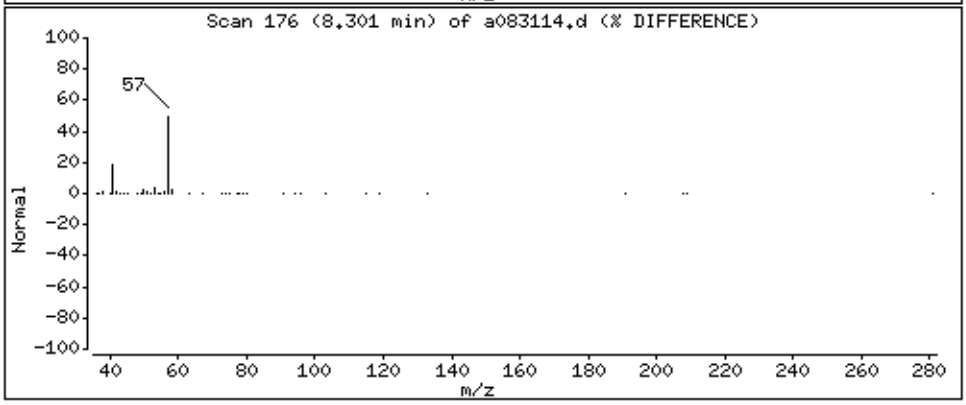
11 1,3-Butadiene

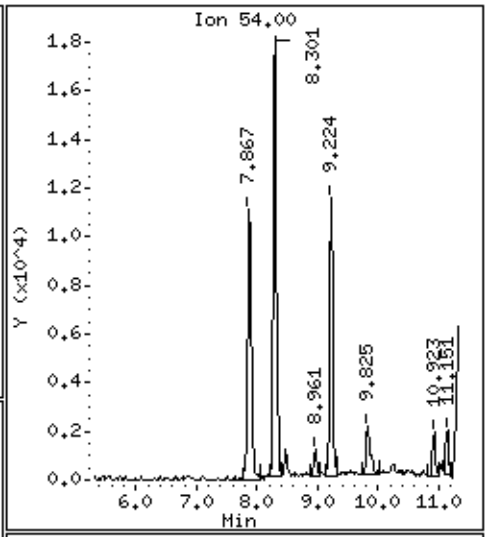
Concentration: 13.619 PPBV

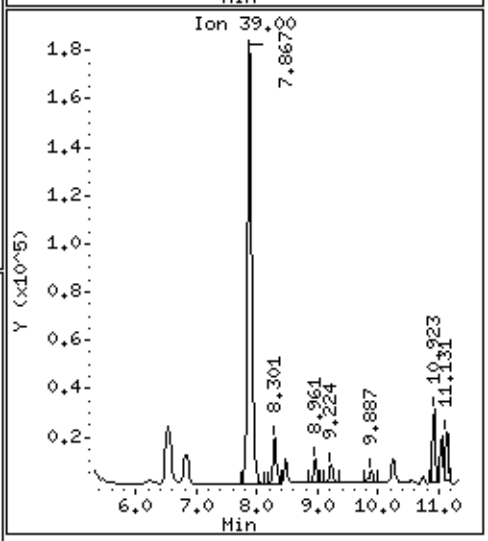


Data File: /chem/msda.i/31Aug2011.b/a083114.d

Date : 31-AUG-2011 18:05

Client ID:

Instrument: msda.i

Sample Info: 50mL #34467

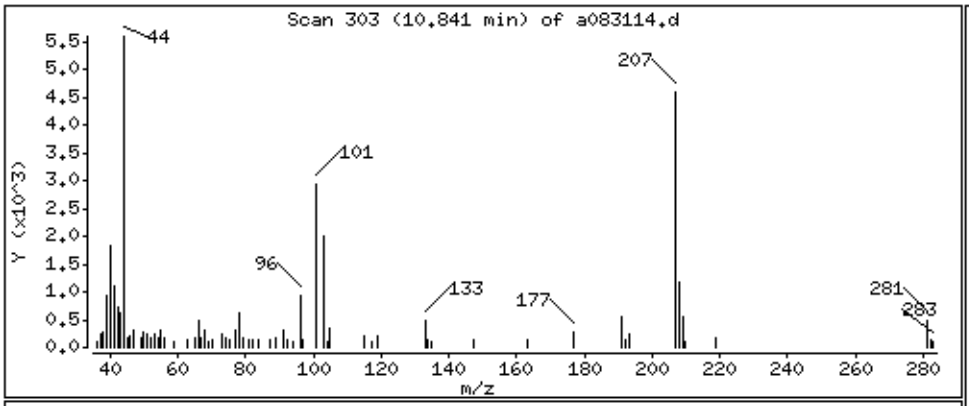
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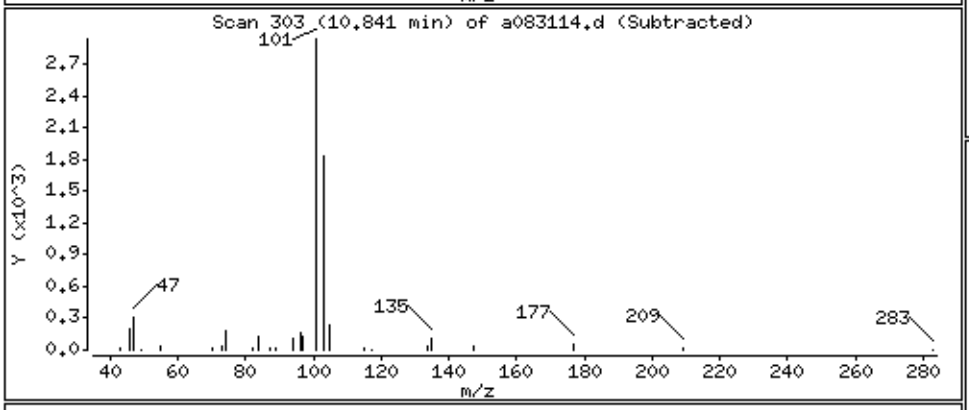
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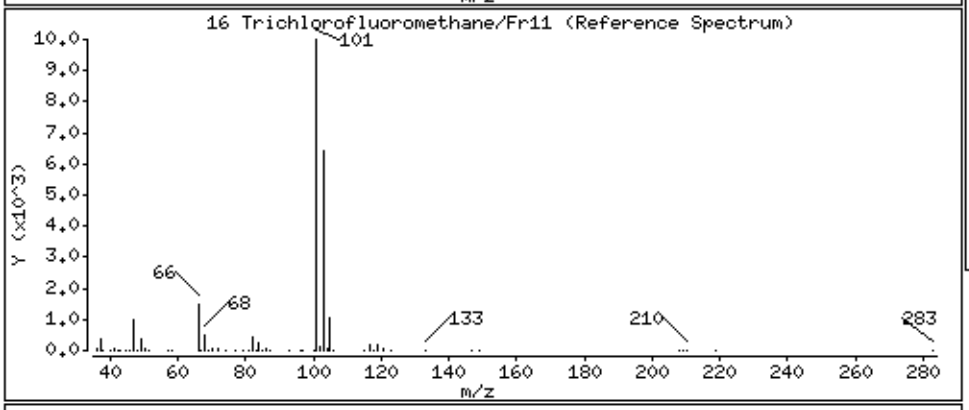
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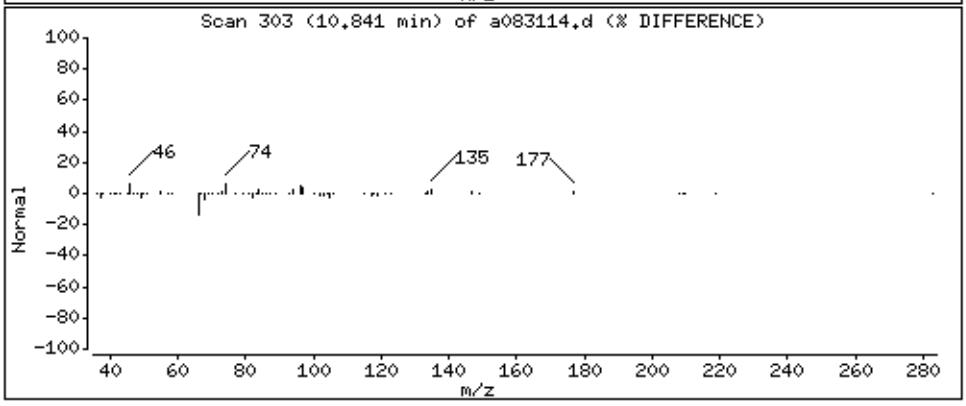
16 Trichlorofluoromethane/Fr11

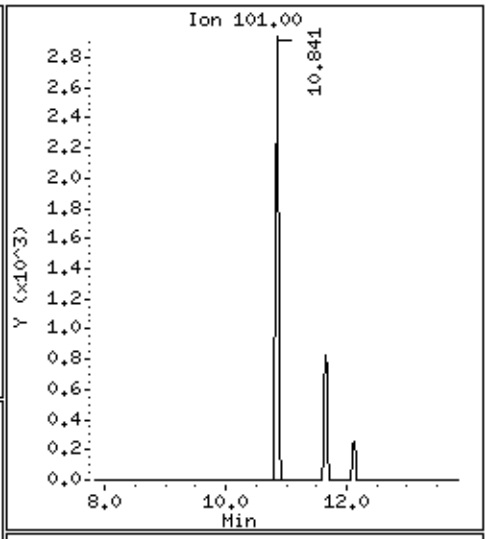
Concentration: 0.8819 PPBV

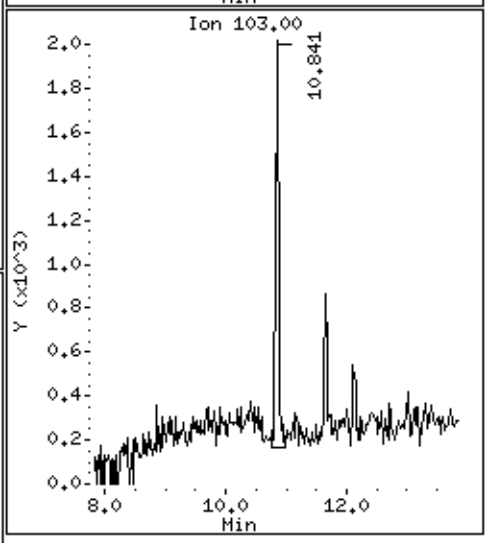


Data File: /chem/msda.i/31Aug2011.b/a083114.d

Date : 31-AUG-2011 18:05

Client ID:

Instrument: msda.i

Sample Info: 50mL #34467

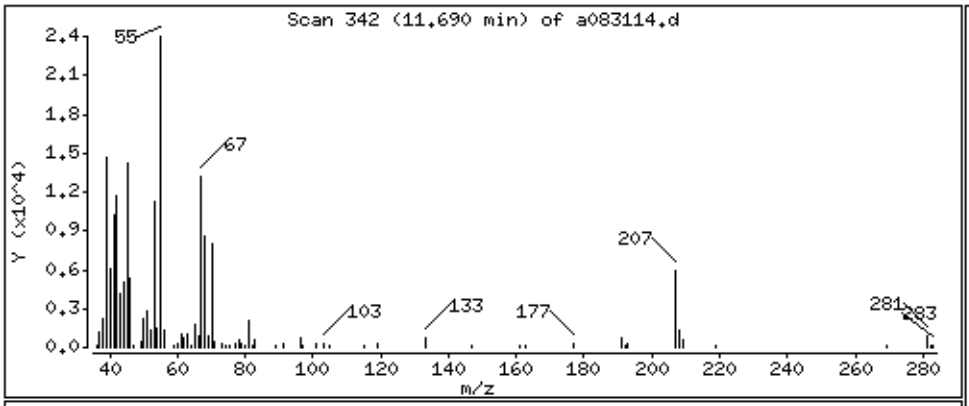
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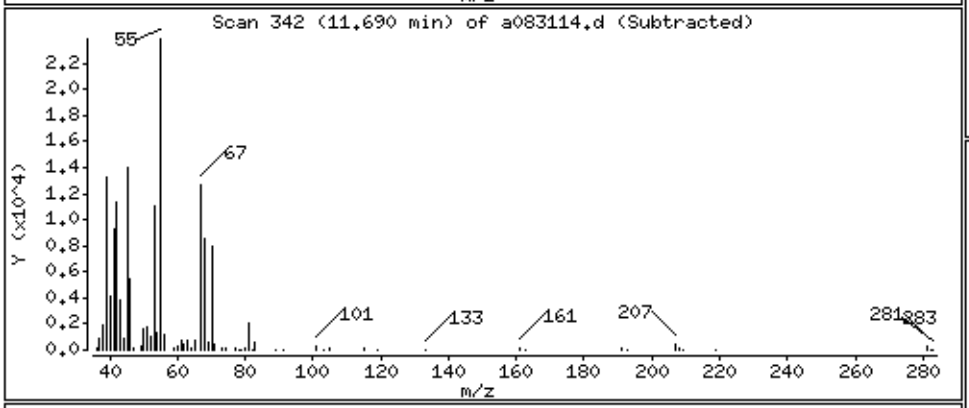
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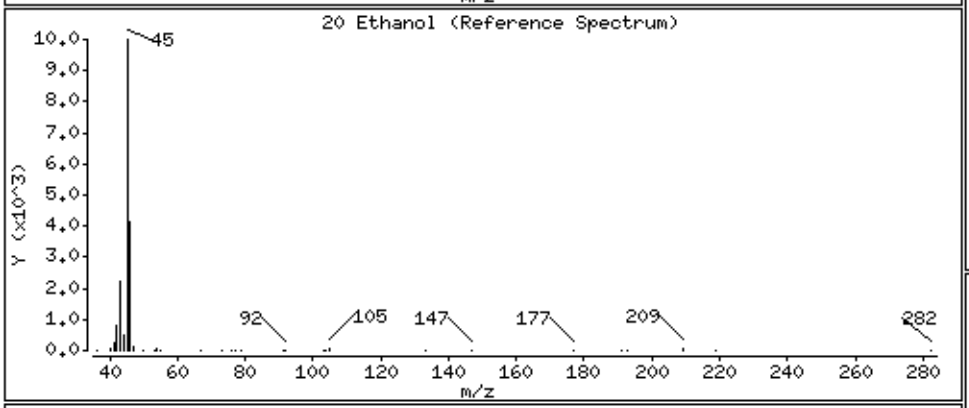
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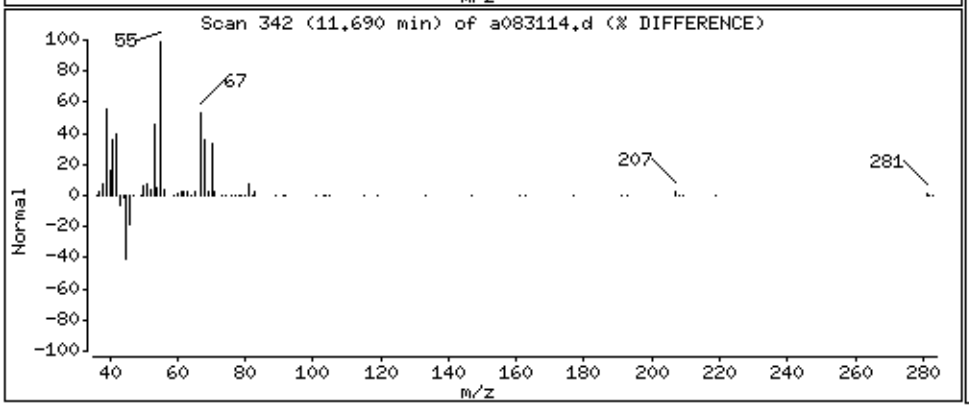
20 Ethanol

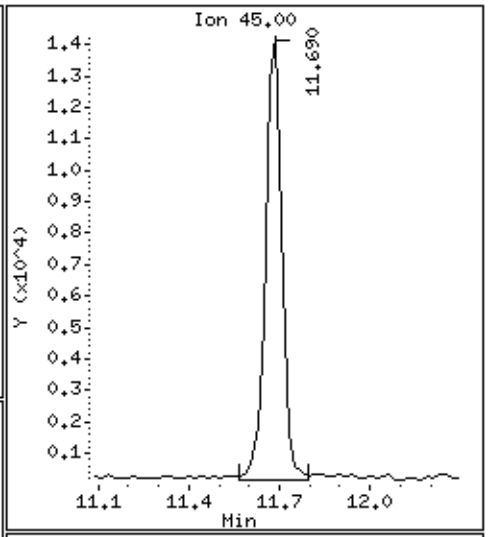
Concentration: 62.510 PPBV

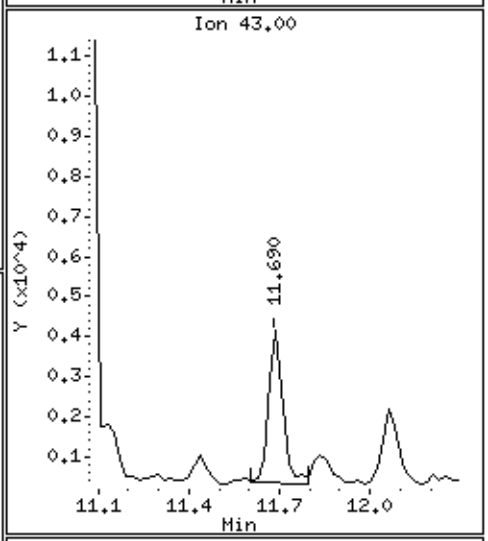


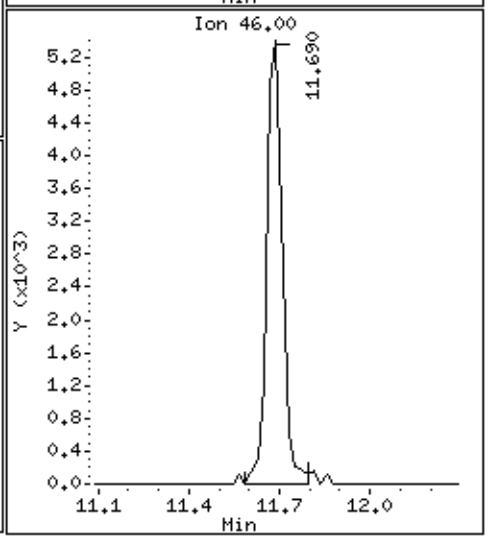



Data File: /chem/msda.i/31Aug2011.b/a083114.d

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Instrument: msda.i

Sample Info: 50mL #34467

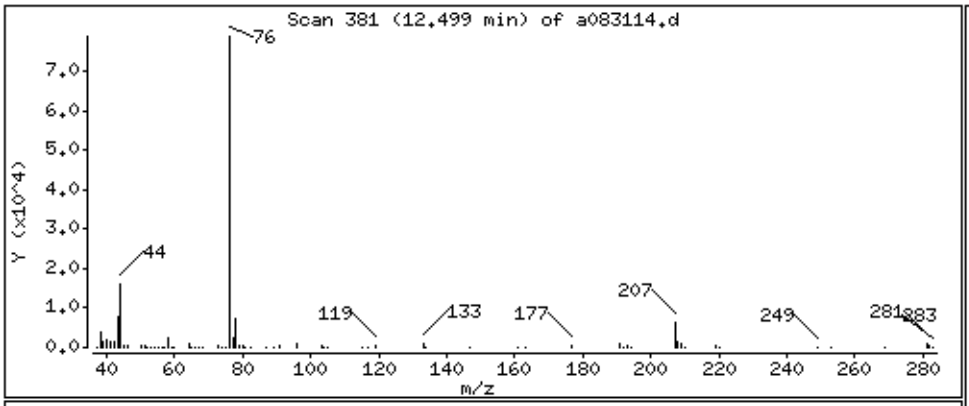
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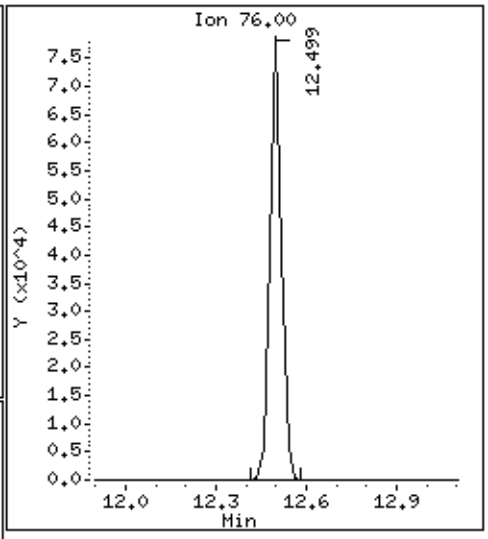
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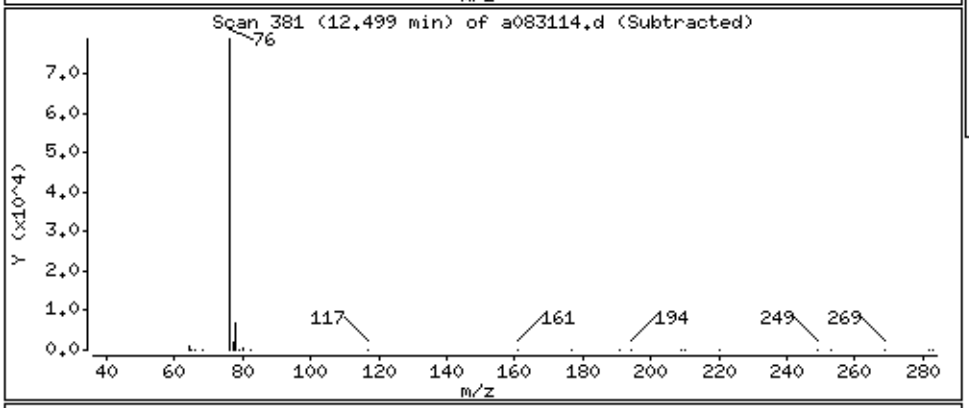
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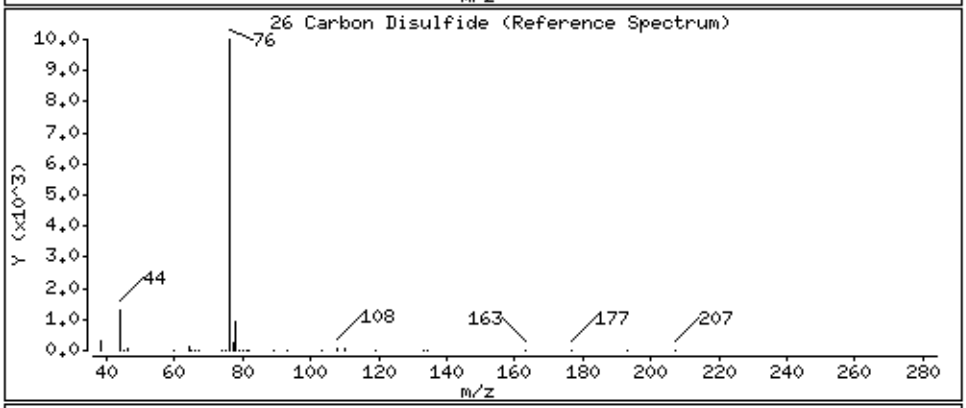
26 Carbon Disulfide

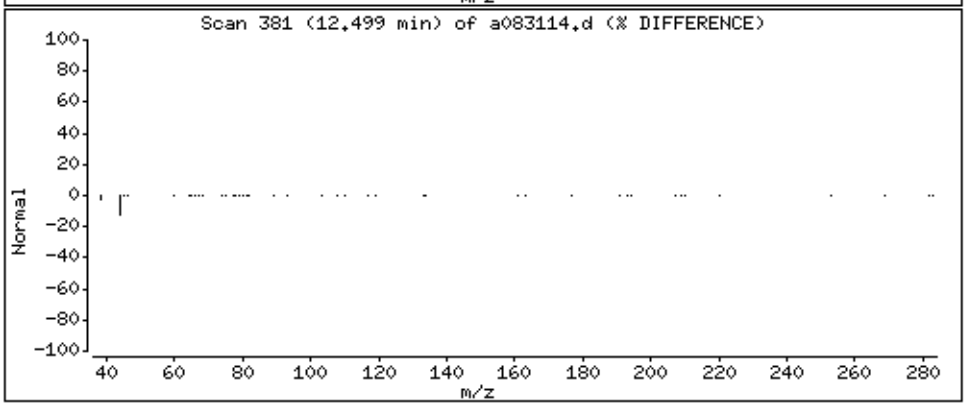
Concentration: 17.065 PPBV



Data File: /chem/msda.i/31Aug2011.b/a083114.d

Date : 31-AUG-2011 18:05

Client ID:

Instrument: msda.i

Sample Info: 50mL #34467

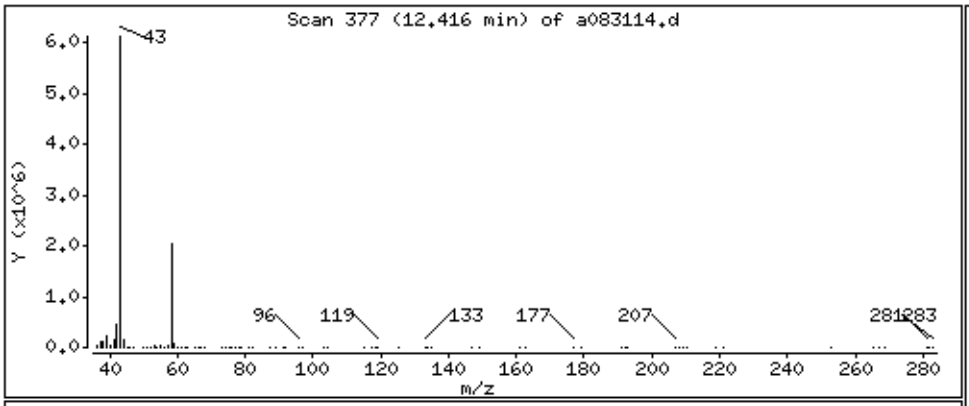
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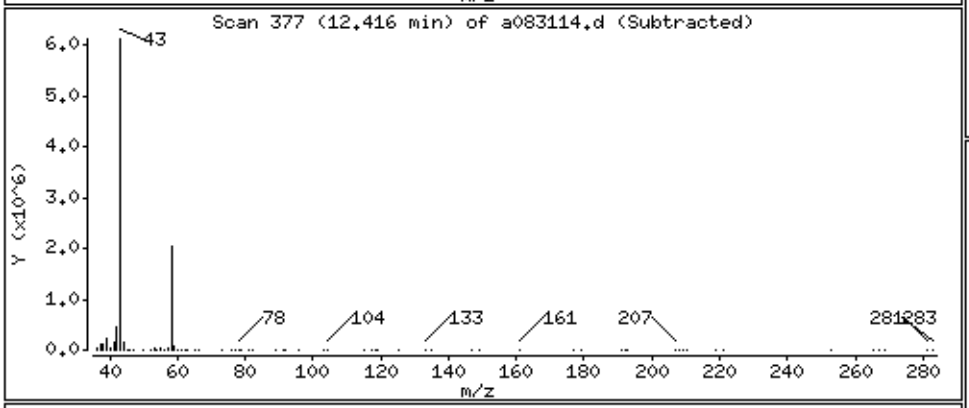
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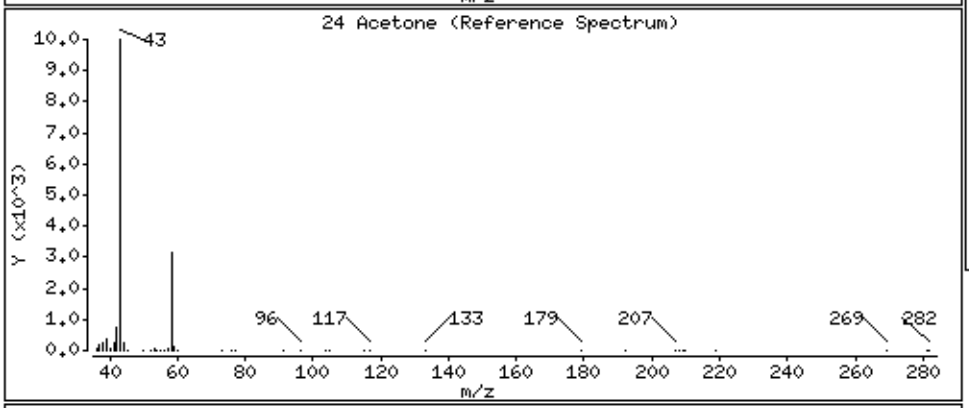
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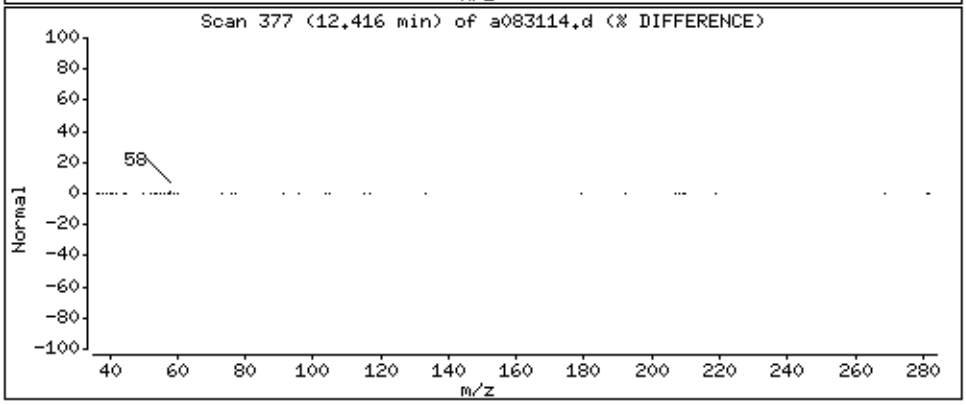
24 Acetone

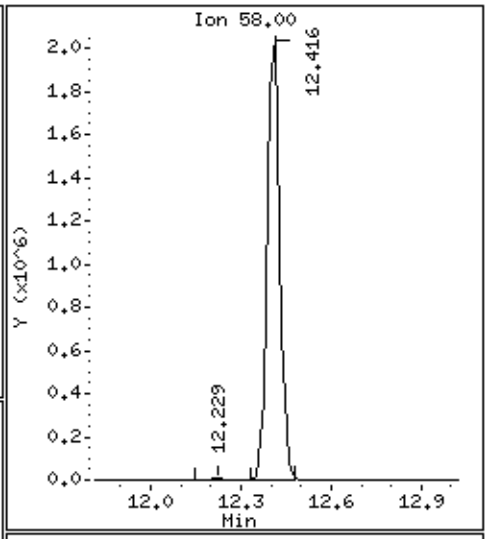
Concentration: 2051.7 PPBV

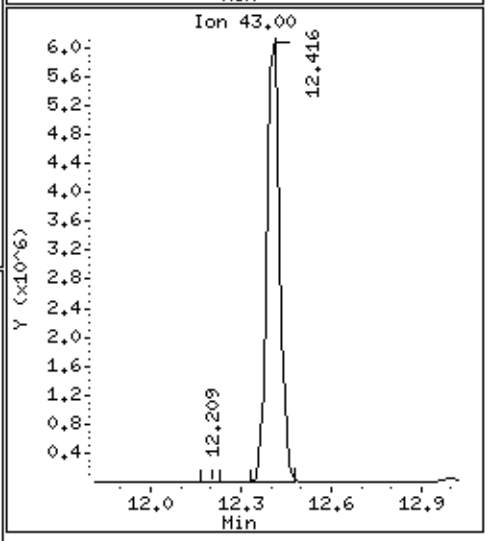


Data File: /chem/msda.i/31Aug2011.b/a083114.d

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Client ID:

Instrument: msda.i

Sample Info: 50mL #34467

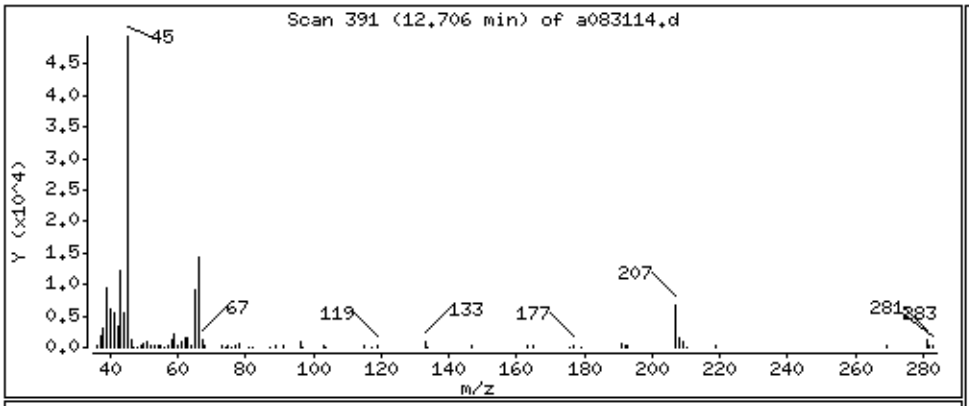
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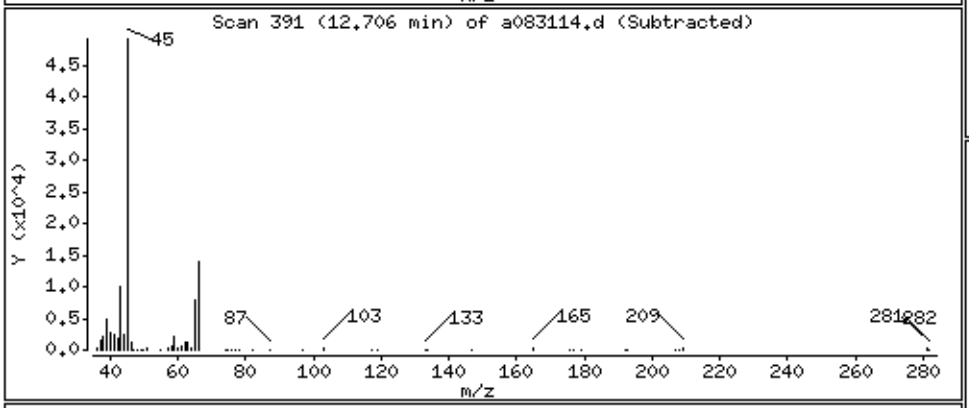
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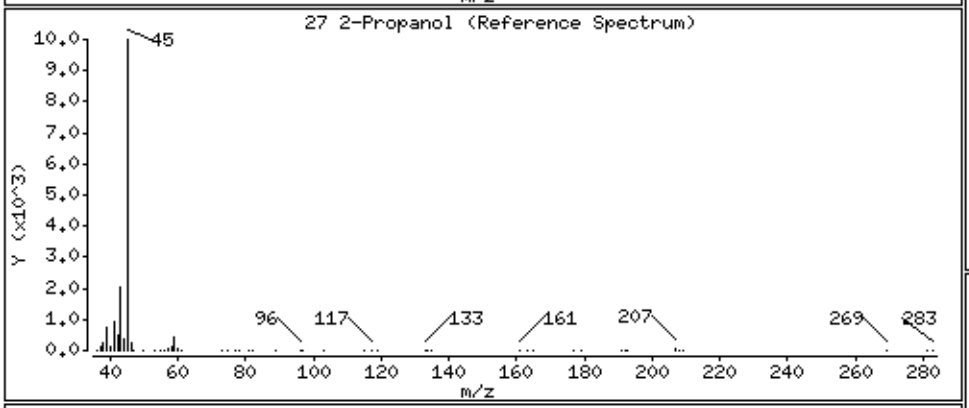
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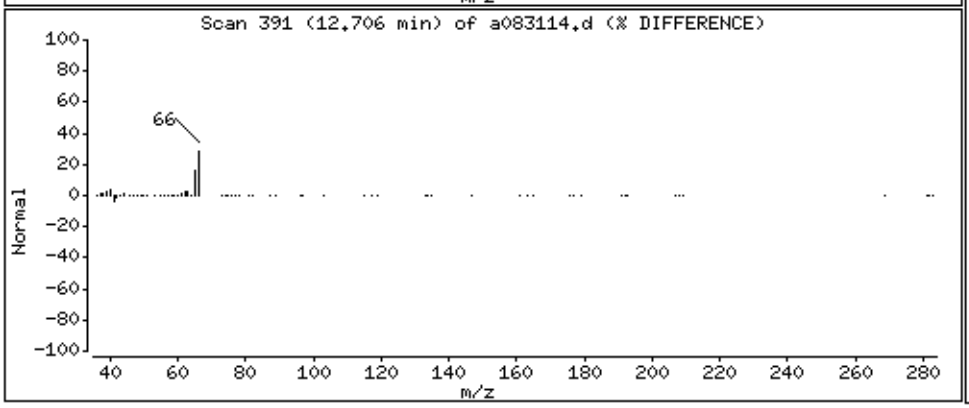
27 2-Propanol

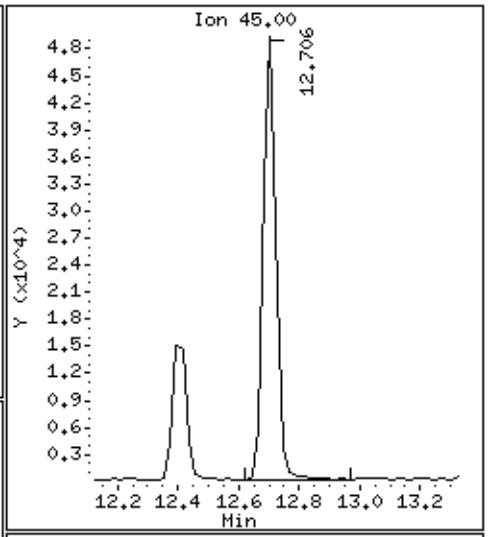
Concentration: 12.923 PPBV

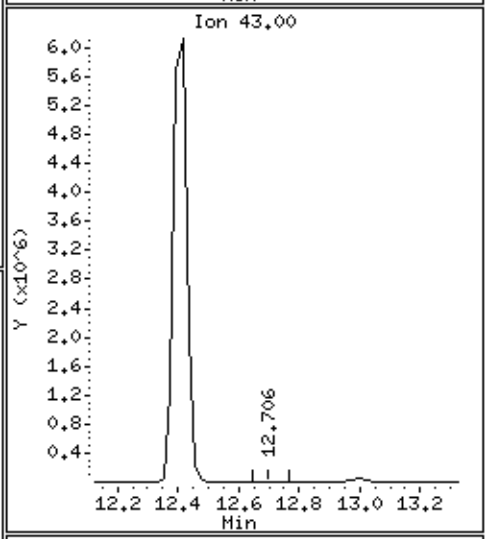


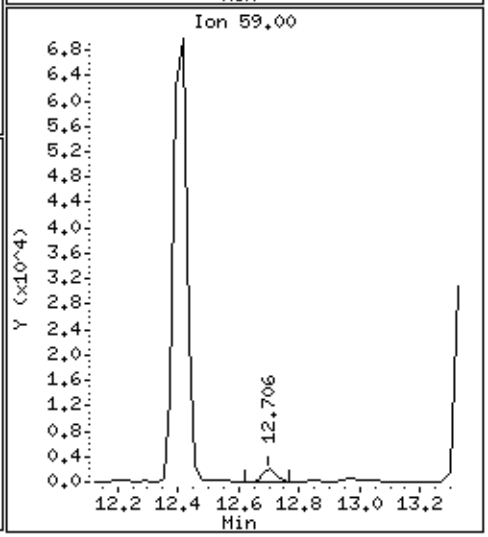



Data File: /chem/msda.i/31Aug2011.b/a083114.d

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Instrument: msda.i

Sample Info: 50mL #34467

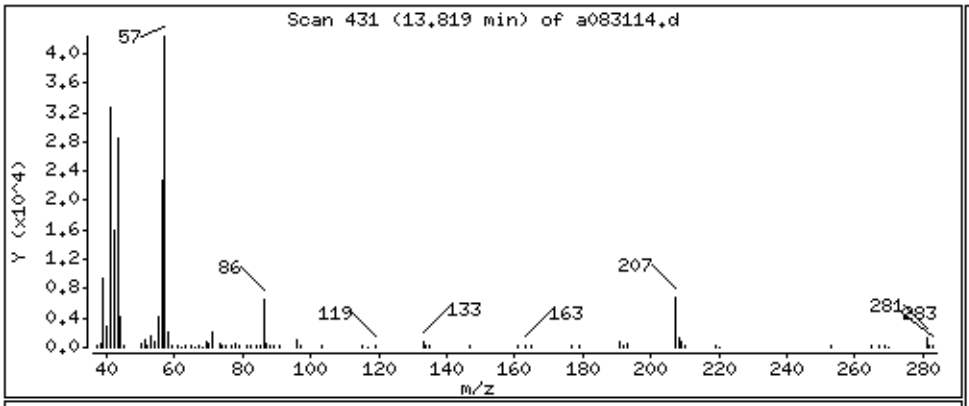
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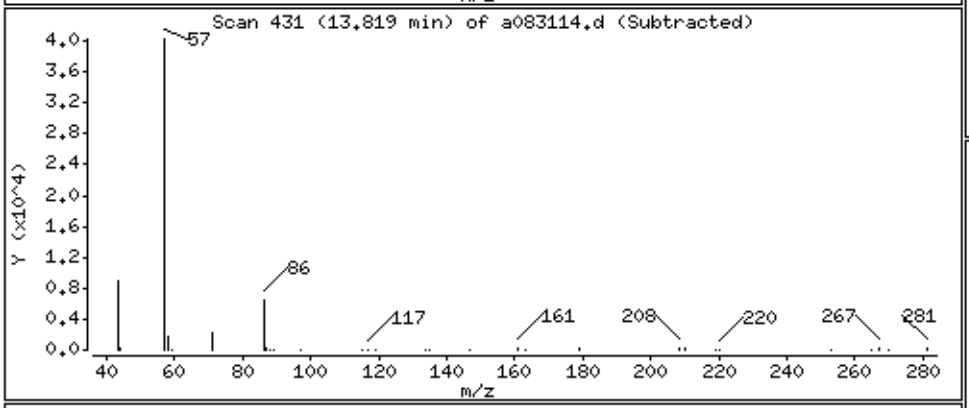
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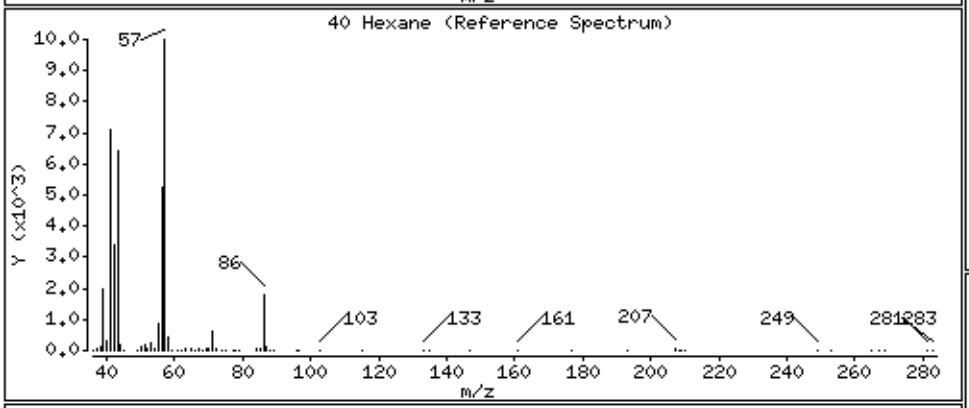
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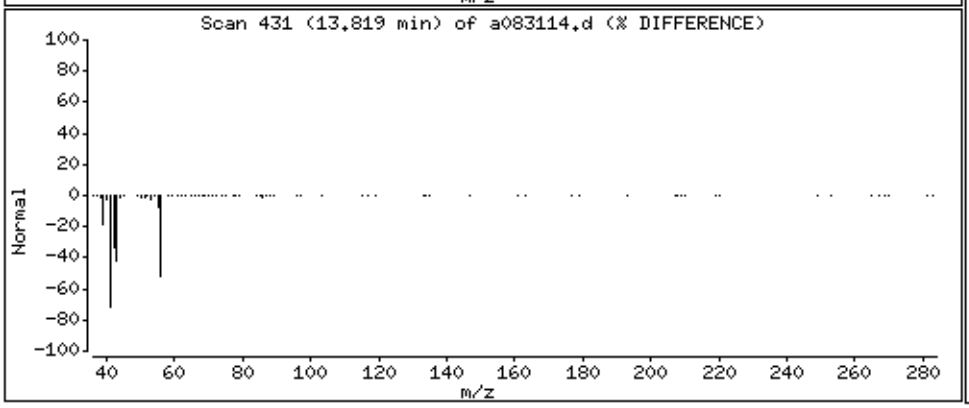
40 Hexane

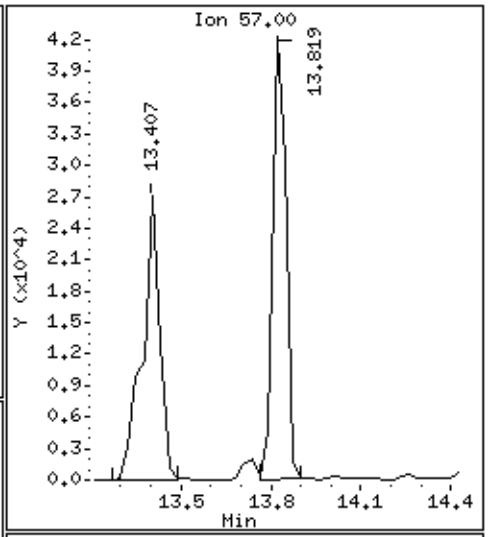
Concentration: 11.161 PPBV

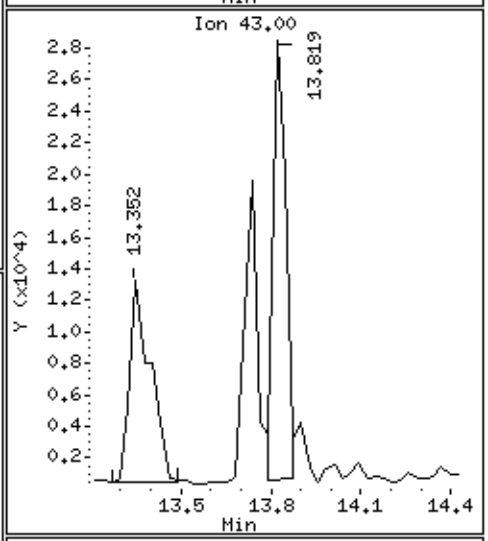


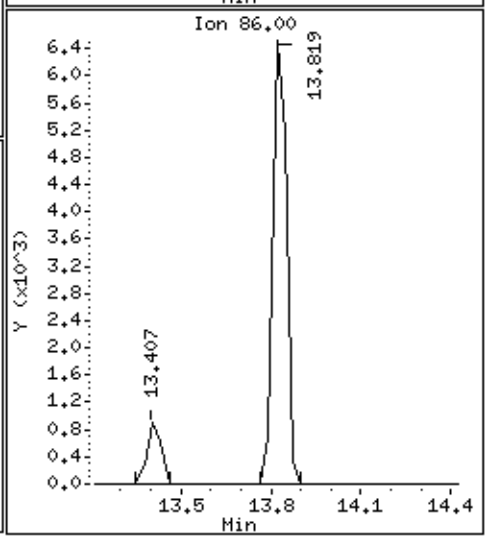



Data File: /chem/msda.i/31Aug2011.b/a083114.d

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Client ID:

Instrument: msda.i

Sample Info: 50mL #34467

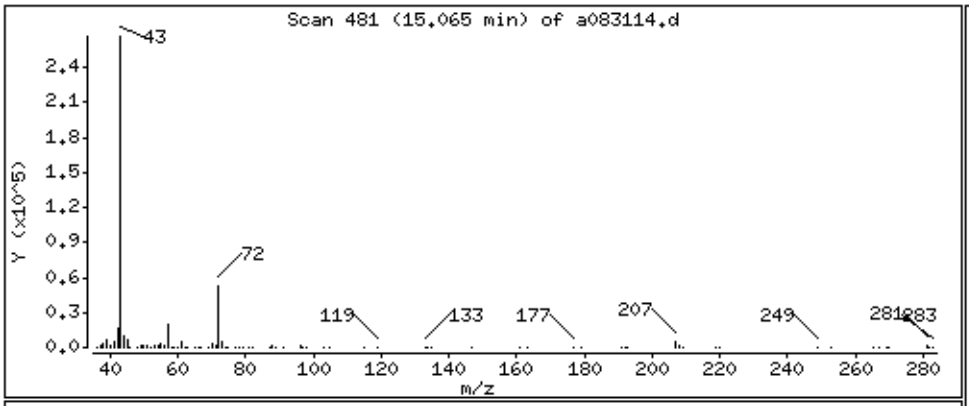
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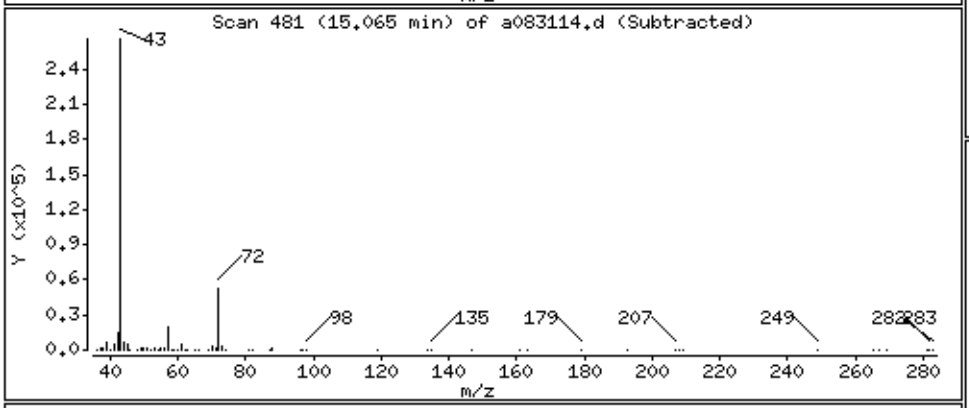
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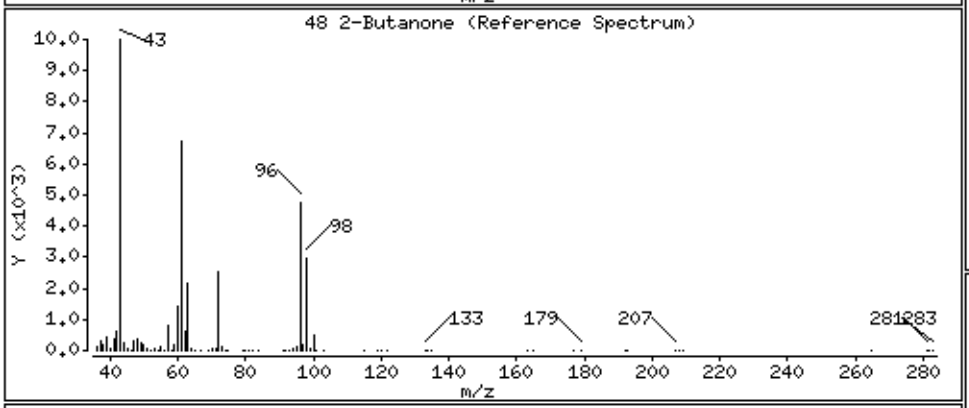
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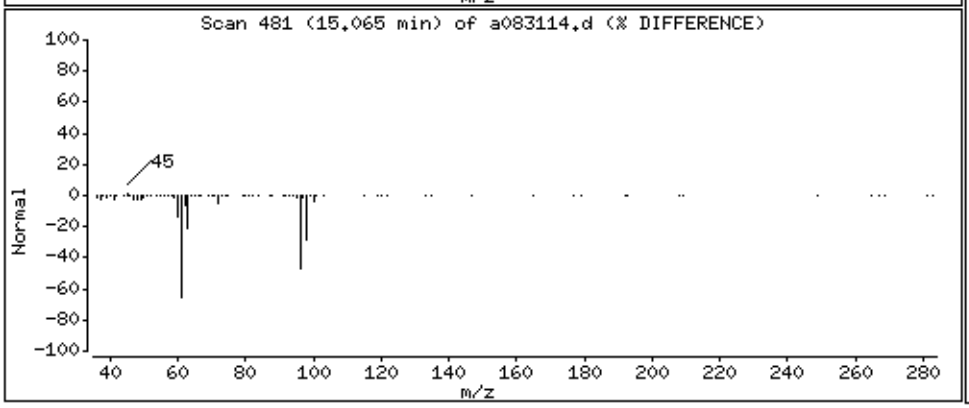
48 2-Butanone

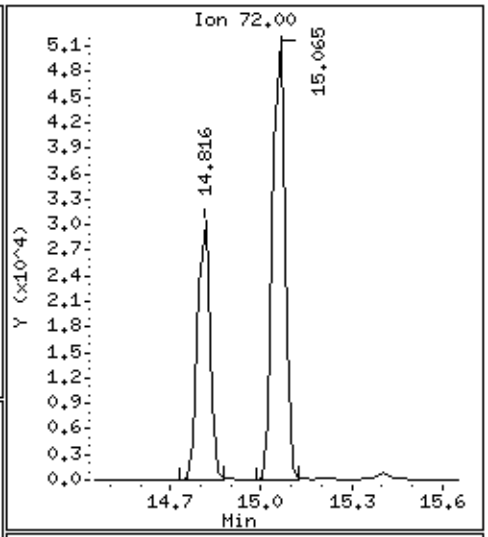
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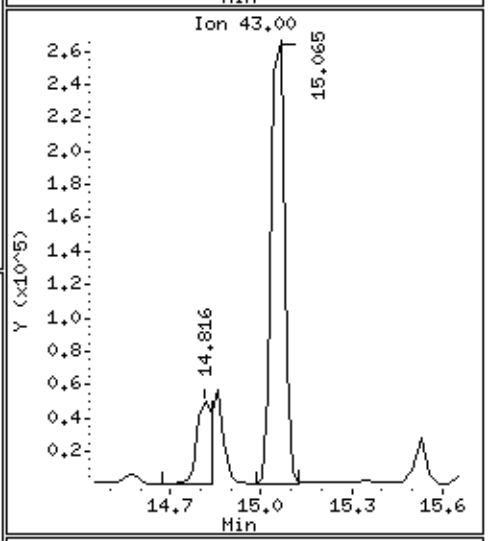


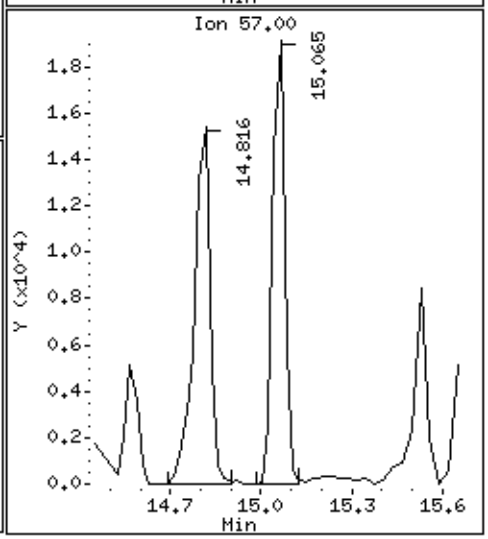



Data File: /chem/msda.i/31Aug2011.b/a083114.d

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Client ID:

Instrument: msda.i

Sample Info: 50mL #34467

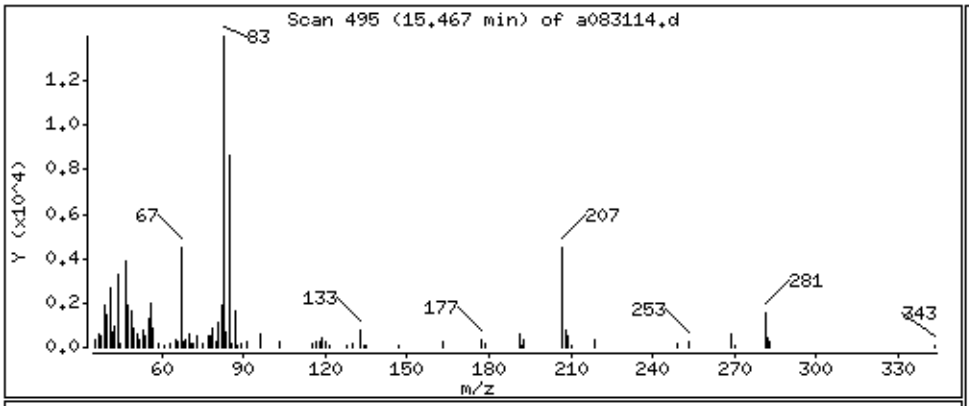
Operator: jc

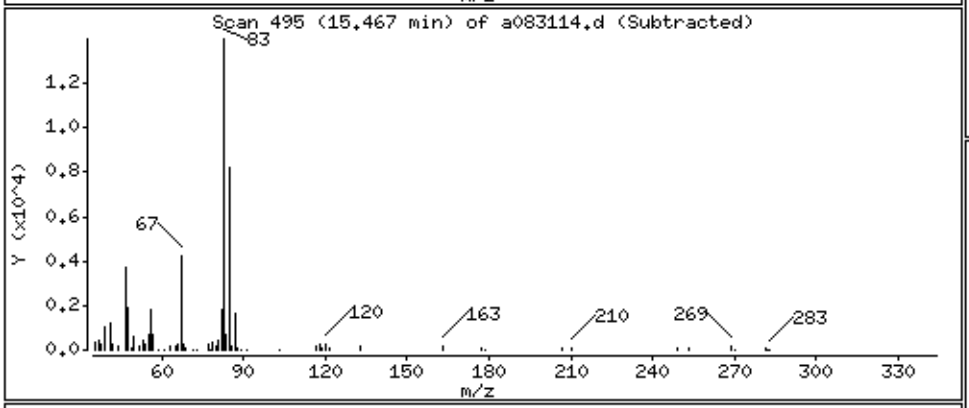
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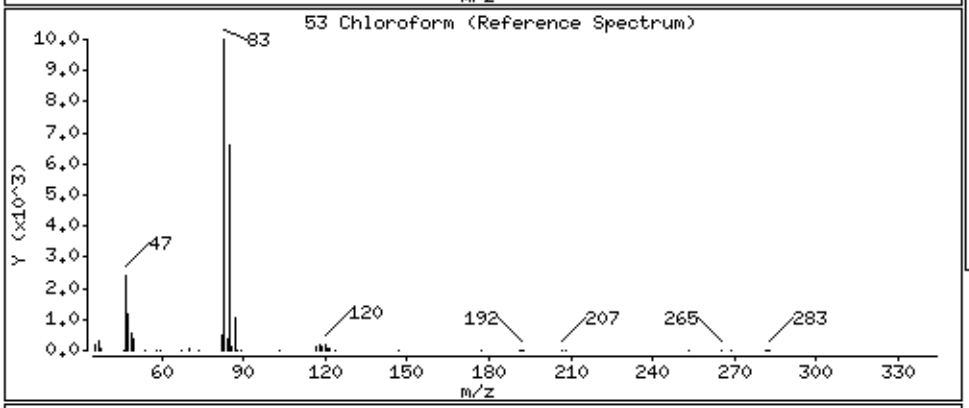
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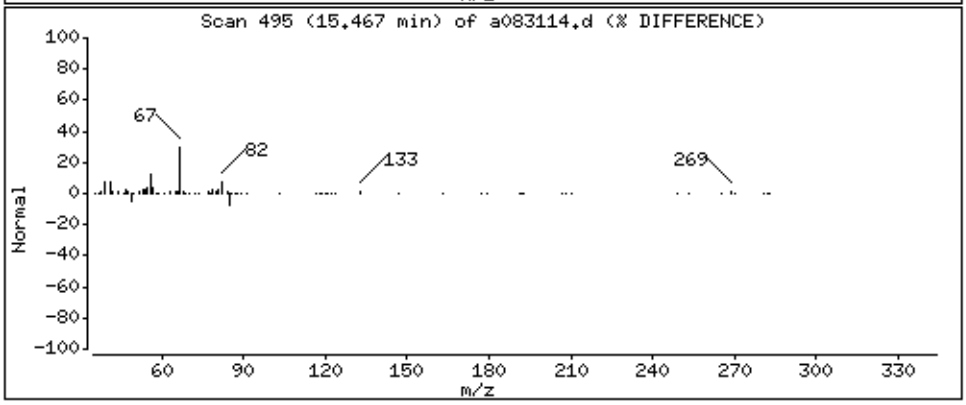
53 Chloroform

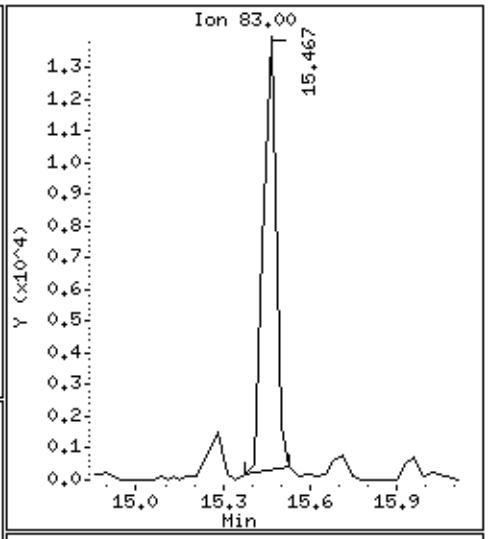
Concentration: 3.119 PPBV

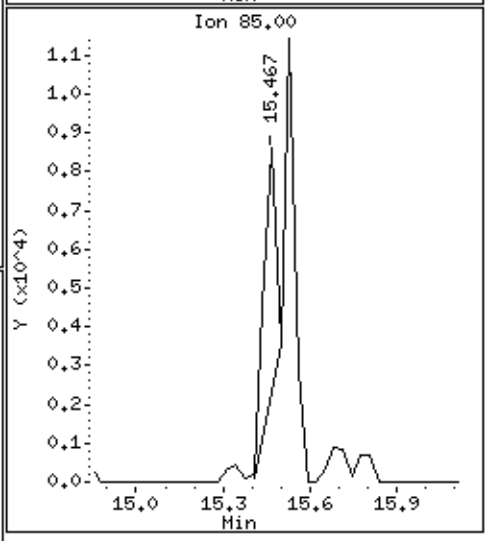


Data File: /chem/msda.i/31Aug2011.b/a083114.d

Date : 31-AUG-2011 18:05

Client ID:

Instrument: msda.i

Sample Info: 50mL #34467

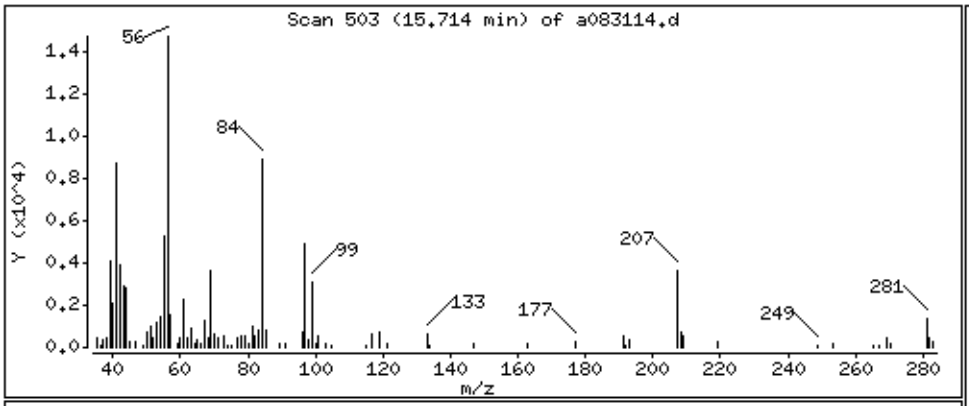
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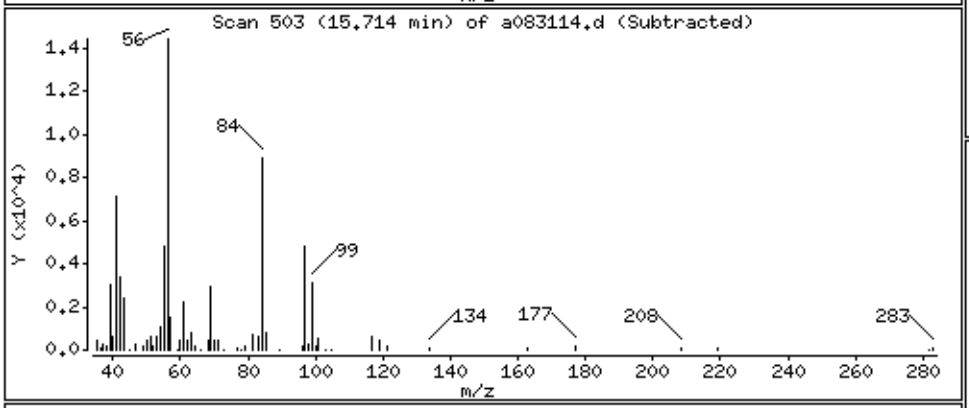
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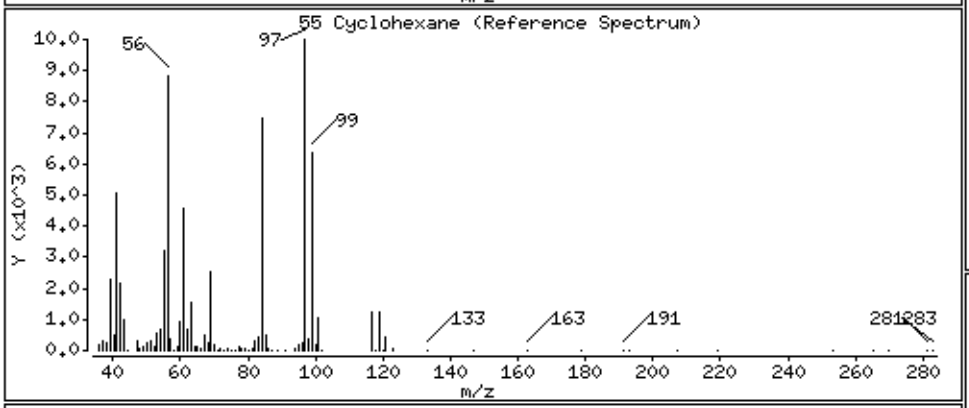
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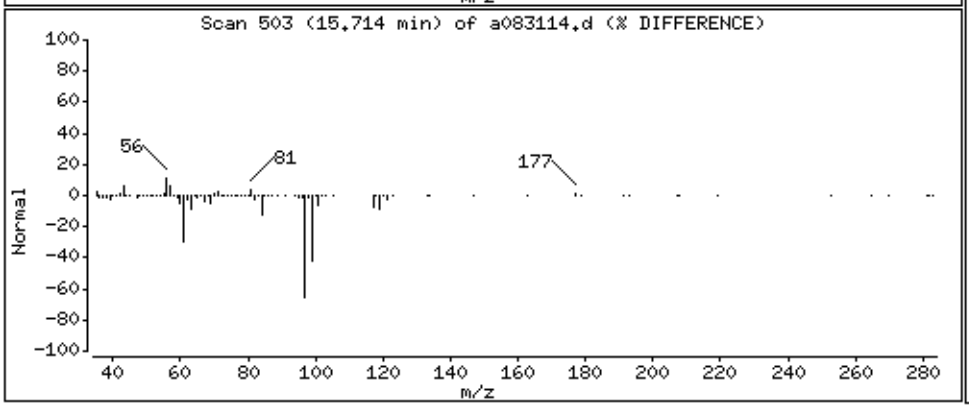
55 Cyclohexane

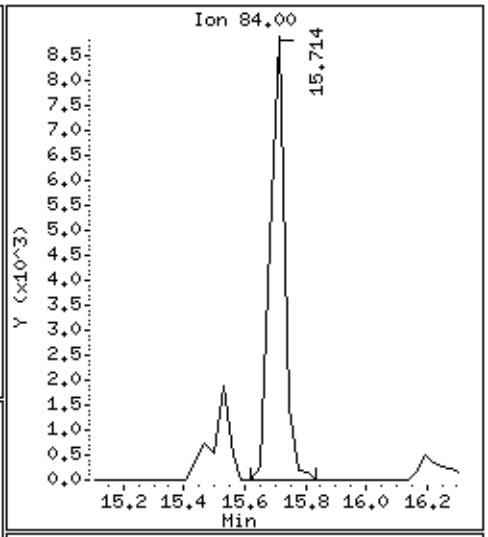
Concentration: 2.984 PPBV

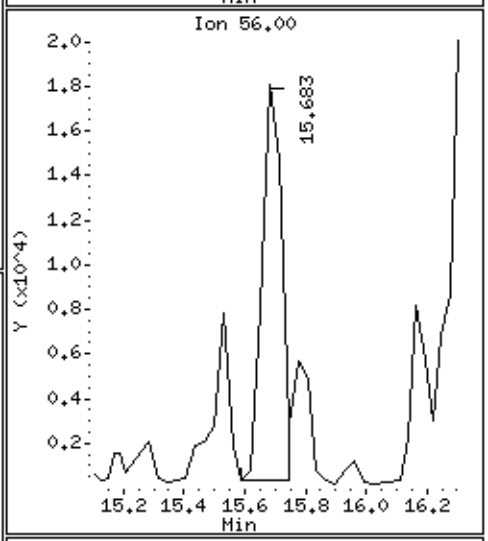


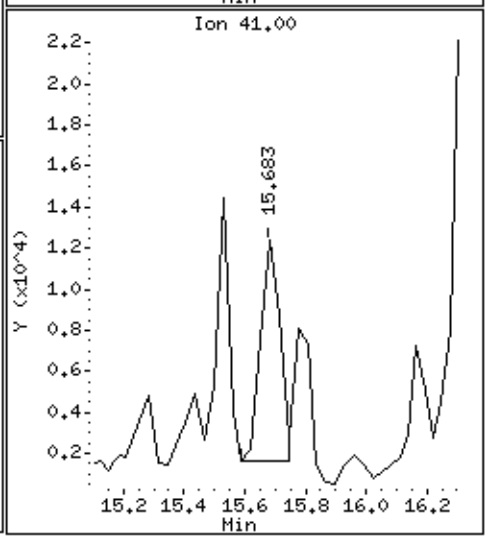



Data File: /chem/msda.i/31Aug2011.b/a083114.d

Date : 31-AUG-2011 18:05

Client ID:

Instrument: msda.i

Sample Info: 50mL #34467

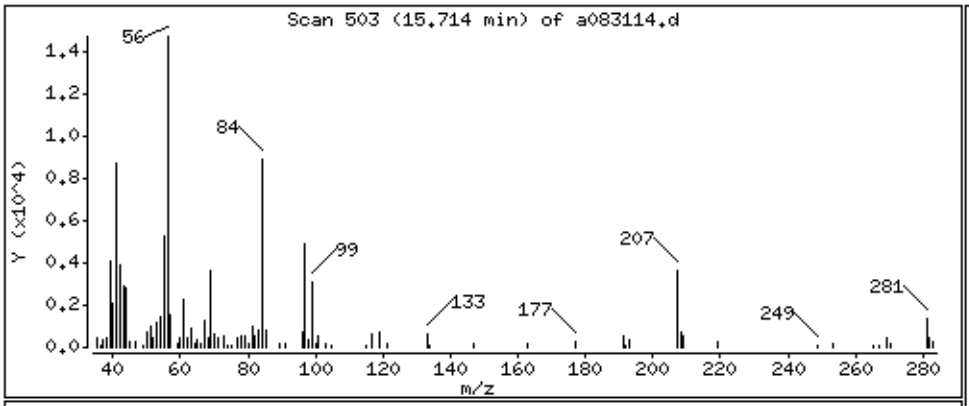
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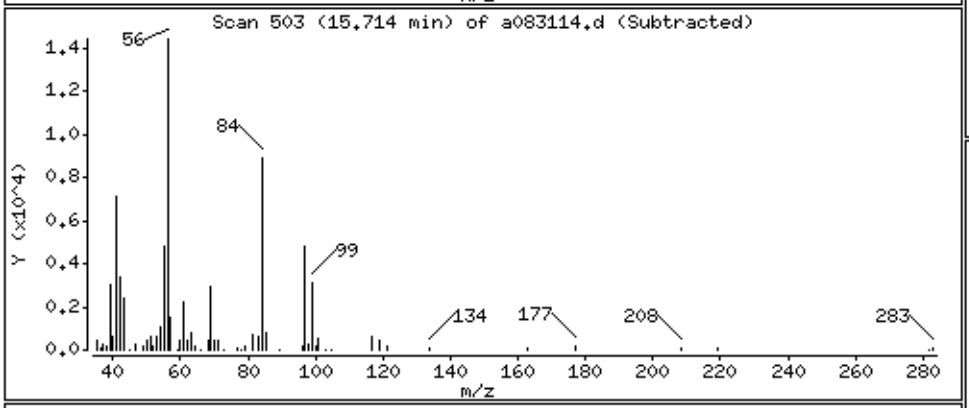
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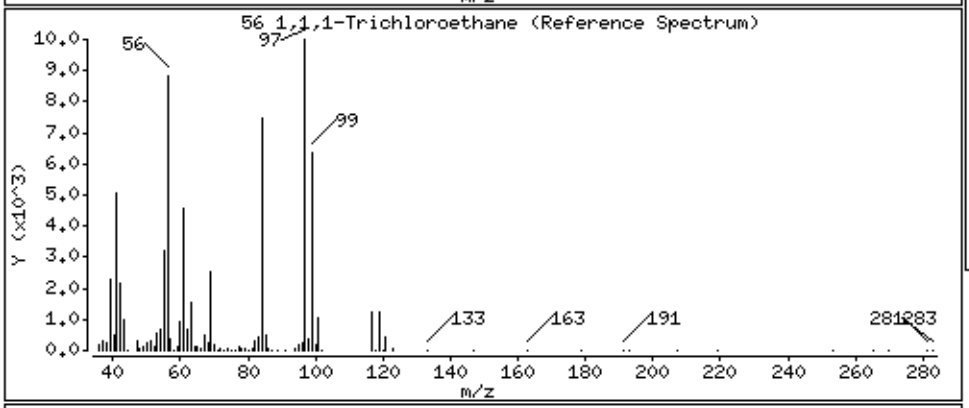
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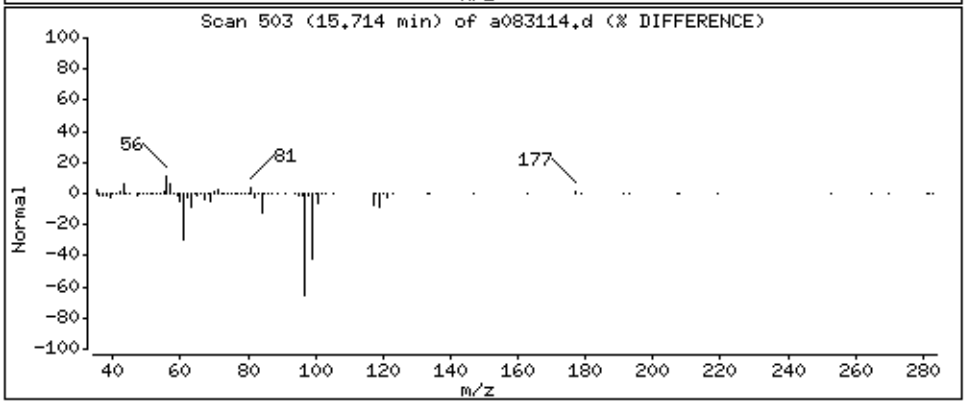
56 1,1,1-Trichloroethane

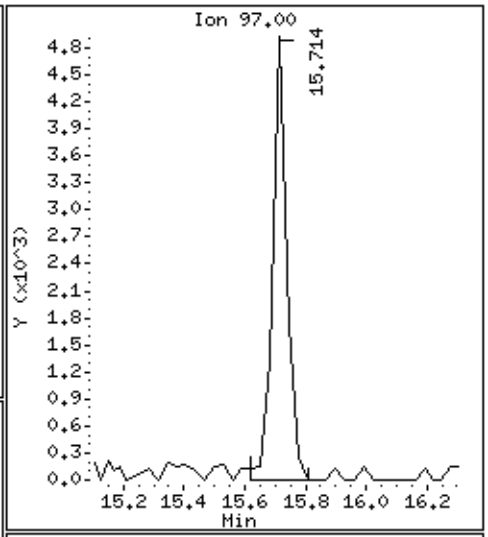
Concentration: 1.108 PPBV

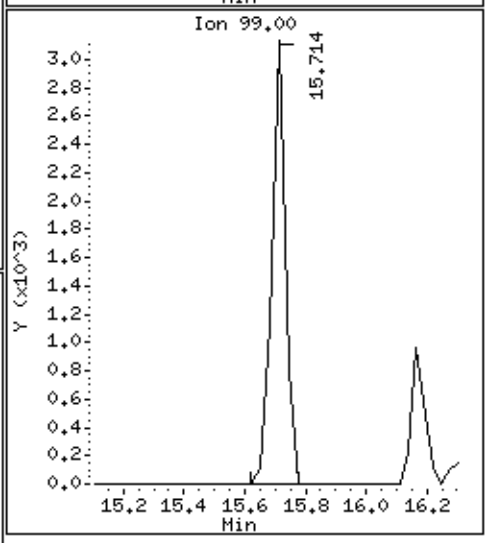


Data File: /chem/msda.i/31Aug2011.b/a083114.d

Date : 31-AUG-2011 18:05

Client ID:

Instrument: msda.i

Sample Info: 50mL #34467

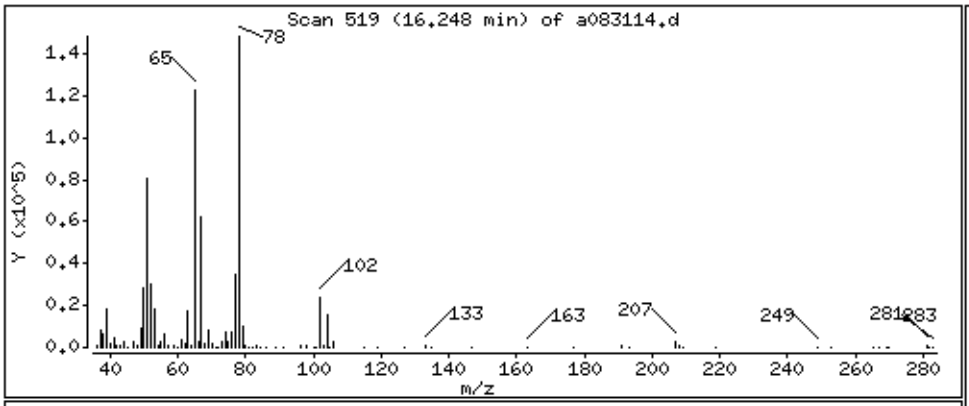
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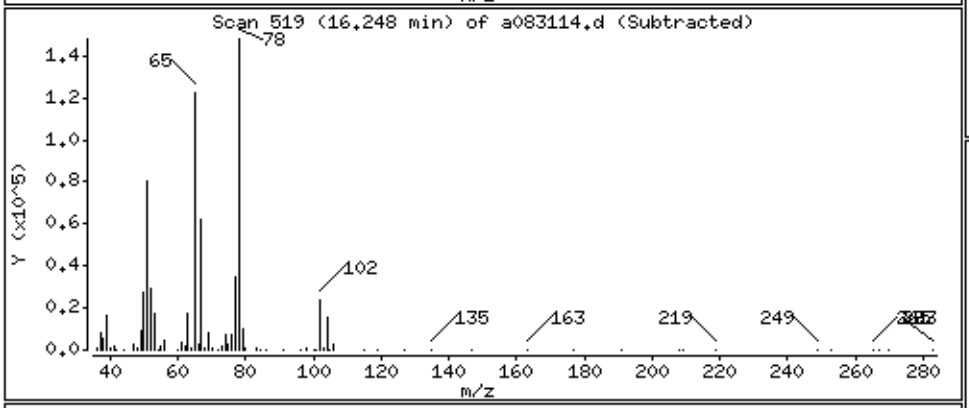
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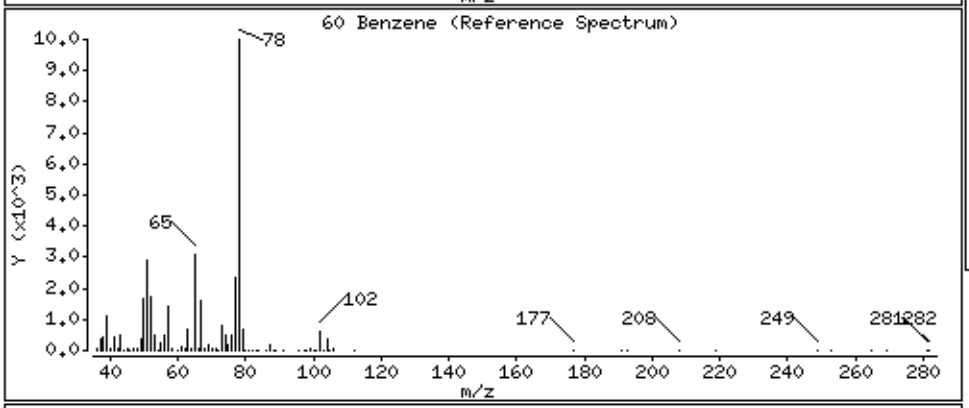
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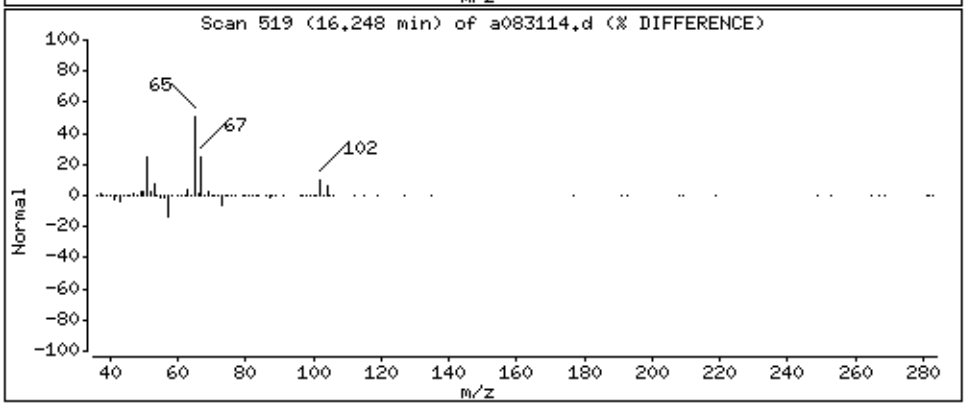
60 Benzene

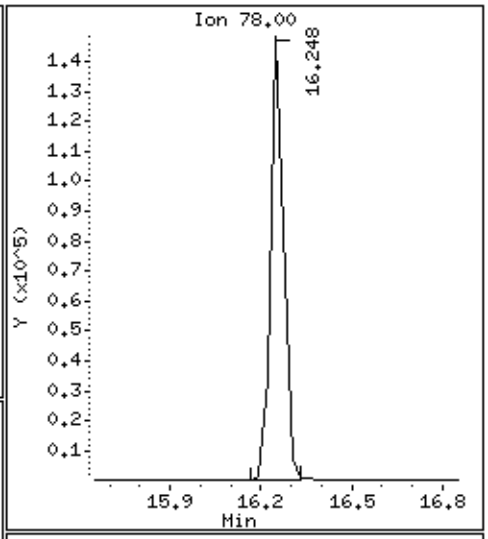
Concentration: 22.594 PPBV

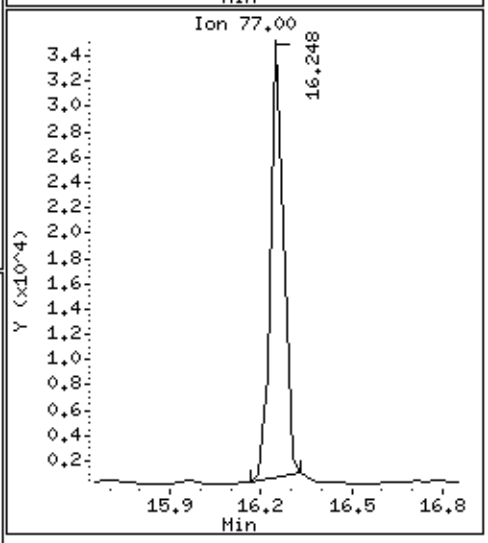


Data File: /chem/msda.i/31Aug2011.b/a083114.d

Date : 31-AUG-2011 18:05

Client ID:

Instrument: msda.i

Sample Info: 50mL #34467

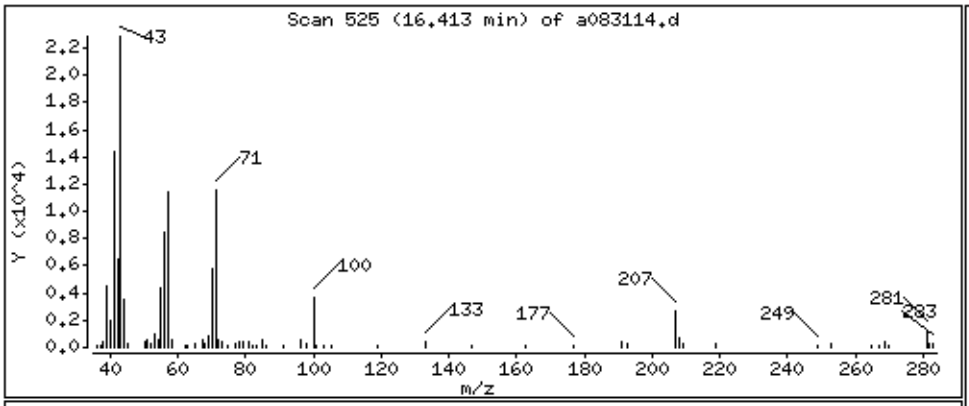
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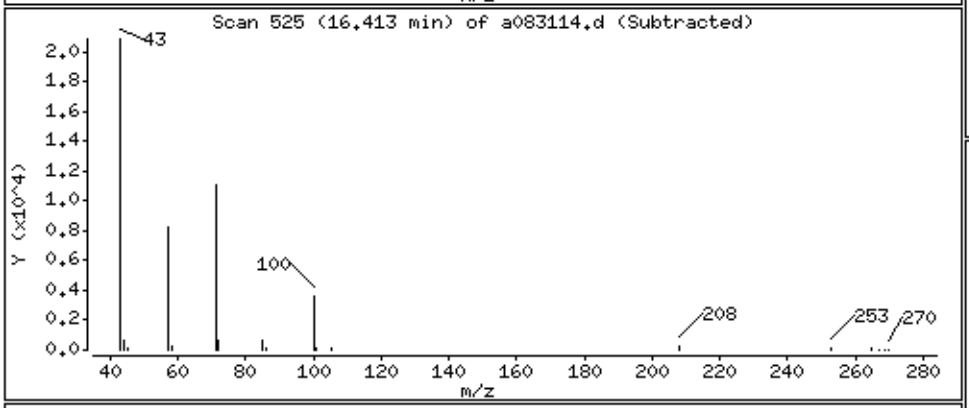
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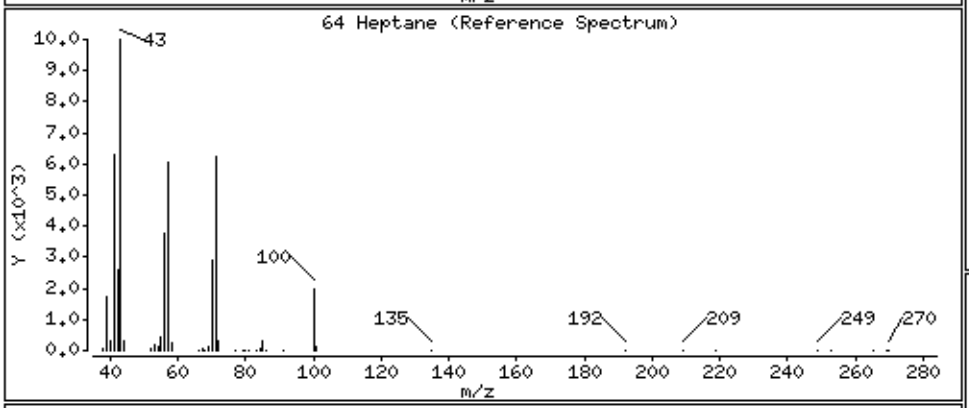
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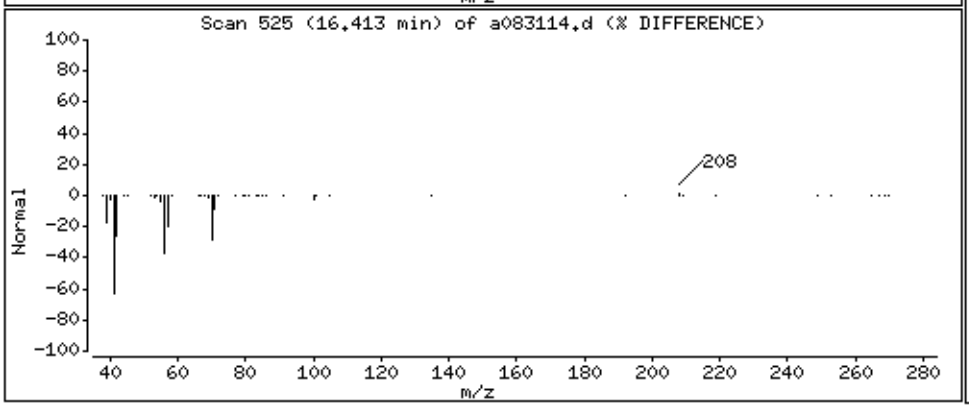
64 Heptane

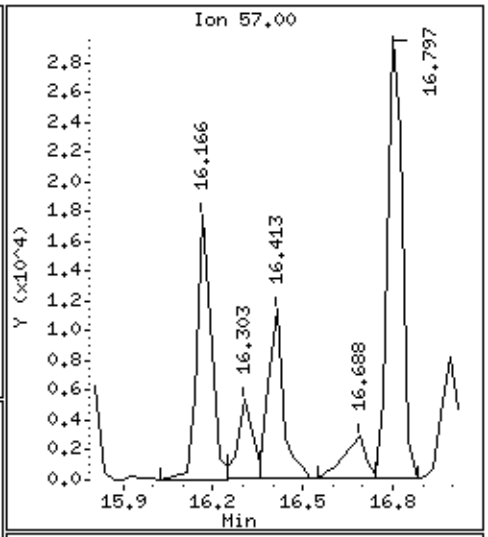
Concentration: 5.879 PPBV

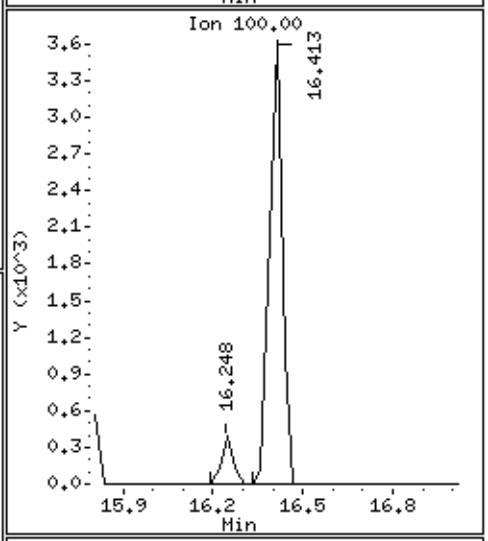


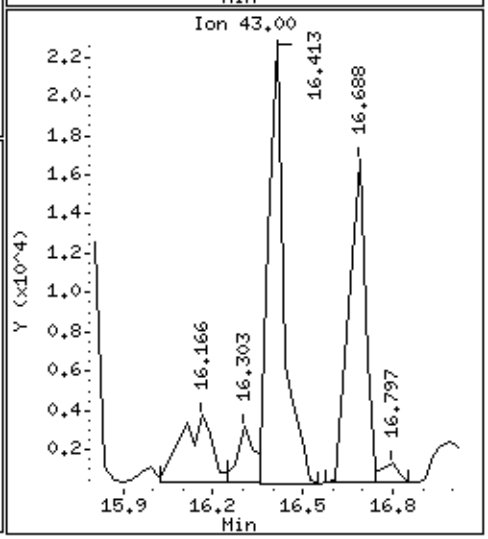



Data File: /chem/msda.i/31Aug2011.b/a083114.d

Date : 31-AUG-2011 18:05

Client ID:

Instrument: msda.i

Sample Info: 50mL #34467

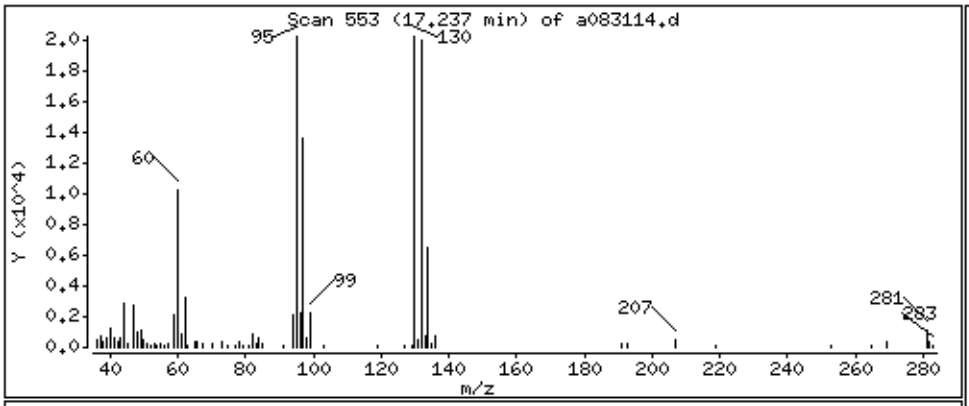
Operator: jc

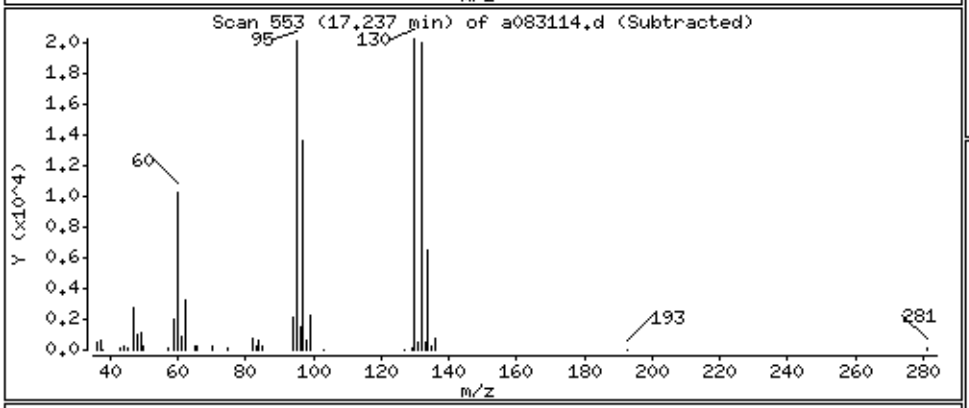
Column phase: RTx-624

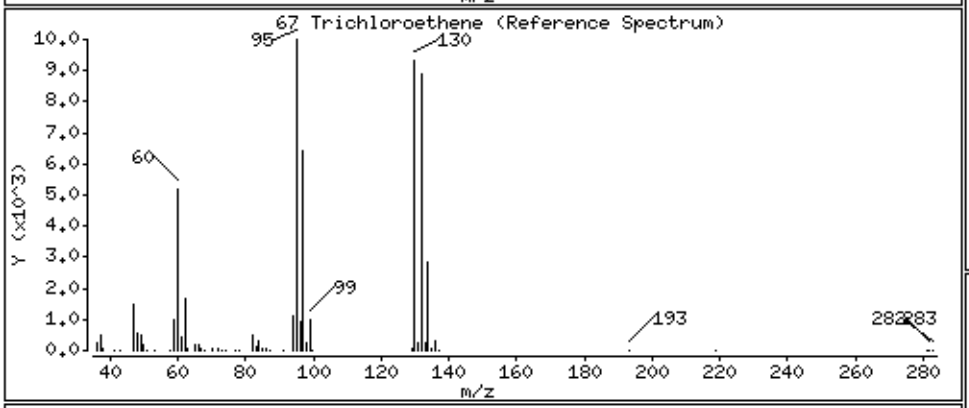
Column diameter: 0.32

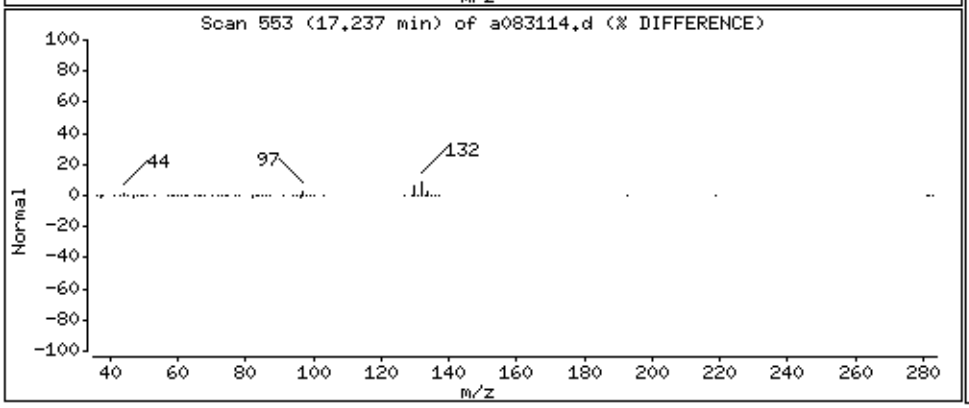
67 Trichloroethene

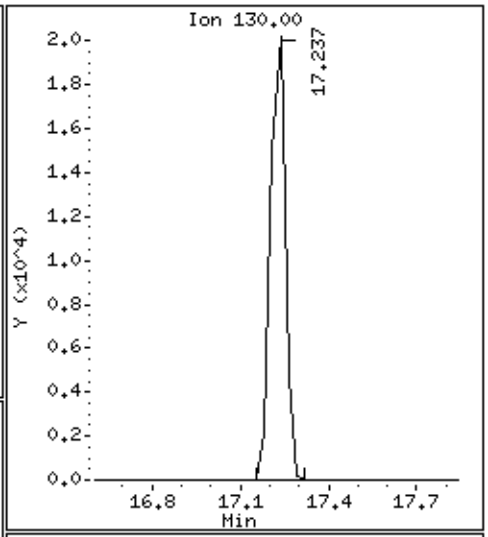
Concentration: 8.159 PPBV

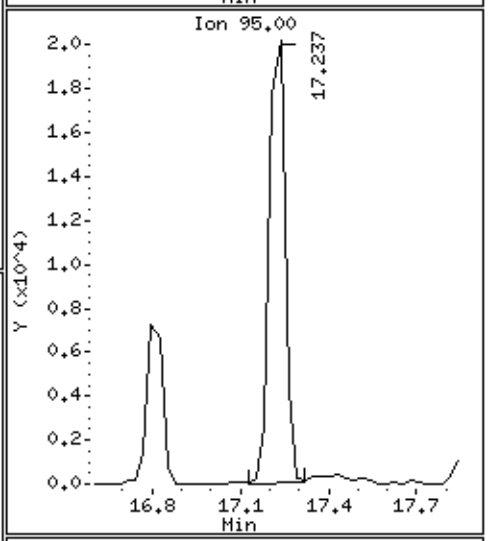


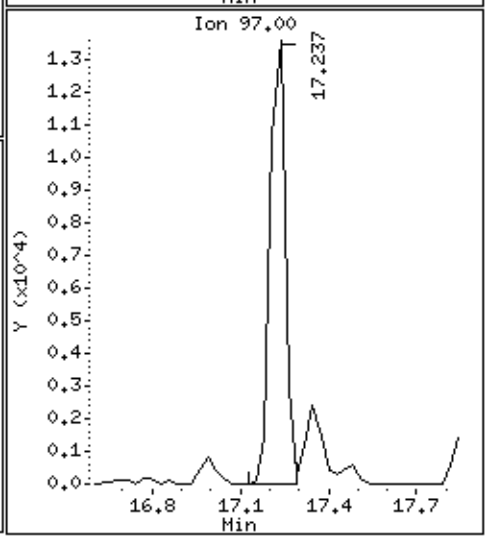



Data File: /chem/msda.i/31Aug2011.b/a083114.d

Date : 31-AUG-2011 18:05

Client ID:

Instrument: msda.i

Sample Info: 50mL #34467

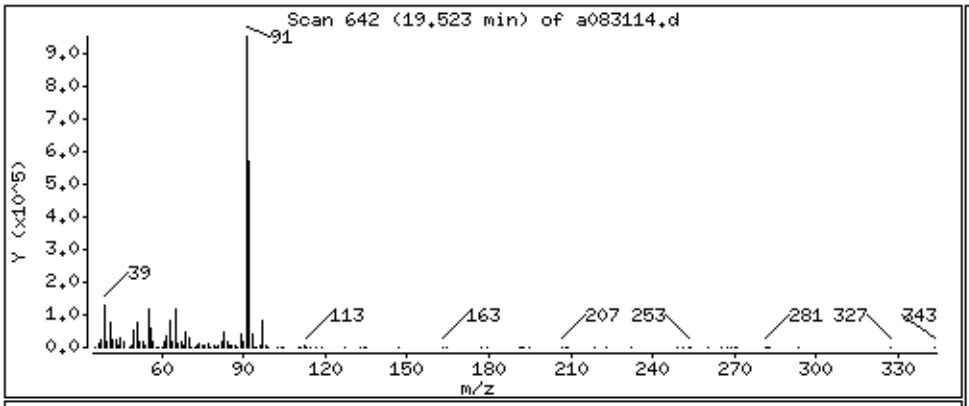
Operator: jc

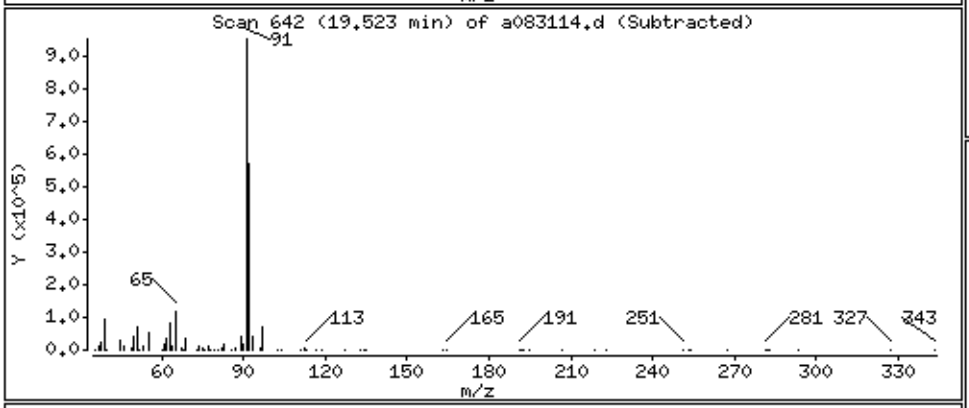
Column phase: RTx-624

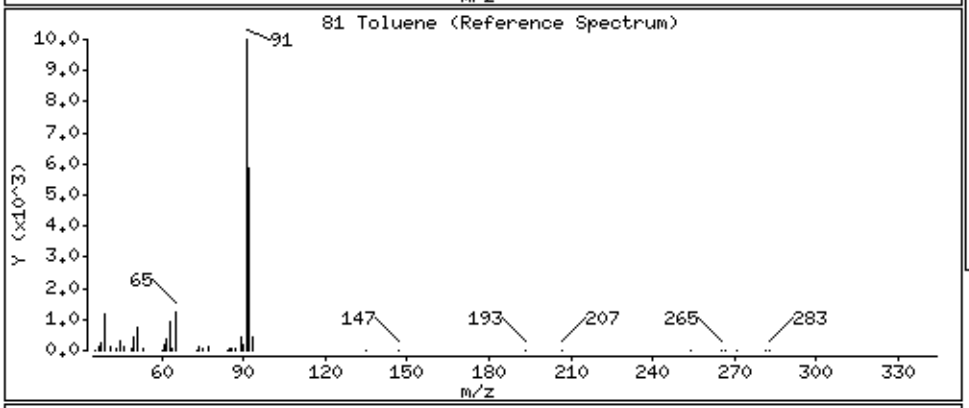
Column diameter: 0.32

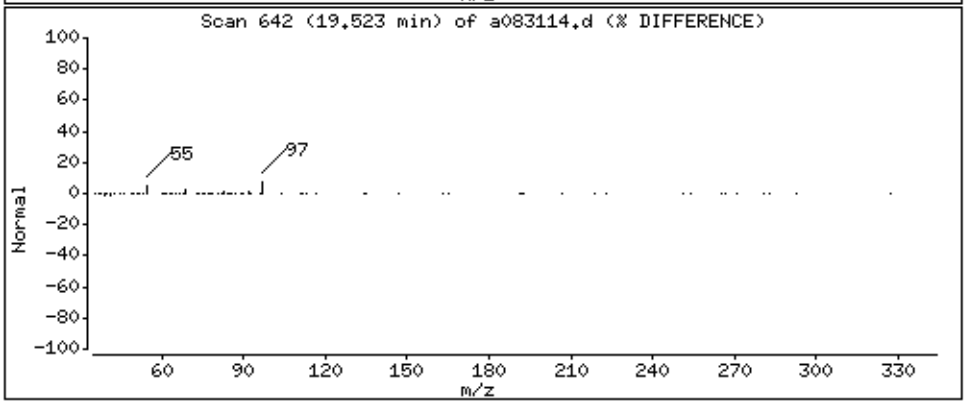
81 Toluene

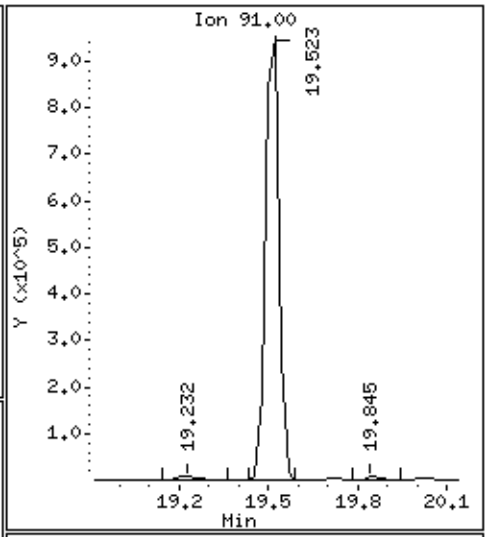
Concentration: 133.22 PPBV

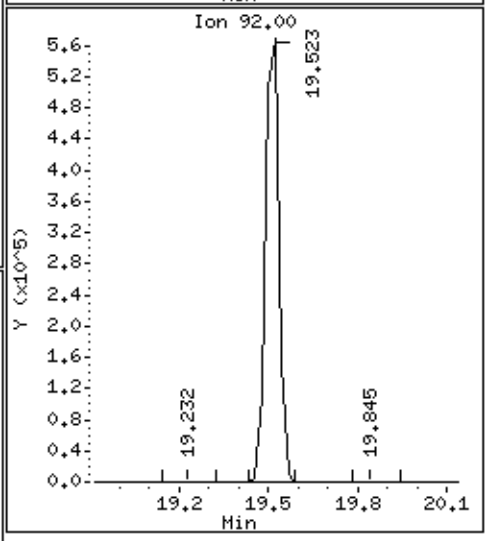


Data File: /chem/msda.i/31Aug2011.b/a083114.d

Date : 31-AUG-2011 18:05

Client ID:

Instrument: msda.i

Sample Info: 50mL #34467

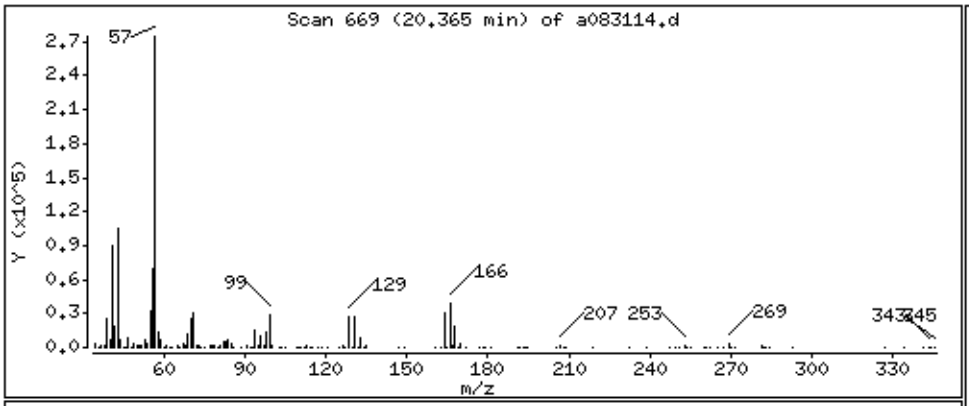
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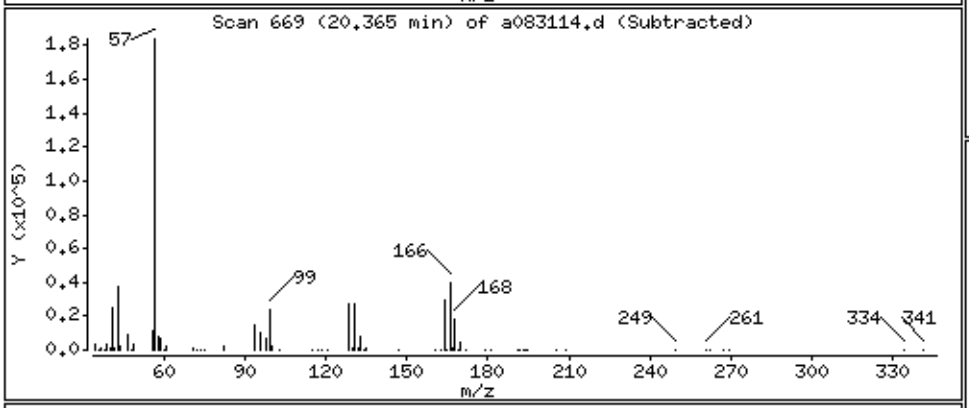
Column phase: RTx-624

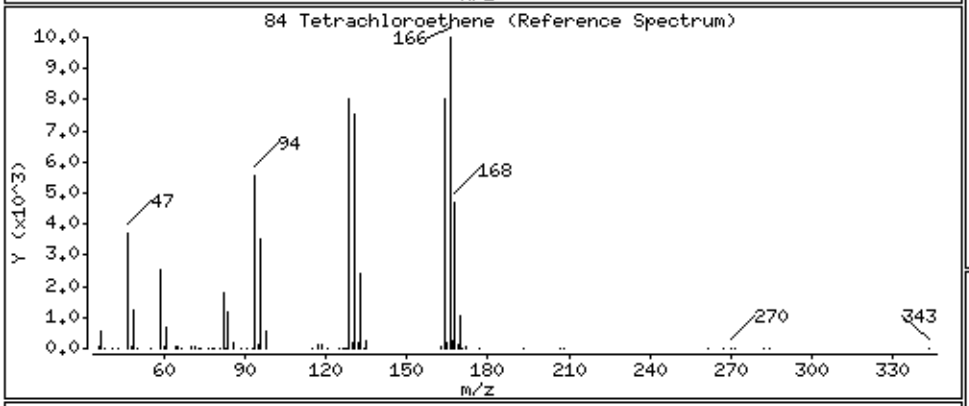
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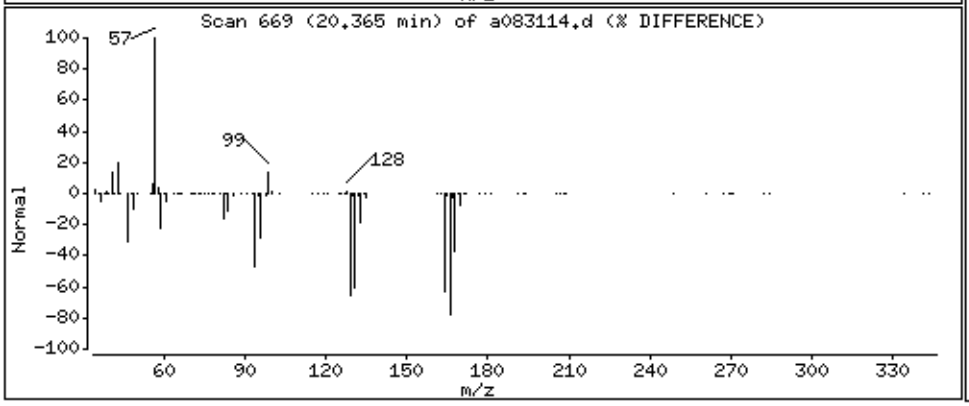
84 Tetrachloroethene

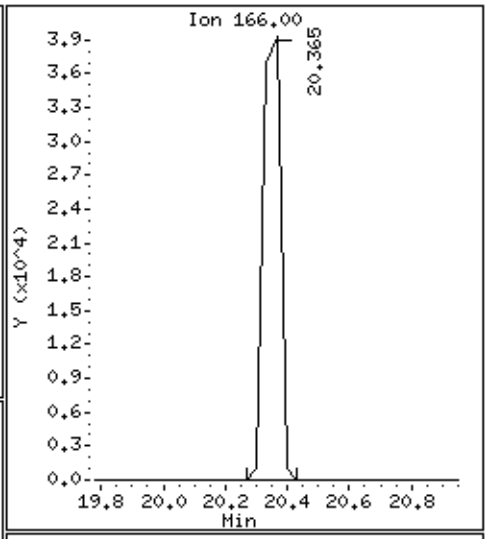
Concentration: 15.327 PPBV

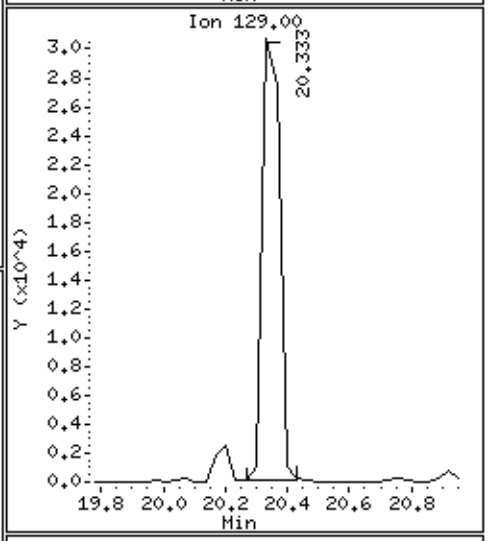


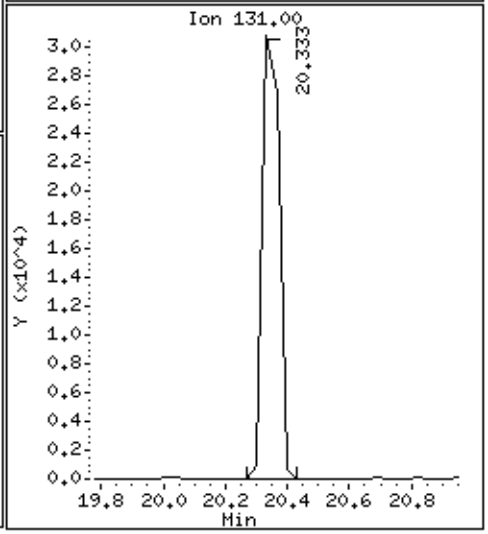



Data File: /chem/msda.i/31Aug2011.b/a083114.d

Date : 31-AUG-2011 18:05

Client ID:

Instrument: msda.i

Sample Info: 50mL #34467

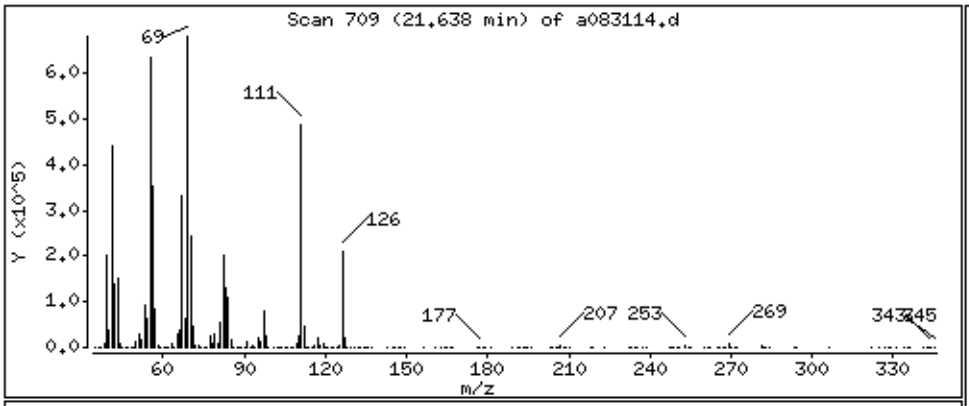
Operator: jc

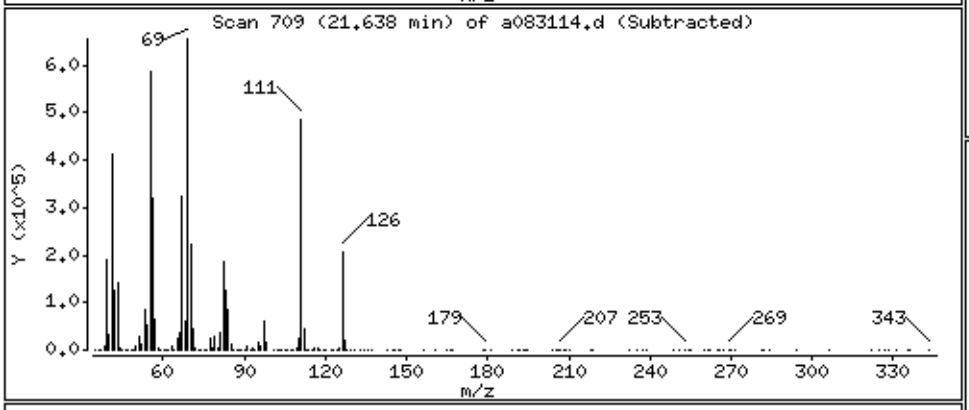
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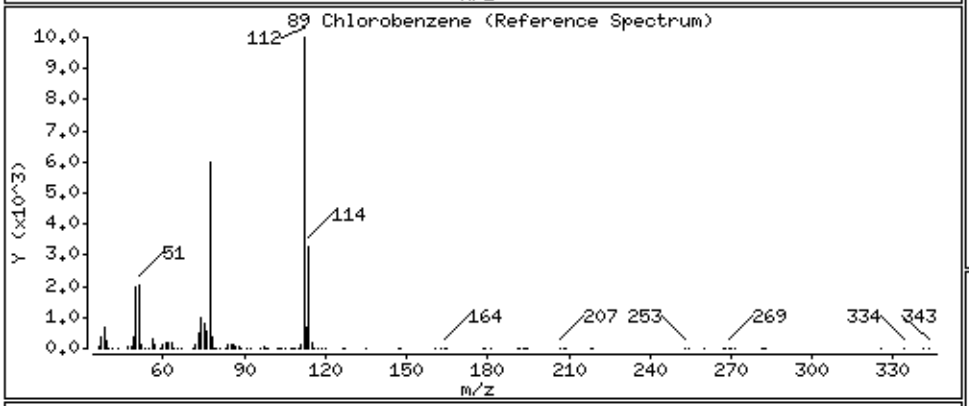
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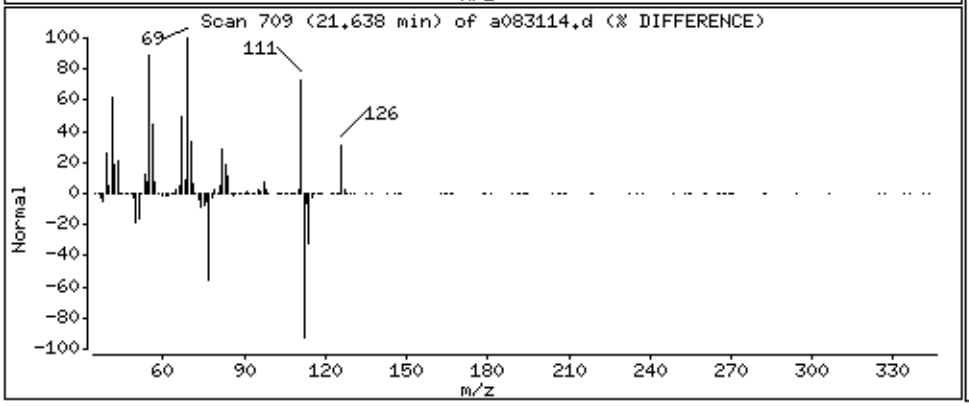
89 Chlorobenzene

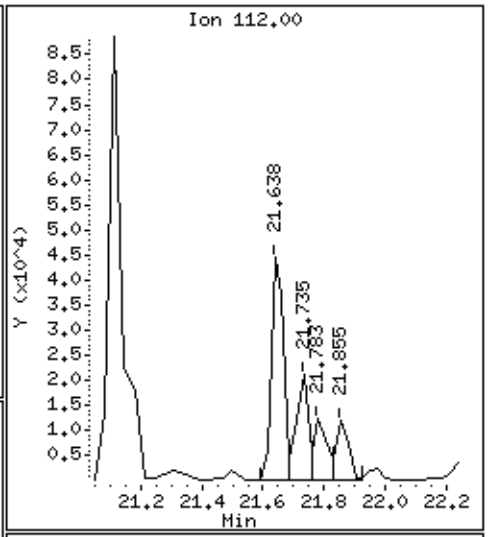
Concentration: 7.502 PPBV

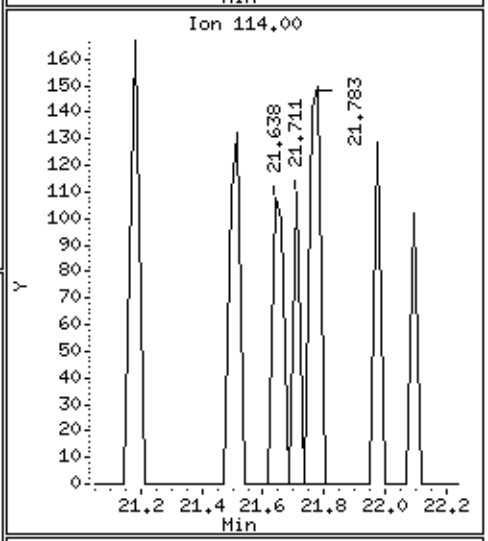


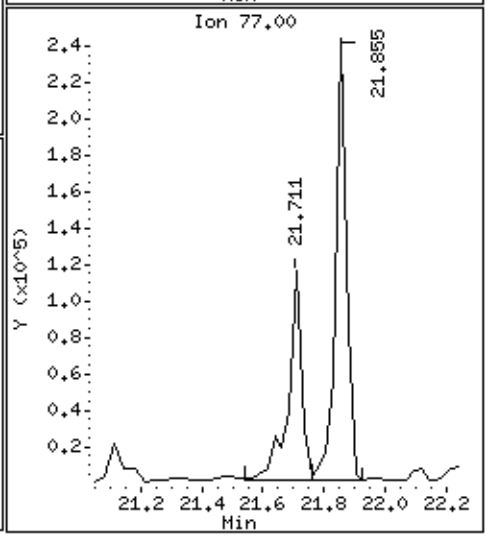



Data File: /chem/msda.i/31Aug2011.b/a083114.d

Date : 31-AUG-2011 18:05

Client ID:

Instrument: msda.i

Sample Info: 50mL #34467

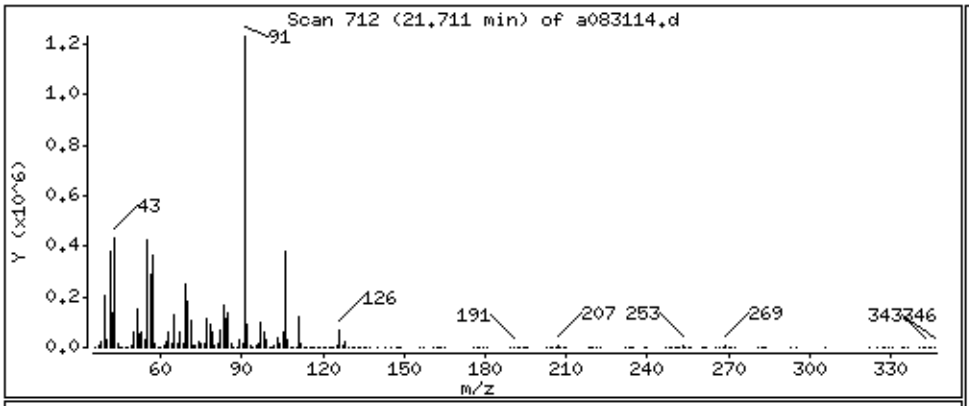
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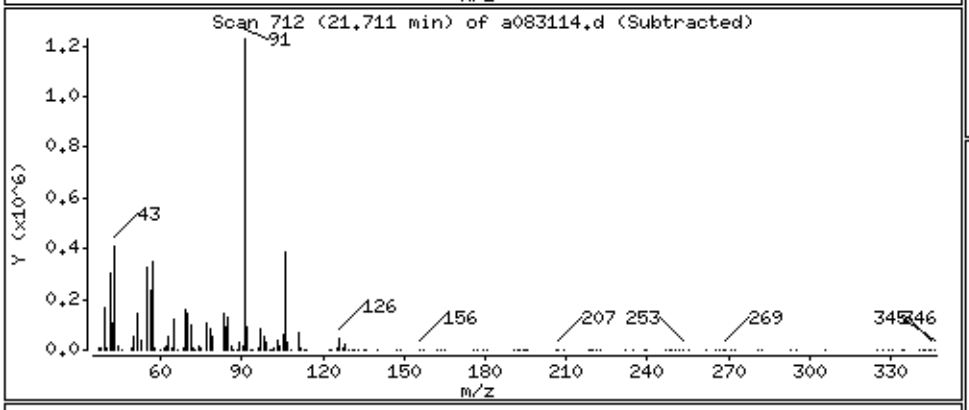
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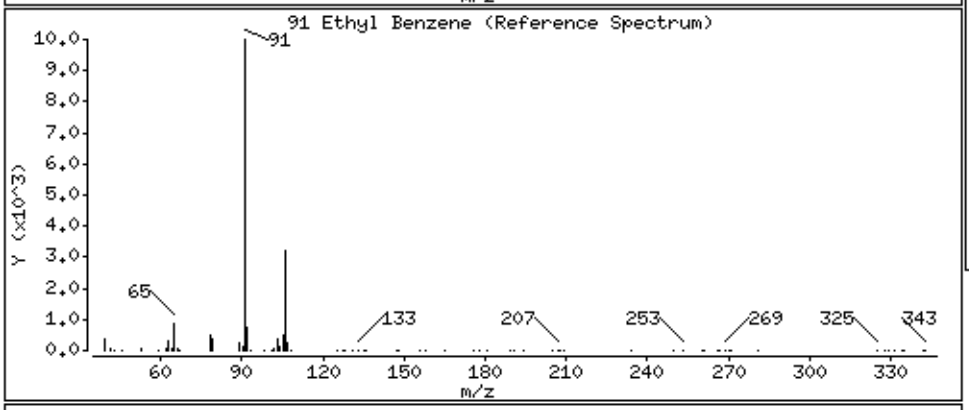
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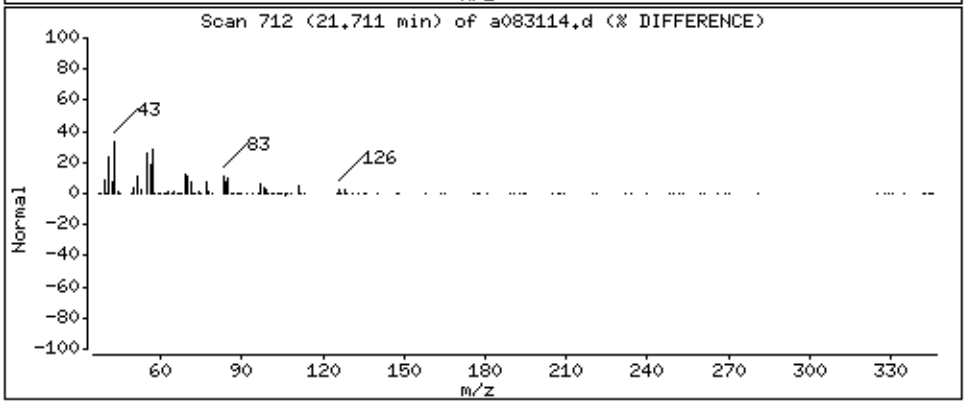
91 Ethyl Benzene

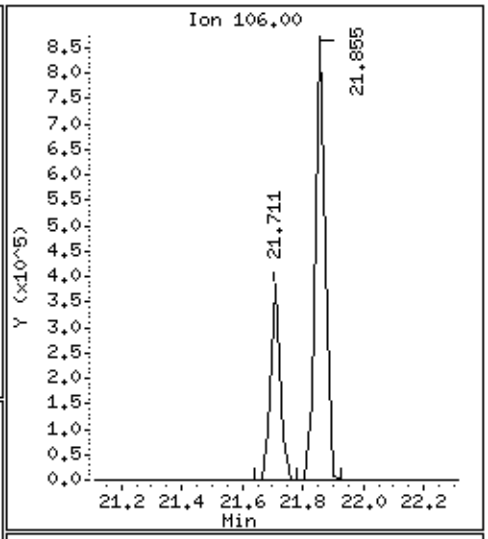
Concentration: 91.439 PPBV

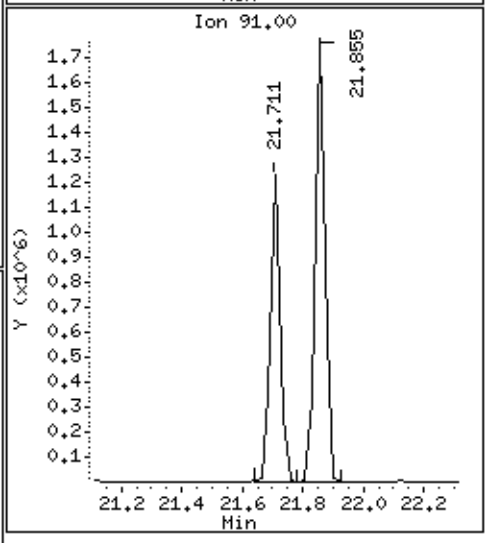


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Sample Info: 50mL #34467

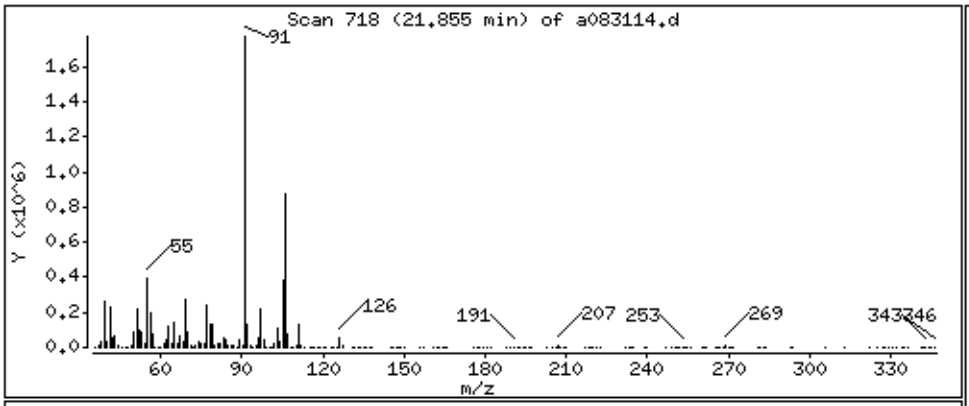
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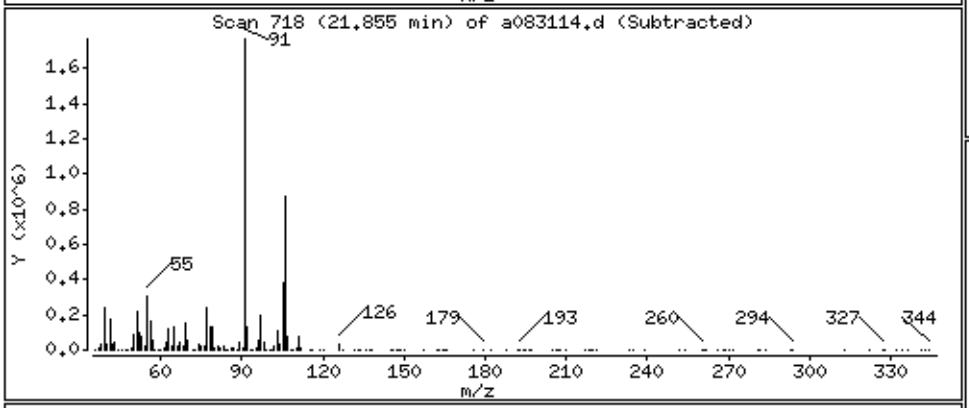
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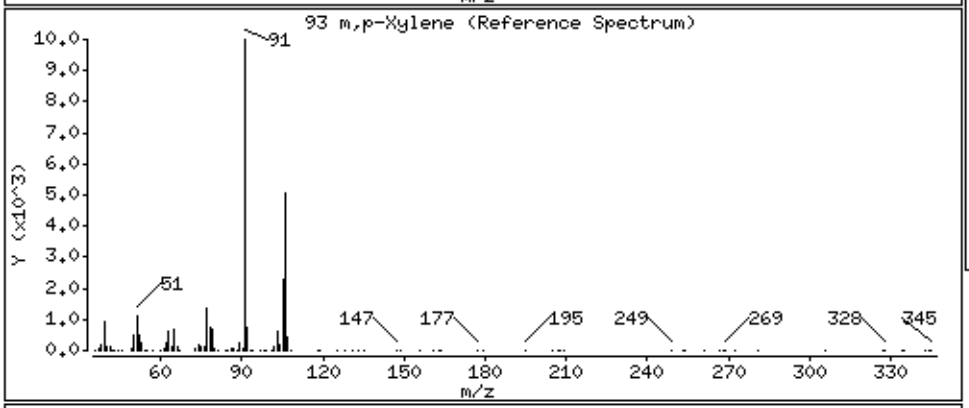
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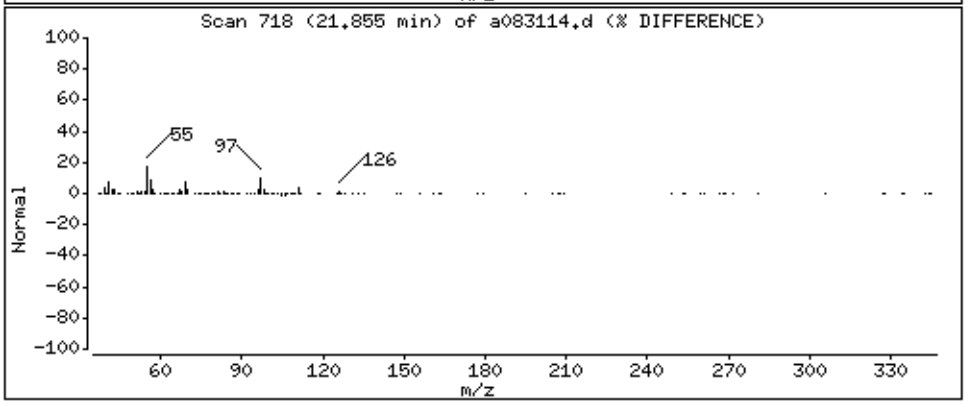
93 m,p-Xylene

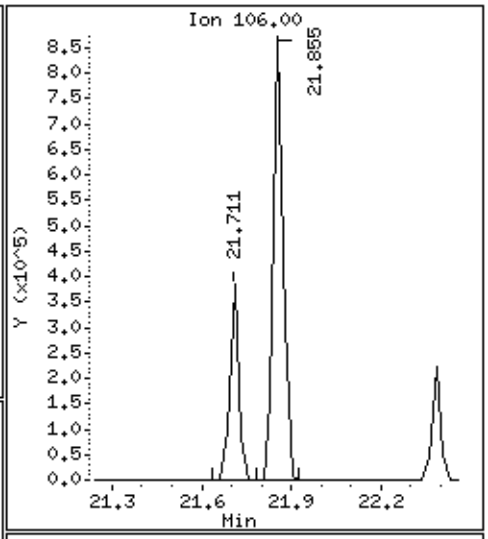
Concentration: 196.61 PPBV

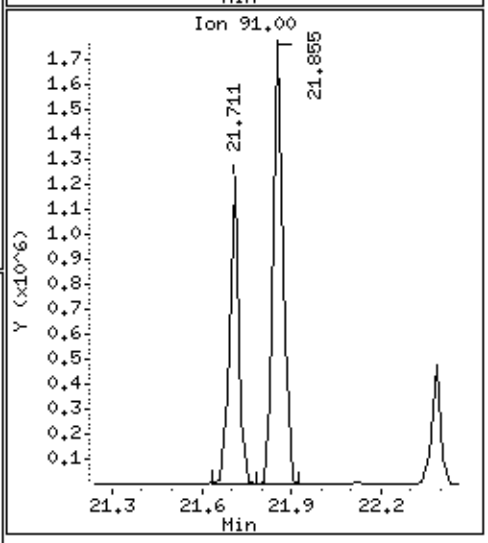


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Date : 31-AUG-2011 18:05

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Sample Info: 50mL #34467

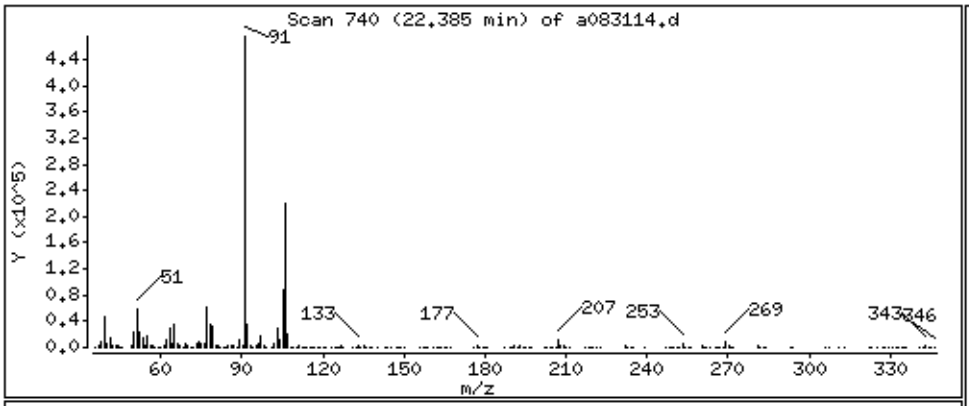
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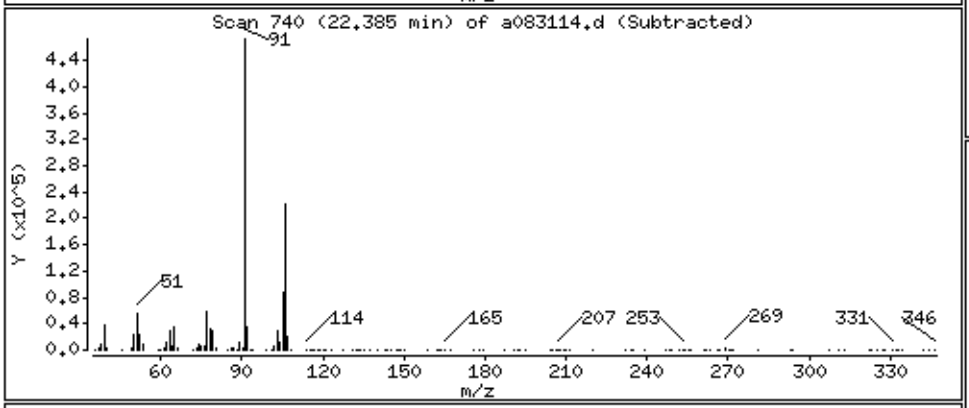
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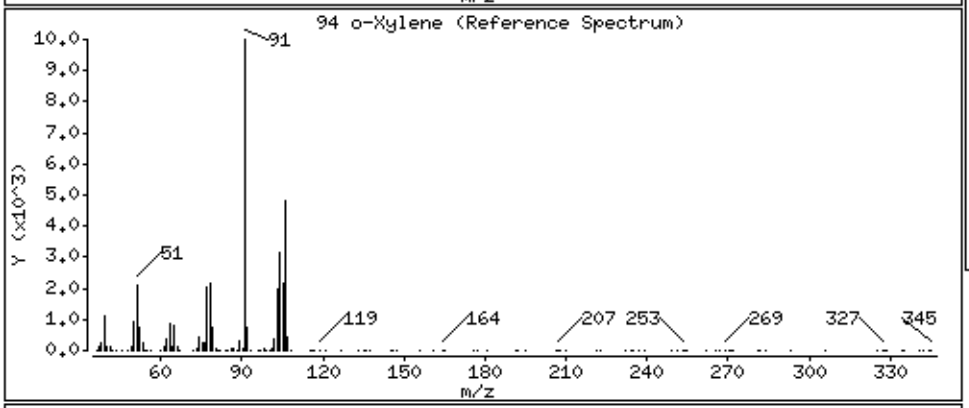
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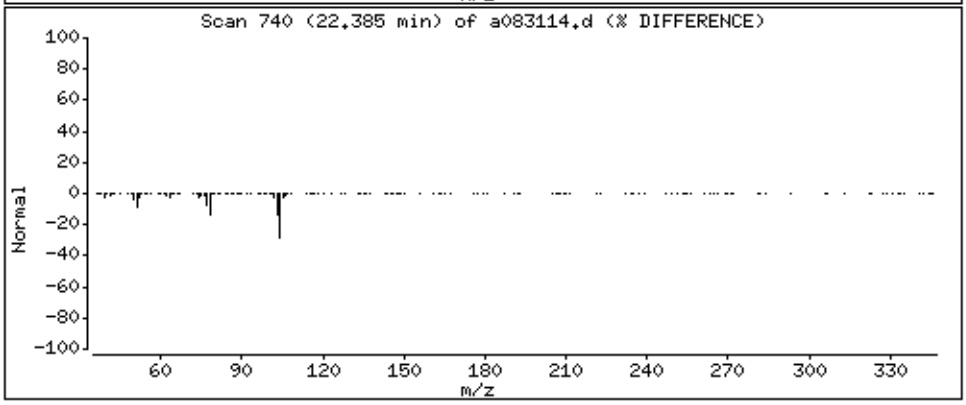
94 o-Xylene

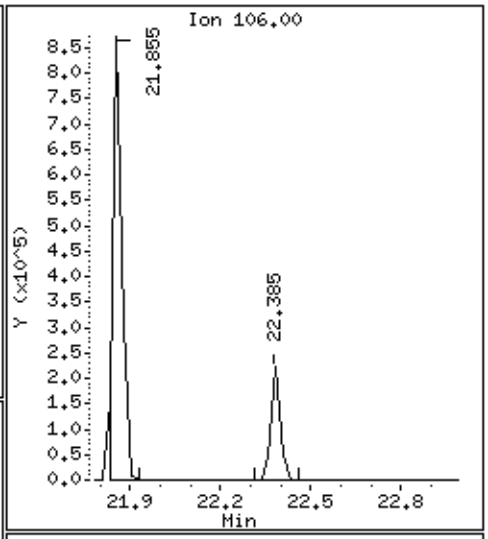
Concentration: 48.388 PPBV

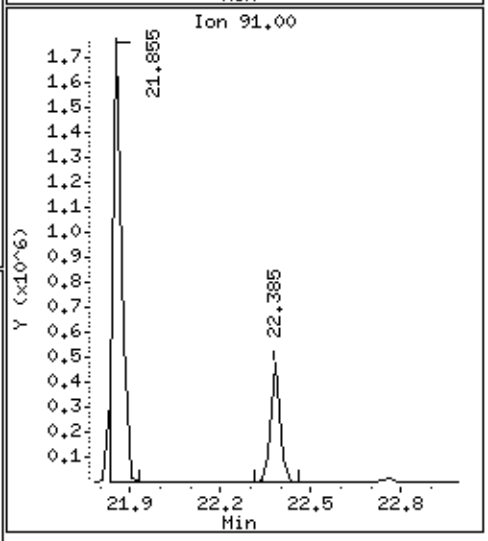


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Date : 31-AUG-2011 18:05

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Instrument: msda.i

Sample Info: 50mL #34467

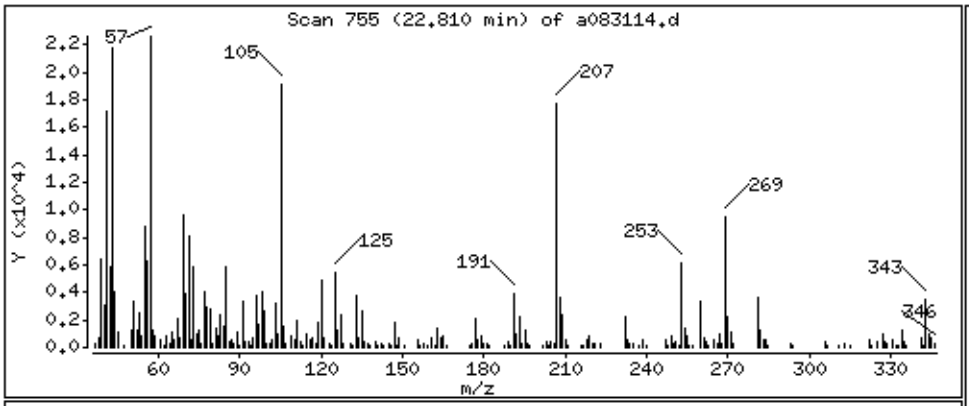
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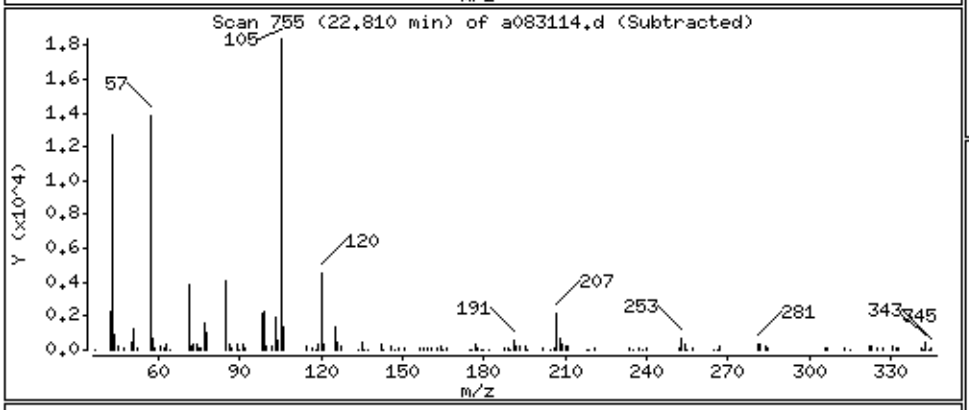
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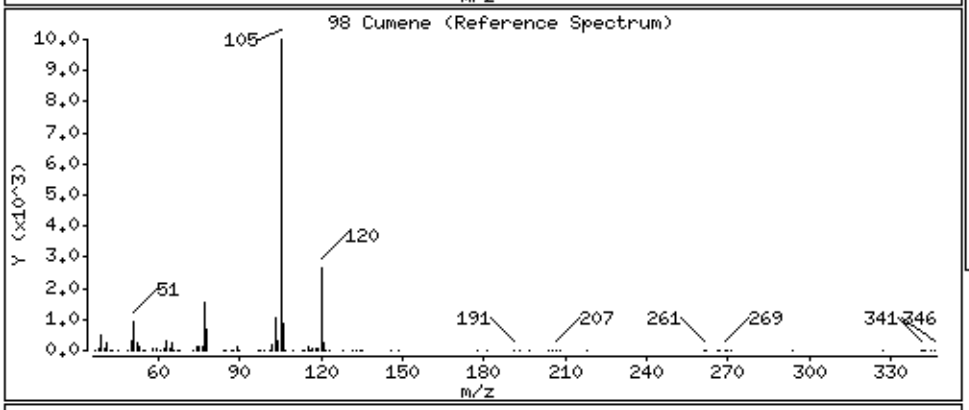
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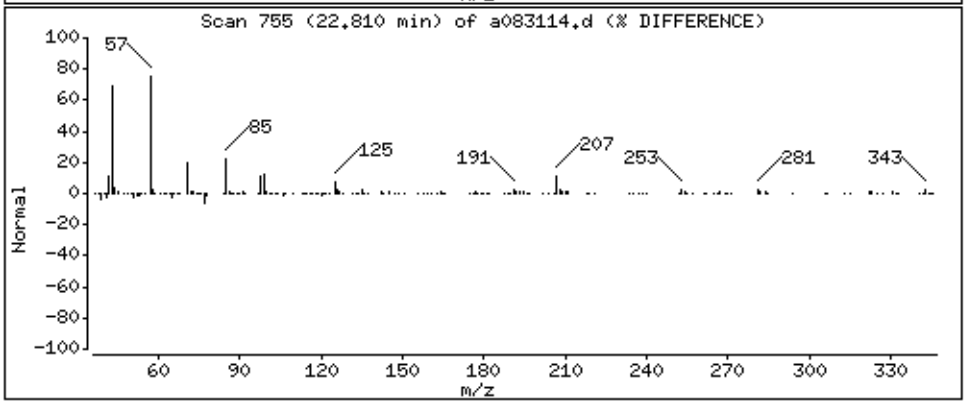
98 Cumene

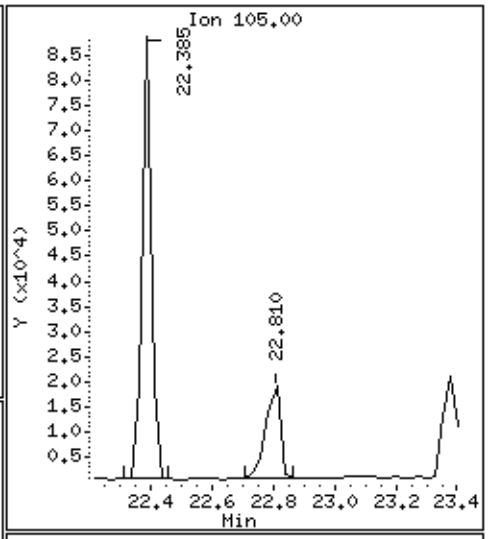
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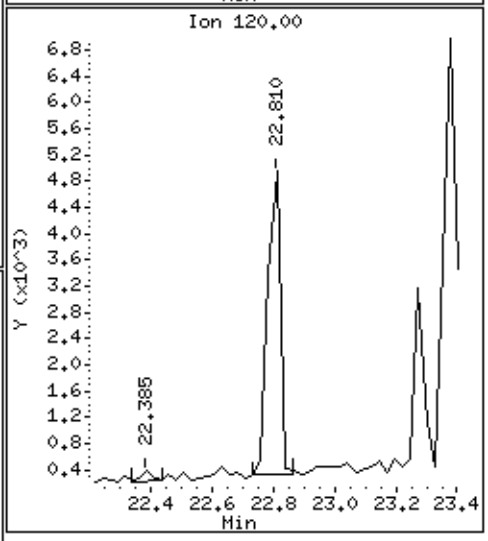


Data File: /chem/msda.i/31Aug2011.b/a083114.d

Date : 31-AUG-2011 18:05

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Sample Info: 50mL #34467

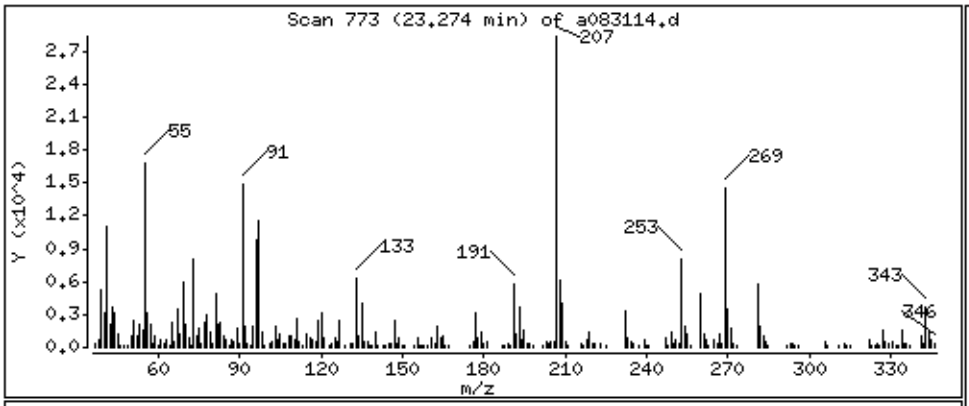
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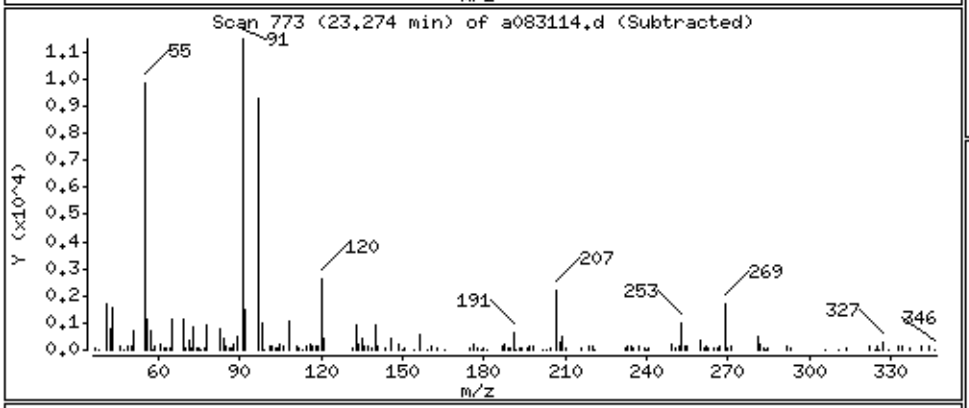
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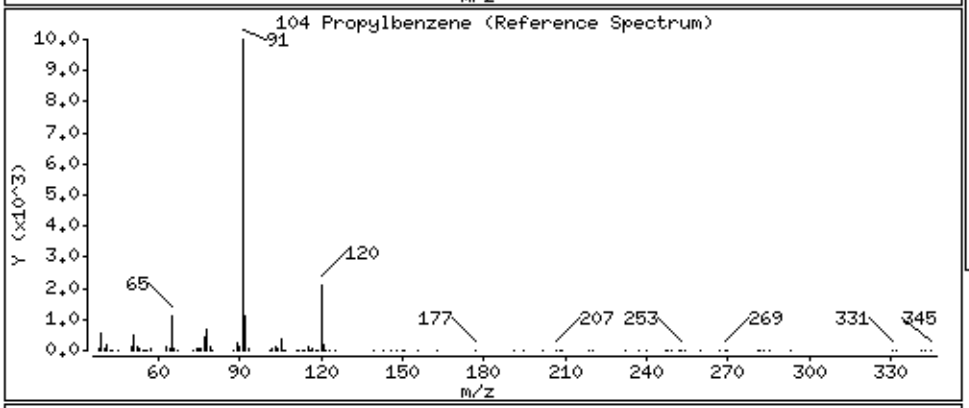
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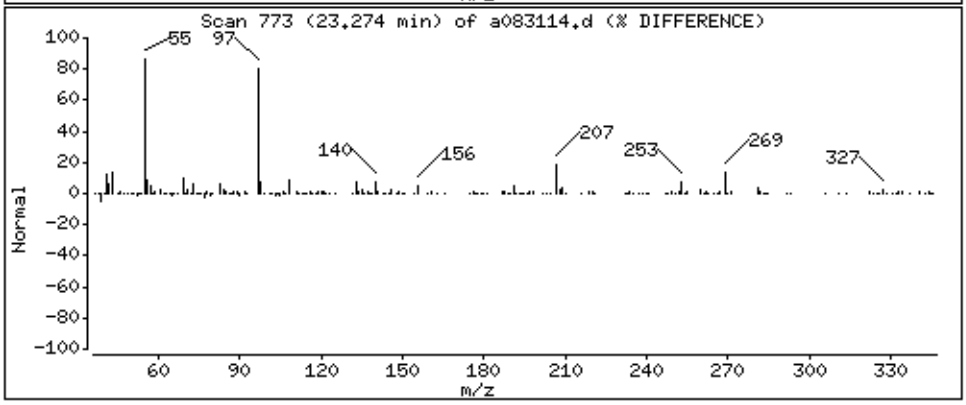
104 Propylbenzene

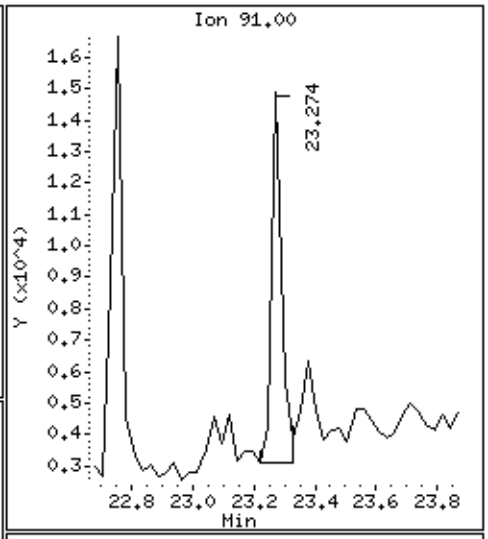
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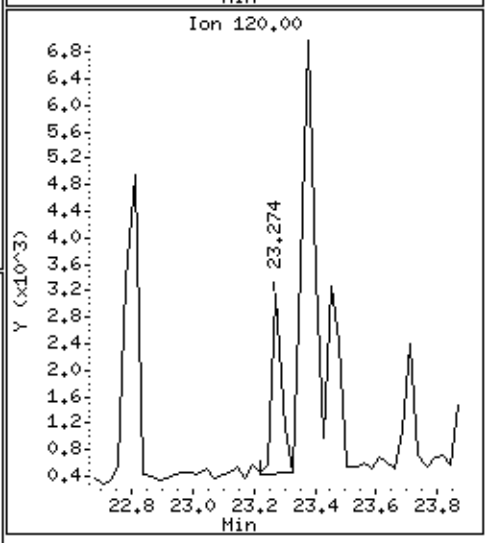


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Date : 31-AUG-2011 18:05

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Sample Info: 50mL #34467

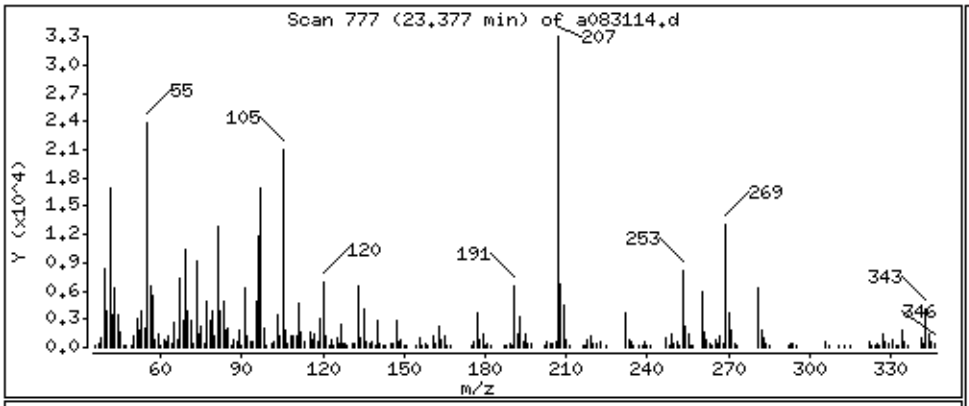
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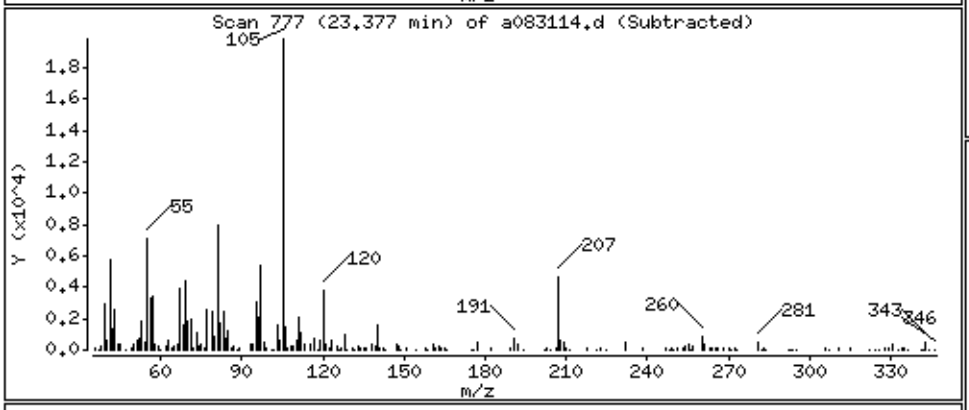
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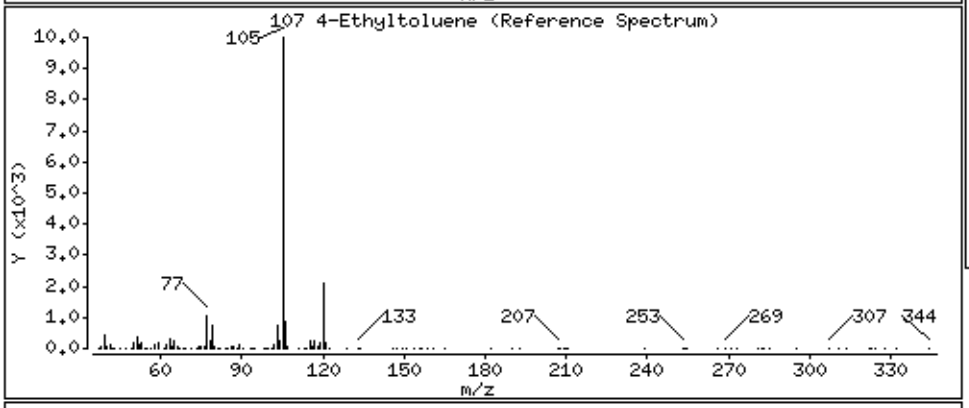
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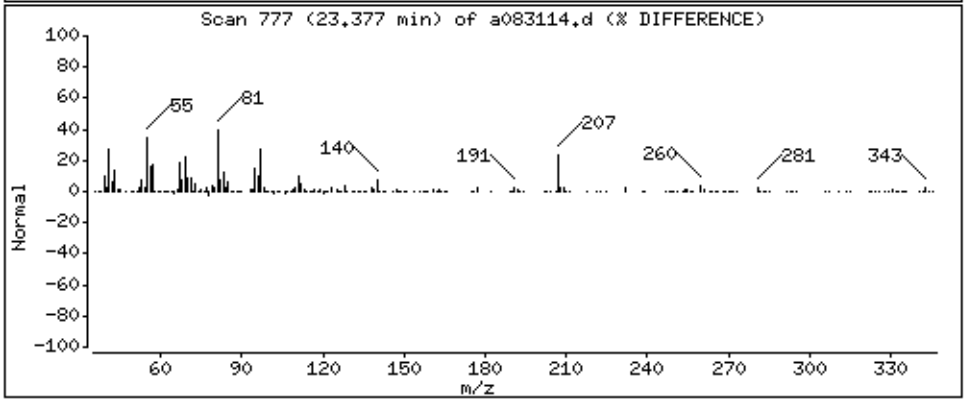
107 4-Ethyltoluene

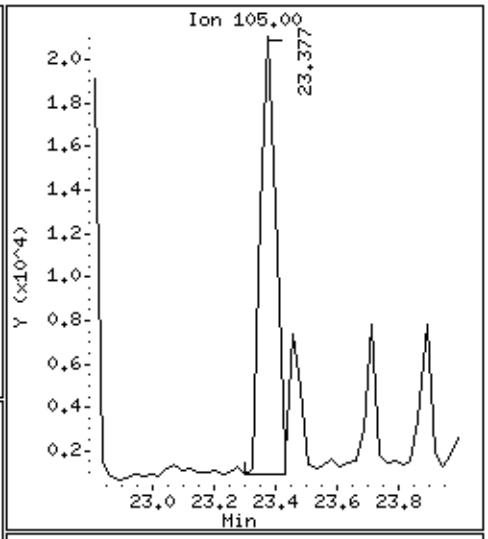
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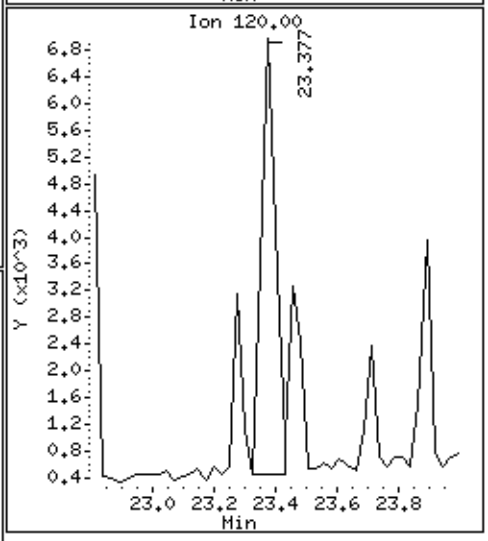


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Date : 31-AUG-2011 18:05

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Sample Info: 50mL #34467

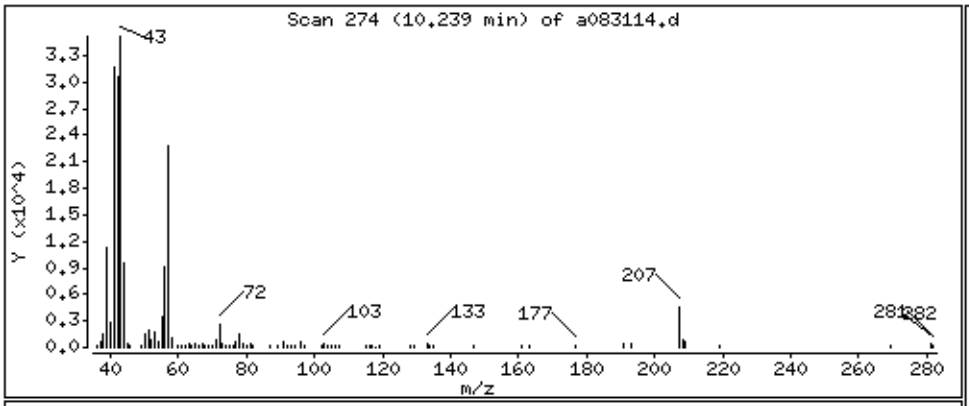
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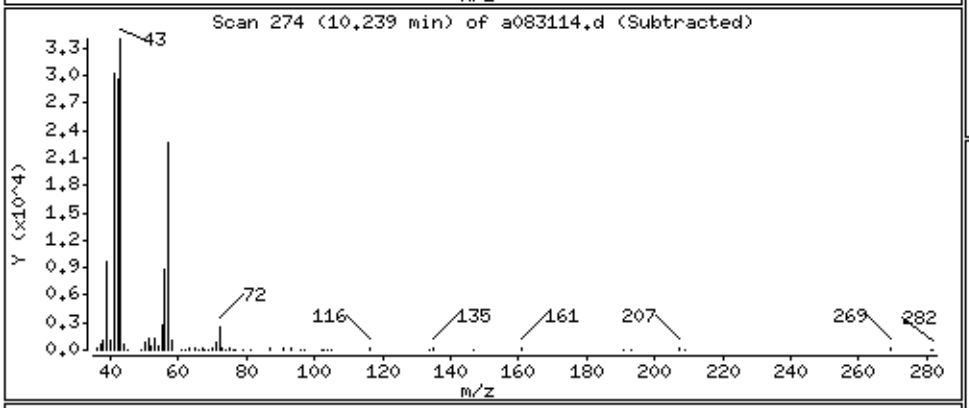
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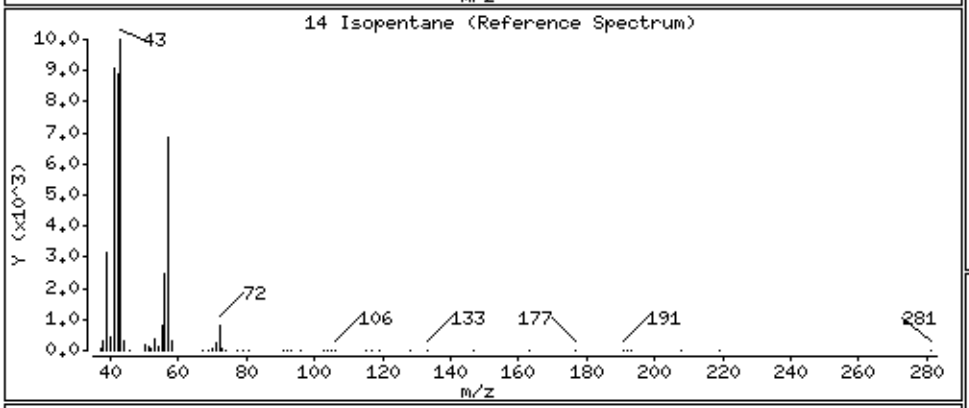
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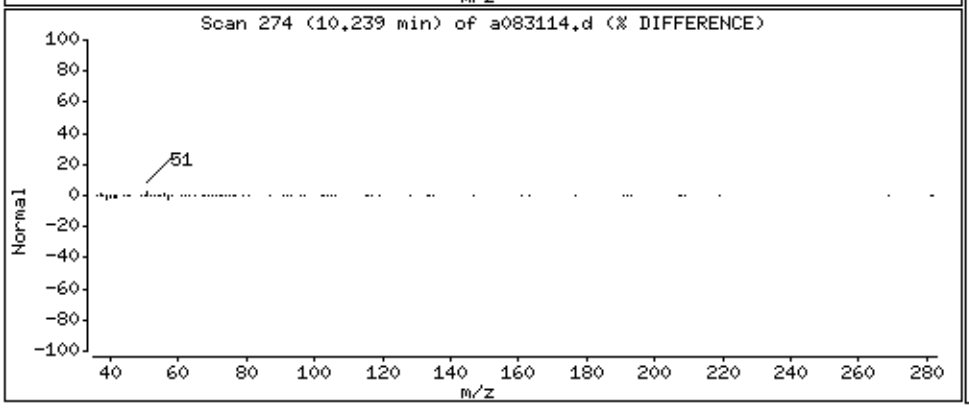
14 Isopentane

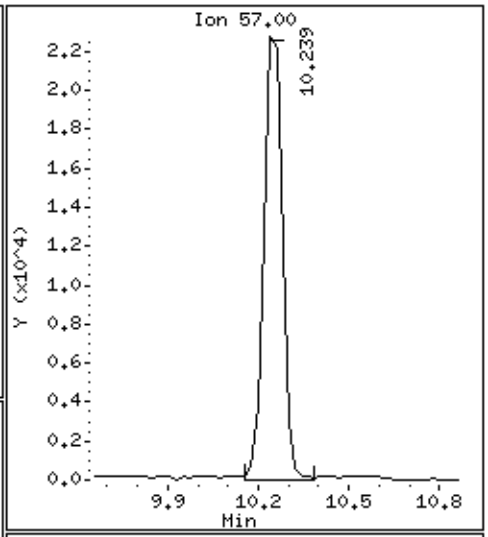
Concentration: 20.843 PPBV

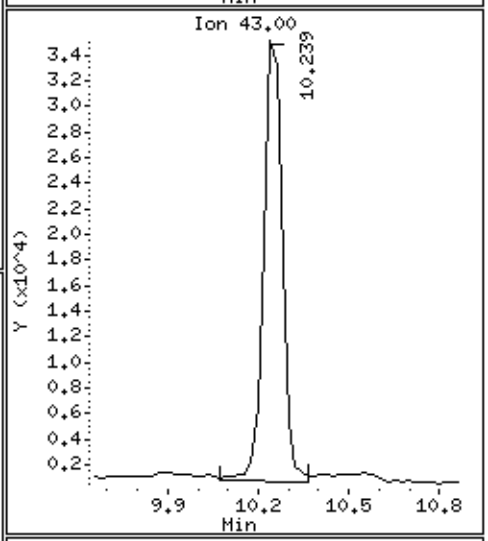


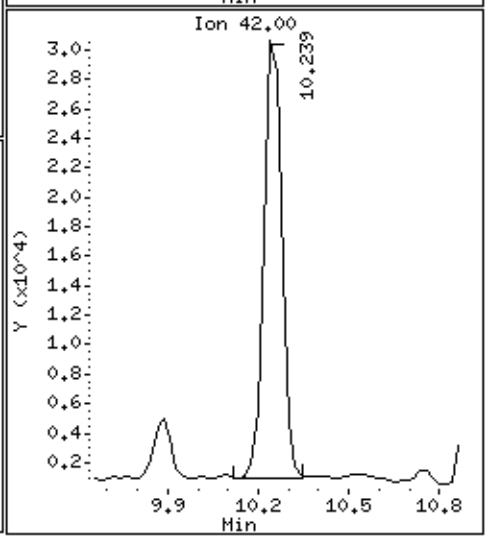



Data File: /chem/msda.i/31Aug2011.b/a083114.d

Date : 31-AUG-2011 18:05

Client ID:

Instrument: msda.i

Sample Info: 50mL #34467

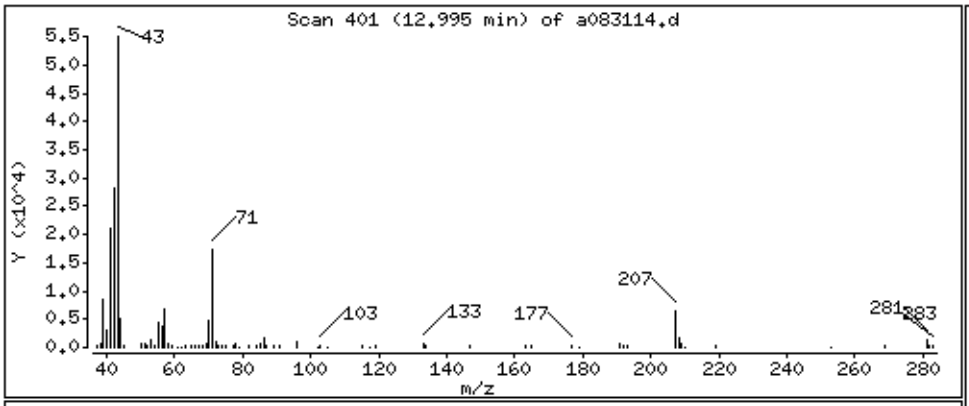
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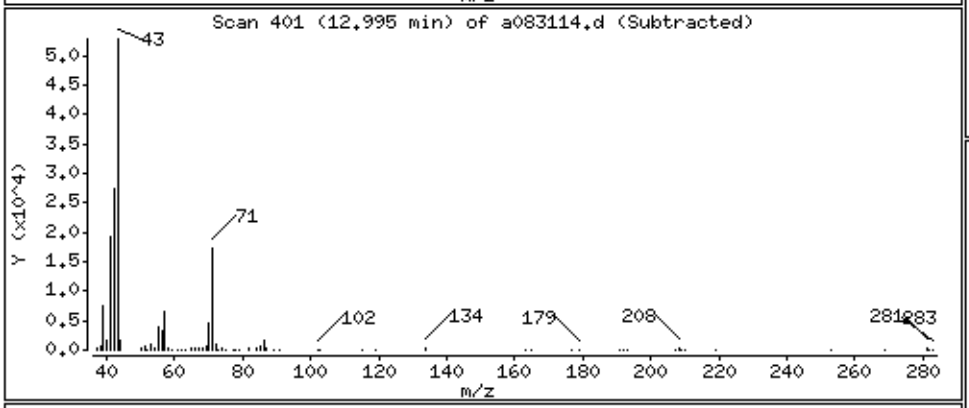
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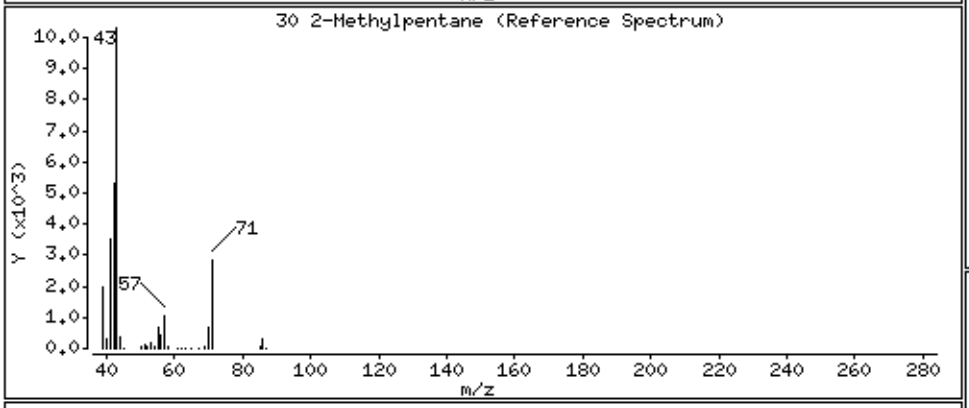
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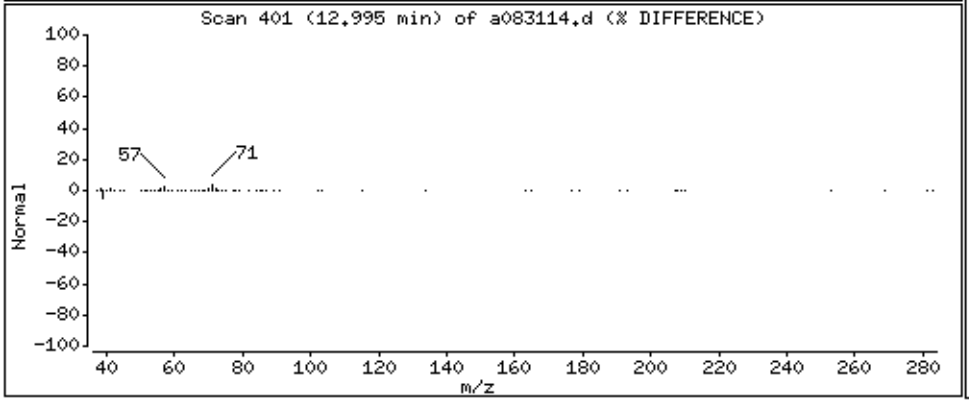
30 2-Methylpentane

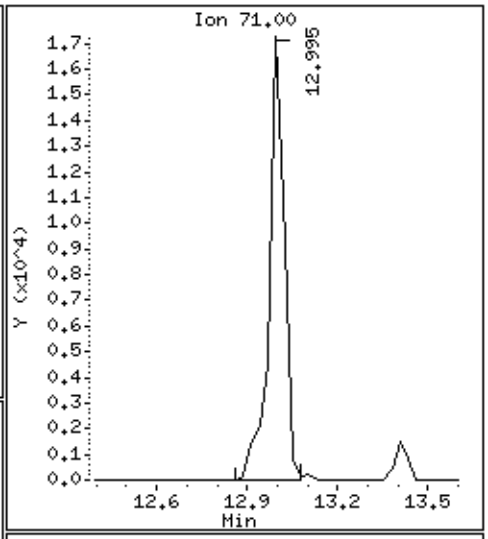
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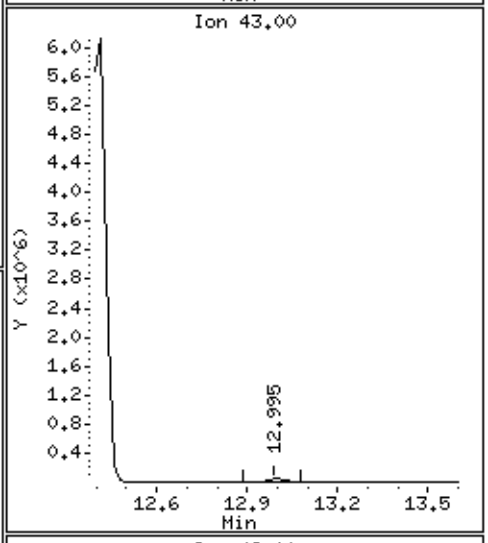


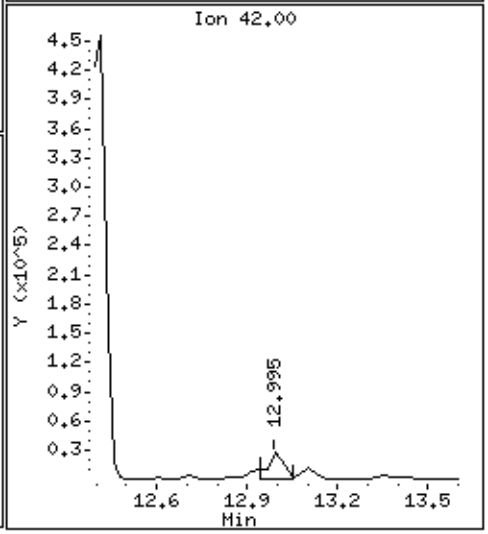



Data File: /chem/msda.i/31Aug2011.b/a083114.d

Date : 31-AUG-2011 18:05

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Instrument: msda.i

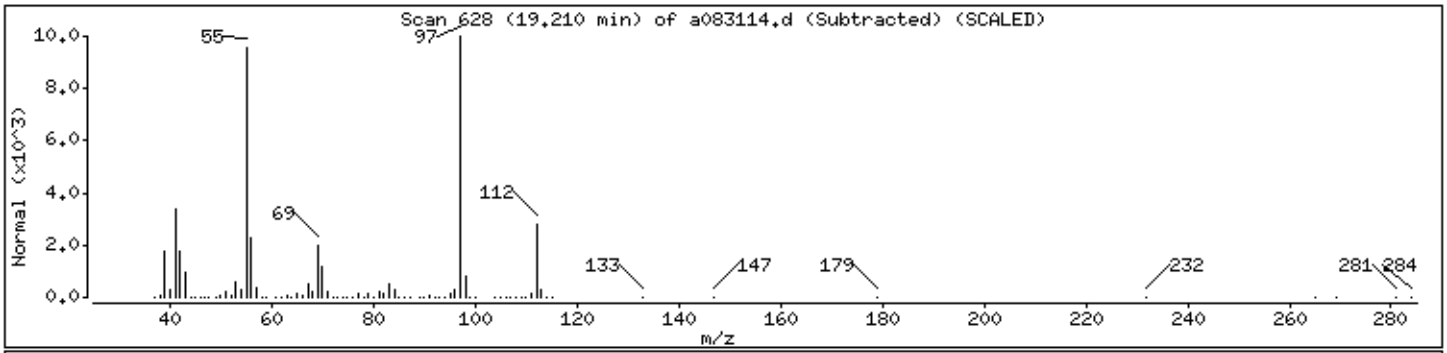
Sample Info: 50mL #34467

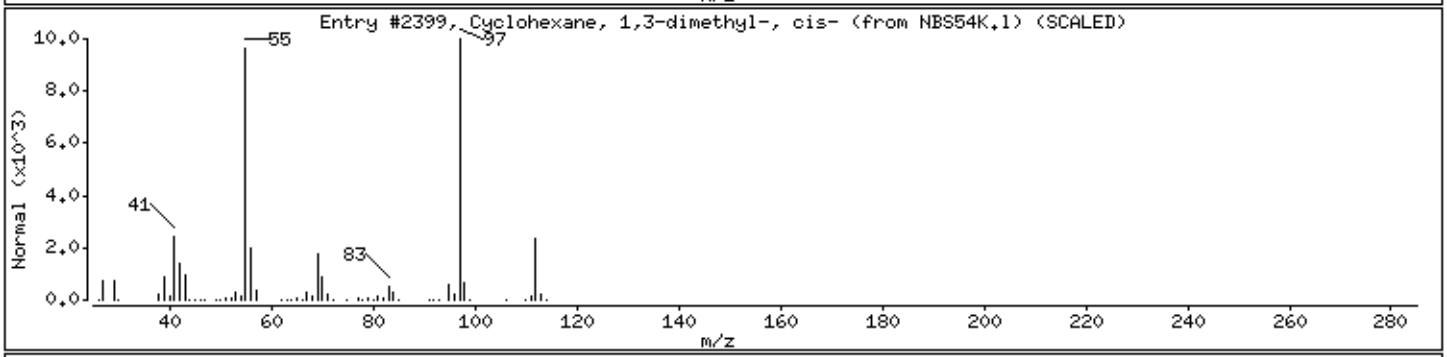
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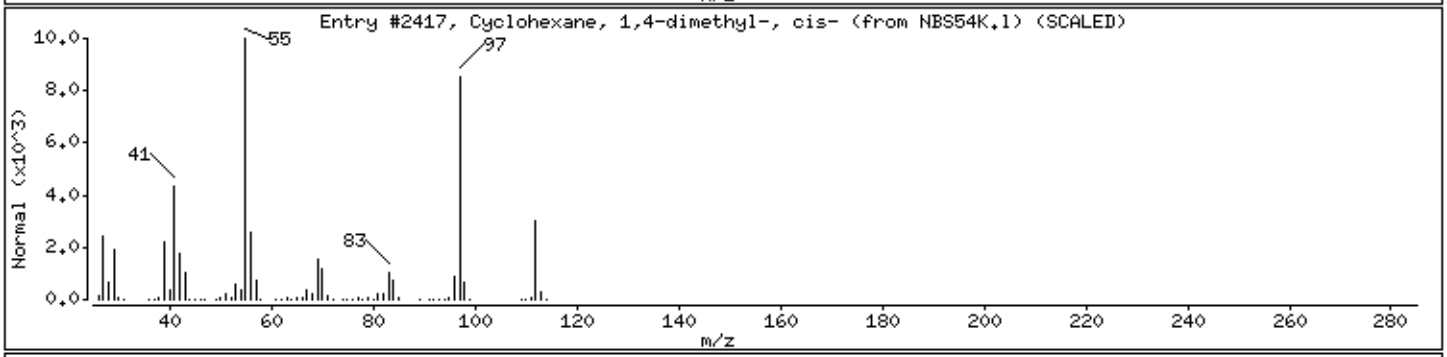
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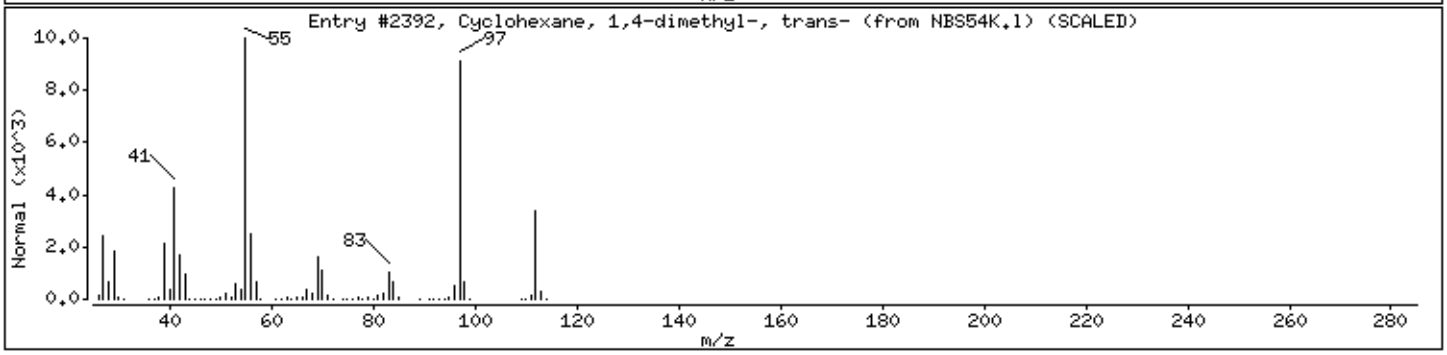
Column diameter: 0.32

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|---|---|---|---|---|---|---|
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| Cyclohexane, 1,4-dimethyl-, cis- | 624-29-3 | NBS54K.l | 2417 | 91 | C8H16 | 112 |
| Cyclohexane, 1,4-dimethyl-, trans- | 2207-04-7 | NBS54K.l | 2392 | 91 | C8H16 | 112 |



Data File: /chem/msda.i/31Aug2011.b/a083114.d

Date : 31-AUG-2011 18:05

Client ID:

Instrument: msda.i

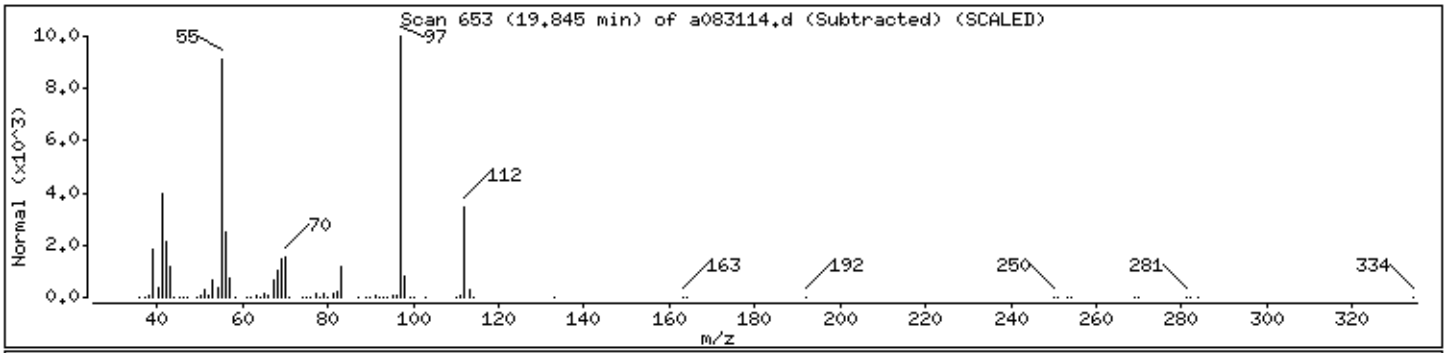
Sample Info: 50mL #34467

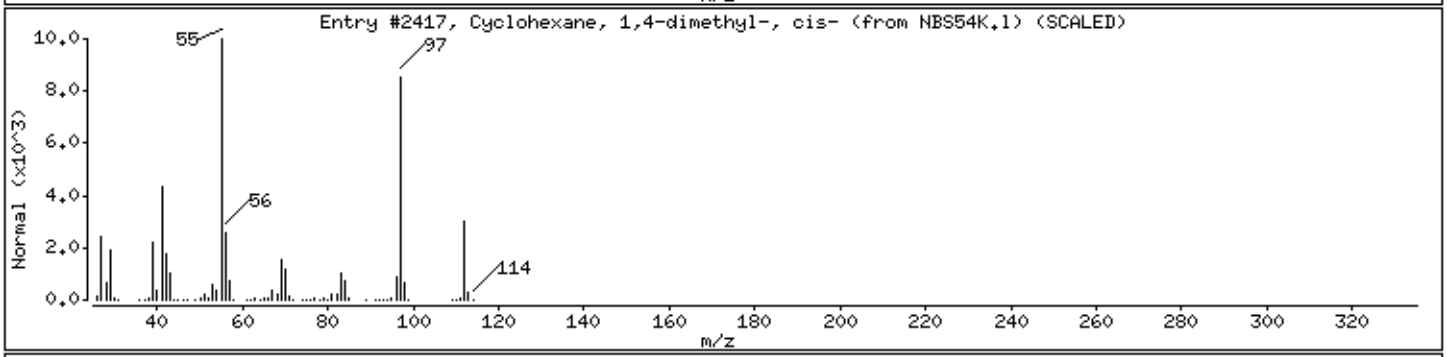
Operator: jc

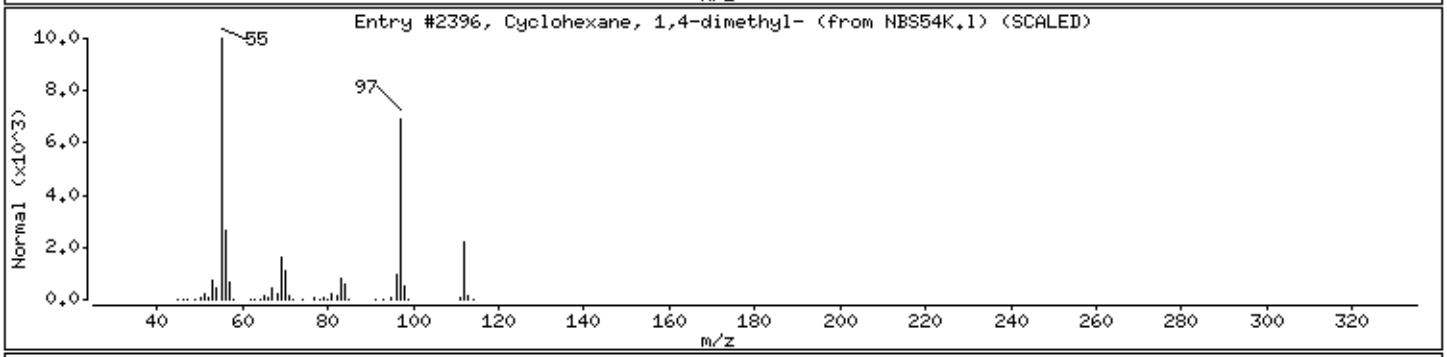
Column phase: RTx-624

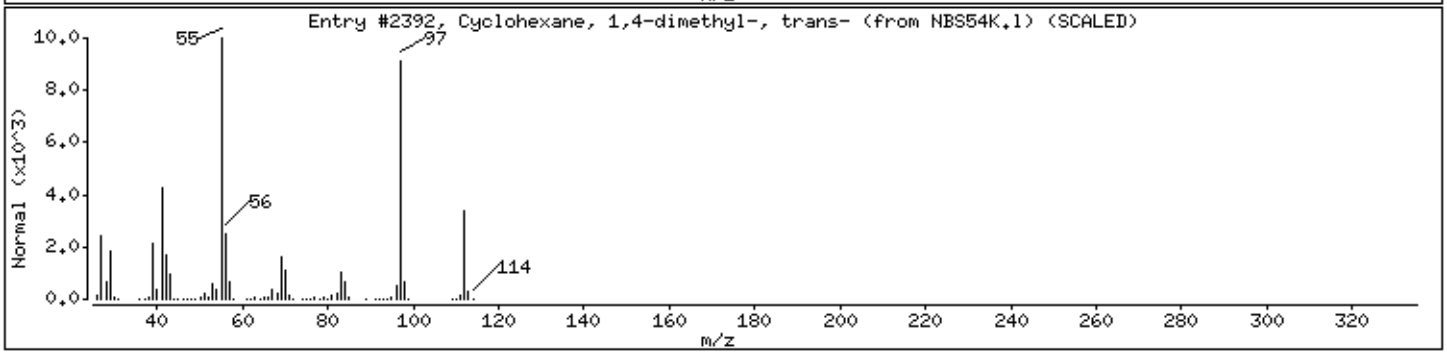
Column diameter: 0.32

| Library Search Compound Match | CAS Number | Library | Entry | Quality | Formula | Weight |
|---|---|---|---|---|---|---|
| Cyclohexane, 1,4-dimethyl-, cis- | 624-29-3 | NBS54K.l | 2417 | 94 | C8H16 | 112 |
| Cyclohexane, 1,4-dimethyl- | 589-90-2 | NBS54K.l | 2396 | 91 | C8H16 | 112 |
| Cyclohexane, 1,4-dimethyl-, trans- | 2207-04-7 | NBS54K.l | 2392 | 91 | C8H16 | 112 |



Data File: /chem/msda.i/31Aug2011.b/a083114.d

Date : 31-AUG-2011 18:05

Client ID:

Instrument: msda.i

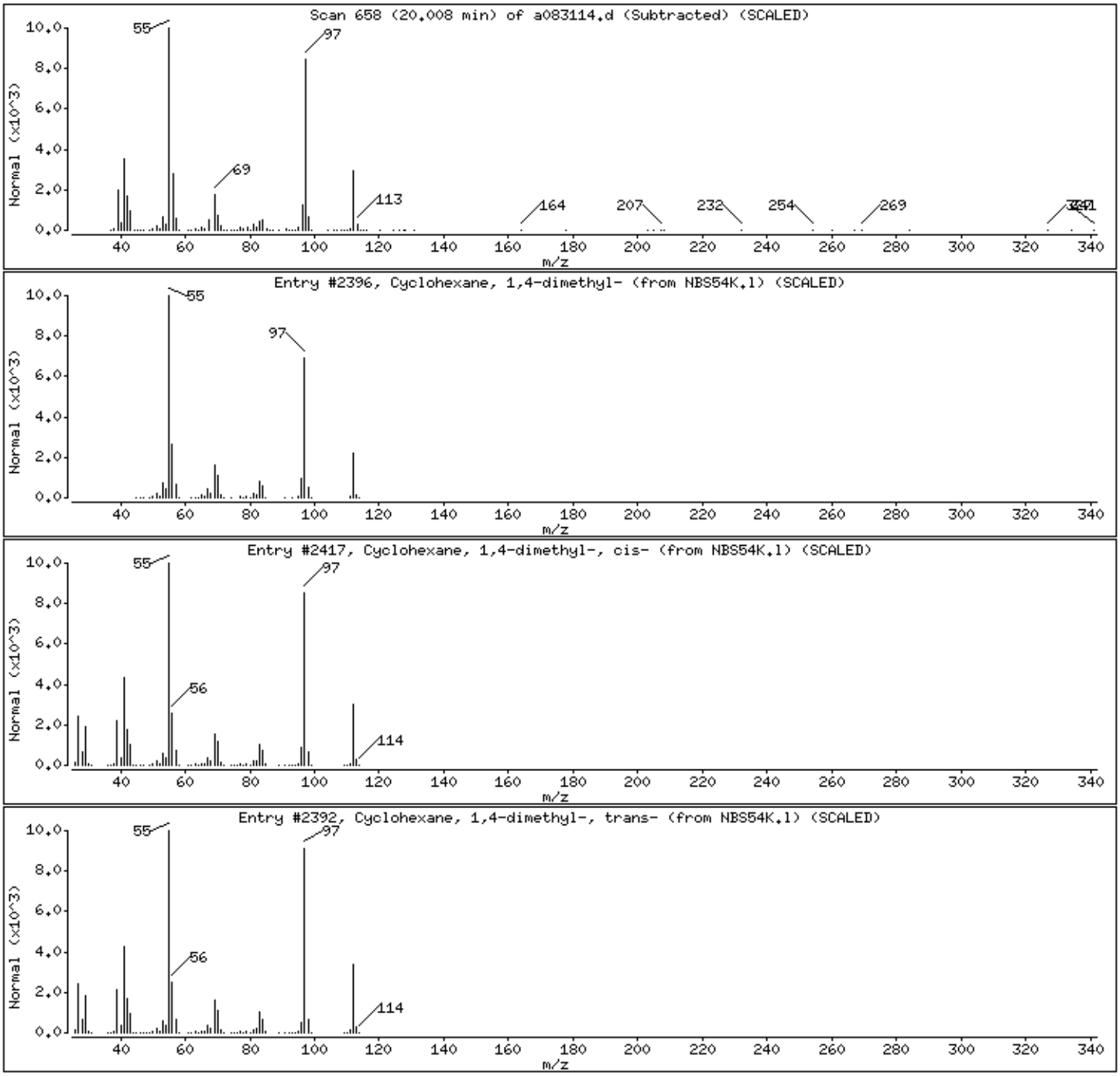
Sample Info: 50mL #34467

Operator: jc

Column phase: RTx-624

Column diameter: 0.32

| Library Search Compound Match | CAS Number | Library | Entry | Quality | Formula | Weight |
|---|---|---|---|---|---|---|
| Cyclohexane, 1,4-dimethyl- | 589-90-2 | NBS54K.l | 2396 | 91 | C8H16 | 112 |
| Cyclohexane, 1,4-dimethyl-, cis- | 624-29-3 | NBS54K.l | 2417 | 91 | C8H16 | 112 |
| Cyclohexane, 1,4-dimethyl-, trans- | 2207-04-7 | NBS54K.l | 2392 | 91 | C8H16 | 112 |



Data File: /chem/msda.i/31Aug2011.b/a083114.d

Date : 31-AUG-2011 18:05

Client ID:

Instrument: msda.i

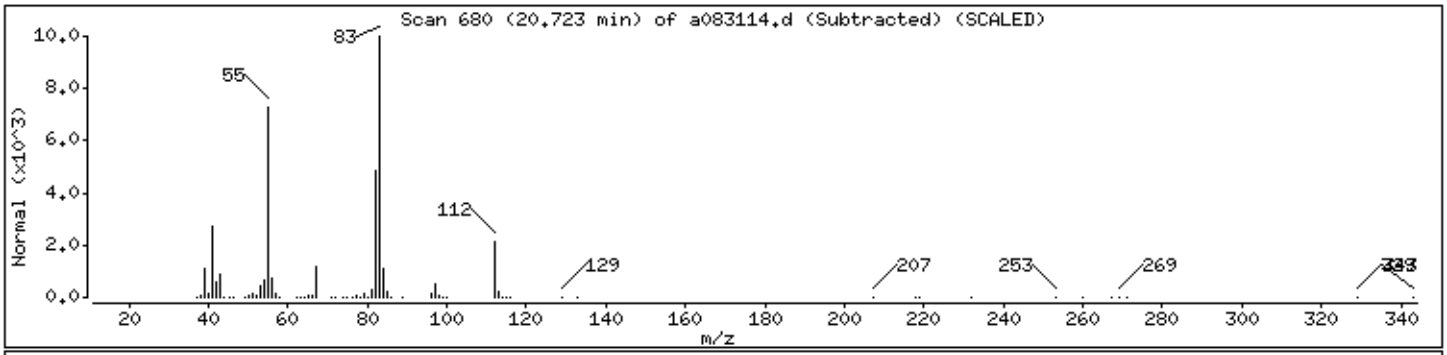
Sample Info: 50mL #34467

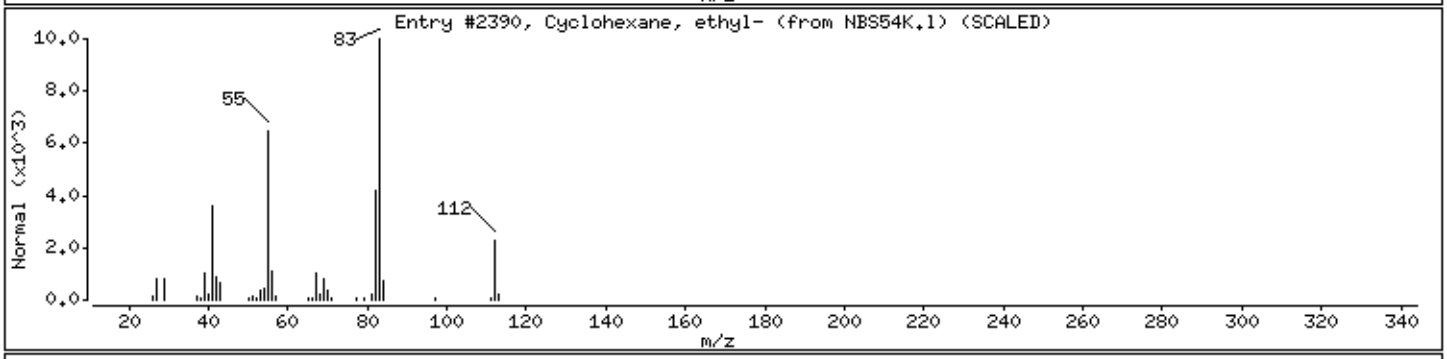
Operator: jc

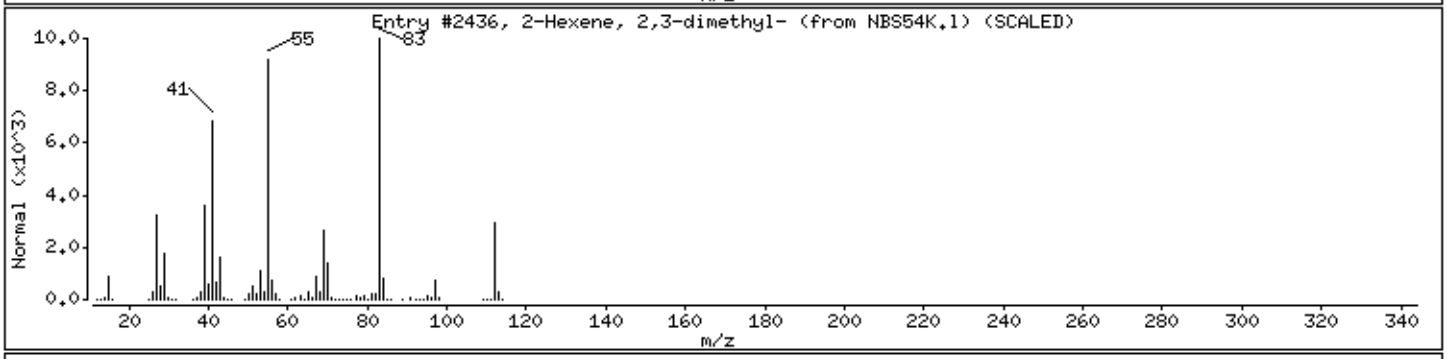
Column phase: RTx-624

Column diameter: 0.32

| Library Search Compound Match | CAS Number | Library | Entry | Quality | Formula | Weight |
|---|---|---|---|---|---|---|
| Cyclohexane, ethyl- | 1678-91-7 | NBS54K.l | 2390 | 91 | C8H16 | 112 |
| 2-Hexene, 2,3-dimethyl- | 7145-20-2 | NBS54K.l | 2436 | 64 | C8H16 | 112 |



Data File: /chem/msda.i/31Aug2011.b/a083114.d

Date : 31-AUG-2011 18:05

Client ID:

Instrument: msda.i

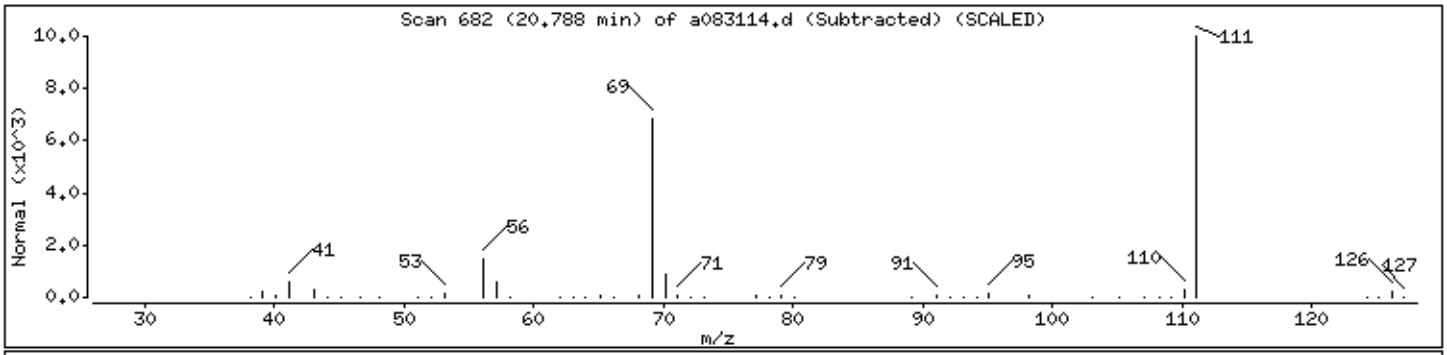
Sample Info: 50mL #34467

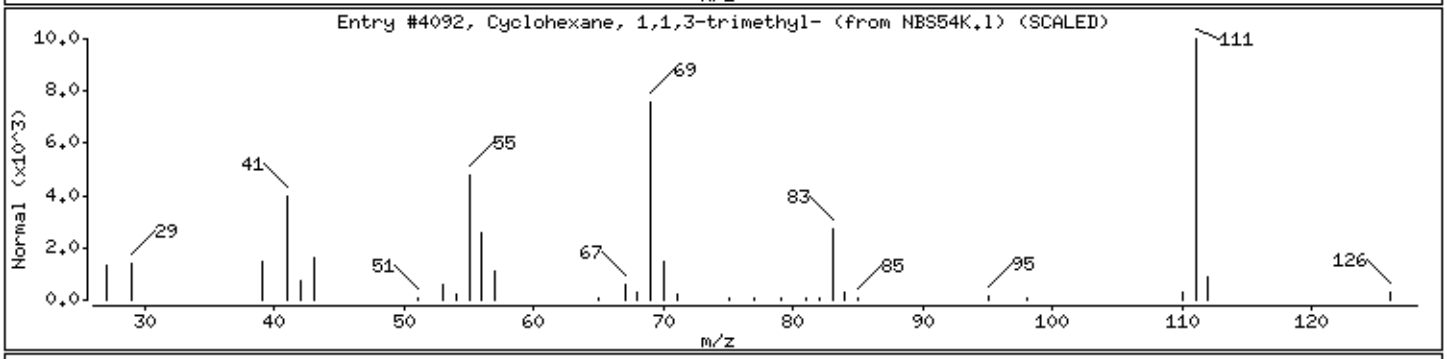
Operator: jc

Column phase: RTx-624

Column diameter: 0.32

| Library Search Compound Match | CAS Number | Library | Entry | Quality | Formula | Weight |
|---|---|---|---|---|---|---|
| Cyclohexane, 1,1,3-trimethyl- | 3073-66-3 | NBS54K.l | 4092 | 50 | C9H18 | 126 |



Data File: /chem/msda.i/31Aug2011.b/a083114.d

Date : 31-AUG-2011 18:05

Client ID:

Instrument: msda.i

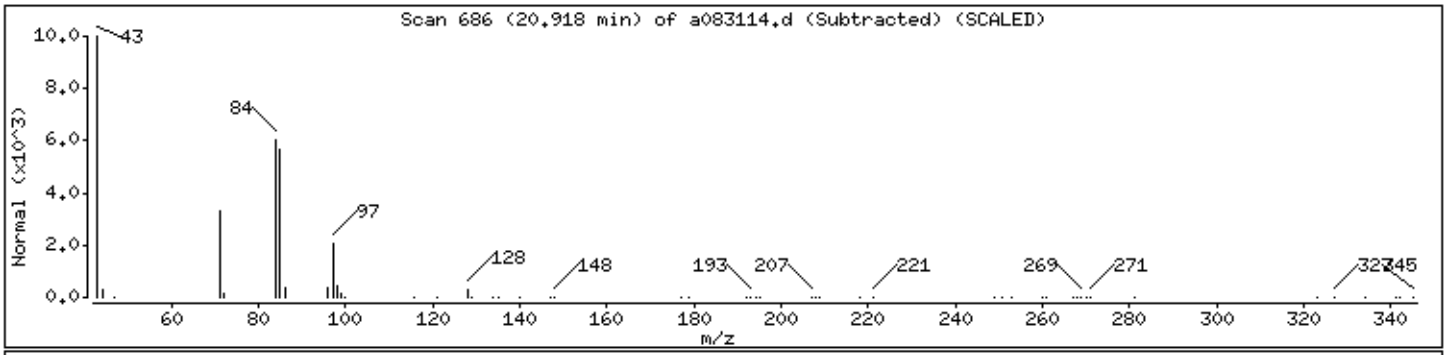
Sample Info: 50mL #34467

Operator: jc

Column phase: RTx-624

Column diameter: 0.32

| Library Search Compound Match | CAS Number | Library | Entry | Quality | Formula | Weight |
|---|---|---|---|---|---|---|
| Unknown | | | 0 | 0 | | 0 |



Data File: /chem/msda.i/31Aug2011.b/a083114.d

Date : 31-AUG-2011 18:05

Client ID:

Instrument: msda.i

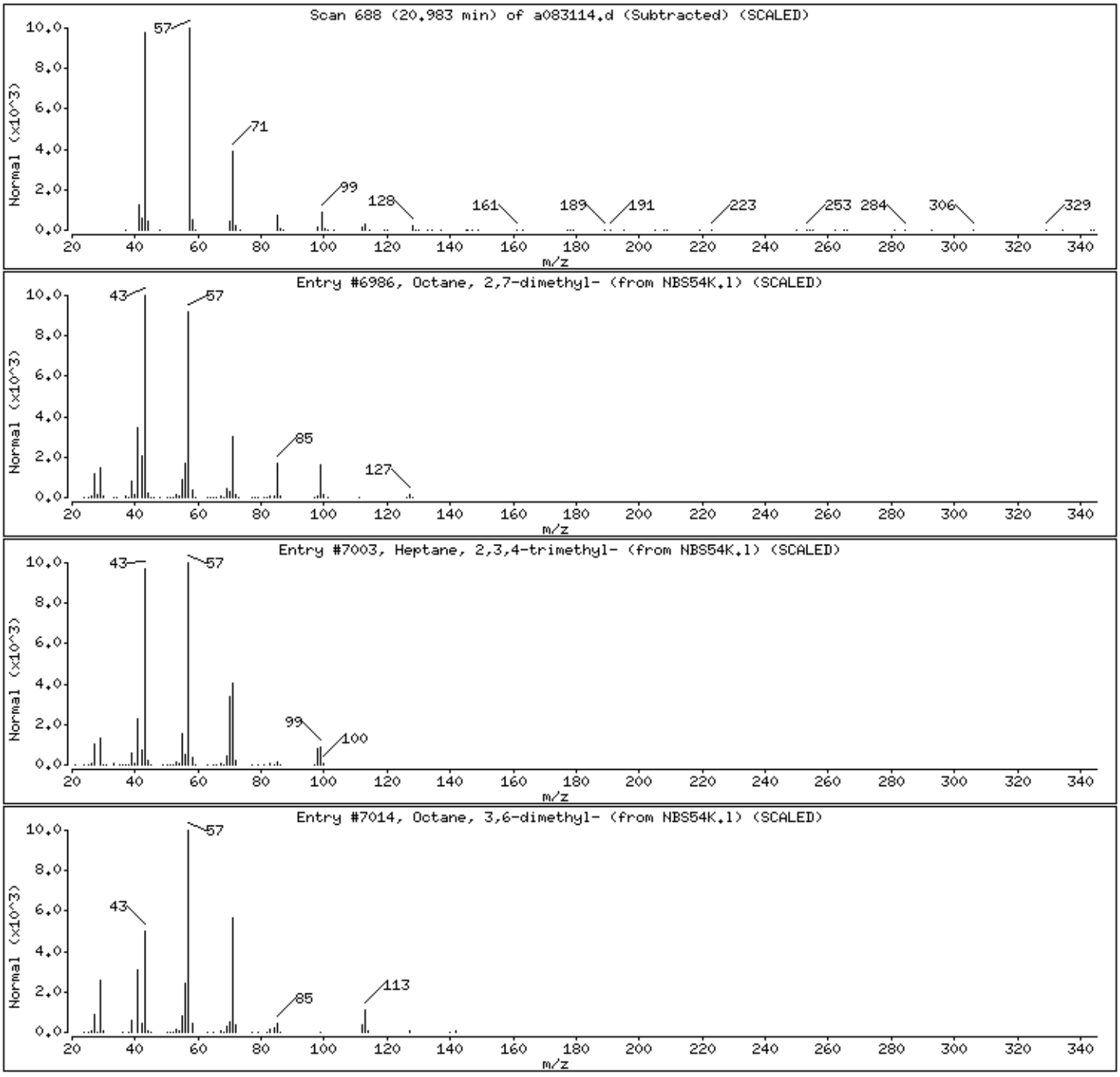
Sample Info: 50mL #34467

Operator: jc

Column phase: RTx-624

Column diameter: 0.32

| Library Search Compound Match | CAS Number | Library | Entry | Quality | Formula | Weight |
|---|---|---|---|---|---|---|
| Octane, 2,7-dimethyl- | 1072-16-8 | NBS54K.l | 6986 | 64 | C10H22 | 142 |
| Heptane, 2,3,4-trimethyl- | 52896-95-4 | NBS54K.l | 7003 | 56 | C10H22 | 142 |
| Octane, 3,6-dimethyl- | 15869-94-0 | NBS54K.l | 7014 | 50 | C10H22 | 142 |



Data File: /chem/msda.i/31Aug2011.b/a083114.d

Date : 31-AUG-2011 18:05

Client ID:

Instrument: msda.i

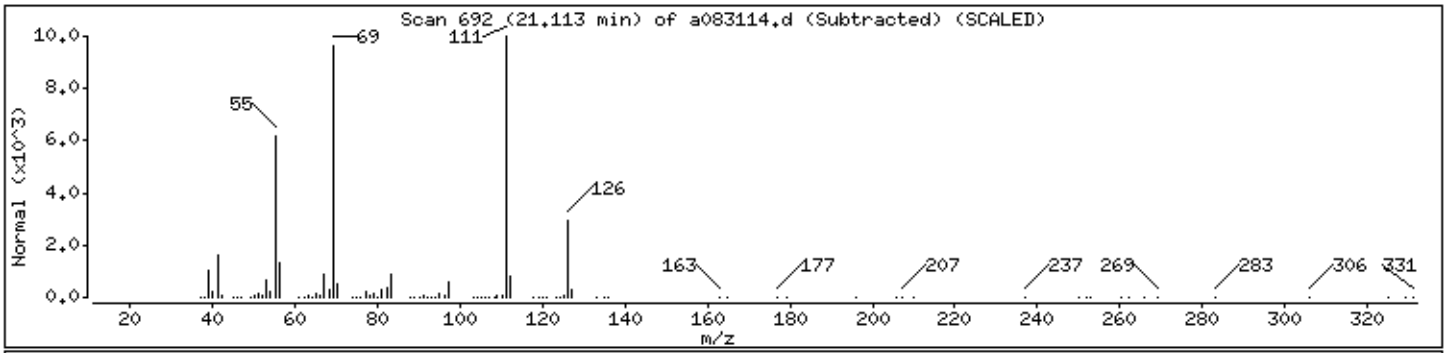
Sample Info: 50mL #34467

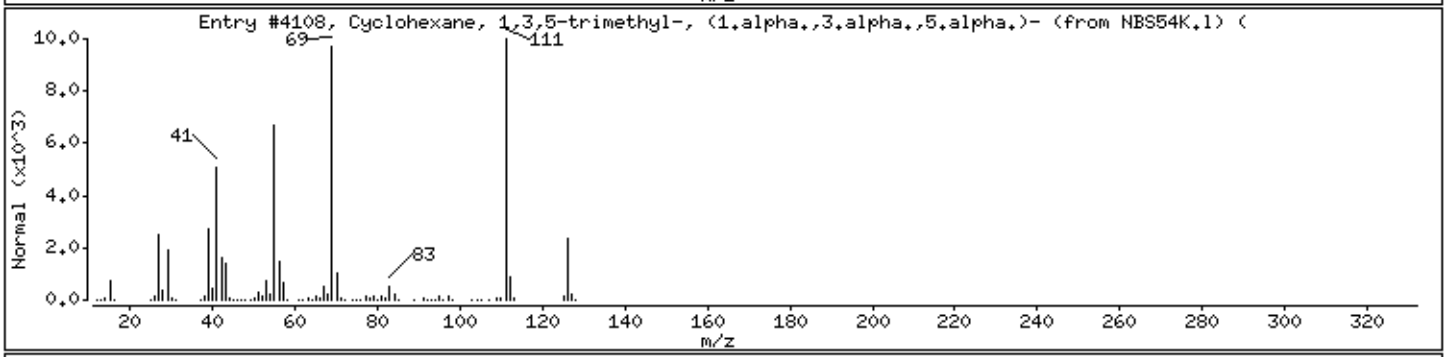
Operator: jc

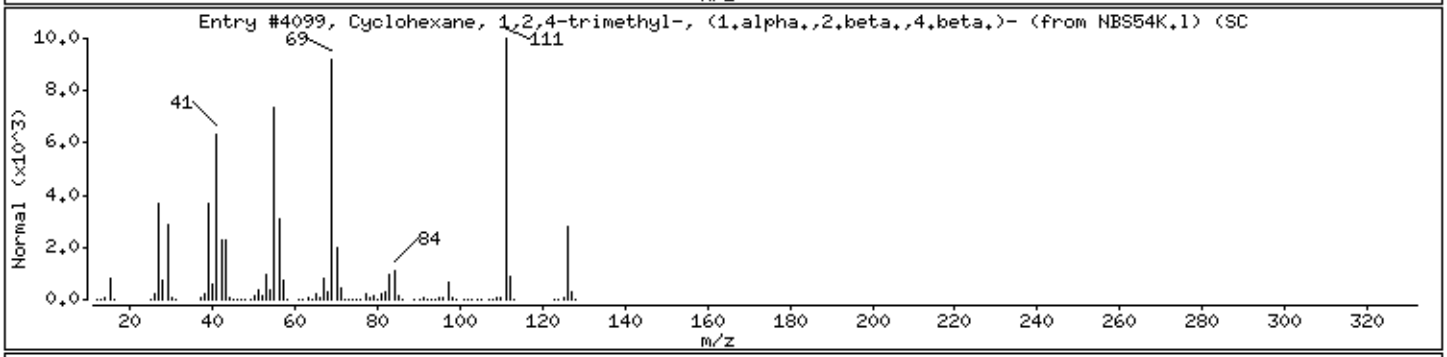
Column phase: RTx-624

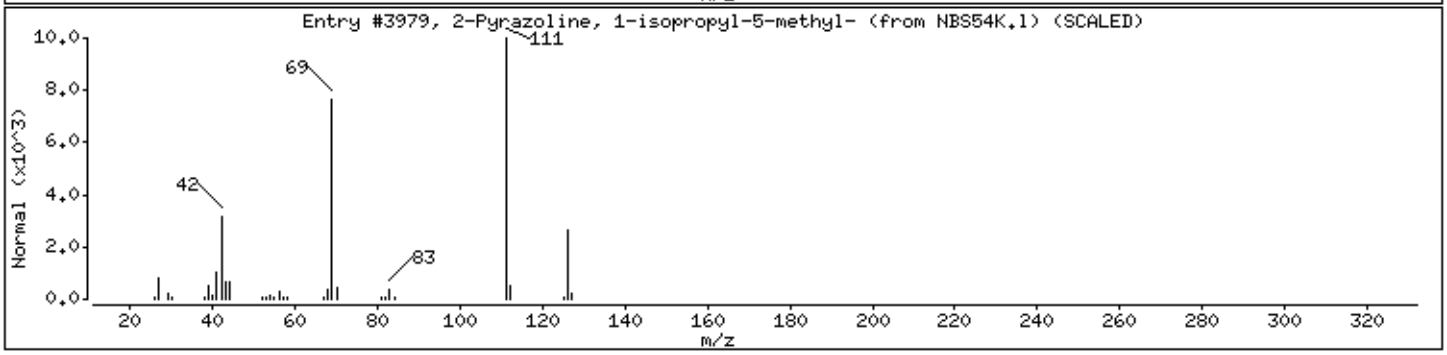
Column diameter: 0.32

| Library Search Compound Match | CAS Number | Library | Entry | Quality | Formula | Weight |
|---|---|---|---|---|---|---|
| Cyclohexane, 1,3,5-trimethyl-, (1.alpha. | 1795-27-3 | NBS54K.l | 4108 | 91 | C9H18 | 126 |
| Cyclohexane, 1,2,4-trimethyl-, (1.alpha. | 7667-60-9 | NBS54K.l | 4099 | 91 | C9H18 | 126 |
| 2-Pyrazoline, 1-isopropyl-5-methyl- | 26964-54-5 | NBS54K.l | 3979 | 80 | C7H14N2 | 126 |



Data File: /chem/msda.i/31Aug2011.b/a083114.d

Date : 31-AUG-2011 18:05

Client ID:

Instrument: msda.i

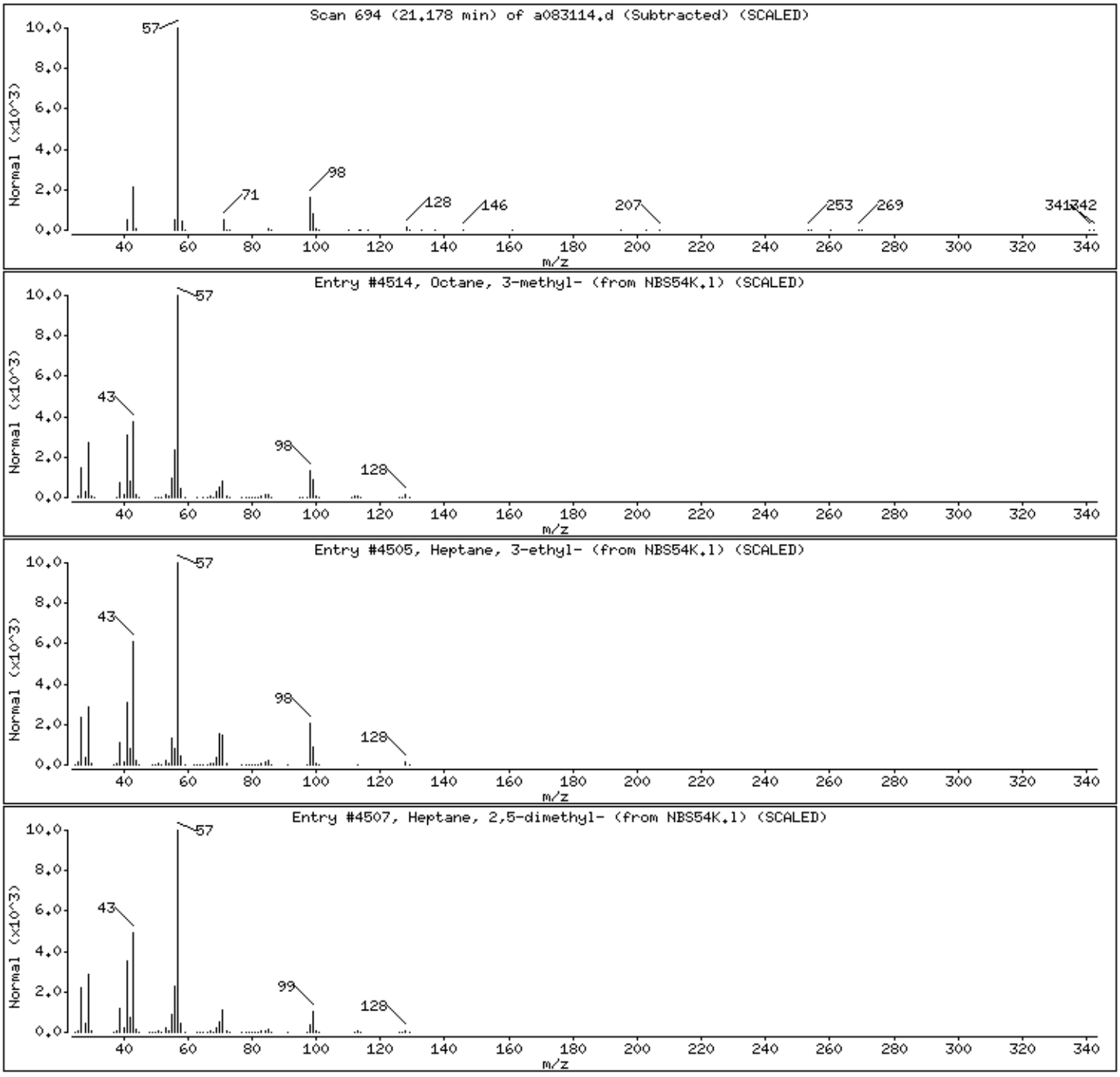
Sample Info: 50mL #34467

Operator: jc

Column phase: RTx-624

Column diameter: 0.32

| Library Search Compound Match | CAS Number | Library | Entry | Quality | Formula | Weight |
|---|---|---|---|---|---|---|
| Octane, 3-methyl- | 2216-33-3 | NBS54K.l | 4514 | 50 | C9H20 | 128 |
| Heptane, 3-ethyl- | 15869-80-4 | NBS54K.l | 4505 | 28 | C9H20 | 128 |
| Heptane, 2,5-dimethyl- | 2216-30-0 | NBS54K.l | 4507 | 9 | C9H20 | 128 |



Data File: /chem/msda.i/31Aug2011.b/a083114.d

Date : 31-AUG-2011 18:05

Client ID:

Instrument: msda.i

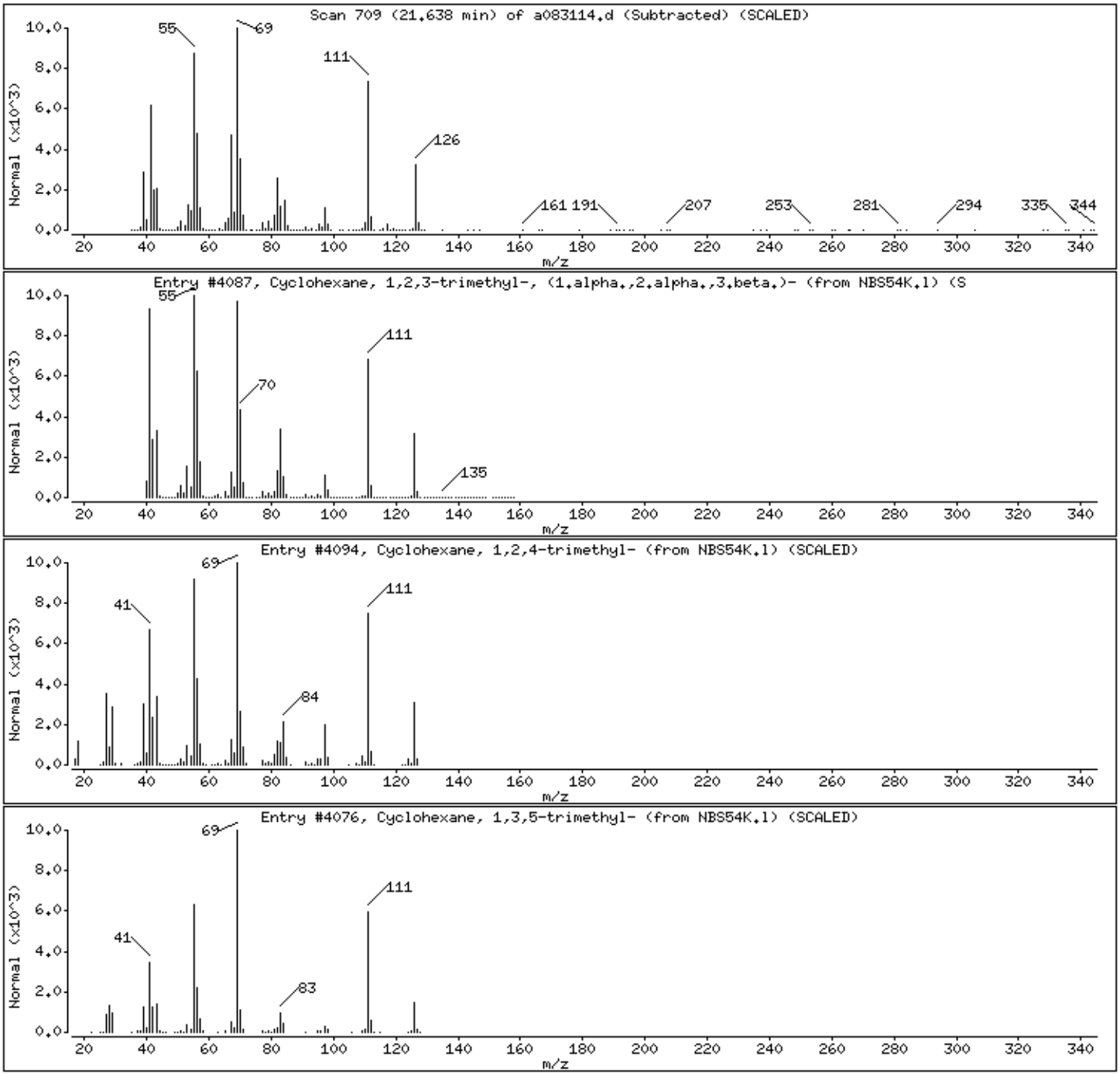
Sample Info: 50mL #34467

Operator: jc

Column phase: RTx-624

Column diameter: 0.32

| Library Search Compound Match | CAS Number | Library | Entry | Quality | Formula | Weight |
|---|---|---|---|---|---|---|
| Cyclohexane, 1,2,3-trimethyl-, (1.alpha. | 7667-55-2 | NBS54K.l | 4087 | 91 | C9H18 | 126 |
| Cyclohexane, 1,2,4-trimethyl- | 2234-75-5 | NBS54K.l | 4094 | 72 | C9H18 | 126 |
| Cyclohexane, 1,3,5-trimethyl- | 1839-63-0 | NBS54K.l | 4076 | 62 | C9H18 | 126 |



Air Toxics LTD.
Laboratory Services Since 1989

# Summary of Detected Compounds
# MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

**Client Sample ID: SG-9**

**Lab ID#: 1108582-05A**

| Compound | Rpt. Limit (ppbv) | Amount (ppbv) | Rpt. Limit (ug/m3) | Amount (ug/m3) |
|---|---|---|---|---|
| Vinyl Chloride | 3.3 | 5.6 | 8.4 | 14 |
| 1,3-Butadiene | 3.3 | 18 | 7.2 | 40 |
| Ethanol | 16 | 220 J | 31 | 410 J |
| Acetone | 16 | 1500 E | 39 | 3600 E |
| Carbon Disulfide | 16 | 26 | 51 | 79 |
| Hexane | 3.3 | 480 | 12 | 1700 |
| 2-Butanone (Methyl Ethyl Ketone) | 16 | 23 | 48 | 69 |
| Cyclohexane | 3.3 | 270 | 11 | 920 |
| Benzene | 3.3 | 690 | 10 | 2200 |
| Heptane | 3.3 | 150 | 13 | 610 |
| Toluene | 3.3 | 37 | 12 | 140 |
| Tetrachloroethene | 3.3 | 3.4 | 22 | 23 |
| Ethyl Benzene | 3.3 | 17 | 14 | 73 |
| m,p-Xylene | 3.3 | 18 | 14 | 80 |
| o-Xylene | 3.3 | 24 | 14 | 100 |
| Cumene | 3.3 | 68 | 16 | 340 |
| Propylbenzene | 3.3 | 31 | 16 | 150 |
| 4-Ethyltoluene | 3.3 | 36 | 16 | 180 |
| 1,3,5-Trimethylbenzene | 3.3 | 27 | 16 | 130 |
| 1,2,4-Trimethylbenzene | 3.3 | 120 | 16 | 610 |
| 2,3-Dimethylpentane | 16 | 140 E | 67 | 590 E |
| 2-Methylpentane | 16 | 940 E | 58 | 3300 E |
| Indan | 16 | 220 E | 79 | 1100 E |
| Isopentane | 16 | 1400 E | 48 | 4300 E |

**TENTATIVELY IDENTIFIED COMPOUNDS**

| Compound | CAS Number | Match Quality | Amount (ppbv) |
|---|---|---|---|
| Unknown | NA | NA | 5700 J |
| Propane, 2-methyl- | 75-28-5 | 59% | 1400 NJ |
| Butane | 106-97-8 | 80% | 8700 NJ |
| Pentane | 109-66-0 | 90% | 2500 NJ |
| Pentane, 3-methyl- | 96-14-0 | 90% | 1100 NJ |

Air Toxics LTD.
Laboratory Services Since 1989

# Summary of Detected Compounds
# MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

**Client Sample ID: SG-9**

**Lab ID#: 1108582-05A**

**TENTATIVELY IDENTIFIED COMPOUNDS**

| Compound | CAS Number | Match Quality | Amount (ppbv) |
|---|---|---|---|
| Cyclopentane, methyl- | 96-37-7 | 87% | 670 NJ |
| Cyclohexane, methyl- | 108-87-2 | 94% | 1200 NJ |
| Heptane, 3-ethyl- | 15869-80-4 | 47% | 620 NJ |
| Decane, 4-methyl- | 2847-72-5 | 81% | 770 NJ |
| Cyclohexane, (2-methylpropyl)- | 1678-98-4 | 59% | 660 NJ |

Air Toxics LTD.
Laboratory Services Since 1989

**Client Sample ID: SG-9**

**Lab ID#: 1108582-05A**

**MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN**

| | | | |
|---|---|---|---|
| **File Name:** | **a090110** | **Date of Collection:** | **8/24/11 9:55:00 AM** |
| **Dil. Factor:** | **32.8** | **Date of Analysis:** | **9/1/11 03:39 PM** |

| Compound | Rpt. Limit (ppbv) | Amount (ppbv) | Rpt. Limit (ug/m3) | Amount (ug/m3) |
|---|---|---|---|---|
| Freon 12 | 3.3 | Not Detected | 16 | Not Detected |
| Freon 114 | 3.3 | Not Detected | 23 | Not Detected |
| Chloromethane | 3.3 | Not Detected | 6.8 | Not Detected |
| Vinyl Chloride | 3.3 | 5.6 | 8.4 | 14 |
| 1,3-Butadiene | 3.3 | 18 | 7.2 | 40 |
| Bromomethane | 3.3 | Not Detected | 13 | Not Detected |
| Chloroethane | 16 | Not Detected | 43 | Not Detected |
| Freon 11 | 3.3 | Not Detected | 18 | Not Detected |
| Ethanol | 16 | 220 J | 31 | 410 J |
| Freon 113 | 3.3 | Not Detected | 25 | Not Detected |
| 1,1-Dichloroethene | 3.3 | Not Detected | 13 | Not Detected |
| Acetone | 16 | 1500 E | 39 | 3600 E |
| 2-Propanol | 16 | Not Detected | 40 | Not Detected |
| Carbon Disulfide | 16 | 26 | 51 | 79 |
| 3-Chloropropene | 16 | Not Detected | 51 | Not Detected |
| Methylene Chloride | 6.6 | Not Detected | 23 | Not Detected |
| Methyl tert-butyl ether | 3.3 | Not Detected | 12 | Not Detected |
| trans-1,2-Dichloroethene | 3.3 | Not Detected | 13 | Not Detected |
| Hexane | 3.3 | 480 | 12 | 1700 |
| 1,1-Dichloroethane | 3.3 | Not Detected | 13 | Not Detected |
| 2-Butanone (Methyl Ethyl Ketone) | 16 | 23 | 48 | 69 |
| cis-1,2-Dichloroethene | 3.3 | Not Detected | 13 | Not Detected |
| Tetrahydrofuran | 16 | Not Detected | 48 | Not Detected |
| Chloroform | 3.3 | Not Detected | 16 | Not Detected |
| 1,1,1-Trichloroethane | 3.3 | Not Detected | 18 | Not Detected |
| Cyclohexane | 3.3 | 270 | 11 | 920 |
| Carbon Tetrachloride | 3.3 | Not Detected | 21 | Not Detected |
| 2,2,4-Trimethylpentane | 16 | Not Detected | 77 | Not Detected |
| Benzene | 3.3 | 690 | 10 | 2200 |
| 1,2-Dichloroethane | 3.3 | Not Detected | 13 | Not Detected |
| Heptane | 3.3 | 150 | 13 | 610 |
| Trichloroethene | 3.3 | Not Detected | 18 | Not Detected |
| 1,2-Dichloropropane | 3.3 | Not Detected | 15 | Not Detected |
| 1,4-Dioxane | 3.3 | Not Detected | 12 | Not Detected |
| Bromodichloromethane | 3.3 | Not Detected | 22 | Not Detected |
| cis-1,3-Dichloropropene | 3.3 | Not Detected | 15 | Not Detected |
| 4-Methyl-2-pentanone | 3.3 | Not Detected | 13 | Not Detected |
| Toluene | 3.3 | 37 | 12 | 140 |
| trans-1,3-Dichloropropene | 3.3 | Not Detected | 15 | Not Detected |
| 1,1,2-Trichloroethane | 3.3 | Not Detected | 18 | Not Detected |
| Tetrachloroethene | 3.3 | 3.4 | 22 | 23 |

Air Toxics LTD.
Laboratory Services Since 1989

**Client Sample ID: SG-9**

**Lab ID#: 1108582-05A**

**MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN**

| | | | |
|---|---|---|---|
| **File Name:** | **a090110** | **Date of Collection:** | **8/24/11 9:55:00 AM** |
| **Dil. Factor:** | **32.8** | **Date of Analysis:** | **9/1/11 03:39 PM** |

| Compound | Rpt. Limit (ppbv) | Amount (ppbv) | Rpt. Limit (ug/m3) | Amount (ug/m3) |
|---|---|---|---|---|
| 2-Hexanone | 16 | Not Detected | 67 | Not Detected |
| Dibromochloromethane | 3.3 | Not Detected | 28 | Not Detected |
| 1,2-Dibromoethane (EDB) | 3.3 | Not Detected | 25 | Not Detected |
| Chlorobenzene | 3.3 | Not Detected | 15 | Not Detected |
| Ethyl Benzene | 3.3 | 17 | 14 | 73 |
| m,p-Xylene | 3.3 | 18 | 14 | 80 |
| o-Xylene | 3.3 | 24 | 14 | 100 |
| Styrene | 3.3 | Not Detected | 14 | Not Detected |
| Bromoform | 3.3 | Not Detected | 34 | Not Detected |
| Cumene | 3.3 | 68 | 16 | 340 |
| 1,1,2,2-Tetrachloroethane | 3.3 | Not Detected | 22 | Not Detected |
| Propylbenzene | 3.3 | 31 | 16 | 150 |
| 4-Ethyltoluene | 3.3 | 36 | 16 | 180 |
| 1,3,5-Trimethylbenzene | 3.3 | 27 | 16 | 130 |
| 1,2,4-Trimethylbenzene | 3.3 | 120 | 16 | 610 |
| 1,3-Dichlorobenzene | 3.3 | Not Detected | 20 | Not Detected |
| 1,4-Dichlorobenzene | 3.3 | Not Detected | 20 | Not Detected |
| alpha-Chlorotoluene | 3.3 | Not Detected | 17 | Not Detected |
| 1,2-Dichlorobenzene | 3.3 | Not Detected | 20 | Not Detected |
| 1,2,4-Trichlorobenzene | 16 | Not Detected | 120 | Not Detected |
| Hexachlorobutadiene | 16 | Not Detected | 170 | Not Detected |
| 2,3-Dimethylpentane | 16 | 140 E | 67 | 590 E |
| 2-Methylpentane | 16 | 940 E | 58 | 3300 E |
| Indene | 16 | Not Detected | 78 | Not Detected |
| Indan | 16 | 220 E | 79 | 1100 E |
| Isopentane | 16 | 1400 E | 48 | 4300 E |
| Naphthalene | 16 | Not Detected | 86 | Not Detected |
| Thiophene | 16 | Not Detected | 56 | Not Detected |

J = Estimated value due to bias in the CCV.
E = Exceeds instrument calibration range.

**TENTATIVELY IDENTIFIED COMPOUNDS**

| Compound | CAS Number | Match Quality | Amount ((ppbv)) |
|---|---|---|---|
| Unknown | NA | NA | 5700 J |
| Propane, 2-methyl- | 75-28-5 | 59% | 1400 NJ |
| Butane | 106-97-8 | 80% | 8700 NJ |
| Pentane | 109-66-0 | 90% | 2500 NJ |
| Pentane, 3-methyl- | 96-14-0 | 90% | 1100 NJ |
| Cyclopentane, methyl- | 96-37-7 | 87% | 670 NJ |
| Cyclohexane, methyl- | 108-87-2 | 94% | 1200 NJ |

Air Toxics LTD.
Laboratory Services Since 1989

**Client Sample ID: SG-9**

**Lab ID#: 1108582-05A**

**MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN**

| | | | |
|---|---|---|---|
| **File Name:** | **a090110** | **Date of Collection: 8/24/11 9:55:00 AM** | |
| **Dil. Factor:** | **32.8** | **Date of Analysis: 9/1/11 03:39 PM** | |

**TENTATIVELY IDENTIFIED COMPOUNDS**

| Compound | CAS Number | Match Quality | Amount ((ppbv)) |
|---|---|---|---|
| Heptane, 3-ethyl- | 15869-80-4 | 47% | 620 NJ |
| Decane, 4-methyl- | 2847-72-5 | 81% | 770 NJ |
| Cyclohexane, (2-methylpropyl)- | 1678-98-4 | 59% | 660 NJ |

NJ =The identification is based on presumptive evidence; estimated value.

**Container Type: 6 Liter Summa Special (100% Certified)**

| Surrogates | %Recovery | Method Limits |
|---|---|---|
| 1,2-Dichloroethane-d4 | 108 | 70-130 |
| Toluene-d8 | 102 | 70-130 |
| 4-Bromofluorobenzene | 97 | 70-130 |

Air Toxics Ltd.

AMBIENT AIR METHOD TO14/TO15

Data file : /chem/msda.i/01Sep2011.b/a090110.d
Lab Smp Id: 1108582-05A
Inj Date : 01-SEP-2011 15:39
Operator : jc Inst ID: msda.i
Smp Info : 12.5mL #12045
Misc Info : 5.5"Hg-5psi
Comment :
Method : /chem/msda.i/01Sep2011.b/a11l0818b.m
Meth Date : 07-Sep-2011 14:20 ejakob Quant Type: ISTD
Cal Date : 31-AUG-2011 12:17 Cal File: a083107.d
Als bottle: 28
Dil Factor: 32.80000
Integrator: HP RTE Compound Sublist: Par16136.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

| | | | | CONCENTRATIONS ON-COL | FINAL | | |
|---|---|---|---|---|---|---|---|
| RT | EXP RT (REL RT) | MASS | RESPONSE | ( PPBV) | ( PPBV) | TARGET RANGE | RATIO |
| * 52 Bromochloromethane | | | | | CAS #: 74-97-5 | | |
| 15.406 | 15.406 (1.000) | 130 | 188175 | 10.0000 | | 80.00- 120.00 | 100.00 |
| 15.406 | 15.406 (1.000) | 128 | 147501 | | | 0.00- 30.00 | 78.38 |
| 15.406 | 15.406 (1.000) | 49 | 329392 | | | 0.00- 30.00 | 175.05 |
| * 66 1,4-Difluorobenzene | | | | | CAS #: 540-36-3 | | |
| 16.825 | 16.825 (1.000) | 114 | 892310 | 10.0000 | | 80.00- 120.00 | 100.00 |
| 16.825 | 16.798 (1.000) | 88 | 153243 | | | 0.00- 30.00 | 17.17 |
| * 88 Chlorobenzene-d5 | | | | | CAS #: 3114-55-4 | | |
| 21.614 | 21.614 (1.000) | 117 | 766273 | 10.0000 | | 80.00- 120.00 | 100.00 |
| 21.590 | 21.590 (1.000) | 82 | 659653 | | | 0.00- 30.00 | 86.09 |
| $ 61 1,2-Dichloroethane-d4 | | | | | CAS #: 17060-07-0 | | |
| 16.248 | 16.249 (1.055) | 65 | 364689 | 10.7699 | 10.770 | 80.00- 120.00 | 100.00 |
| 16.248 | 16.249 (1.055) | 67 | 262423 | | | 21.17- 81.17 | 71.96 |
| $ 80 Toluene-d8 | | | | | CAS #: 2037-26-5 | | |
| 19.389 | 19.389 (1.152) | 98 | 880507 | 10.1505 | 10.150 | 80.00- 120.00 | 100.00 |
| 19.411 | 19.389 (1.154) | 70 | 184057 | | | 0.00- 41.96 | 20.90 |

| RT | EXP RT (REL RT) | MASS | RESPONSE | CONCENTRATIONS ON-COL ( PPBV) | CONCENTRATIONS FINAL ( PPBV) | TARGET RANGE | RATIO |
|---|---|---|---|---|---|---|---|
| $ 80 Toluene-d8 (continued) | | | | | | | |
| 19.389 | 19.389 (1.152) | 100 | 590375 | | | 36.89- 96.89 | 67.05 |
| $ 100 Bromofluorobenzene | | | | | CAS #: 460-00-4 | | |
| 23.068 | 23.068 (1.067) | 174 | 385861 | 9.66805 | 9.668 | 80.00- 120.00 | 100.00 |
| 23.068 | 23.068 (1.067) | 95 | 754975 | | | 114.38- 174.38 | 195.66 |
| 23.068 | 23.068 (1.067) | 176 | 375705 | | | 66.49- 126.49 | 97.37 |
| 10 Vinyl Chloride | | | | | CAS #: 75-01-4 | | |
| 7.989 | 8.059 (0.519) | 62 | 8763 | 0.17089 | 5.605 | 80.00- 120.00 | 100.00 |
| 7.989 | 8.059 (0.519) | 64 | 2842 | | | 0.83- 60.83 | 32.44 |
| 11 1,3-Butadiene | | | | | CAS #: 106-99-0 | | |
| 8.215 | 8.284 (0.533) | 54 | 21917 | 0.54526 | 17.885 | 80.00- 120.00 | 100.00 |
| 8.215 | 8.284 (0.533) | 39 | 25735 | | | 64.36- 124.36 | 117.42 |
| 20 Ethanol | | | | | CAS #: 64-17-5 | | |
| 11.690 | 11.691 (0.759) | 45 | 45199 | 6.62985 | 217.46 | 80.00- 120.00 | 100.00 |
| 11.690 | 11.691 (0.759) | 43 | 17723 | | | 0.00- 57.08 | 39.21 |
| 11.690 | 11.691 (0.759) | 46 | 18023 | | | 10.87- 70.87 | 39.87 |
| 26 Carbon Disulfide | | | | | CAS #: 75-15-0 | | |
| 12.478 | 12.499 (0.810) | 76 | 78109 | 0.77774 | 25.510 | 80.00- 120.00 | 100.00 |
| 24 Acetone | | | | | CAS #: 67-64-1 | | |
| 12.416 | 12.416 (0.806) | 58 | 1144859 | 46.7746 | 1534.2 | 80.00- 120.00 | 100.00(A) |
| 12.416 | 12.416 (0.806) | 43 | 3662225 | | | 283.54- 343.54 | 319.88 |
| 40 Hexane | | | | | CAS #: 110-54-3 | | |
| 13.819 | 13.819 (0.897) | 57 | 1374909 | 14.6002 | 478.89 | 80.00- 120.00 | 100.00 |
| 13.819 | 13.819 (0.897) | 43 | 928897 | | | 33.38- 93.38 | 67.56 |
| 13.819 | 13.819 (0.897) | 86 | 214224 | | | 0.00- 46.43 | 15.58 |
| 48 2-Butanone | | | | | CAS #: 78-93-3 | | |
| 15.065 | 15.065 (0.978) | 72 | 19932 | 0.71060 | 23.308 | 80.00- 120.00 | 100.00 |
| 15.065 | 15.065 (0.978) | 43 | 128107 | | | 298.82- 358.82 | 642.71 |
| 15.065 | 15.065 (0.978) | 57 | 7208 | | | 0.00- 56.09 | 36.16 |
| 55 Cyclohexane | | | | | CAS #: 110-82-7 | | |
| 15.714 | 15.714 (1.020) | 84 | 637346 | 8.11559 | 266.19 | 80.00- 120.00 | 100.00 |
| 15.714 | 15.714 (1.020) | 56 | 1322535 | | | 97.99- 157.99 | 207.51 |
| 15.714 | 15.714 (1.020) | 41 | 726864 | | | 37.94- 97.94 | 114.05 |
| 60 Benzene | | | | | CAS #: 71-43-2 | | |
| 16.248 | 16.249 (0.966) | 78 | 3488685 | 21.0501 | 690.44 | 80.00- 120.00 | 100.00 |
| 16.248 | 16.249 (0.966) | 77 | 809002 | | | 0.00- 53.14 | 23.19 |

| RT | EXP RT (REL RT) | MASS | RESPONSE | CONCENTRATIONS ON-COL ( PPBV) | CONCENTRATIONS FINAL ( PPBV) | TARGET RANGE | RATIO |
|---|---|---|---|---|---|---|---|
| 64 Heptane | | | | | CAS #: 142-82-5 | | |
| 16.413 | 16.413 (0.976) | 57 | 251389 | 4.55116 | 149.28 | 80.00- 120.00 | 100.00 |
| 16.413 | 16.413 (0.976) | 100 | 68490 | | | 11.16- 71.16 | 27.24 |
| 16.413 | 16.413 (0.976) | 43 | 446007 | | | 158.27- 218.27 | 177.42 |
| 81 Toluene | | | | | CAS #: 108-88-3 | | |
| 19.523 | 19.524 (1.160) | 91 | 213140 | 1.12450 | 36.884 | 80.00- 120.00 | 100.00 |
| 19.523 | 19.524 (1.160) | 92 | 125585 | | | 30.18- 90.18 | 58.92 |
| 84 Tetrachloroethene | | | | | CAS #: 127-18-4 | | |
| 20.365 | 20.365 (0.942) | 166 | 8538 | 0.10317 | 3.384 | 80.00- 120.00 | 100.00 |
| 20.333 | 20.333 (0.941) | 129 | 6575 | | | 48.84- 108.84 | 77.02 |
| 20.333 | 20.333 (0.941) | 131 | 6324 | | | 46.09- 106.09 | 74.07 |
| 91 Ethyl Benzene | | | | | CAS #: 100-41-4 | | |
| 21.711 | 21.711 (1.004) | 106 | 38512 | 0.51534 | 16.903 | 80.00- 120.00 | 100.00 |
| 21.711 | 21.711 (1.004) | 91 | 140504 | | | 291.22- 351.22 | 364.83 |
| 93 m,p-Xylene | | | | | CAS #: 108-38-3 | | |
| 21.855 | 21.855 (1.011) | 106 | 45823 | 0.56076 | 18.393 | 80.00- 120.00 | 100.00 |
| 21.855 | 21.855 (1.011) | 91 | 106326 | | | 173.15- 233.15 | 232.03 |
| 94 o-Xylene | | | | | CAS #: 95-47-6 | | |
| 22.385 | 22.385 (1.036) | 106 | 57960 | 0.73721 | 24.180 | 80.00- 120.00 | 100.00 |
| 22.385 | 22.385 (1.036) | 91 | 142494 | | | 185.20- 245.20 | 245.85 |
| 98 Cumene | | | | | CAS #: 98-82-8 | | |
| 22.810 | 22.810 (1.055) | 105 | 490530 | 2.07830 | 68.168 | 80.00- 120.00 | 100.00 |
| 22.810 | 22.810 (1.055) | 120 | 129077 | | | 0.00- 56.13 | 26.31 |
| 104 Propylbenzene | | | | | CAS #: 103-65-1 | | |
| 23.274 | 23.274 (1.077) | 91 | 232748 | 0.95300 | 31.258 | 80.00- 120.00 | 100.00 |
| 23.274 | 23.274 (1.077) | 120 | 48459 | | | 0.00- 52.40 | 20.82 |
| 107 4-Ethyltoluene | | | | | CAS #: 622-96-8 | | |
| 23.403 | 23.403 (1.083) | 105 | 243145 | 1.09085 | 35.780 | 80.00- 120.00 | 100.00 |
| 23.403 | 23.403 (1.083) | 120 | 73617 | | | 0.31- 60.31 | 30.28 |
| 109 1,3,5-Trimethylbenzene | | | | | CAS #: 108-67-8 | | |
| 23.455 | 23.455 (1.085) | 105 | 143216 | 0.81336 | 26.678 | 80.00- 120.00 | 100.00 |
| 23.455 | 23.455 (1.085) | 120 | 65846 | | | 18.26- 78.26 | 45.98 |
| 112 1,2,4-Trimethylbenzene | | | | | CAS #: 95-63-6 | | |
| 23.893 | 23.893 (1.105) | 105 | 618703 | 3.76479 | 123.48 | 80.00- 120.00 | 100.00 |
| 23.893 | 23.893 (1.105) | 120 | 281501 | | | 15.25- 75.25 | 45.50 |

| RT | EXP RT (REL RT) | MASS | RESPONSE | CONCENTRATIONS ON-COL ( PPBV) | CONCENTRATIONS FINAL ( PPBV) | TARGET RANGE | RATIO |
|---|---|---|---|---|---|---|---|
| 14 Isopentane | | | | | CAS #: 78-78-4 | | |
| 10.219 | 10.240 (0.663) | 57 | 1651596 | 44.0886 | 1446.1 | 80.00- 120.00 | 100.00(A) |
| 10.219 | 10.240 (0.663) | 43 | 2352267 | | | 104.71- 164.71 | 142.42 |
| 10.219 | 10.240 (0.663) | 42 | 2059665 | | | 89.04- 149.04 | 124.71 |
| 30 2-Methylpentane | | | | | CAS #: 107-83-5 | | |
| 12.995 | 12.995 (0.844) | 71 | 896609 | 28.5665 | 936.98 | 80.00- 120.00 | 100.00(A) |
| 12.995 | 12.995 (0.844) | 43 | 2900920 | | | 0.00- 30.00 | 323.54 |
| 12.995 | 12.995 (0.844) | 42 | 1290074 | | | 0.00- 30.00 | 143.88 |
| 54 2,3-Dimethylpentane | | | | | CAS #: 565-59-3 | | |
| 15.683 | 15.683 (1.018) | 71 | 122724 | 4.39037 | 144.00 | 80.00- 120.00 | 100.00(A) |
| 15.714 | 15.683 (1.020) | 56 | 1322787 | | | 0.00- 30.00 | 1077.85 |
| 15.683 | 15.683 (1.018) | 43 | 383560 | | | 0.00- 30.00 | 312.54 |
| 119 Indan | | | | | CAS #: 496-11-7 | | |
| 24.615 | 24.615 (1.139) | 117 | 413583 | 6.82428 | 223.84 | 80.00- 120.00 | 100.00(A) |
| 24.615 | 24.615 (1.139) | 118 | 230518 | | | 0.00- 30.00 | 55.74 |
| 24.590 | 24.615 (1.138) | 91 | 123583 | | | 0.00- 30.00 | 29.88 |

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.

Air Toxics Ltd.

AMBIENT AIR METHOD TO14/TO15

Data file : /chem/msda.i/01Sep2011.b/a090110.d
Lab Smp Id: 1108582-05A
Inj Date : 01-SEP-2011 15:39
Operator : jc Inst ID: msda.i
Smp Info : 12.5mL #12045
Misc Info : 5.5"Hg-5psi
Comment :
Method : /chem/msda.i/01Sep2011.b/a11l0818b.m
Meth Date : 07-Sep-2011 14:20 ejakob Quant Type: ISTD
Cal Date : 31-AUG-2011 12:17 Cal File: a083107.d
Als bottle: 28
Dil Factor: 32.80000
Integrator: HP RTE Compound Sublist: Par16136.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

| ISTD | RT | AREA | AMOUNT |
|---|---|---|---|
| * 52 Bromochloromethane | 15.406 | 1928247 | 10.000 |
| * 66 1,4-Difluorobenzene | 16.825 | 2377804 | 10.000 |
| * 88 Chlorobenzene-d5 | 21.614 | 4705354 | 10.000 |

| | | CONCENTRATIONS | | | QUANT | | |
|---|---|---|---|---|---|---|---|
| RT | AREA | ON-COL( PPBV) | FINAL( PPBV) | QUAL | LIBRARY | LIB ENTRY | CPND # |
| Unknown | | | | | CAS #: | | |
| 4.818 | 33286123 | 172.623706 | 5662.0 | 0 | | 0 | 52 |
| Propane, 2-methyl- | | | | | CAS #: 75-28-5 | | |
| 6.674 | 8271068 | 42.8942215 | 1406.9 | 59 | NBS54K.l | 97 | 52(L) |
| Butane | | | | | CAS #: 106-97-8 | | |
| 7.850 | 51044550 | 264.719904 | 8682.8 | 80 | NBS54K.l | 98 | 52(L) |

| RT | AREA | ON-COL( PPBV) | FINAL( PPBV) | QUAL | LIBRARY | LIB ENTRY | CPND # |
|---|---|---|---|---|---|---|---|
| Pentane | | | | CAS #: 109-66-0 | | | |
| 11.027 | 14639081 | 75.9190971 | 2490.1 | 90 | NBS54K.l | 271 | 52 |
| Pentane, 3-methyl- | | | | CAS #: 96-14-0 | | | |
| 13.407 | 6258651 | 32.4577154 | 1064.6 | 90 | NBS54K.l | 685 | 52 |
| Cyclopentane, methyl- | | | | CAS #: 96-37-7 | | | |
| 14.754 | 3915986 | 20.3085243 | 666.12 | 87 | NBS54K.l | 552 | 52 |
| Cyclohexane, methyl- | | | | CAS #: 108-87-2 | | | |
| 17.484 | 8717519 | 36.6620507 | 1202.5 | 94 | NBS54K.l | 1211 | 66(L) |
| Heptane, 3-ethyl- | | | | CAS #: 15869-80-4 | | | |
| 22.784 | 8969093 | 19.0614602 | 625.22 | 47 | NBS54K.l | 4505 | 88(L) |
| Decane, 4-methyl- | | | | CAS #: 2847-72-5 | | | |
| 23.661 | 11106441 | 23.6038353 | 774.20 | 81 | NBS54K.l | 9983 | 88 |
| Cyclohexane, (2-methylpropyl)- | | | | CAS #: 1678-98-4 | | | |
| 24.074 | 9419287 | 20.0182315 | 656.60 | 59 | NBS54K.l | 6547 | 88 |

## QC Flag Legend

L - Operator selected an alternate library search match.

Report Date: 13-Sep-2011 13:07

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msda.i
Lab File ID: a090110.d
Lab Smp Id: 1108582-05A
Analysis Type: VOA
Quant Type: ISTD
Operator: jc
Method File: /chem/msda.i/01Sep2011.b/a11l0818b.m
Misc Info: 5.5"Hg-5psi

Calibration Date: 01-SEP-2011
Calibration Time: 08:06
Level: LOW
Sample Type: AIR

| | | AREA LIMIT | | | |
|---|---|---|---|---|---|
| COMPOUND | STANDARD | LOWER | UPPER | SAMPLE | %DIFF |
| 52 Bromochloromethan | 204525 | 122715 | 286335 | 188175 | -7.99 |
| 66 1,4-Difluorobenze | 937041 | 562225 | 1311857 | 892310 | -4.77 |
| 88 Chlorobenzene-d5 | 804938 | 482963 | 1126913 | 766273 | -4.80 |

| | | RT LIMIT | | | |
|---|---|---|---|---|---|
| COMPOUND | STANDARD | LOWER | UPPER | SAMPLE | %DIFF |
| 52 Bromochloromethan | 15.41 | 15.08 | 15.74 | 15.41 | 0.00 |
| 66 1,4-Difluorobenze | 16.83 | 16.50 | 17.16 | 16.82 | 0.00 |
| 88 Chlorobenzene-d5 | 21.61 | 21.28 | 21.94 | 21.61 | 0.00 |

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Report Date: 13-Sep-2011 13:07

Air Toxics Ltd.

RECOVERY REPORT

Client Name: Client SDG: 01Sep2011
Sample Matrix: GAS Fraction: VOA
Lab Smp Id: 1108582-05A
Level: LOW Operator: jc
Data Type: MS DATA SampleType: SAMPLE
SpikeList File: AT09.spk Quant Type: ISTD
Sublist File: Par16136.sub
Method File: /chem/msda.i/01Sep2011.b/a11l0818b.m
Misc Info: 5.5"Hg-5psi

| SURROGATE COMPOUND | CONC ADDED PPBV | CONC RECOVERED PPBV | % RECOVERED | LIMITS |
|---|---|---|---|---|
| $ 61 1,2-Dichloroethane | 10.000 | 10.770 | 107.70 | 70-130 |
| $ 80 Toluene-d8 | 10.000 | 10.150 | 101.51 | 70-130 |
| $ 100 Bromofluorobenzene | 10.000 | 9.668 | 96.68 | 70-130 |

Data File: /chem/msda.i/01Sep2011.b/a090110.d



Date : 01-SEP-2011 15:39

Client ID:

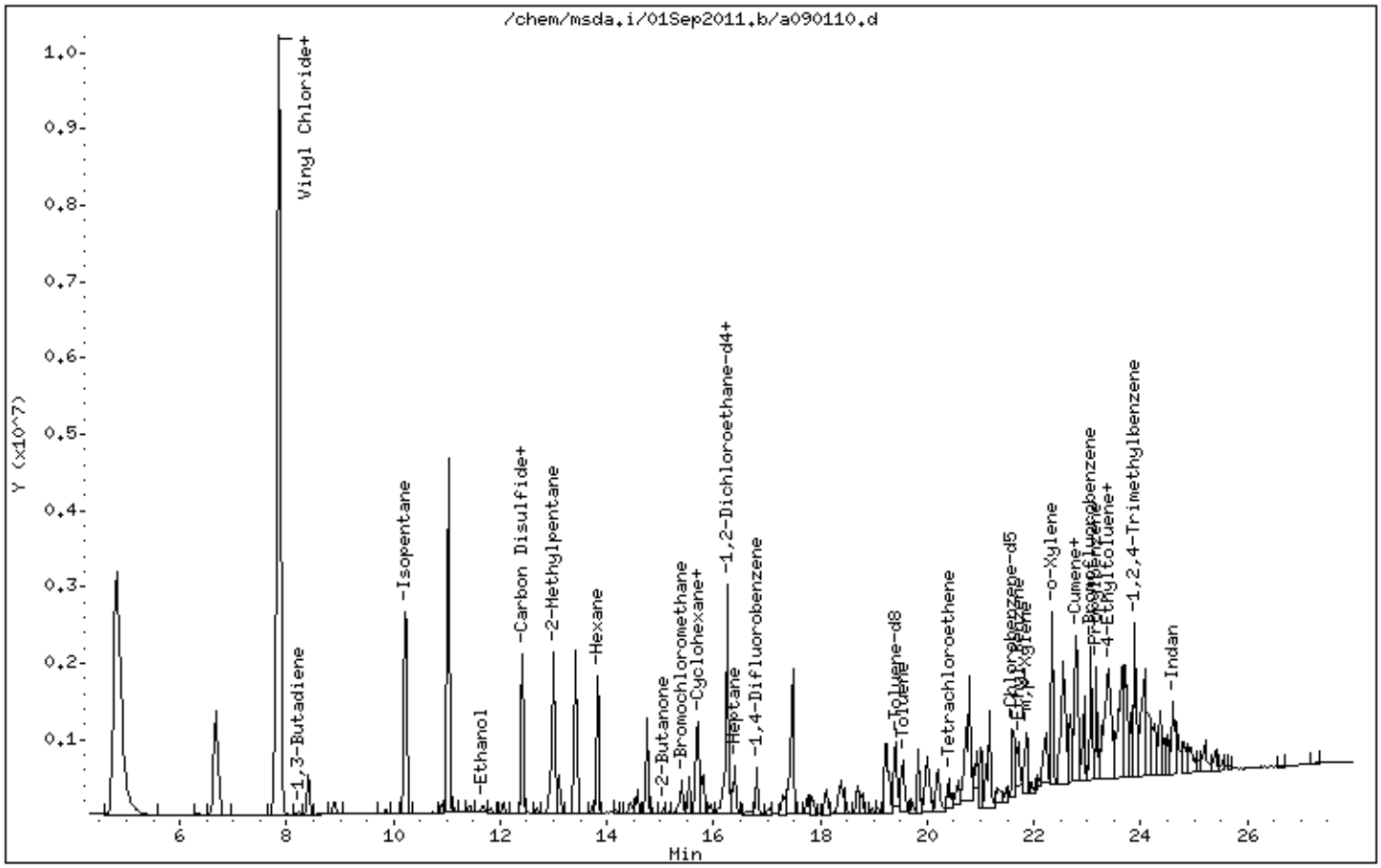
Instrument: msda.i

Sample Info: 12.5mL #12045

Operator: jc

Column phase: RTx-624

Column diameter: 0.32



Data File: /chem/msda.i/01Sep2011.b/a090110.d

Date : 01-SEP-2011 15:39

Client ID:

Instrument: msda.i

Sample Info: 12.5mL #12045

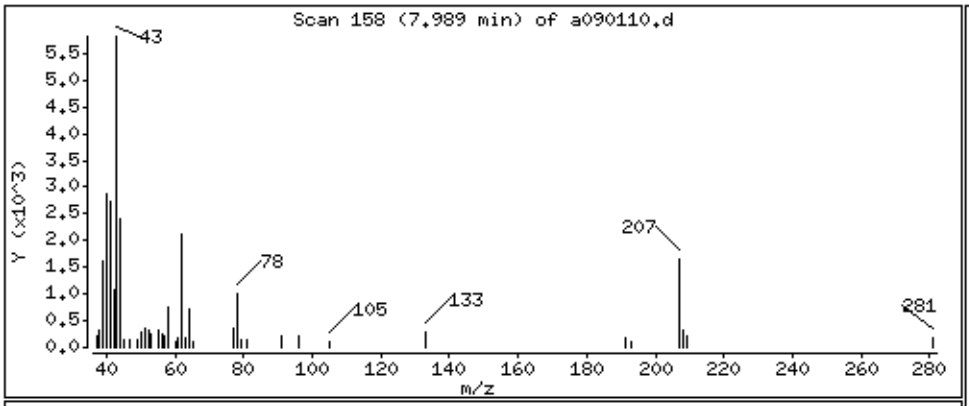
Operator: jc

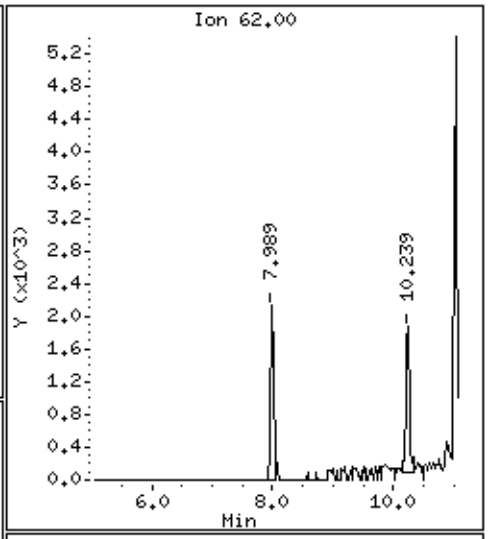
Column phase: RTx-624

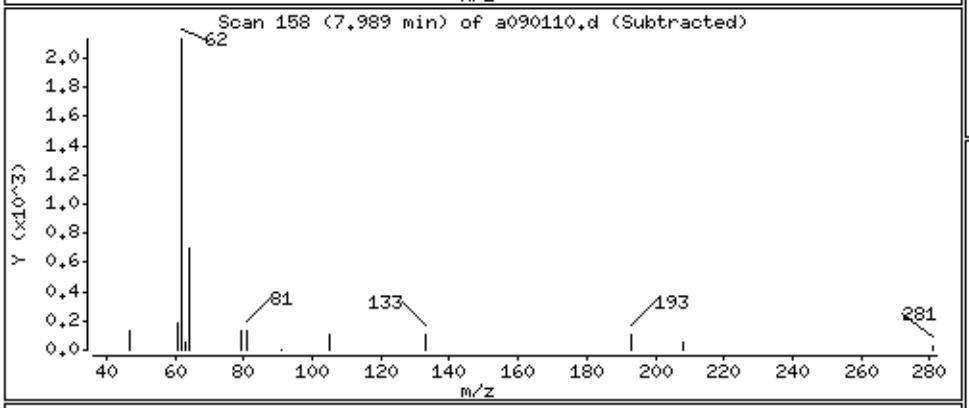
Column diameter: 0.32

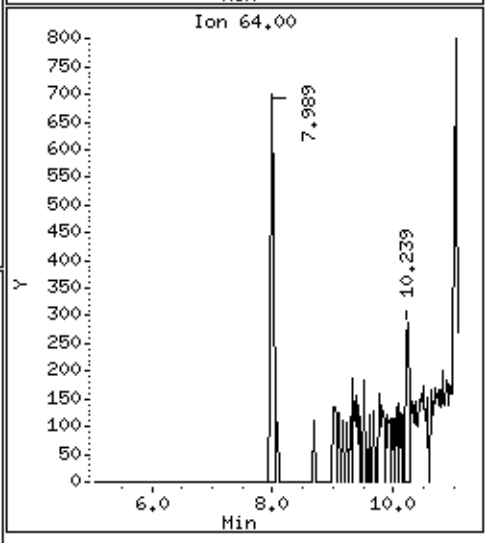
10 Vinyl Chloride

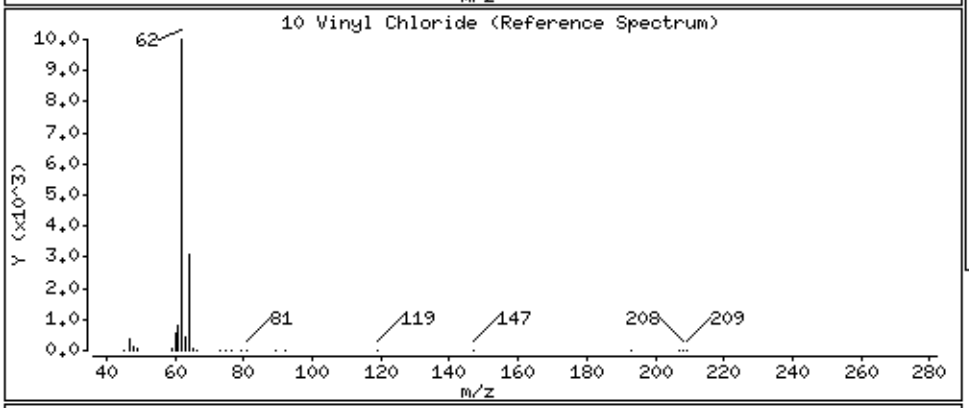
Concentration: 5.605 PPBV

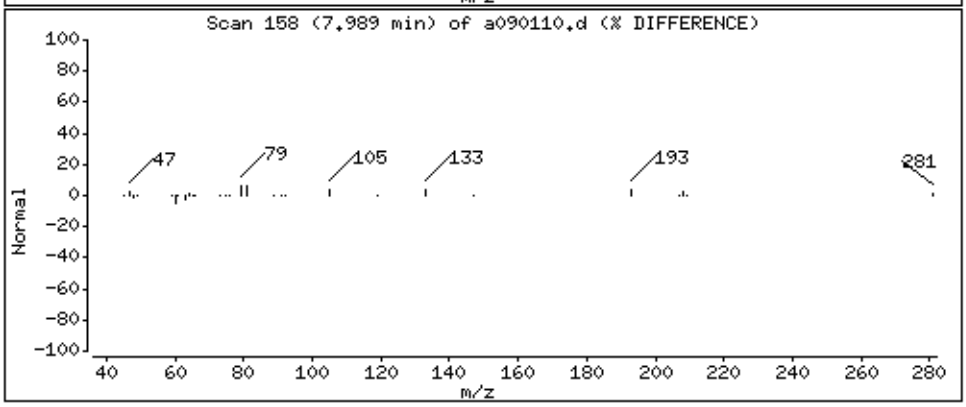


Data File: /chem/msda.i/01Sep2011.b/a090110.d

Date : 01-SEP-2011 15:39

Client ID:

Instrument: msda.i

Sample Info: 12.5mL #12045

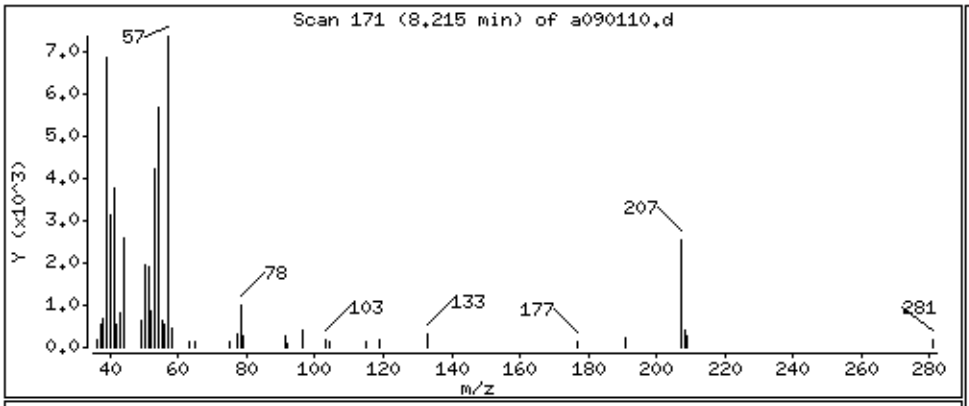
Operator: jc

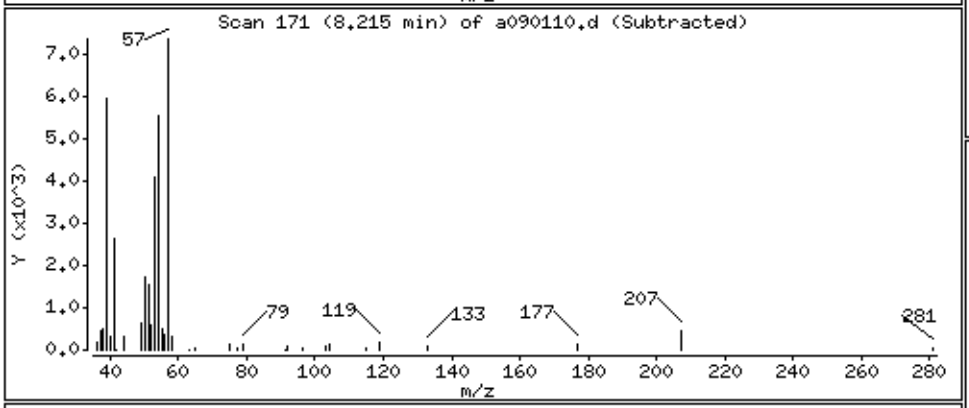
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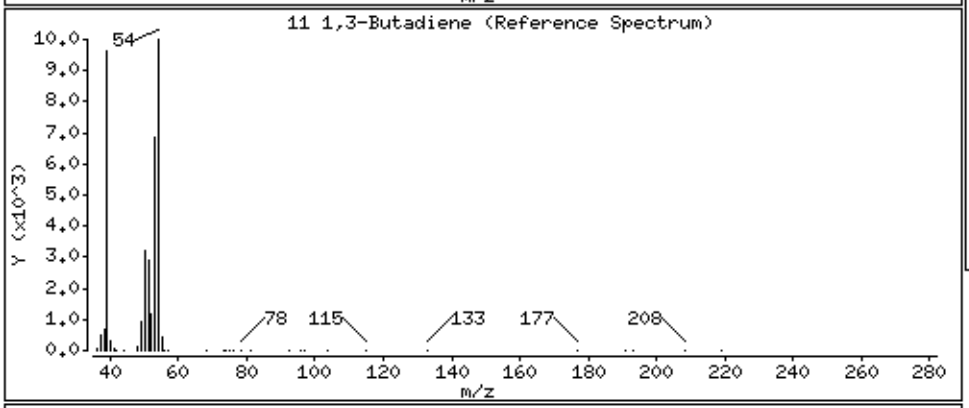
Column diameter: 0.32

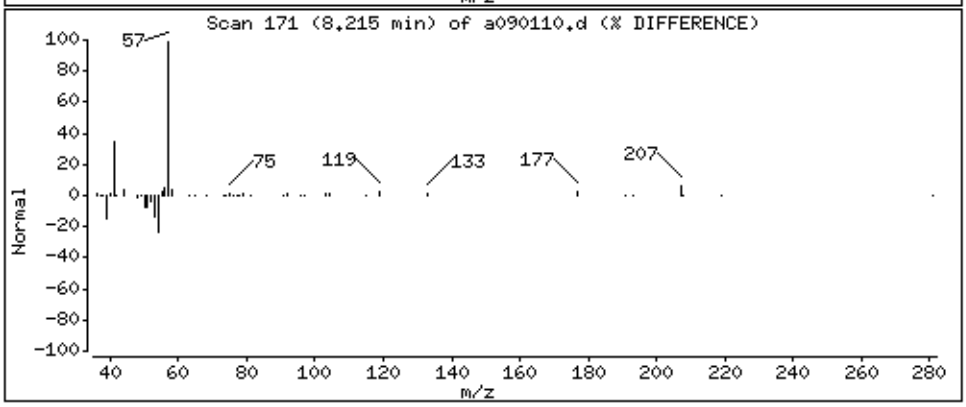
11 1,3-Butadiene

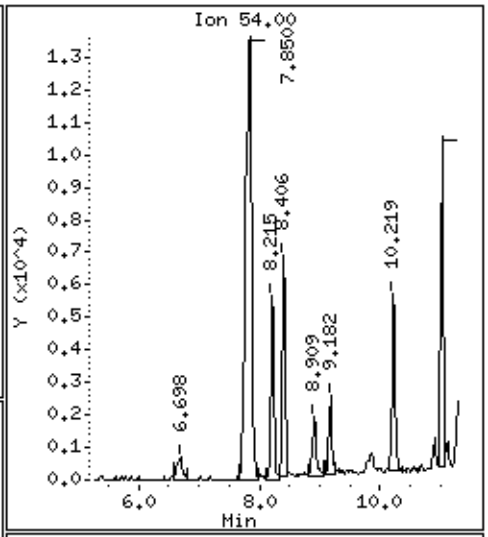
Concentration: 17.885 PPBV

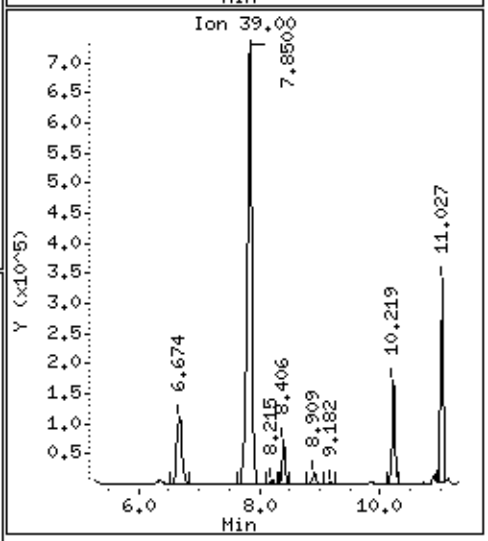


Data File: /chem/msda.i/01Sep2011.b/a090110.d

Date : 01-SEP-2011 15:39

Client ID:

Instrument: msda.i

Sample Info: 12.5mL #12045

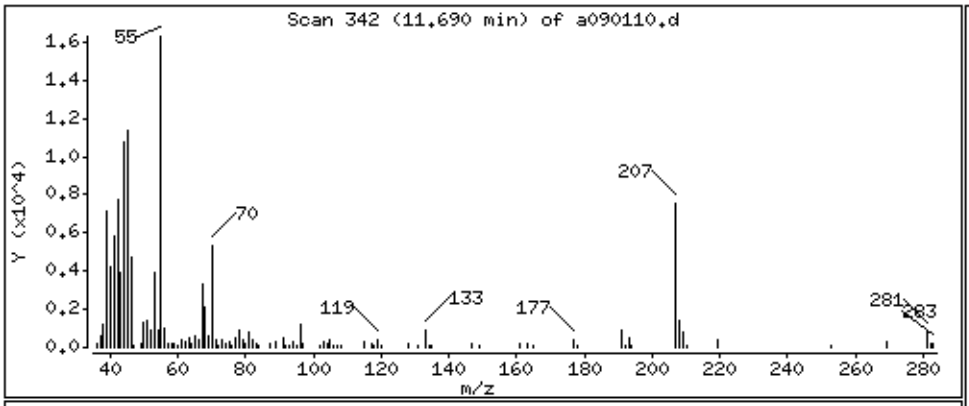
Operator: jc

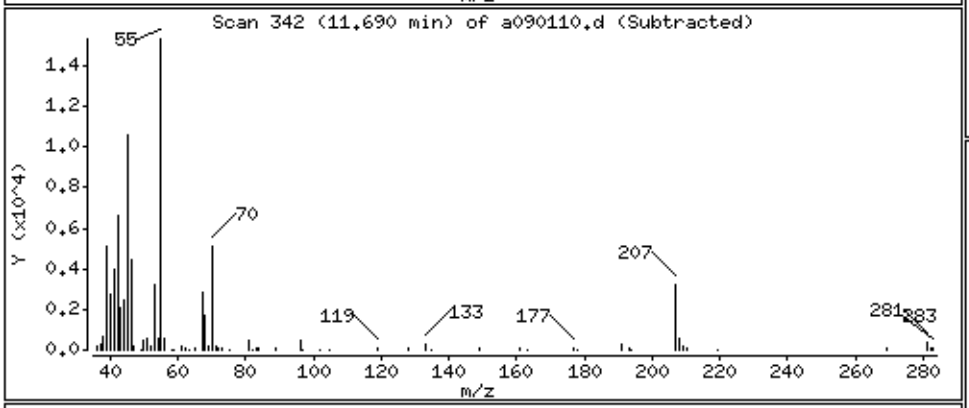
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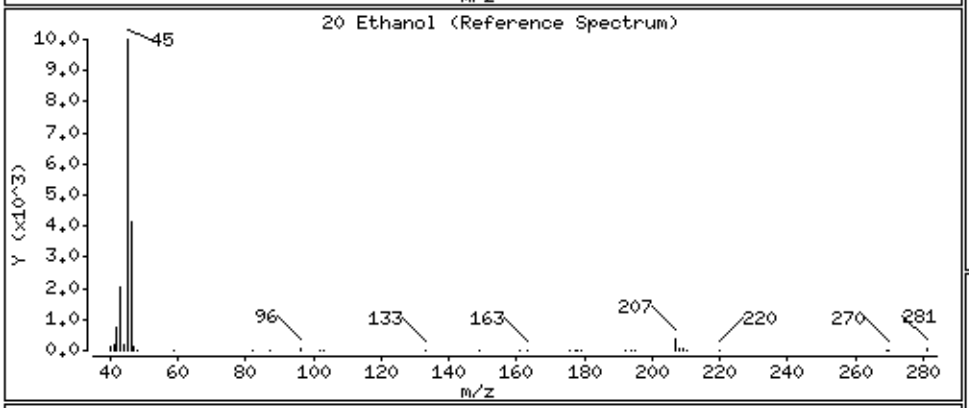
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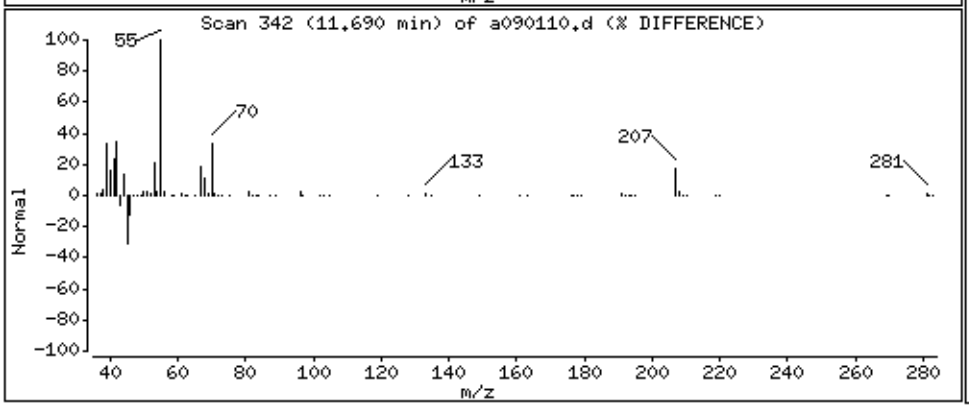
20 Ethanol

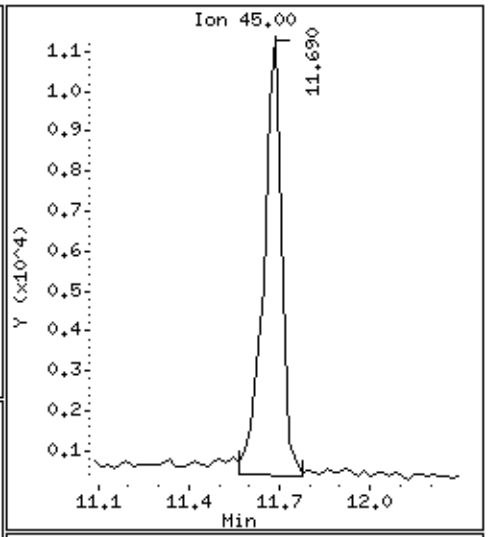
Concentration: 217.46 PPBV

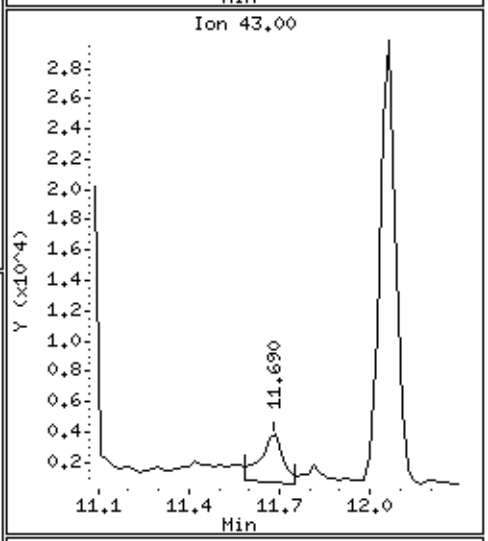


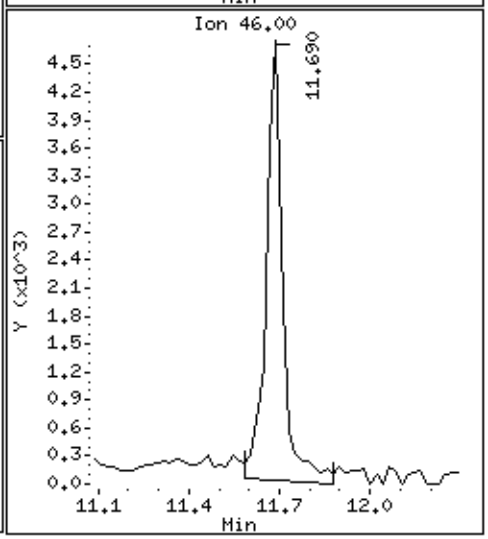



Data File: /chem/msda.i/01Sep2011.b/a090110.d

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Sample Info: 12.5mL #12045

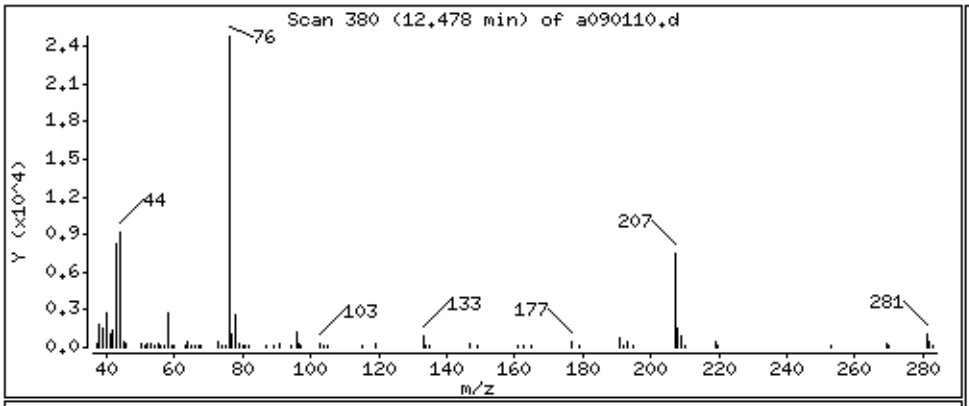
Operator: jc

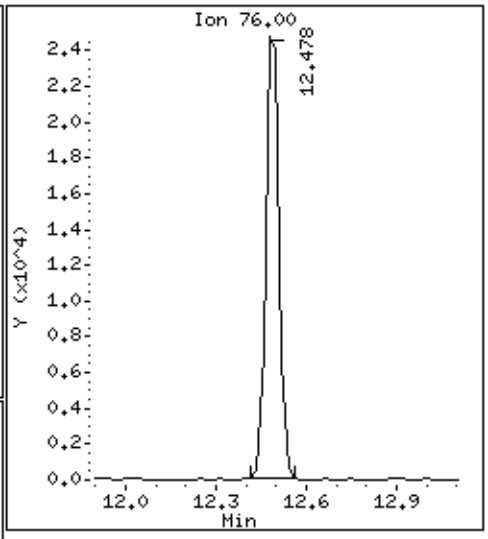
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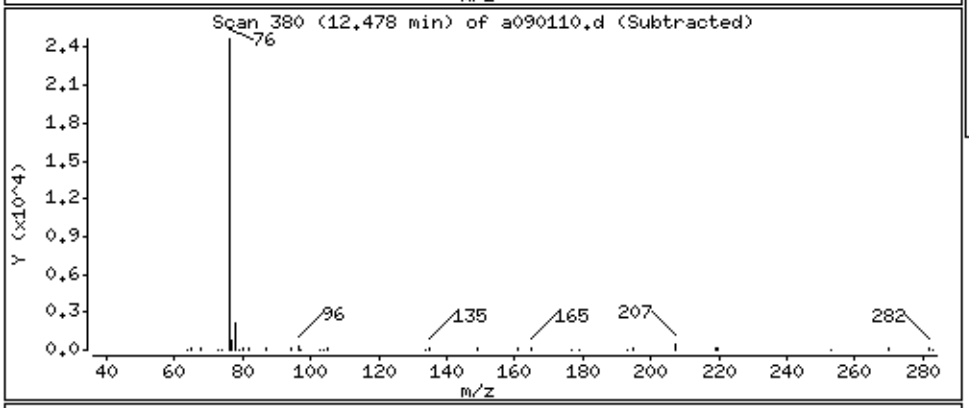
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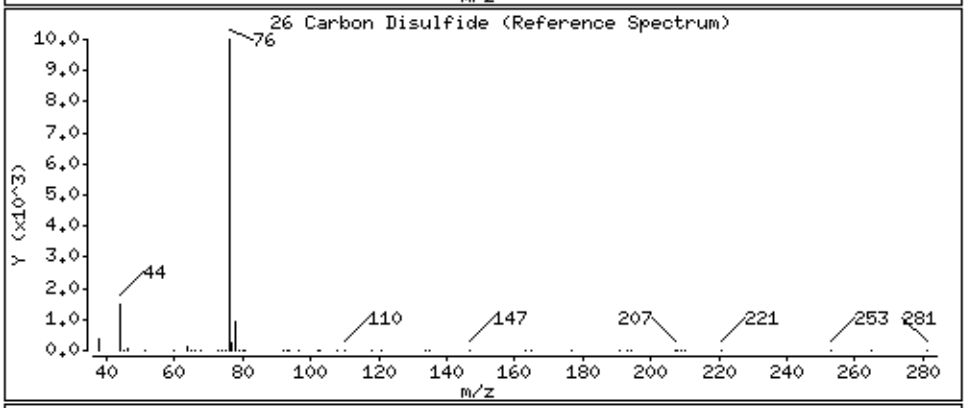
26 Carbon Disulfide

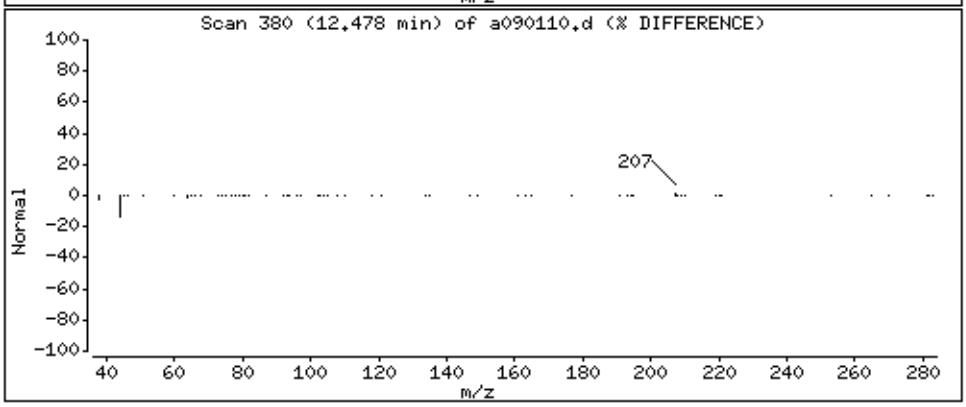
Concentration: 25.510 PPBV



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Date : 01-SEP-2011 15:39

Client ID:

Instrument: msda.i

Sample Info: 12.5mL #12045

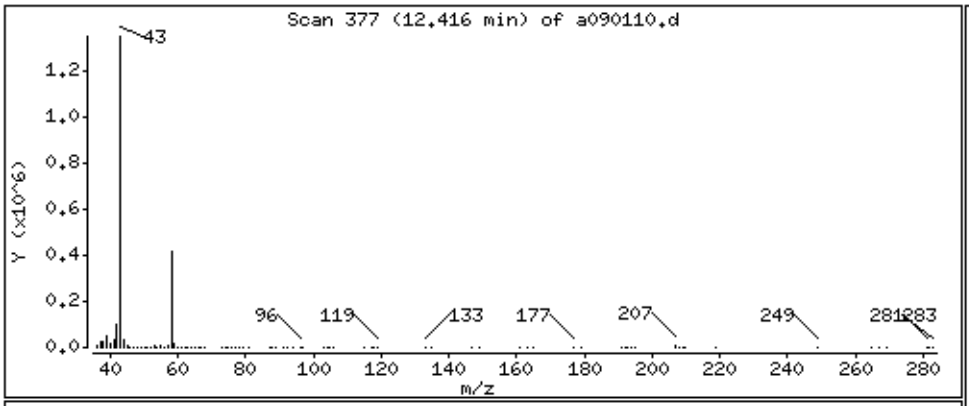
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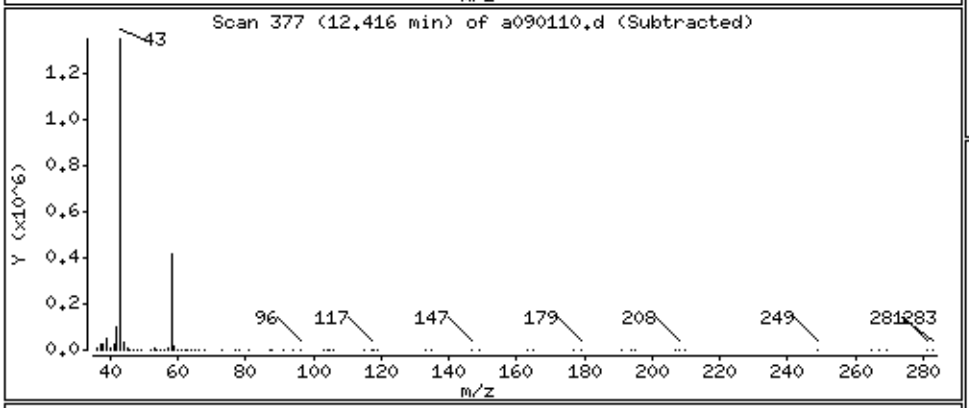
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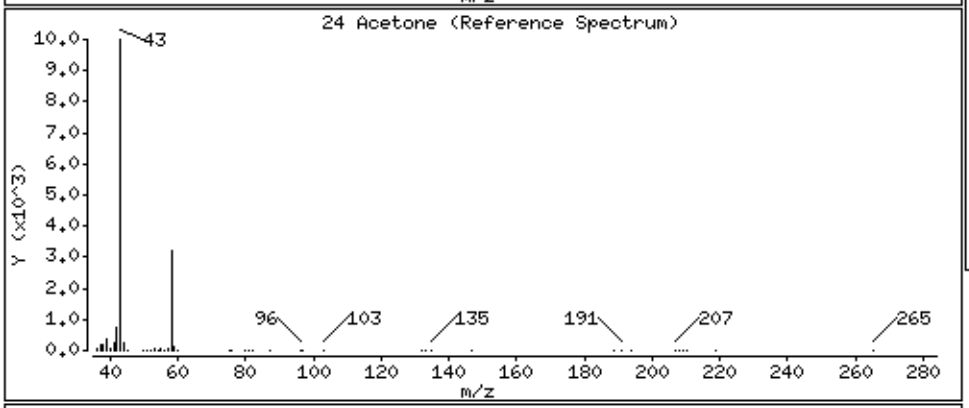
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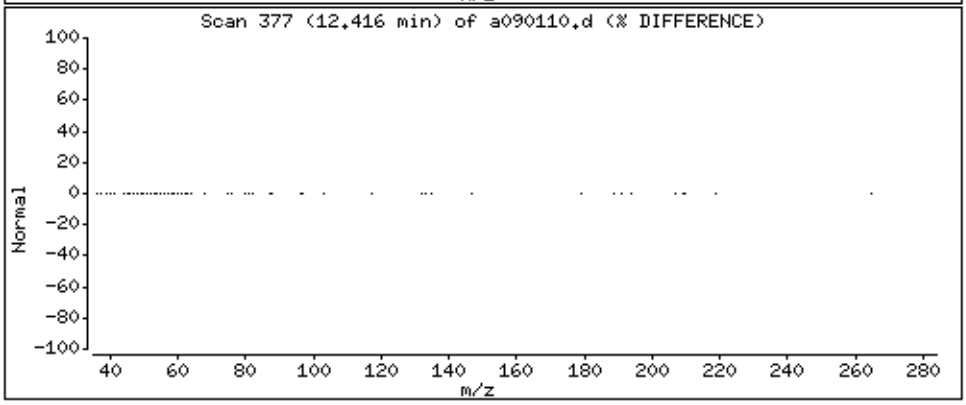
24 Acetone

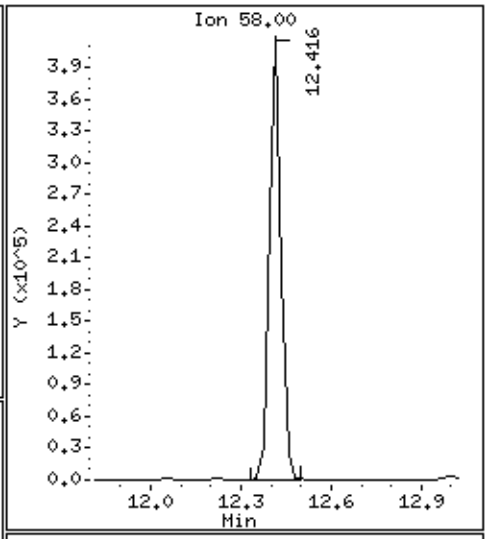
Concentration: 1534.2 PPBV

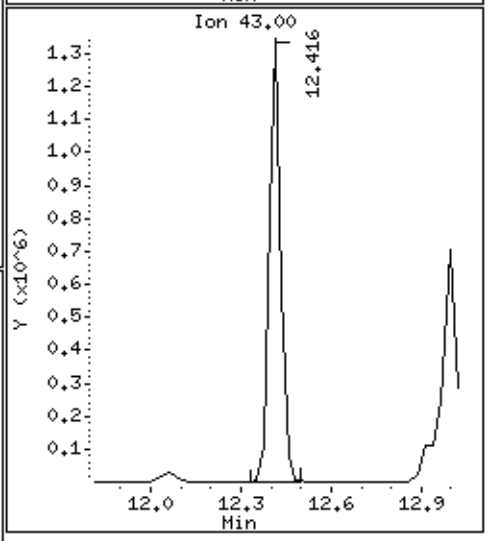


Data File: /chem/msda.i/01Sep2011.b/a090110.d

Date : 01-SEP-2011 15:39

Client ID:

Instrument: msda.i

Sample Info: 12.5mL #12045

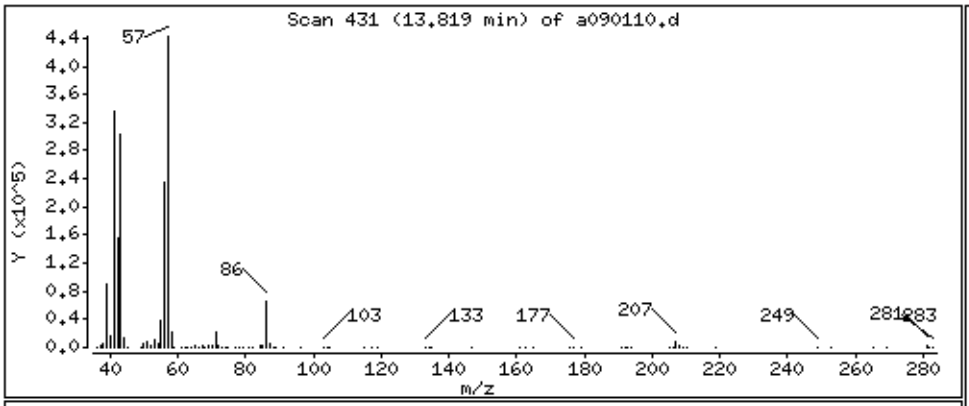
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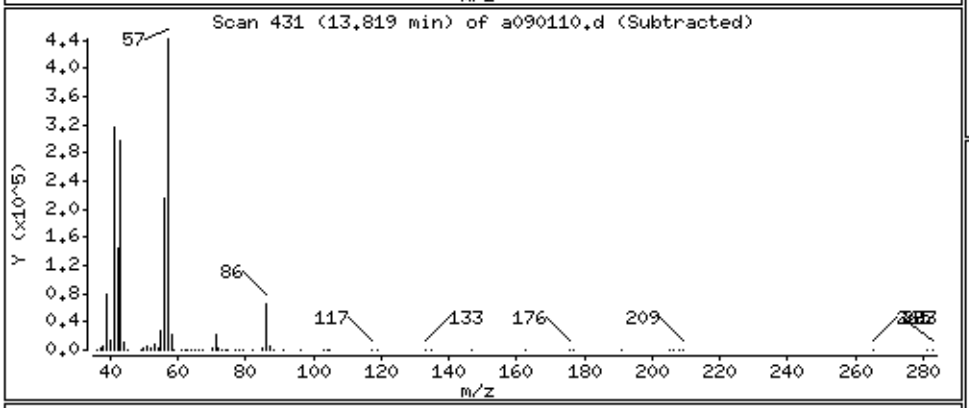
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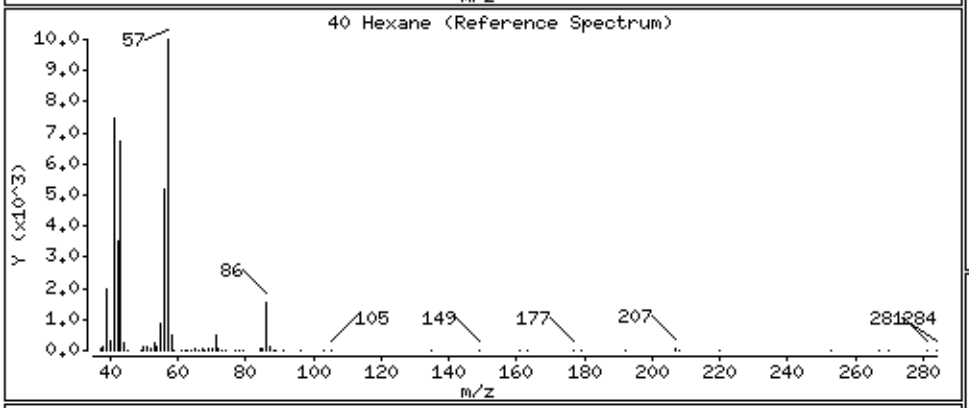
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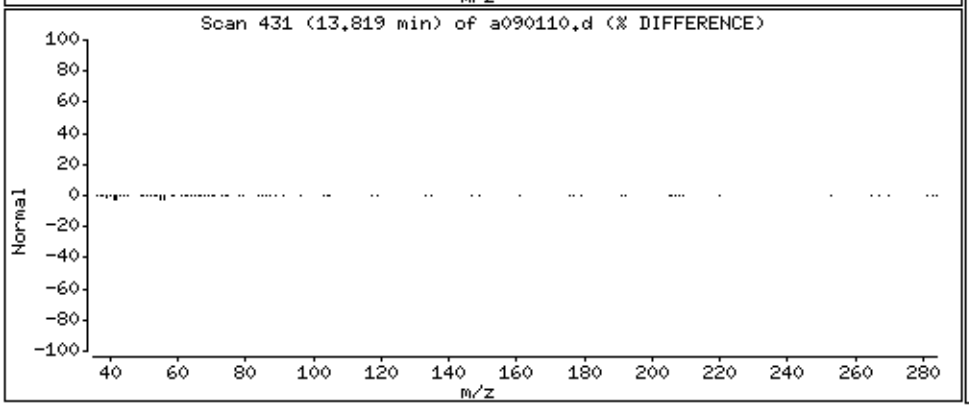
40 Hexane

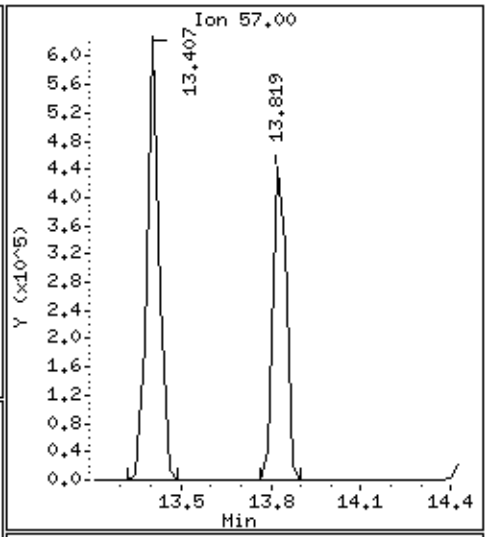
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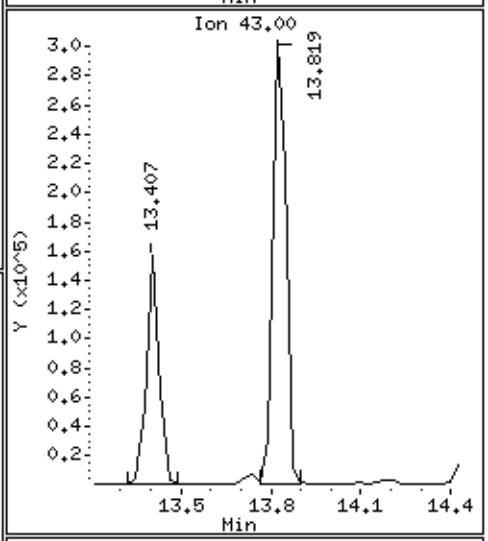


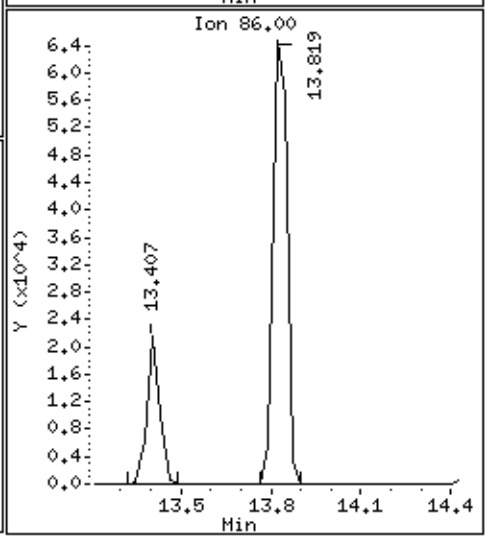



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Instrument: msda.i

Sample Info: 12.5mL #12045

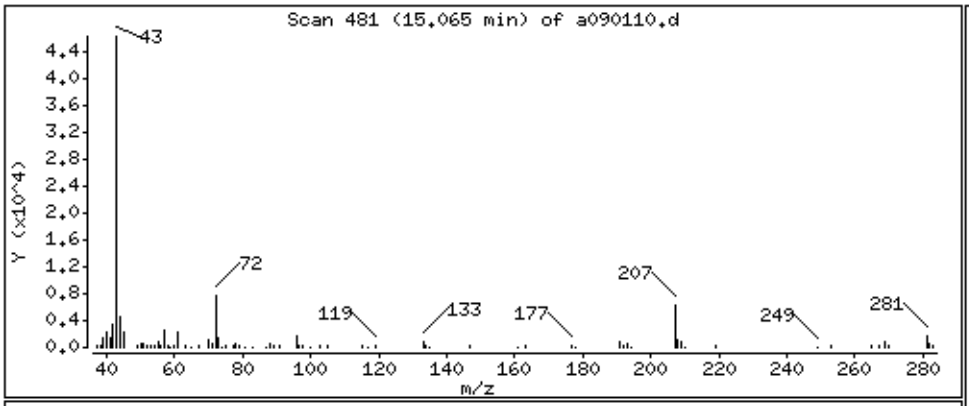
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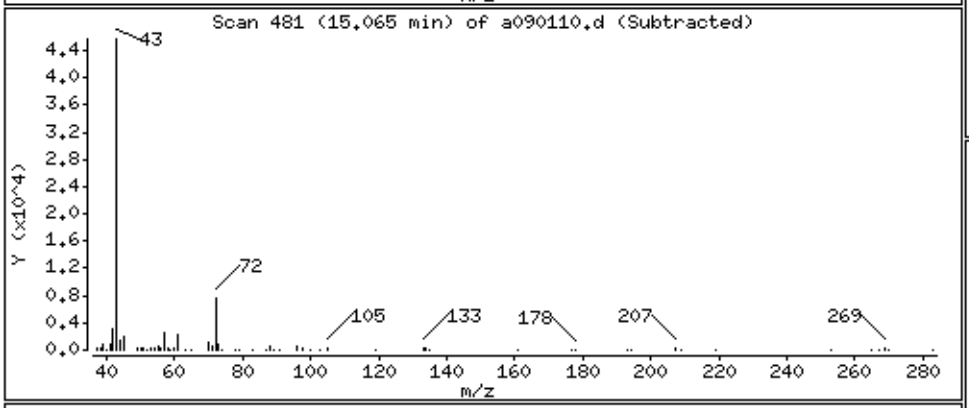
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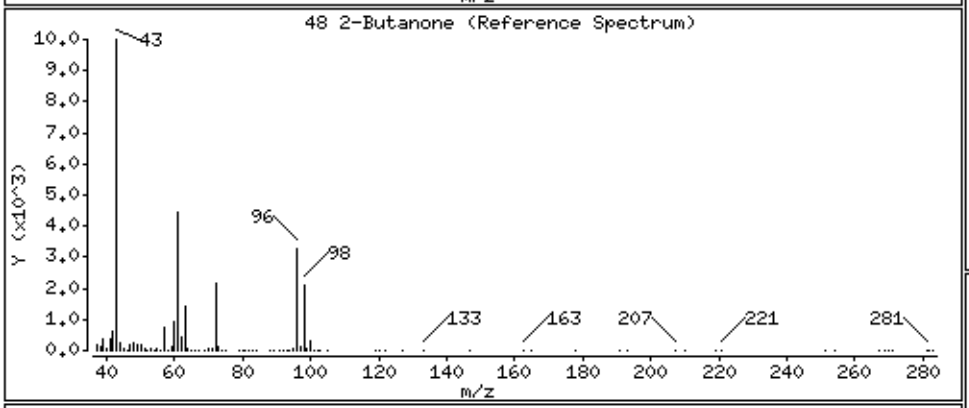
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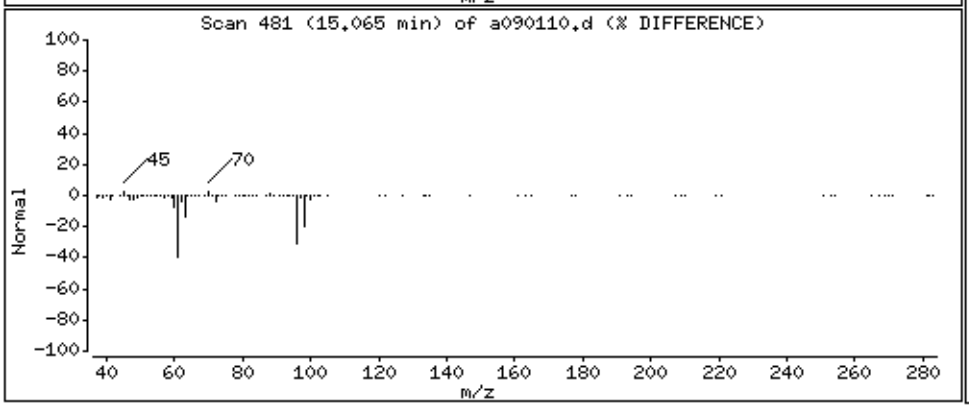
48 2-Butanone

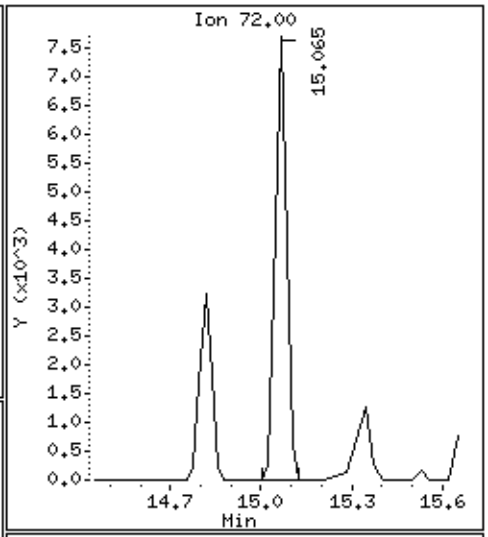
Concentration: 23.308 PPBV

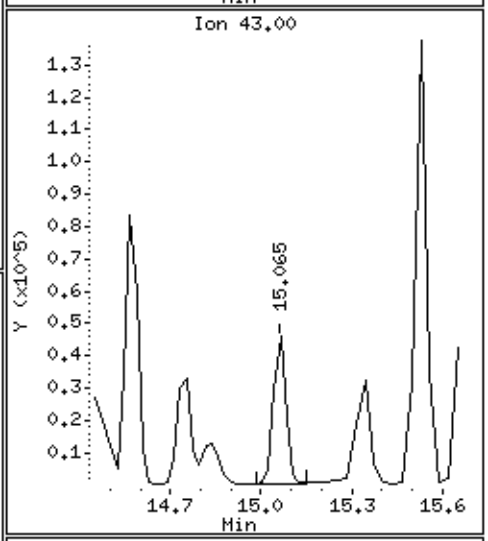


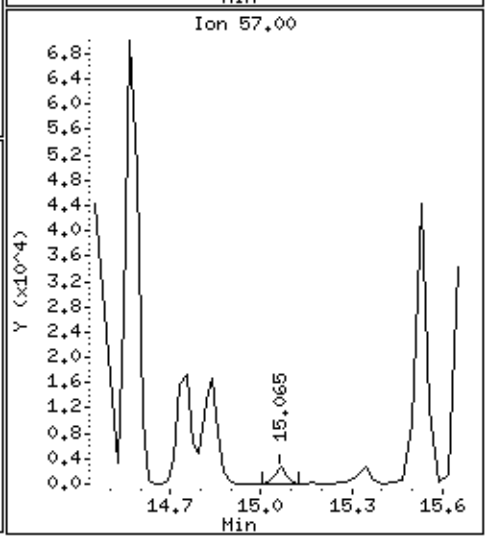



Data File: /chem/msda.i/01Sep2011.b/a090110.d

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Client ID:

Instrument: msda.i

Sample Info: 12.5mL #12045

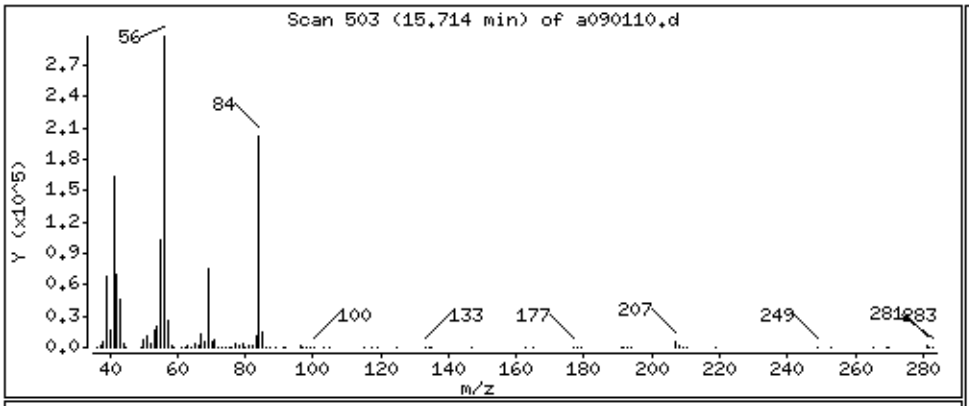
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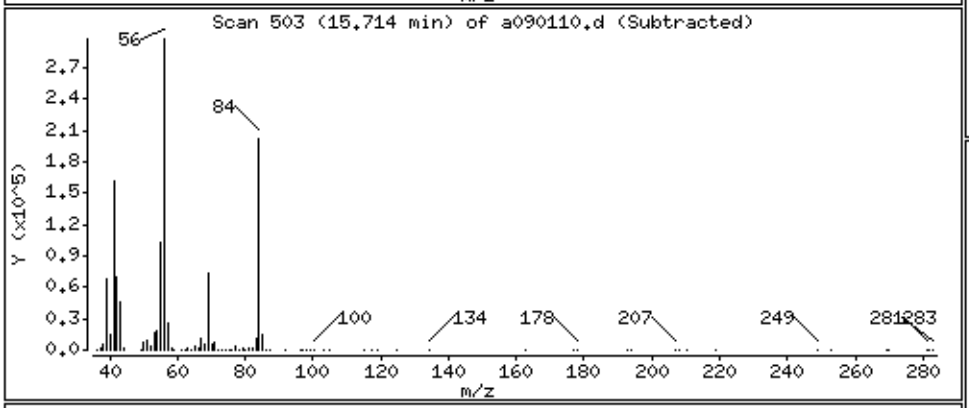
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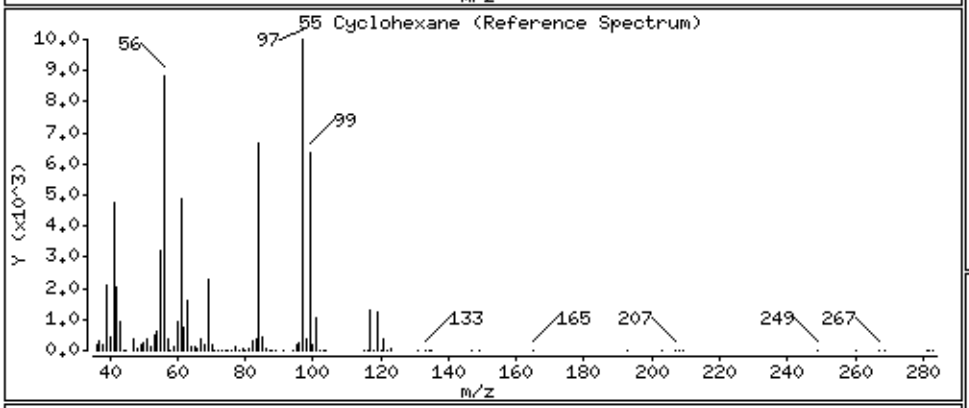
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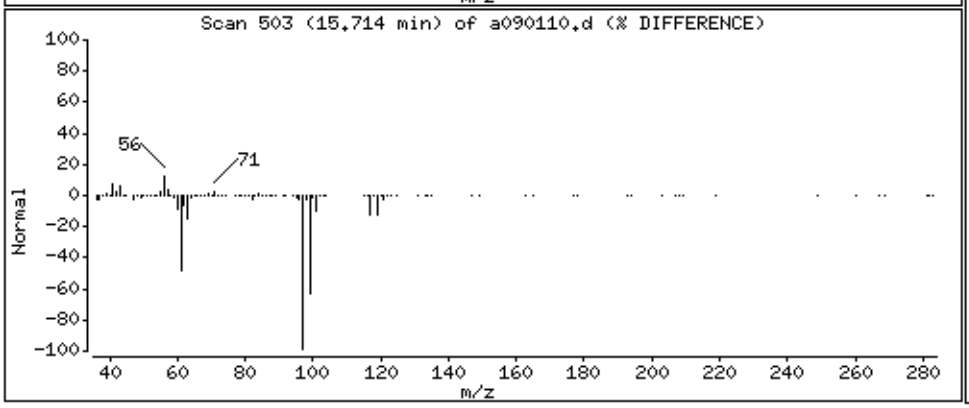
55 Cyclohexane

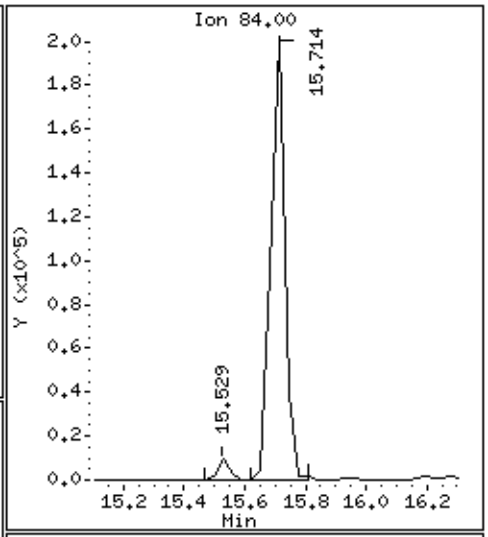
Concentration: 266.19 PPBV

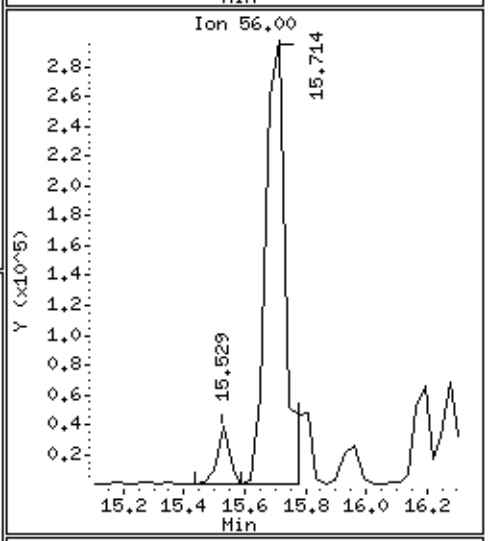


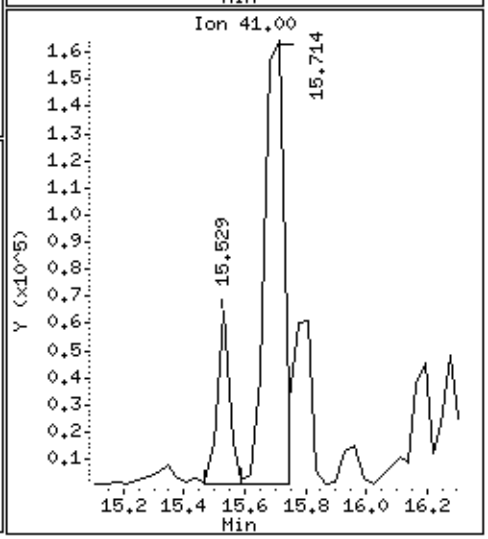



Data File: /chem/msda.i/01Sep2011.b/a090110.d

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Client ID:

Instrument: msda.i

Sample Info: 12.5mL #12045

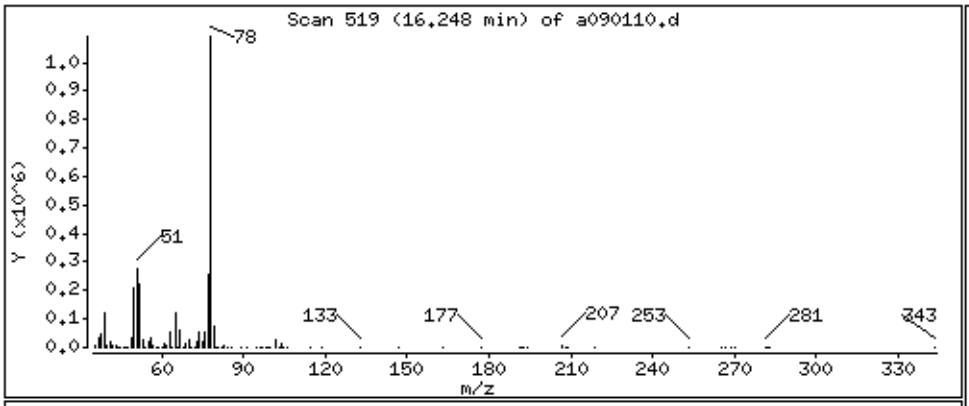
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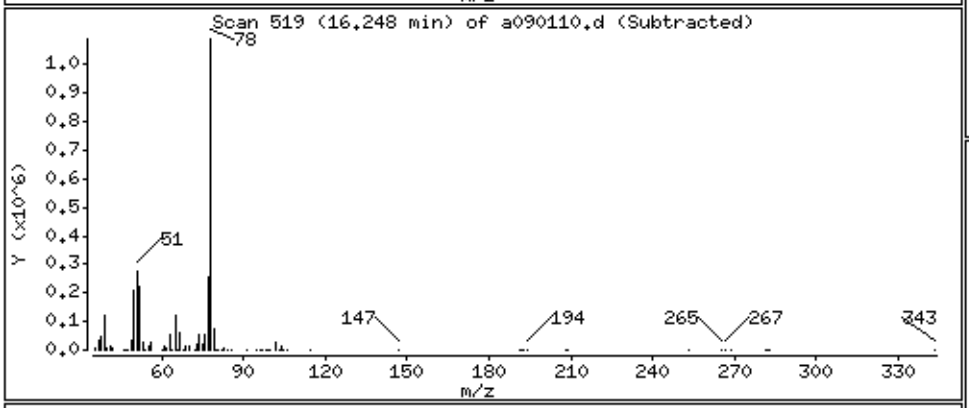
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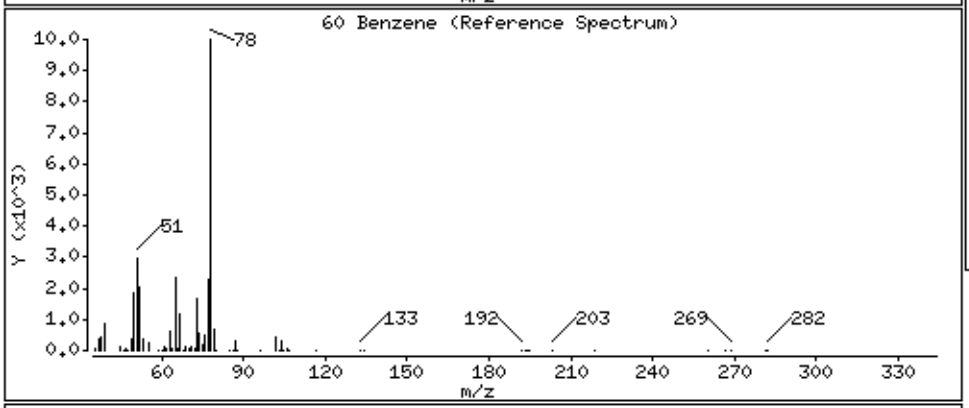
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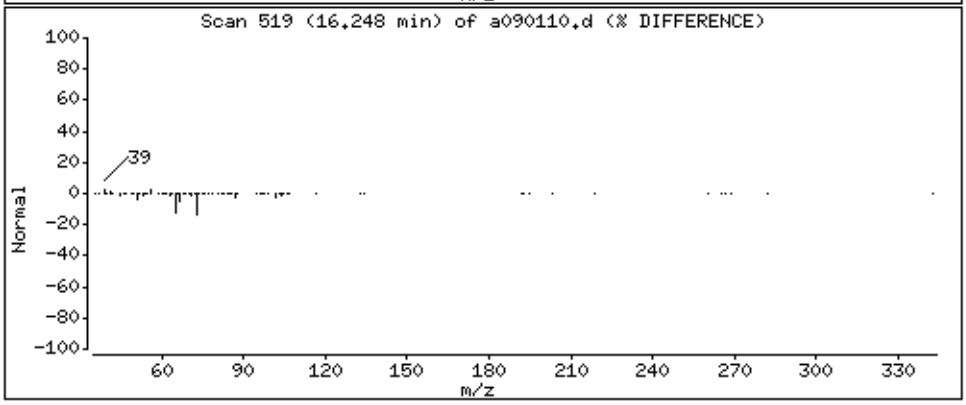
60 Benzene

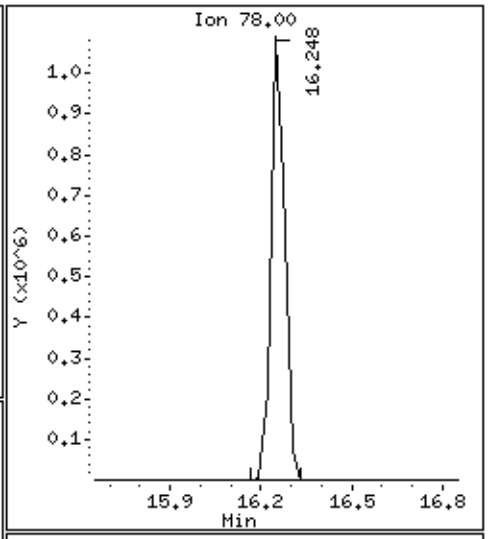
Concentration: 690.44 PPBV

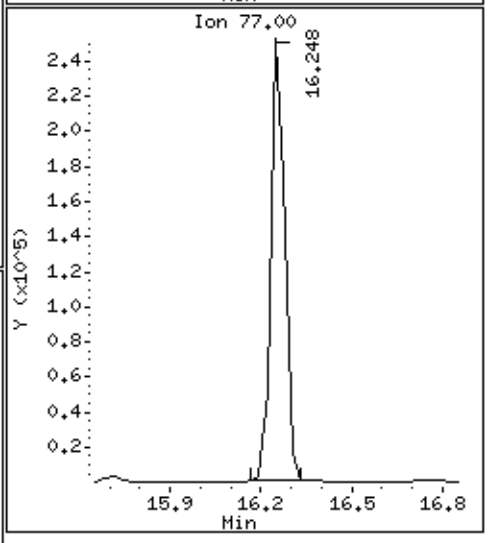


Data File: /chem/msda.i/01Sep2011.b/a090110.d

Date : 01-SEP-2011 15:39

Client ID:

Instrument: msda.i

Sample Info: 12.5mL #12045

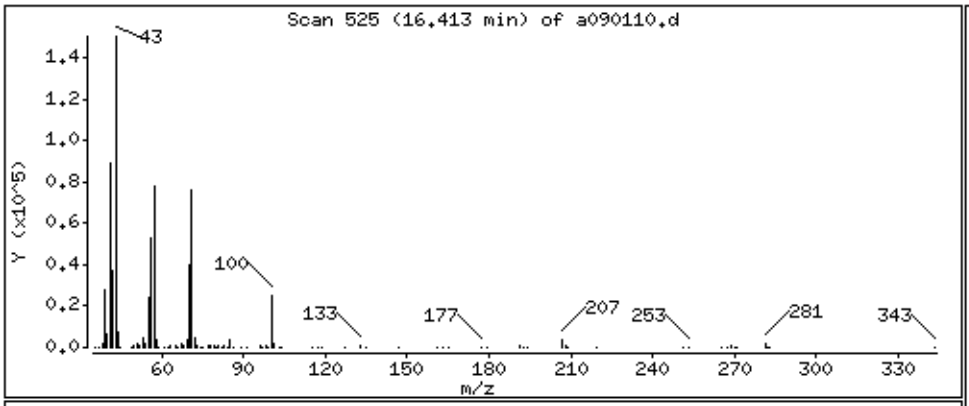
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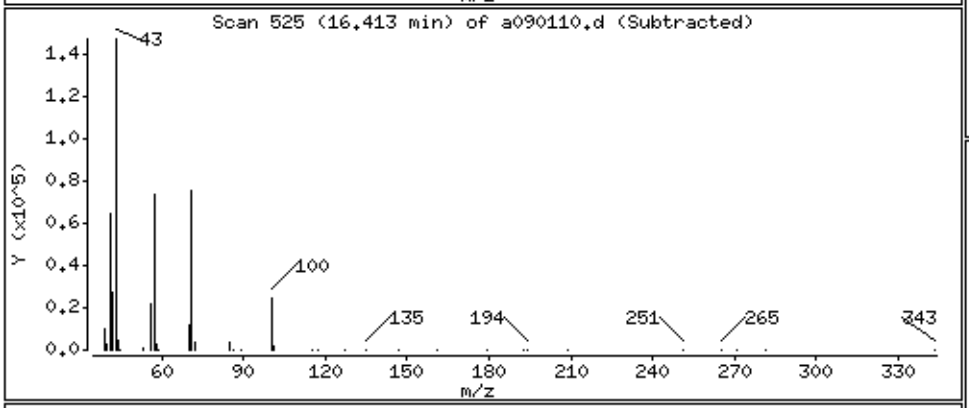
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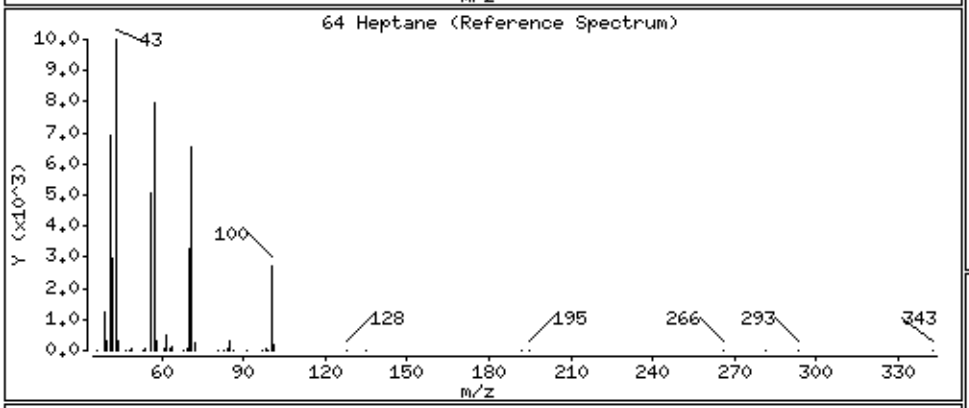
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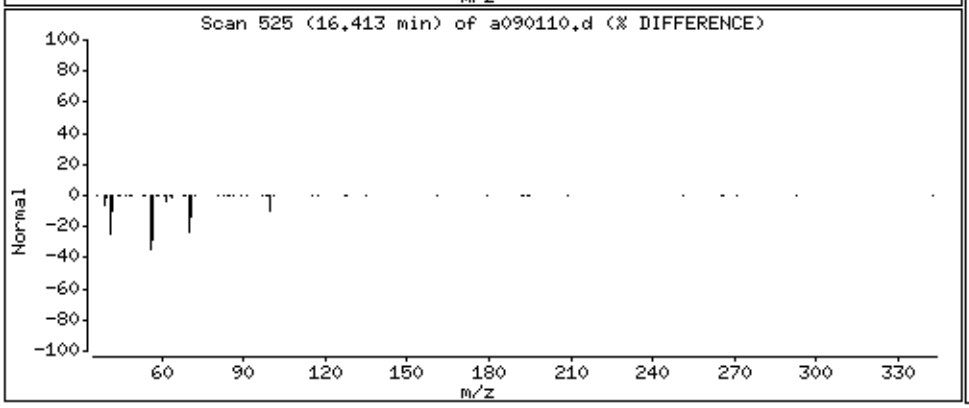
64 Heptane

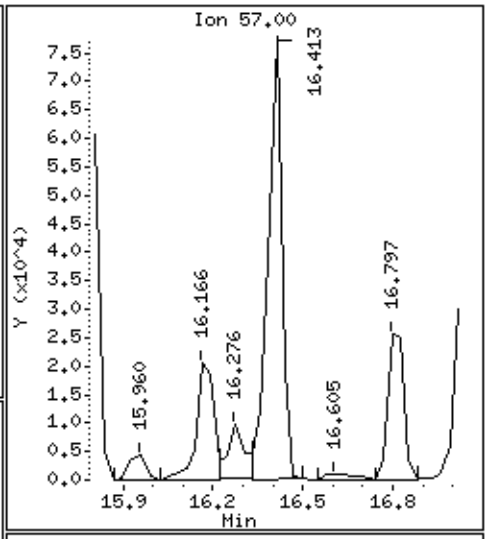
Concentration: 149.28 PPBV

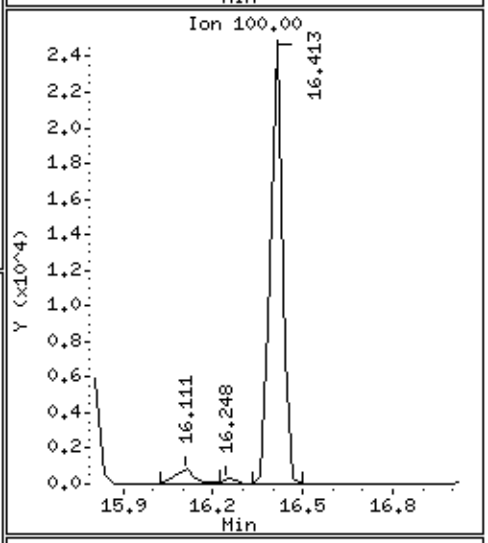


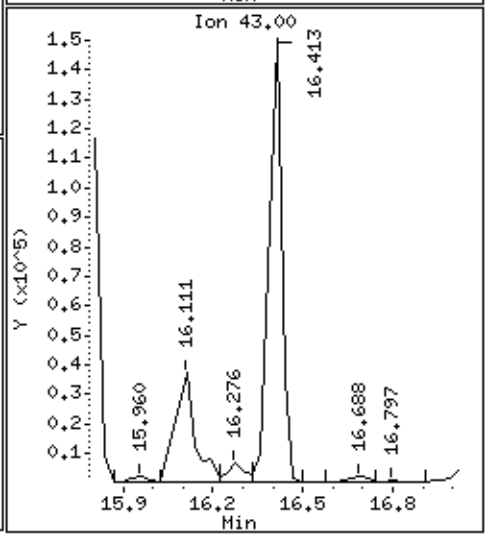



Data File: /chem/msda.i/01Sep2011.b/a090110.d

Date : 01-SEP-2011 15:39

Client ID:

Instrument: msda.i

Sample Info: 12.5mL #12045

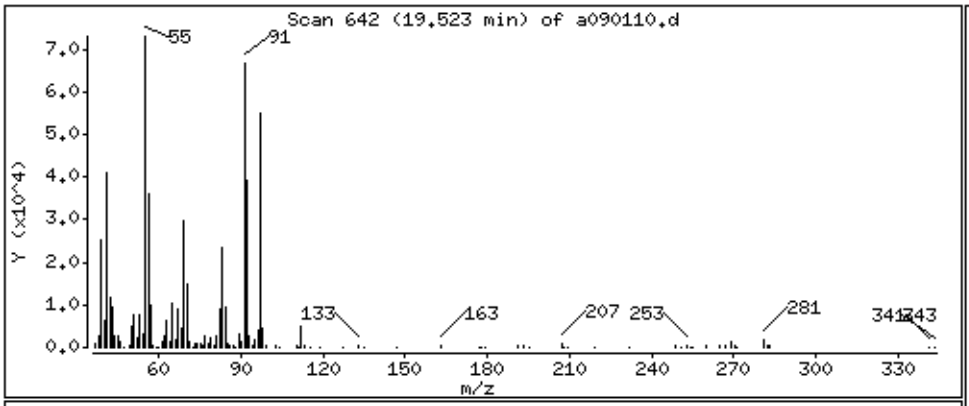
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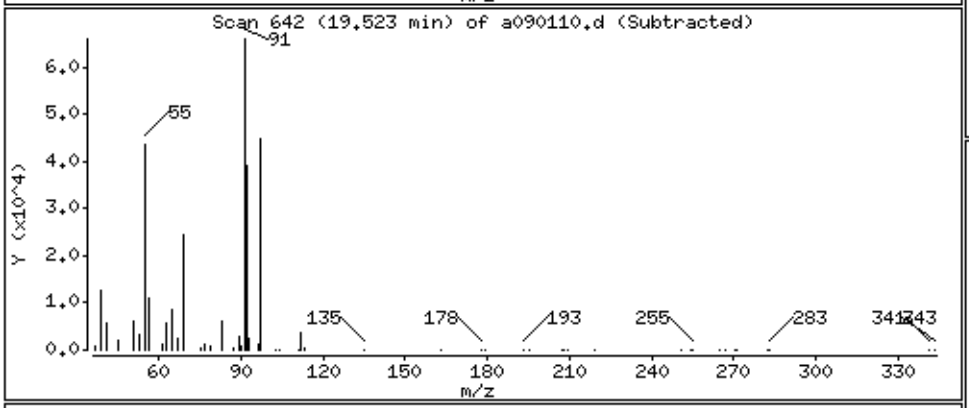
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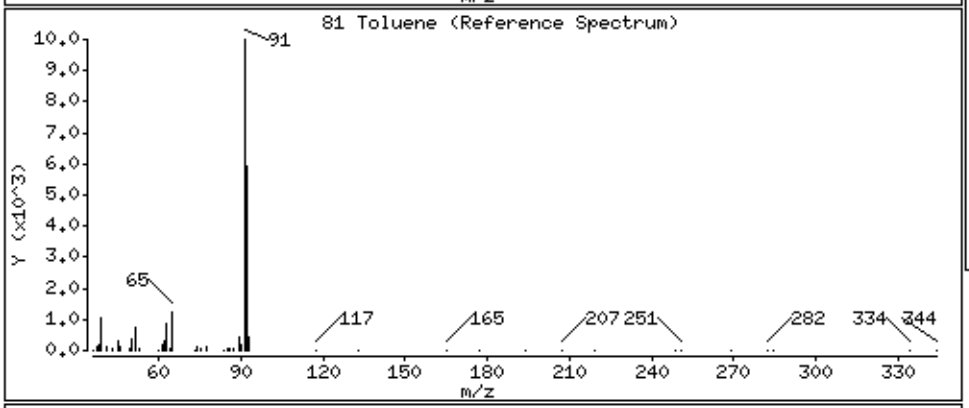
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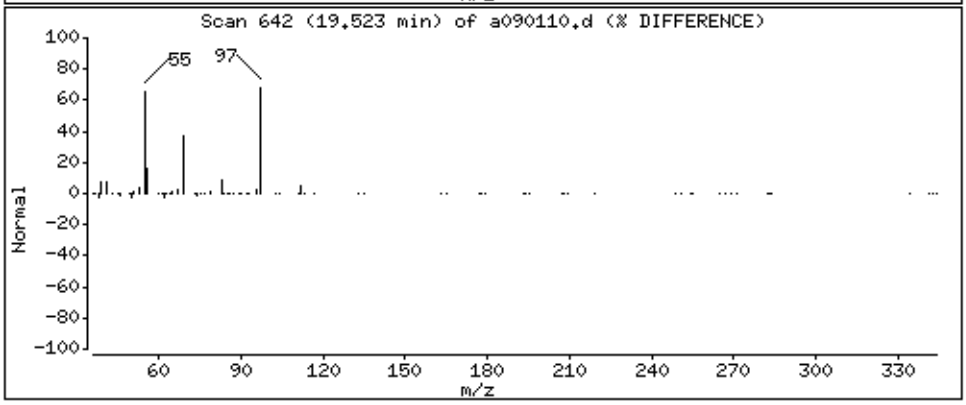
81 Toluene

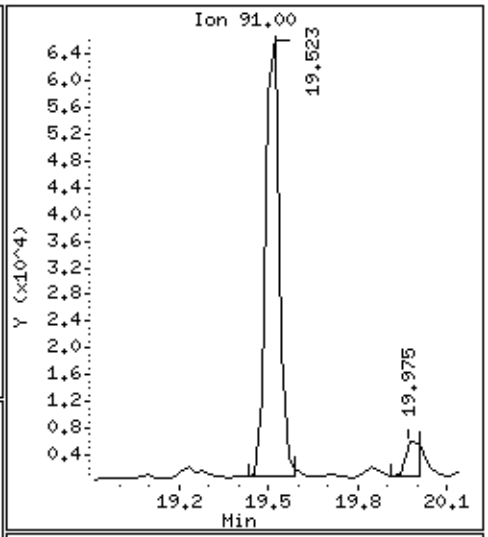
Concentration: 36.884 PPBV

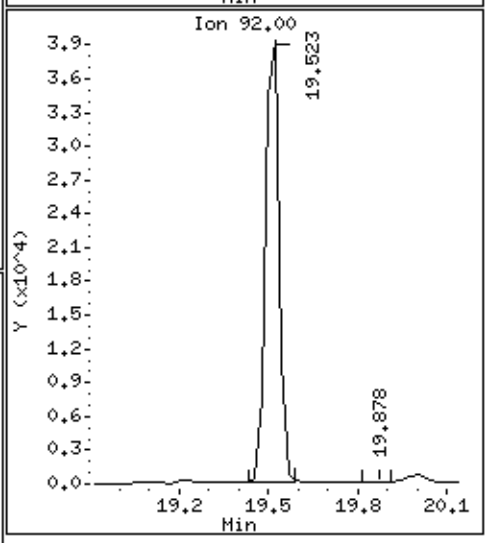


Data File: /chem/msda.i/01Sep2011.b/a090110.d

Date : 01-SEP-2011 15:39

Client ID:

Instrument: msda.i

Sample Info: 12.5mL #12045

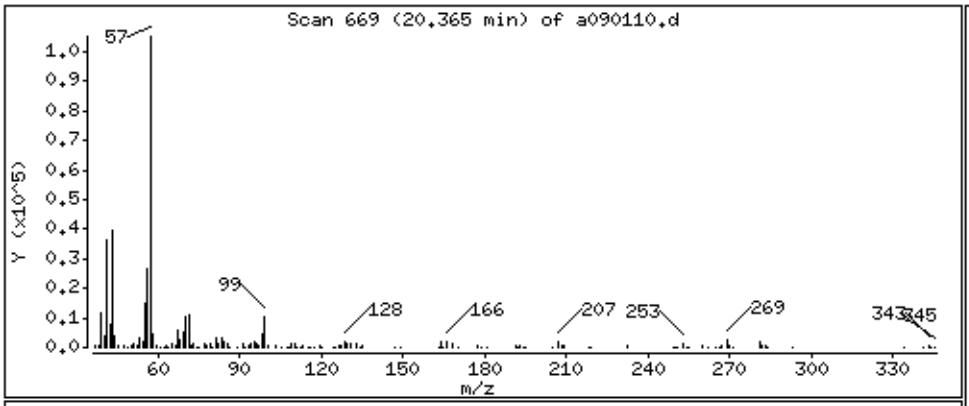
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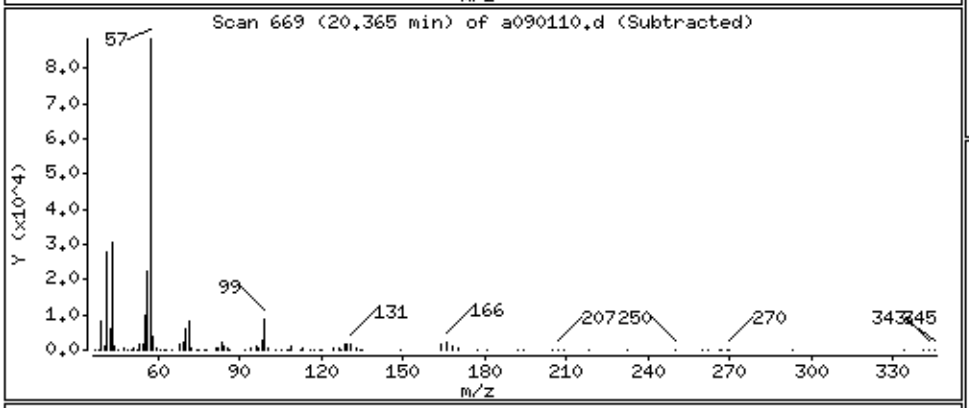
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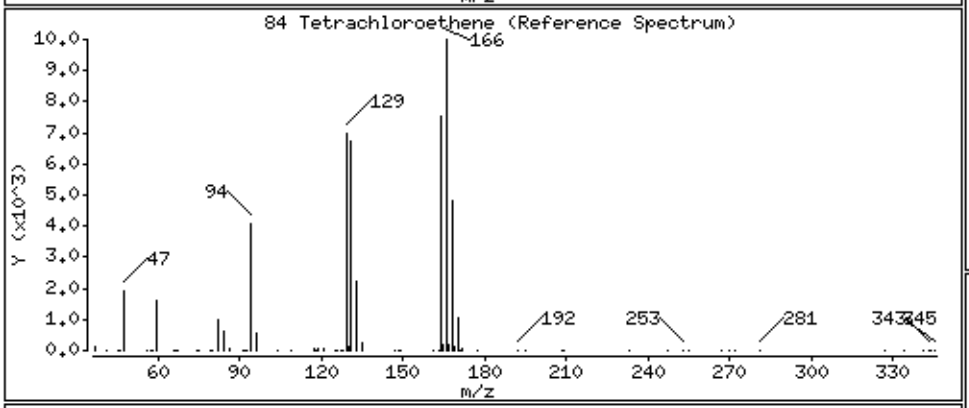
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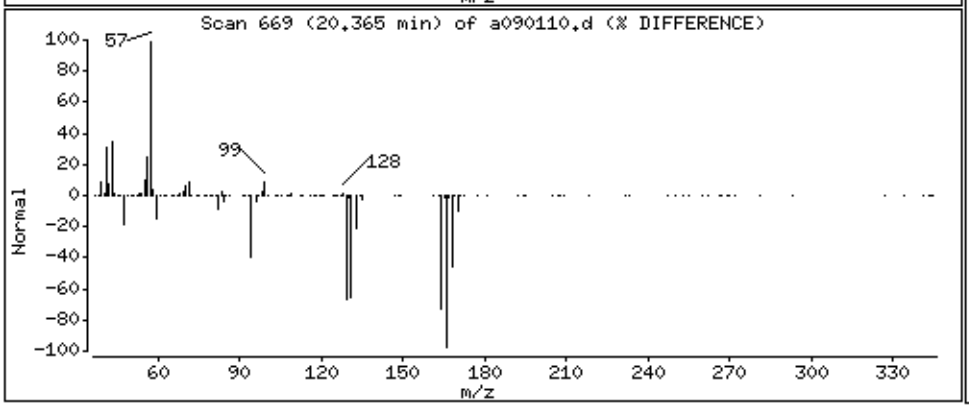
84 Tetrachloroethene

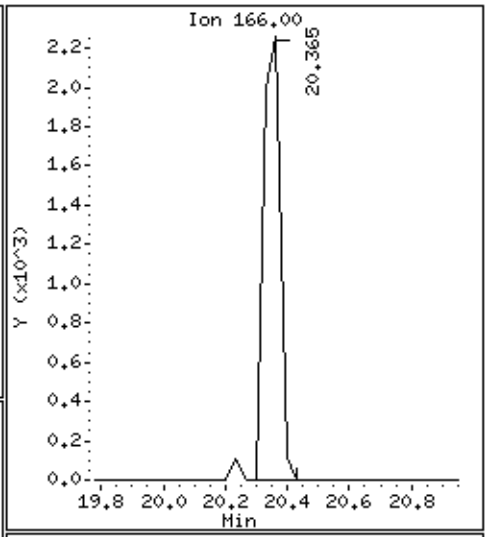
Concentration: 3.384 PPBV

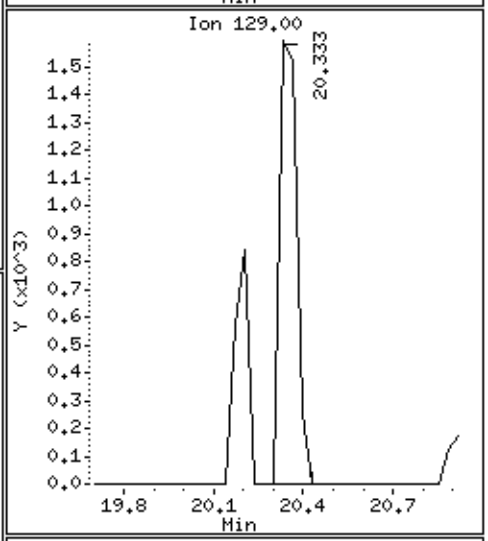


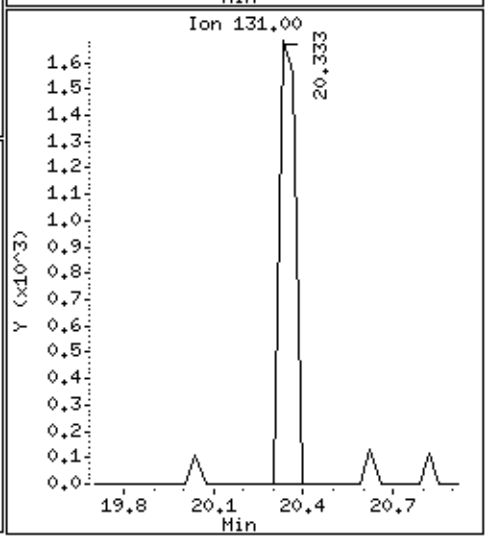



Data File: /chem/msda.i/01Sep2011.b/a090110.d

Date : 01-SEP-2011 15:39

Client ID:

Instrument: msda.i

Sample Info: 12.5mL #12045

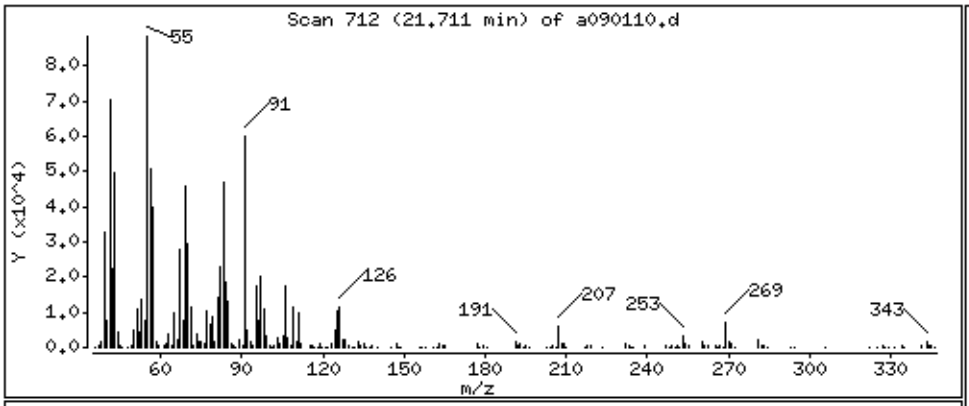
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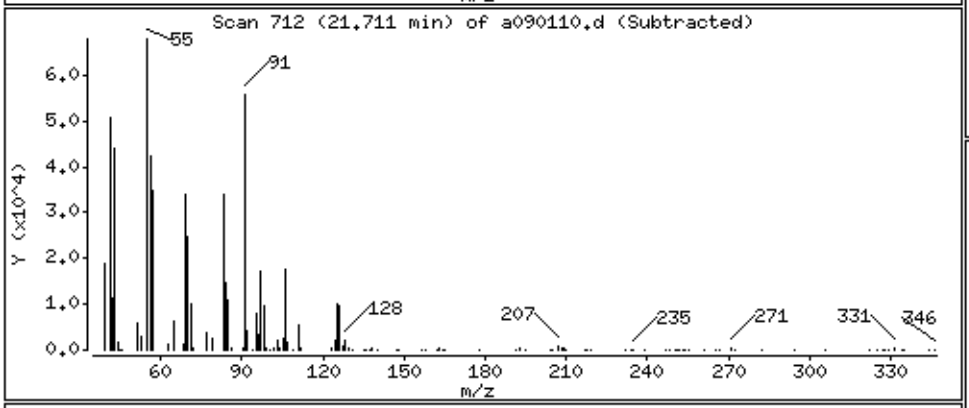
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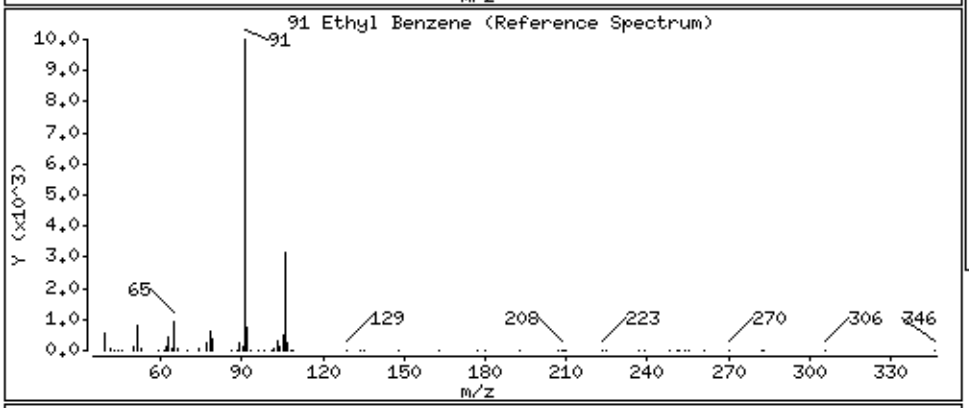
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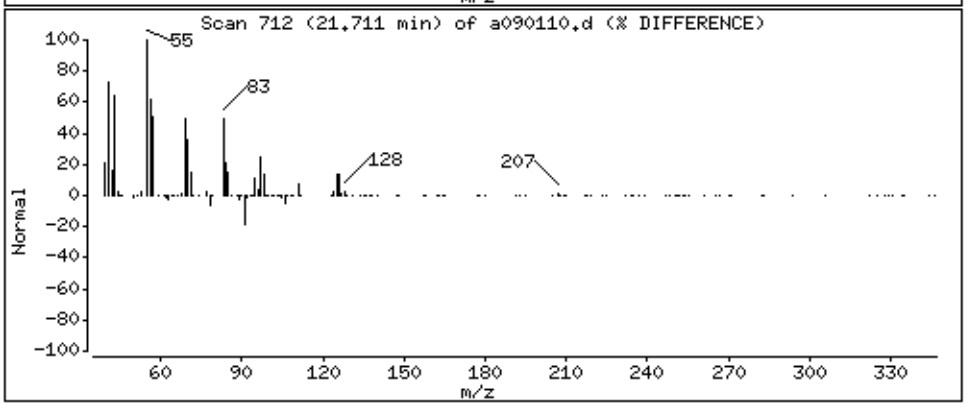
91 Ethyl Benzene

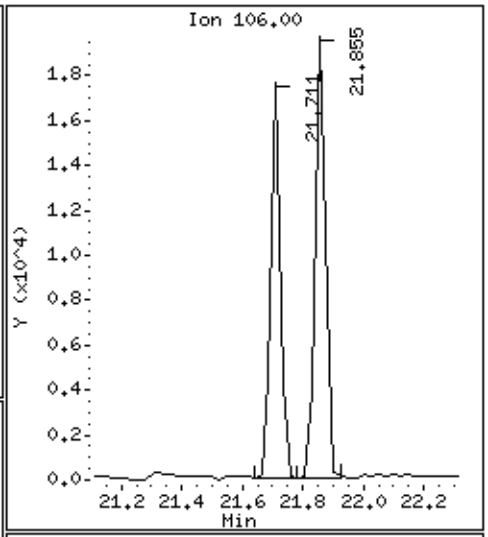
Concentration: 16.903 PPBV

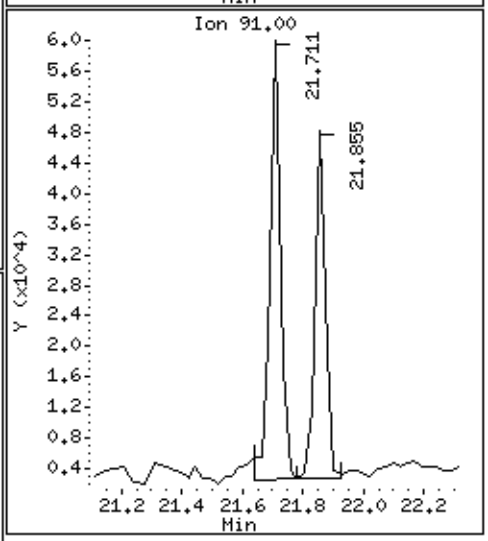


Data File: /chem/msda.i/01Sep2011.b/a090110.d

Date : 01-SEP-2011 15:39

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Instrument: msda.i

Sample Info: 12.5mL #12045

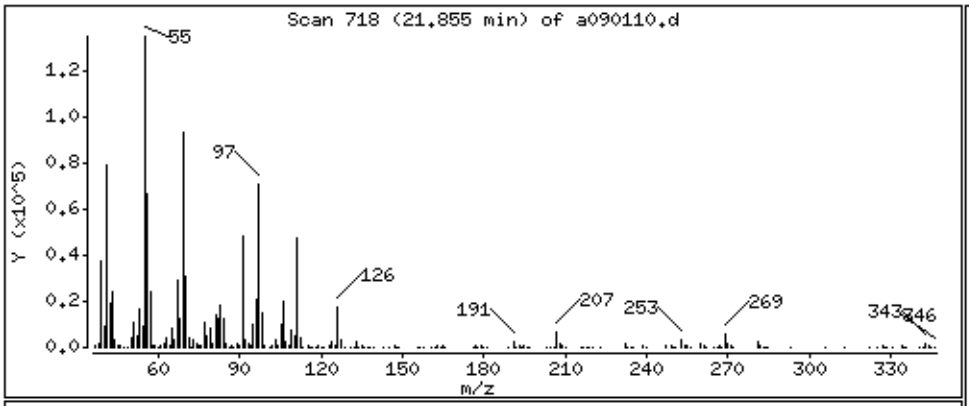
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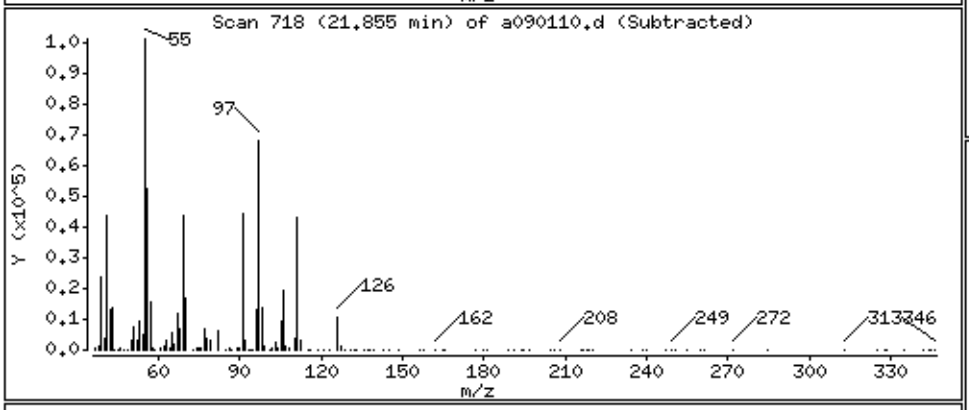
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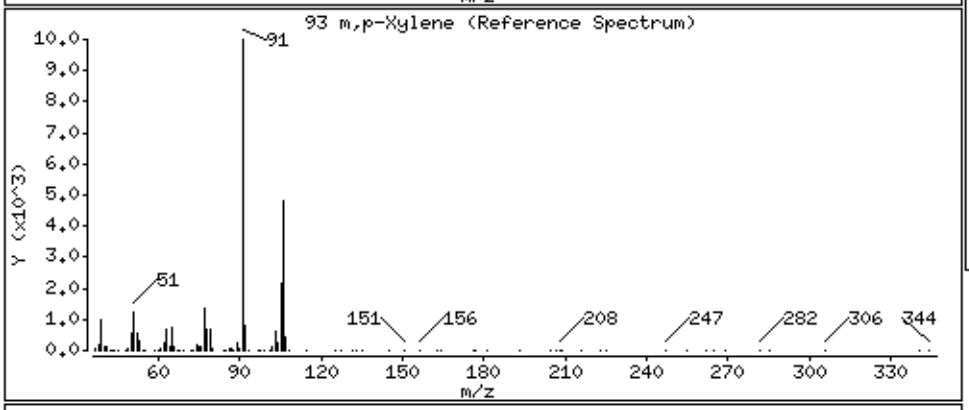
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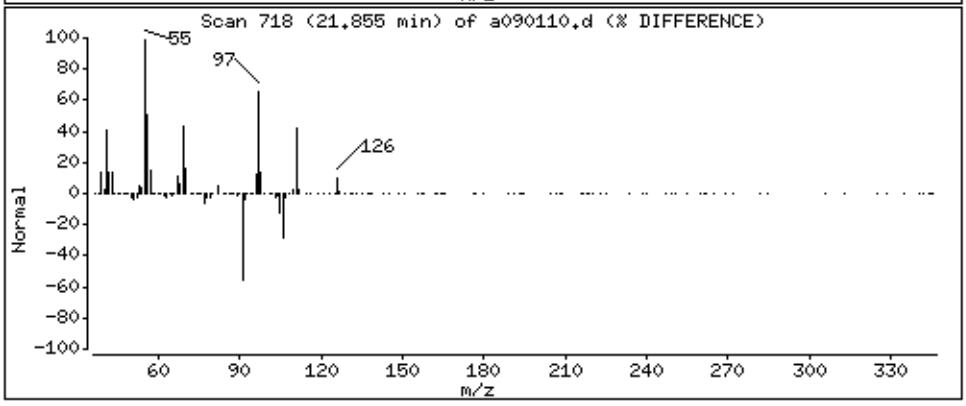
93 m,p-Xylene

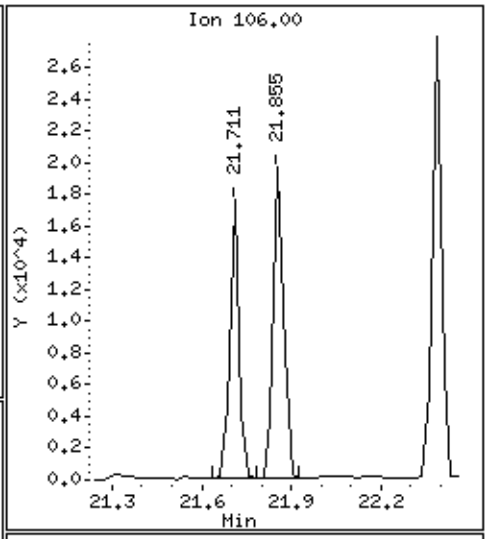
Concentration: 18.393 PPBV

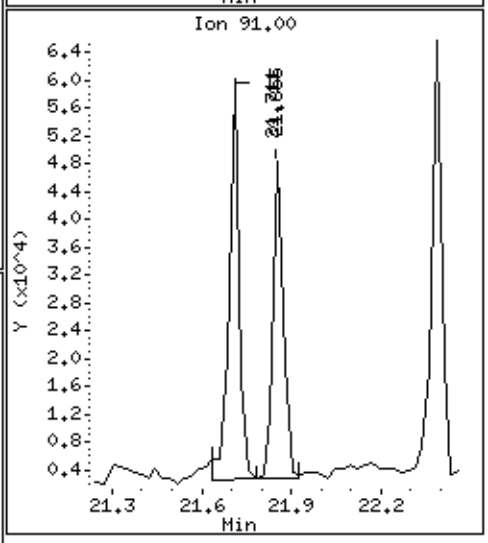


Data File: /chem/msda.i/01Sep2011.b/a090110.d

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Sample Info: 12.5mL #12045

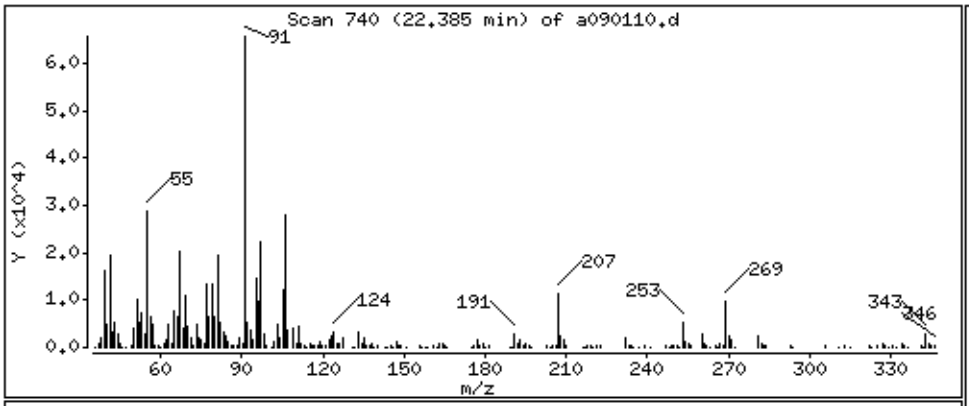
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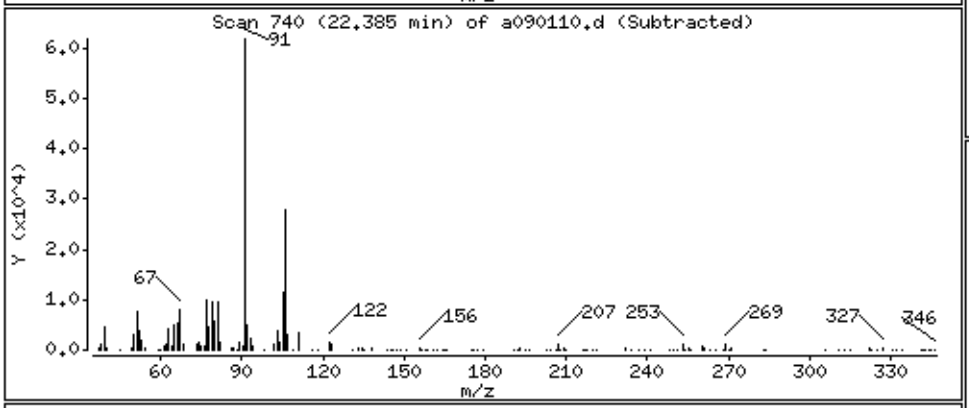
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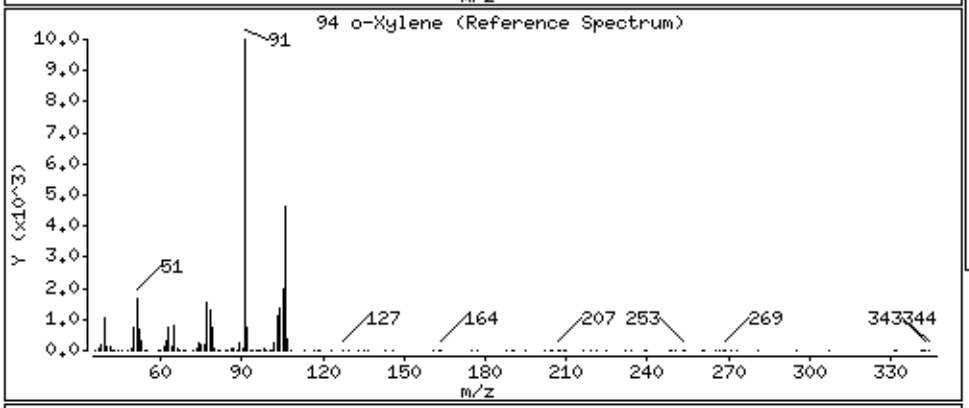
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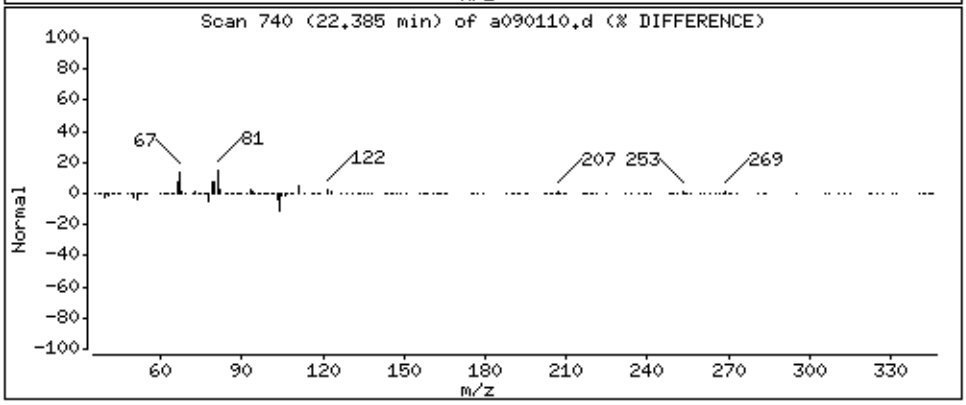
94 o-Xylene

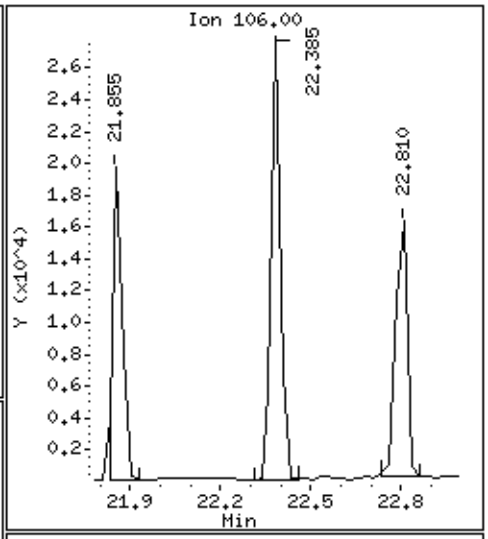
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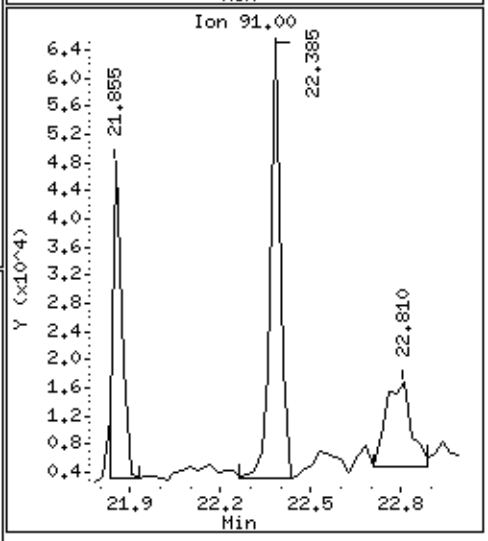


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Sample Info: 12.5mL #12045

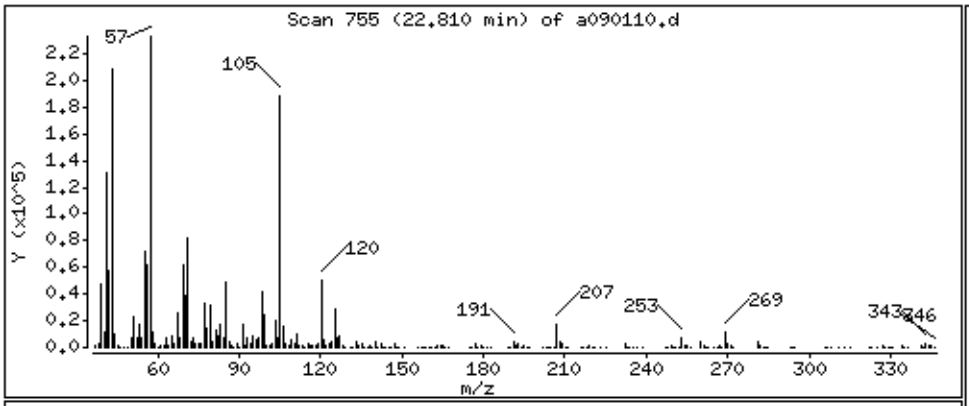
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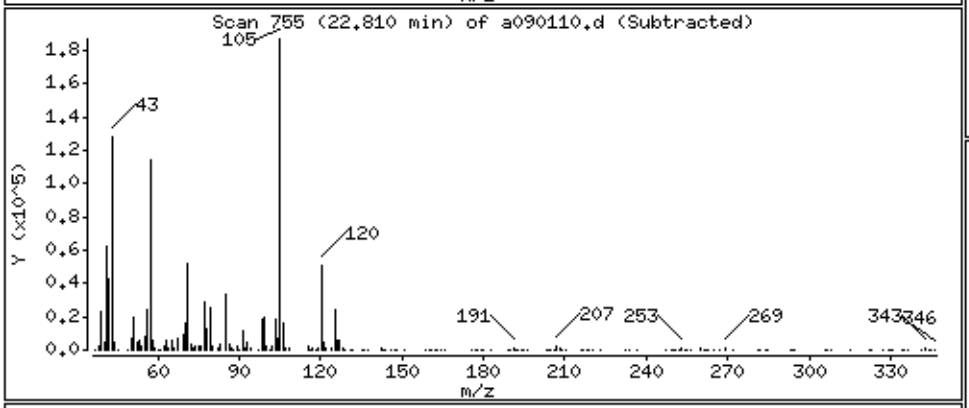
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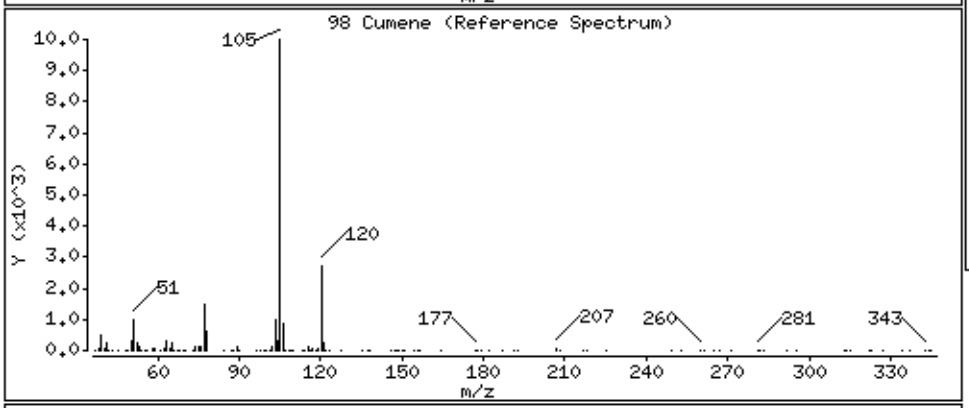
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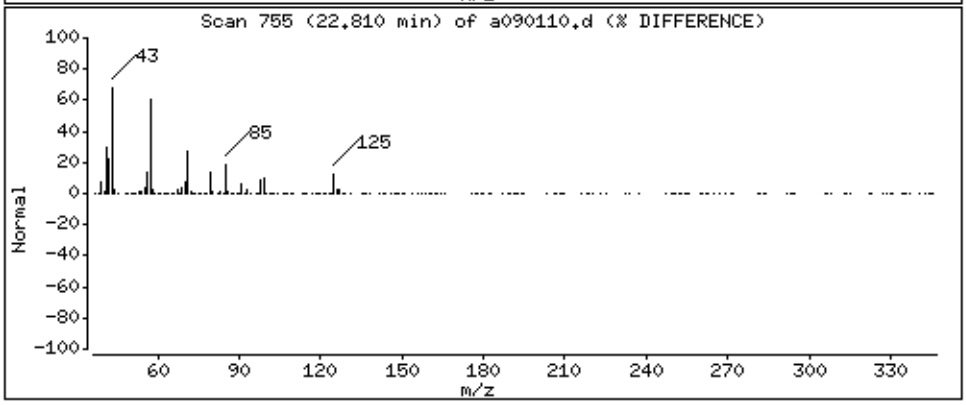
98 Cumene

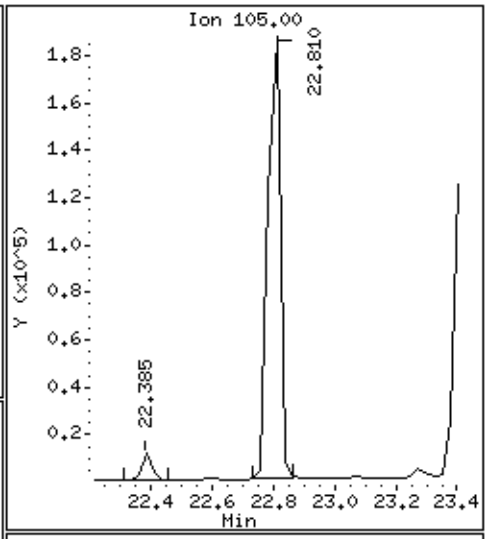
Concentration: 68.168 PPBV

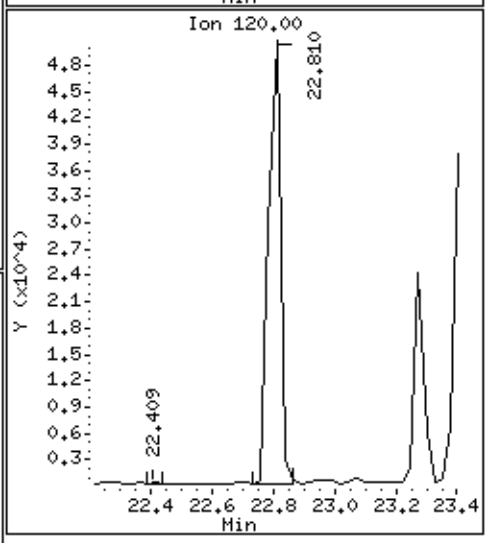


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Sample Info: 12.5mL #12045

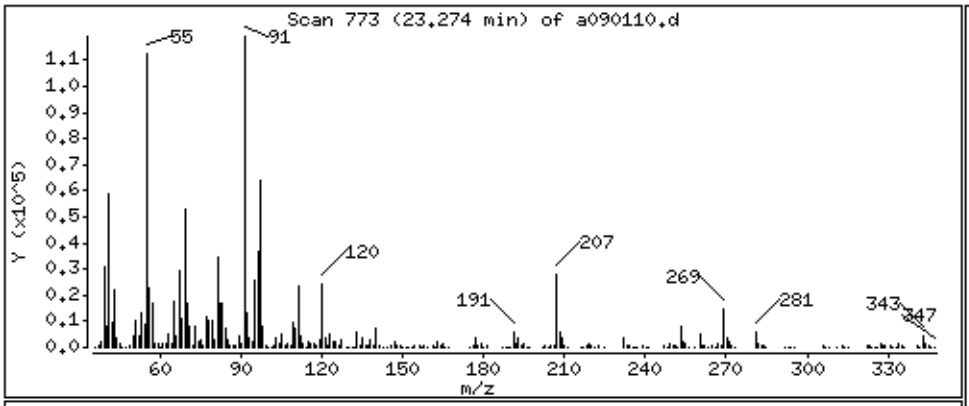
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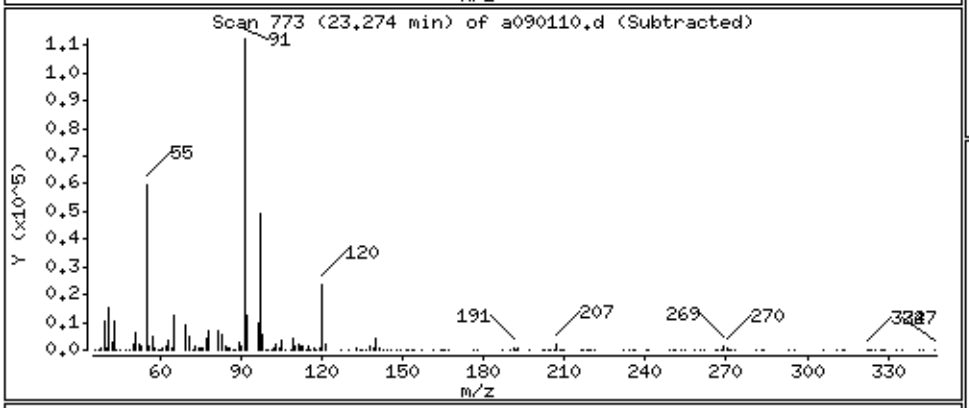
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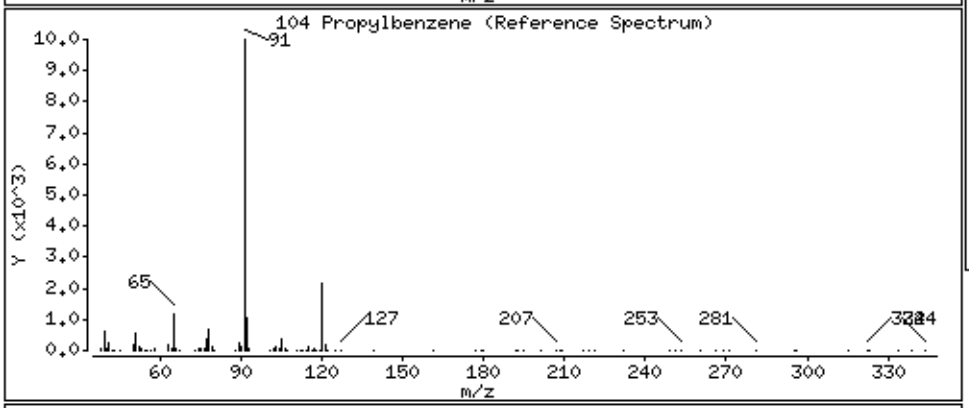
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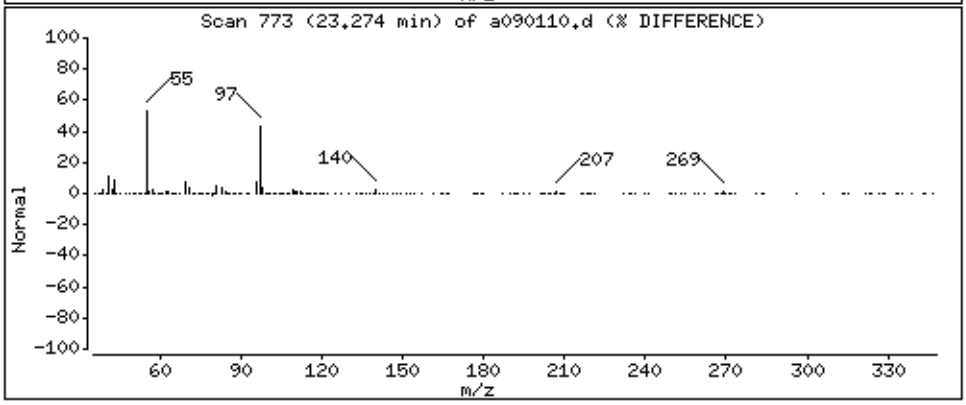
104 Propylbenzene

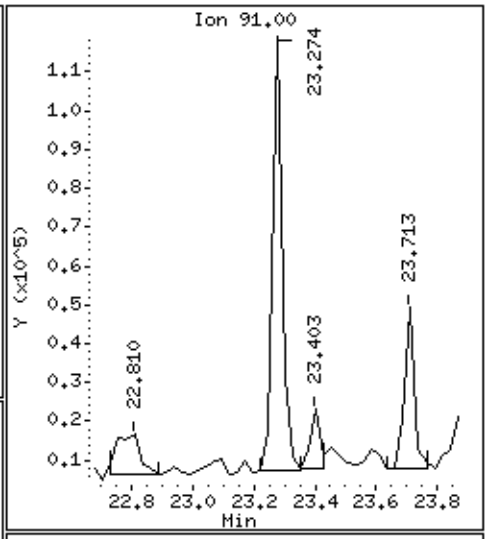
Concentration: 31.258 PPBV

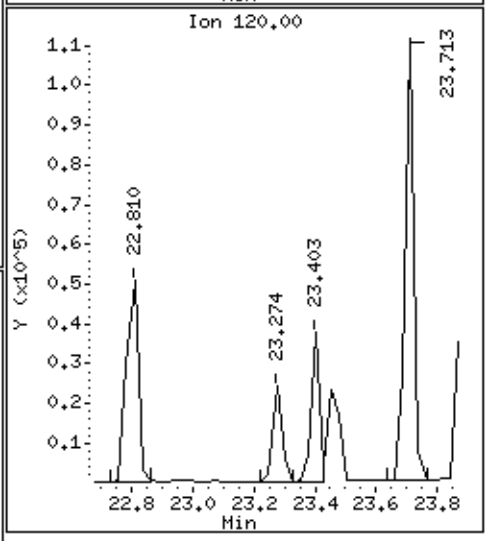


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Sample Info: 12.5mL #12045

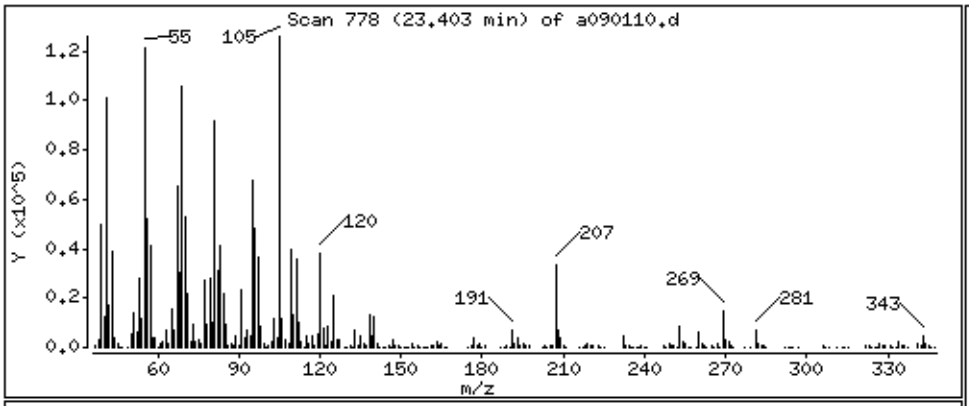
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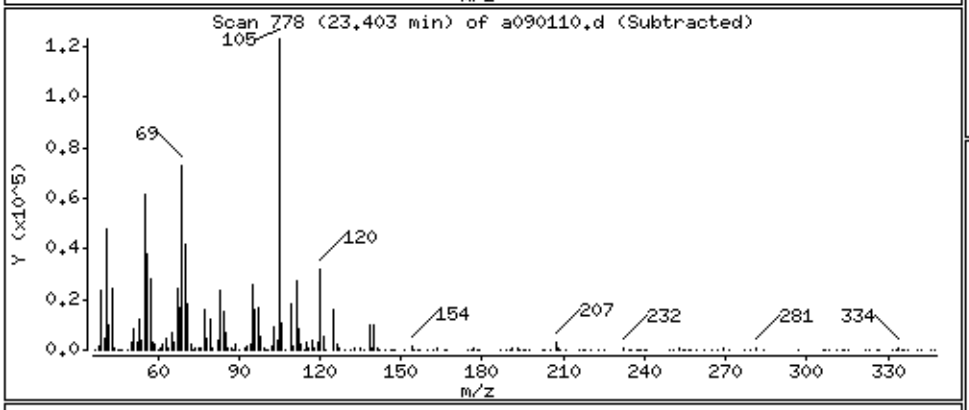
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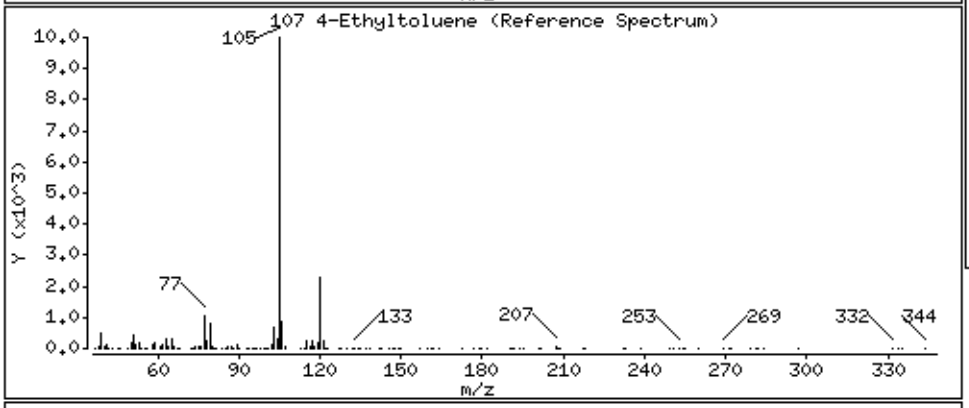
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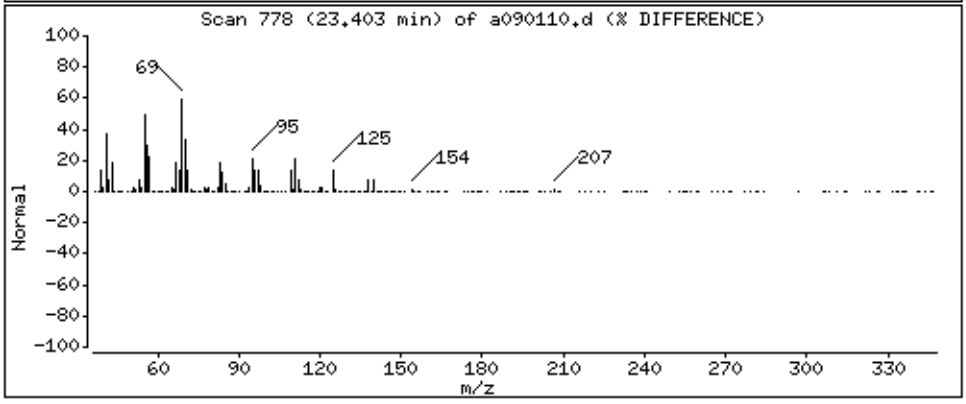
107 4-Ethyltoluene

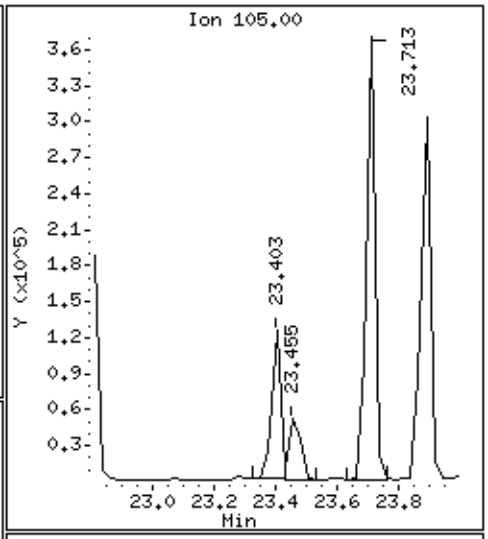
Concentration: 35.780 PPBV

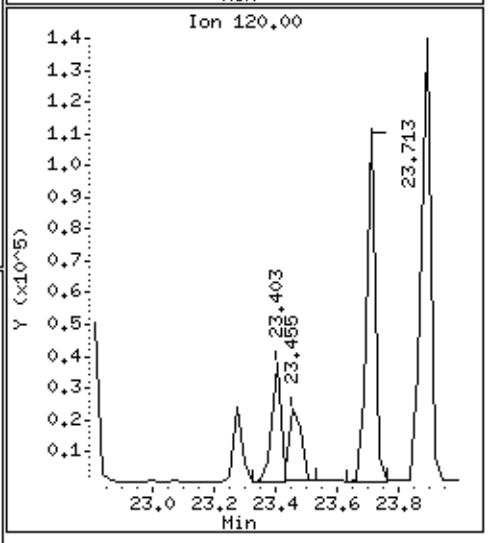


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Sample Info: 12.5mL #12045

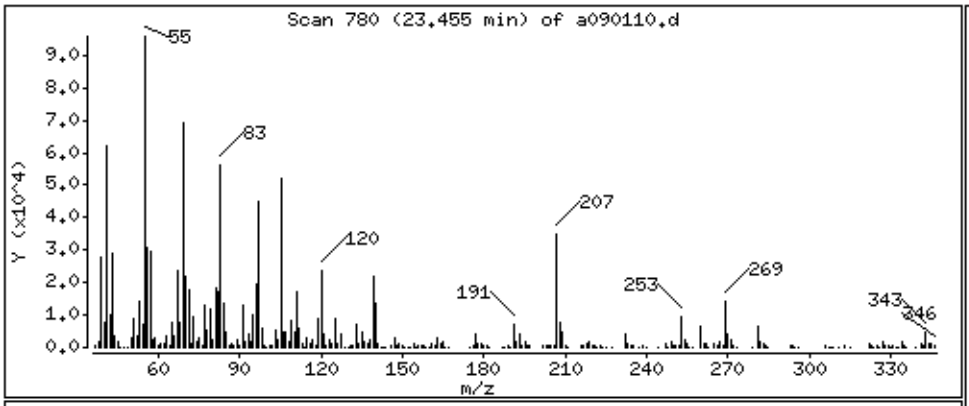
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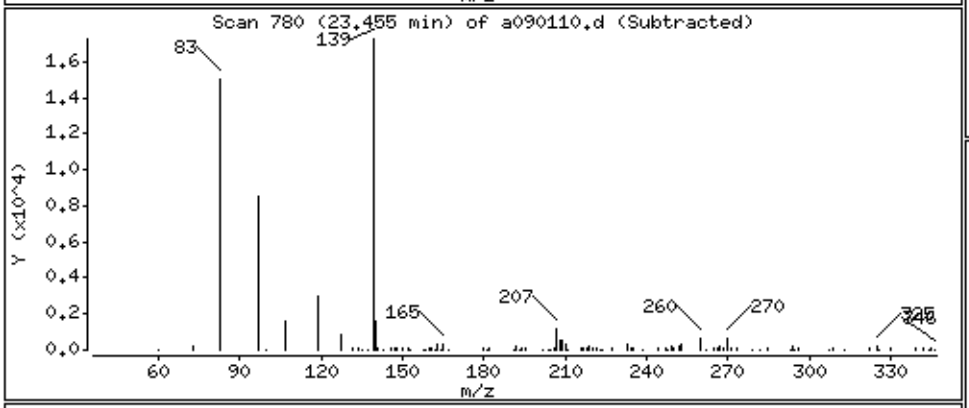
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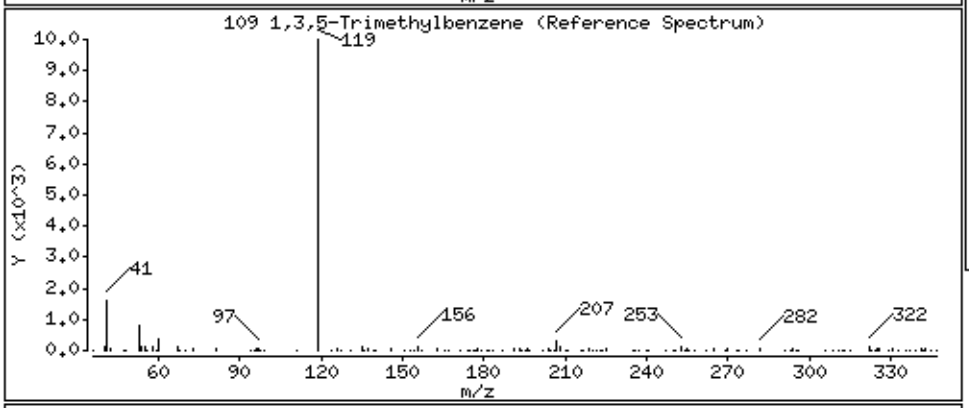
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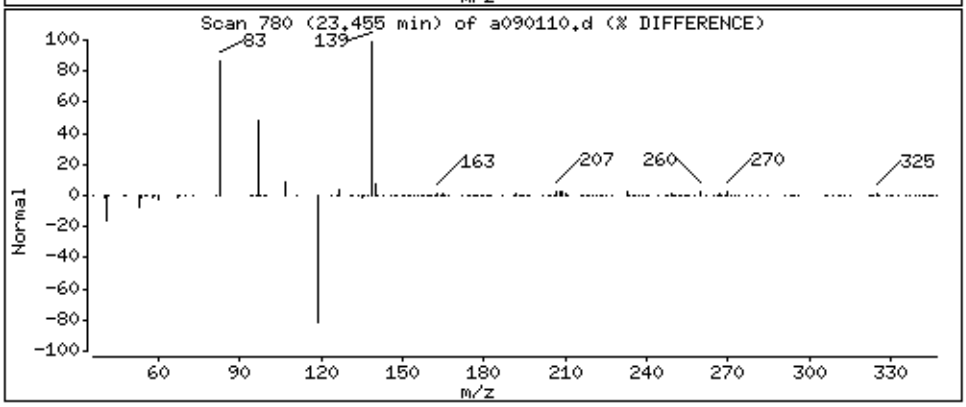
109 1,3,5-Trimethylbenzene

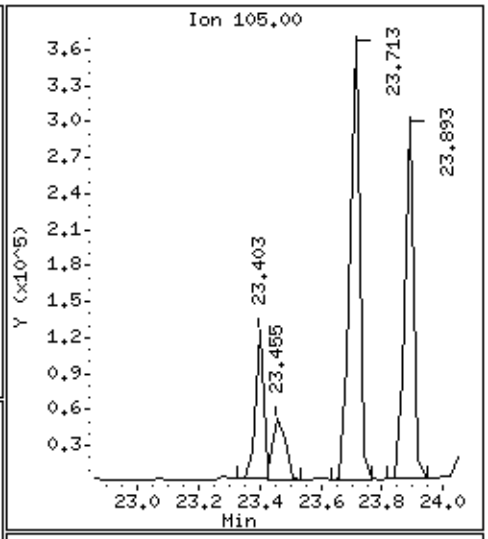
Concentration: 26.678 PPBV

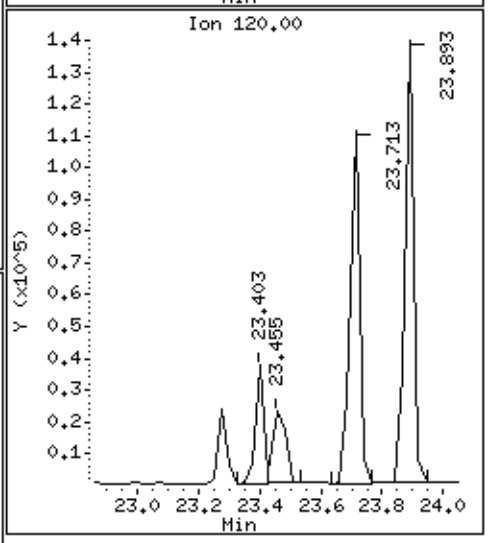


Data File: /chem/msda.i/01Sep2011.b/a090110.d

Date : 01-SEP-2011 15:39

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Sample Info: 12.5mL #12045

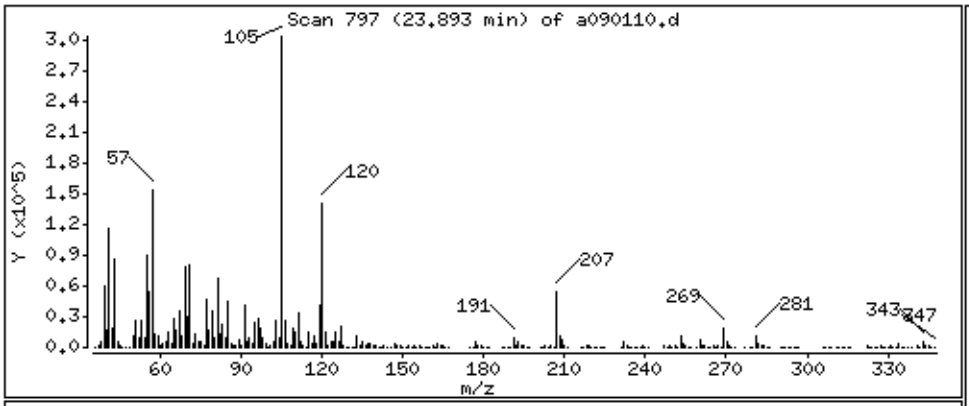
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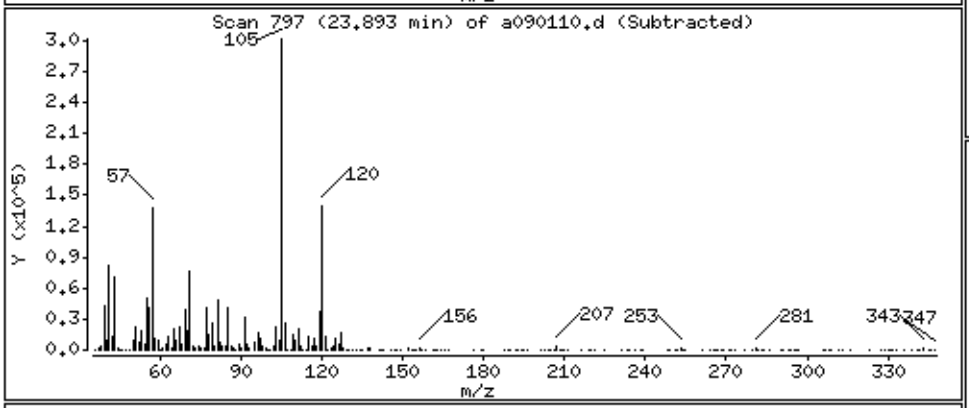
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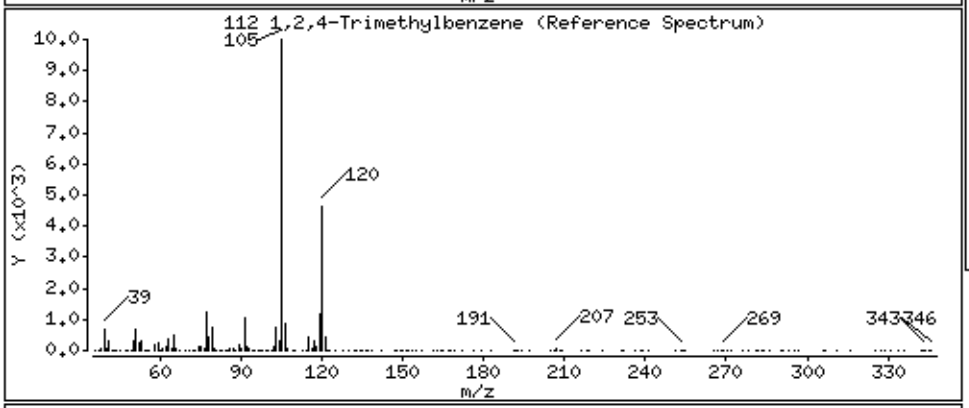
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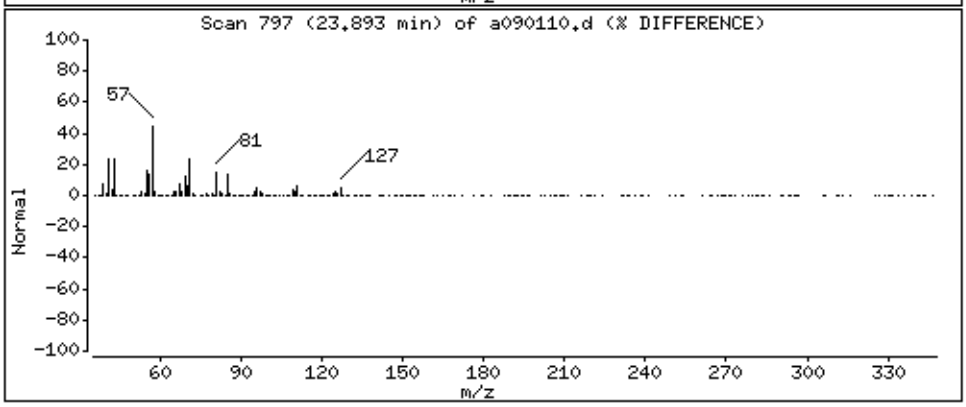
112 1,2,4-Trimethylbenzene

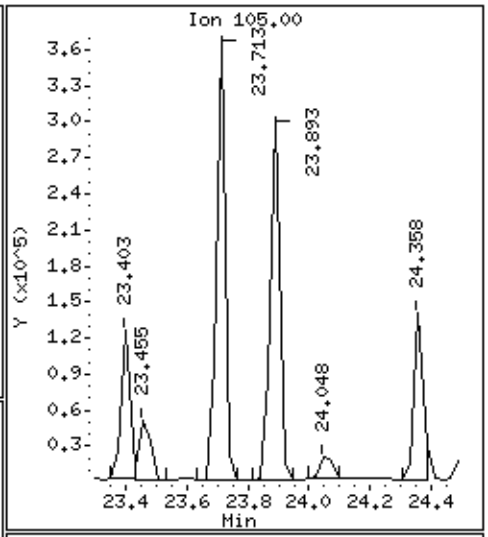
Concentration: 123.48 PPBV

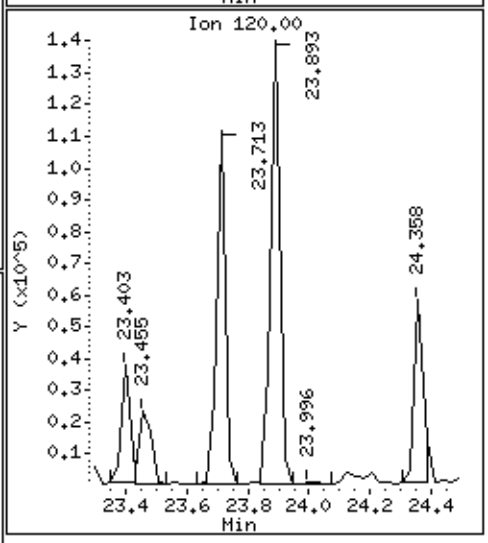


Data File: /chem/msda.i/01Sep2011.b/a090110.d

Date : 01-SEP-2011 15:39

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Sample Info: 12.5mL #12045

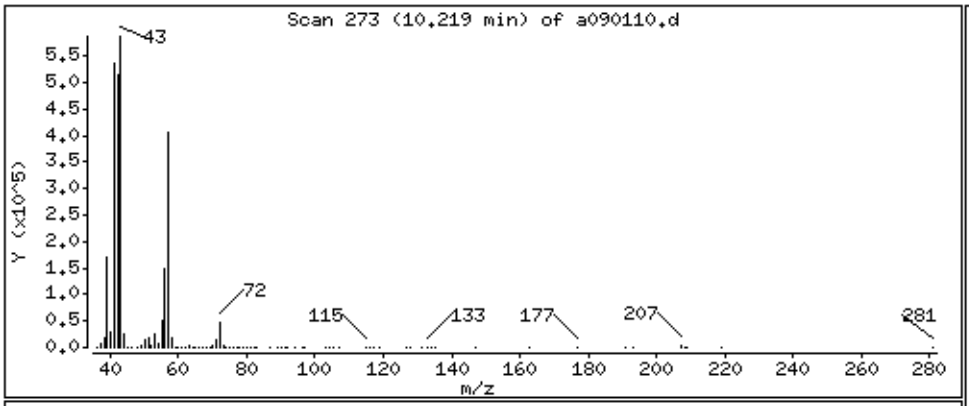
Operator: jc

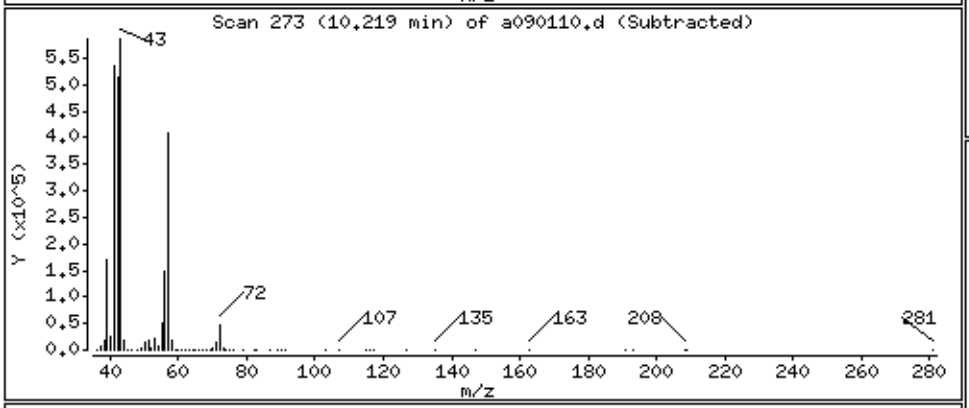
Column phase: RTx-624

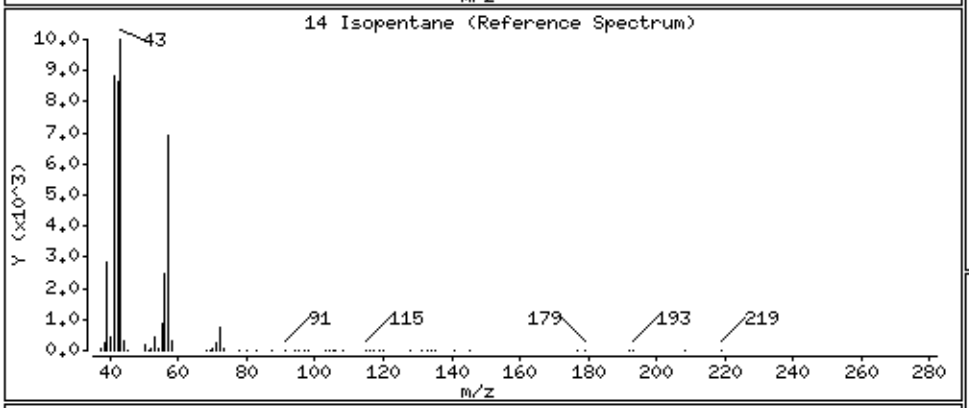
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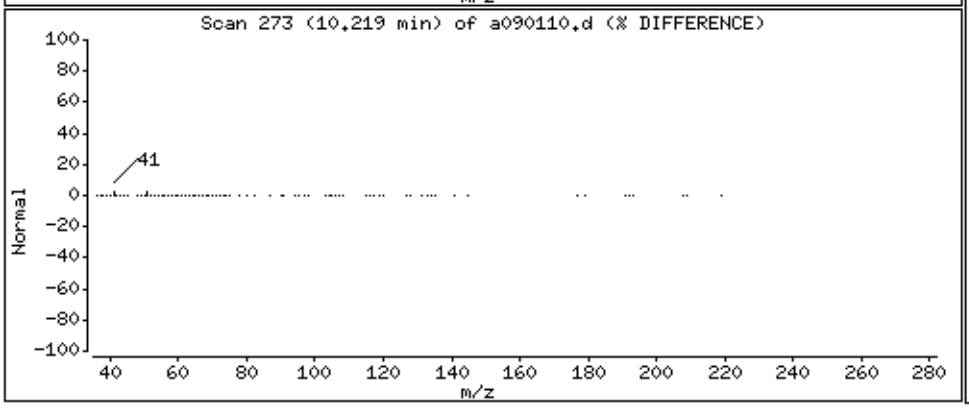
14 Isopentane

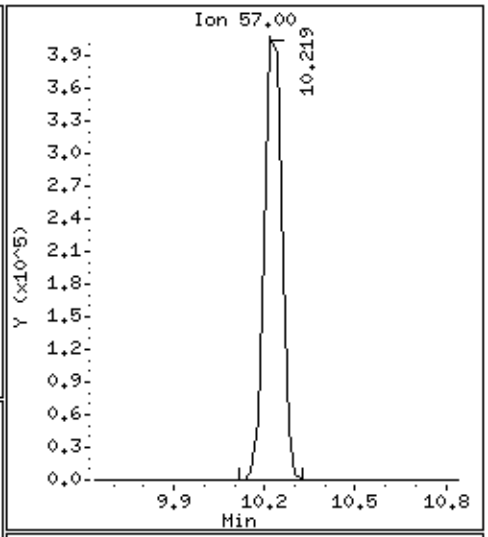
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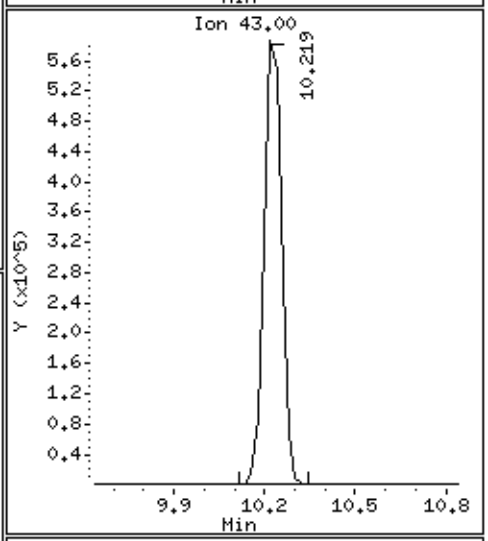


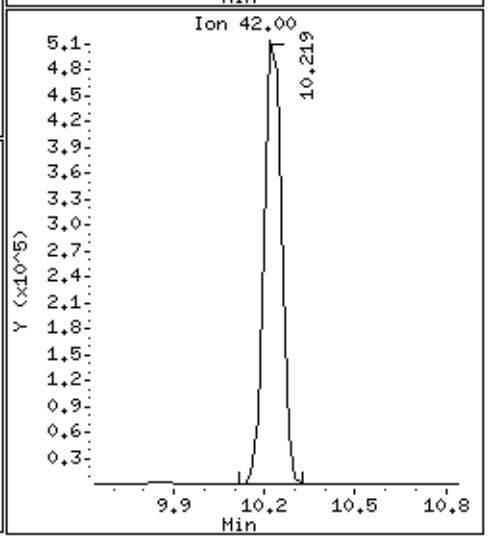



Data File: /chem/msda.i/01Sep2011.b/a090110.d

Date : 01-SEP-2011 15:39

Client ID:

Instrument: msda.i

Sample Info: 12.5mL #12045

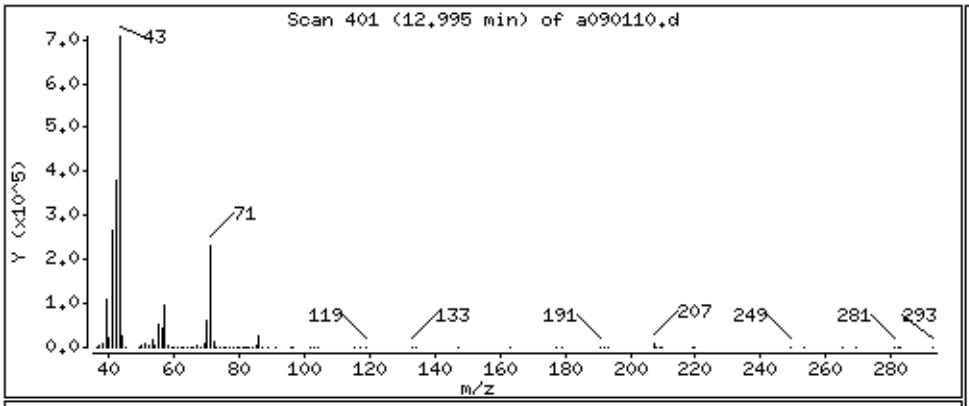
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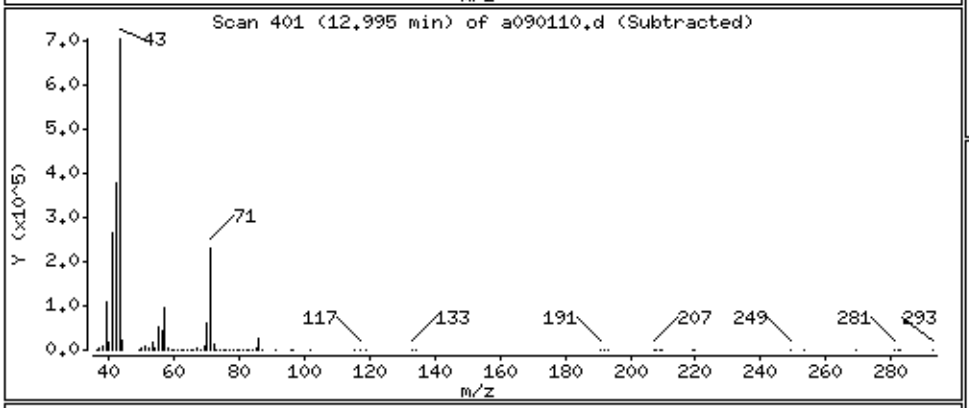
Column phase: RTx-624

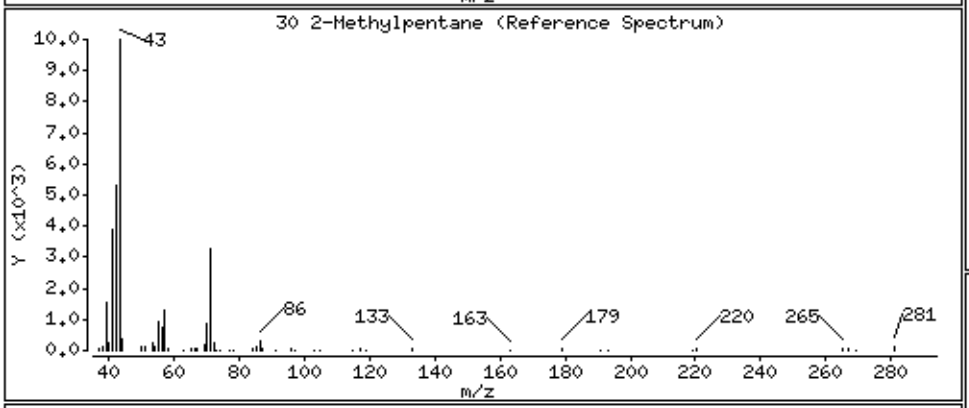
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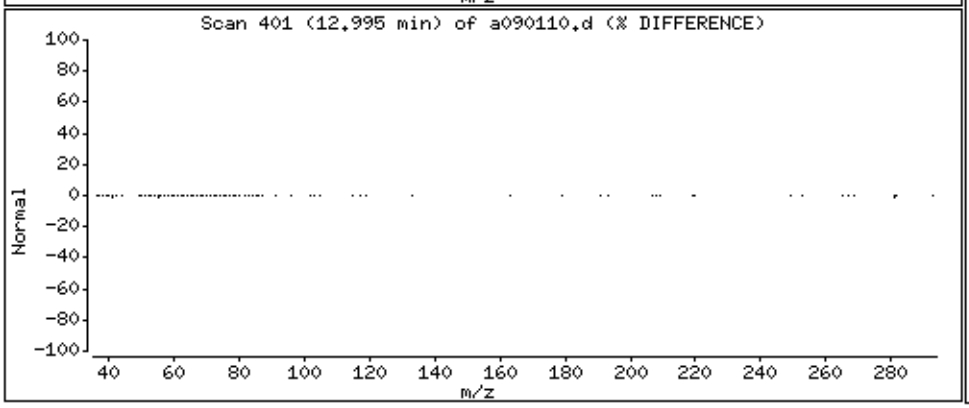
30 2-Methylpentane

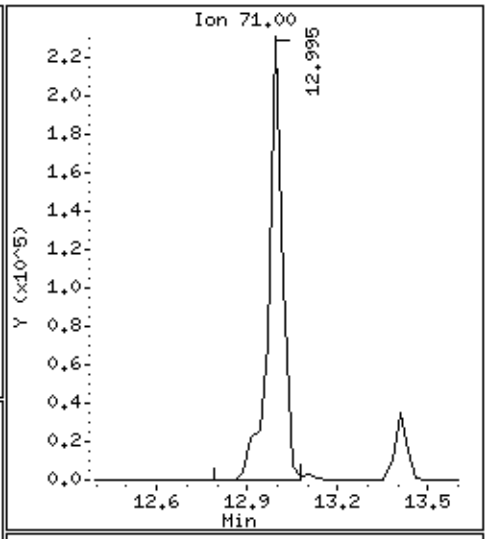
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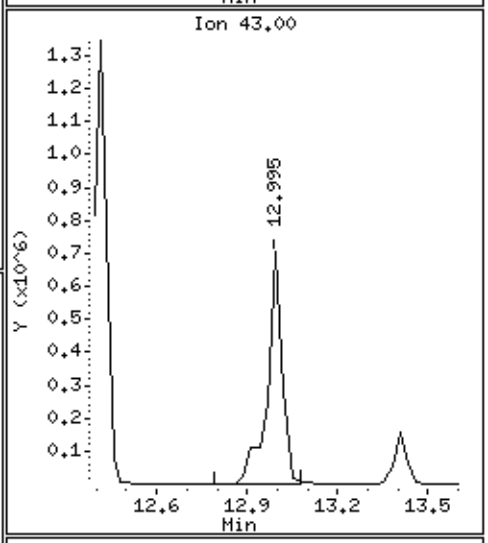


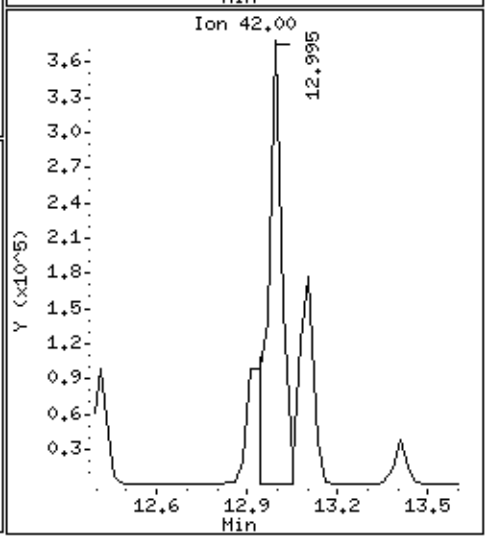



Data File: /chem/msda.i/01Sep2011.b/a090110.d

Date : 01-SEP-2011 15:39

Client ID:

Instrument: msda.i

Sample Info: 12.5mL #12045

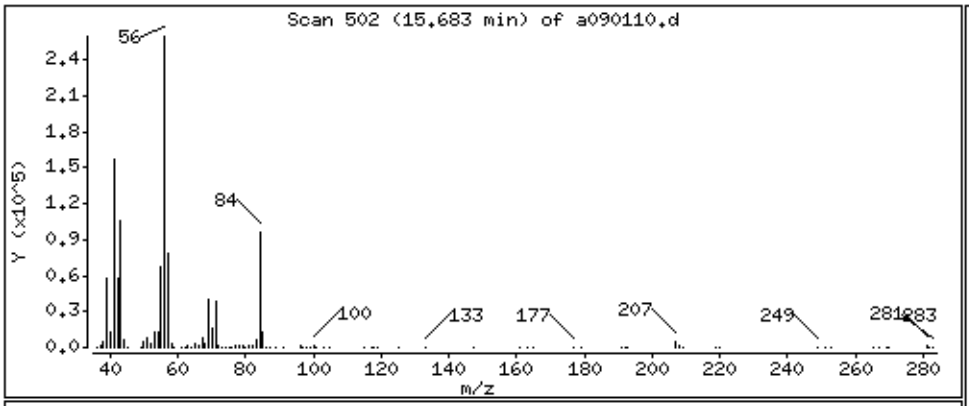
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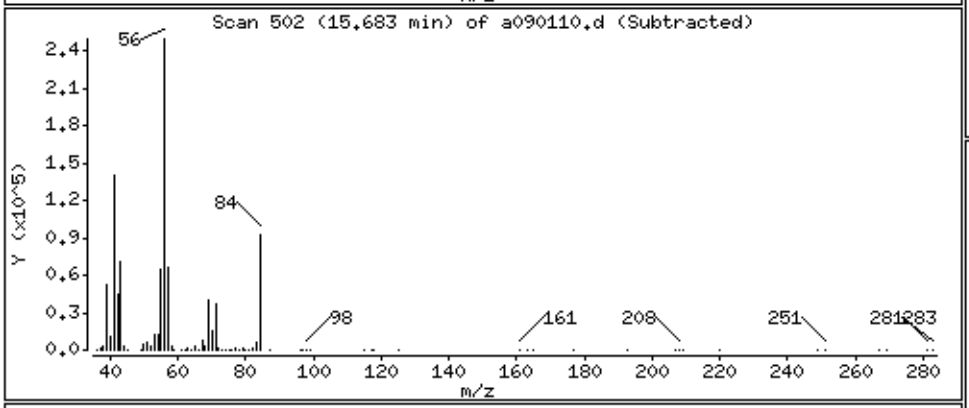
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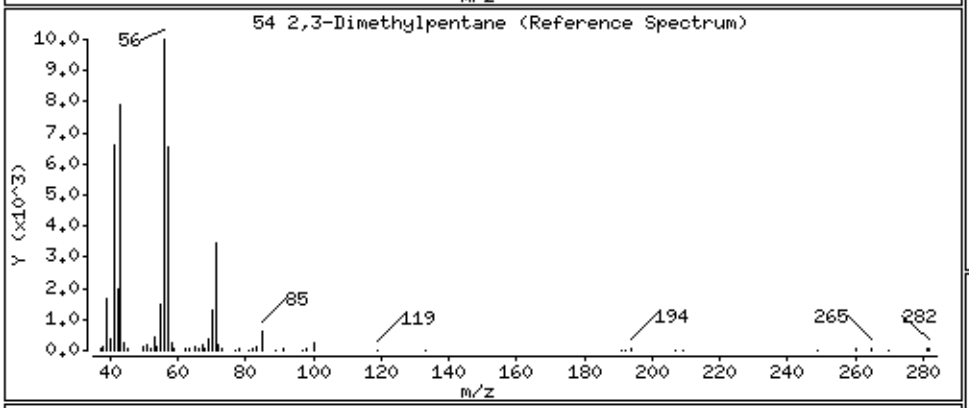
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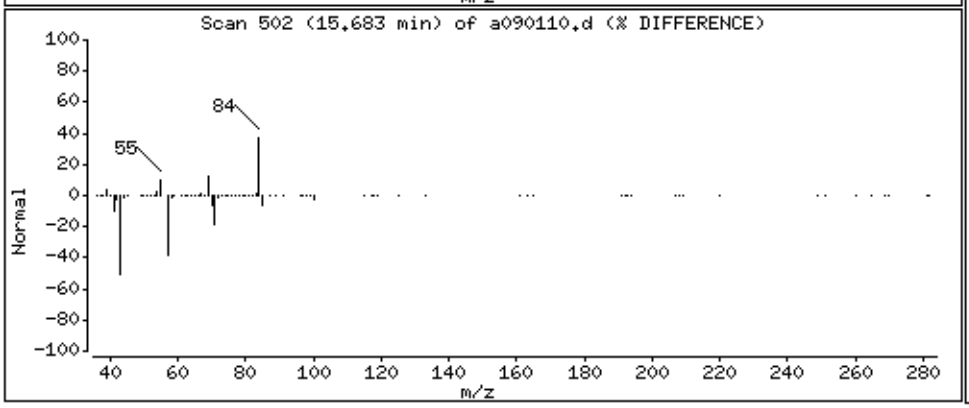
54 2,3-Dimethylpentane

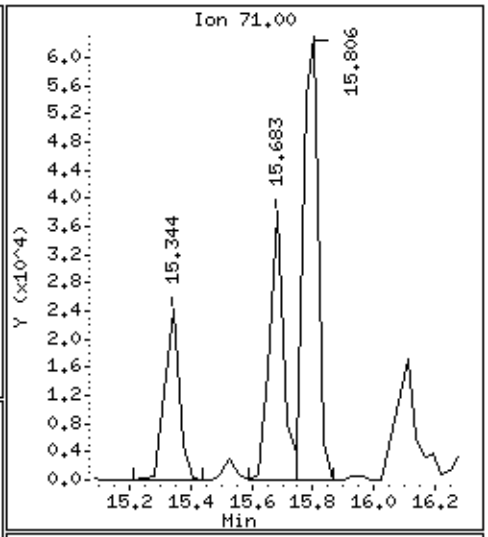
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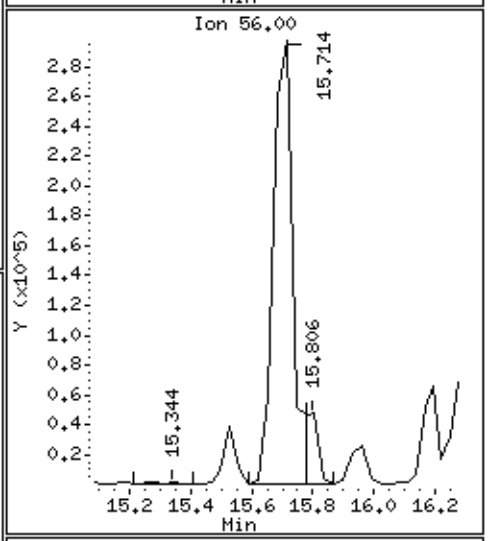


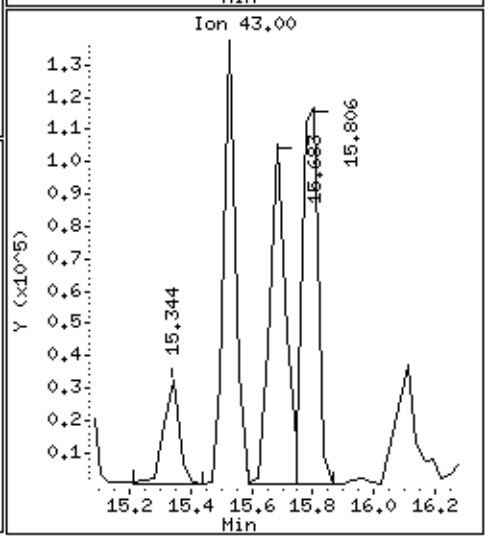



Data File: /chem/msda.i/01Sep2011.b/a090110.d

Date : 01-SEP-2011 15:39

Client ID:

Instrument: msda.i

Sample Info: 12.5mL #12045

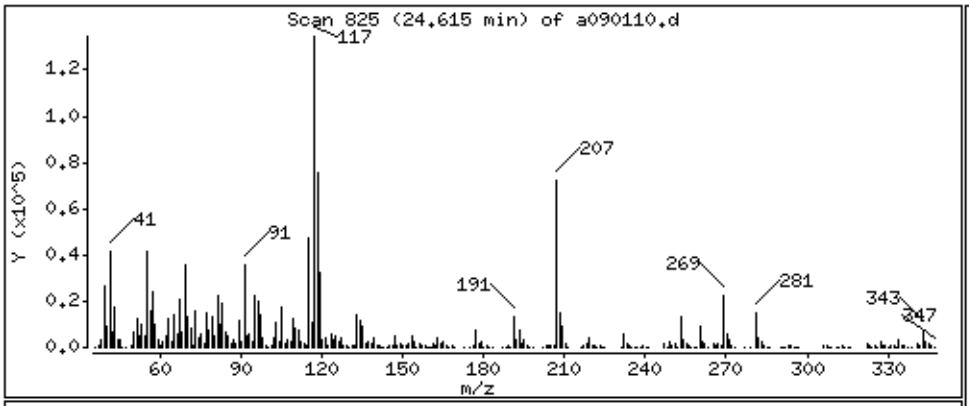
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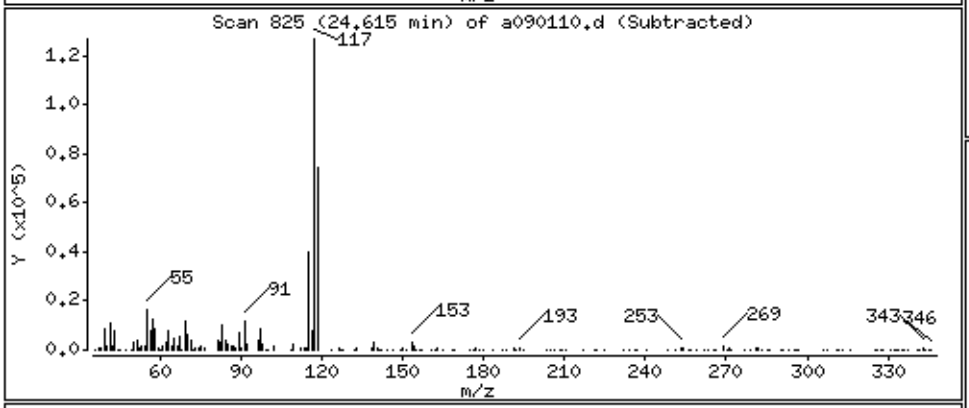
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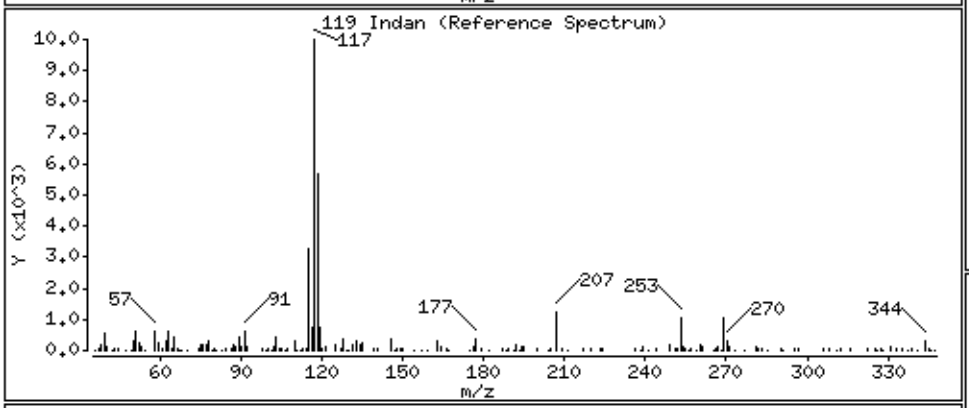
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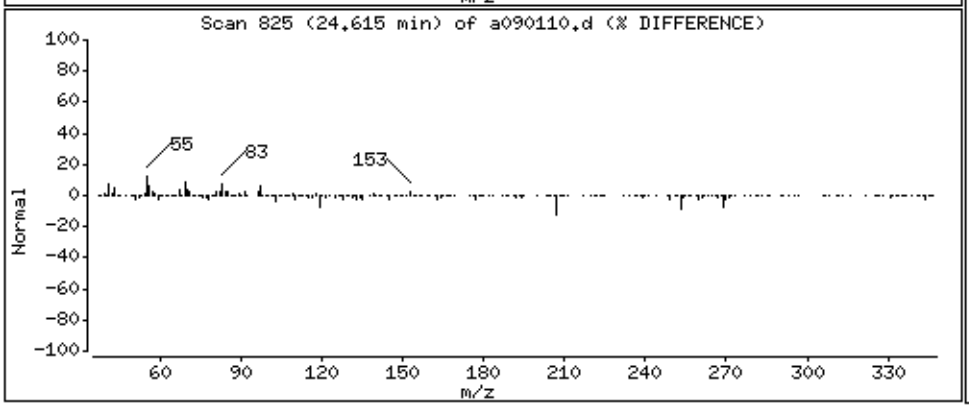
119 Indan

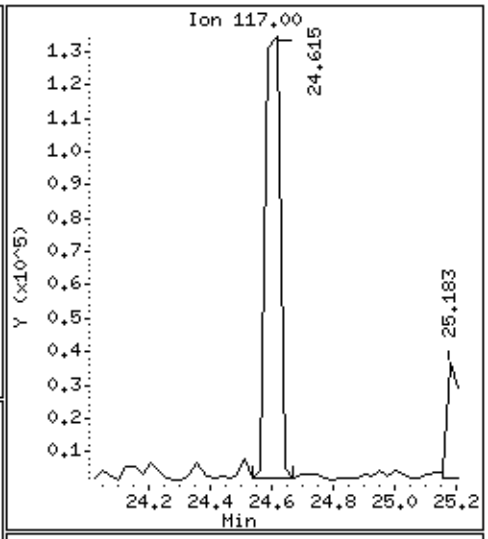
Concentration: 223.84 PPBV

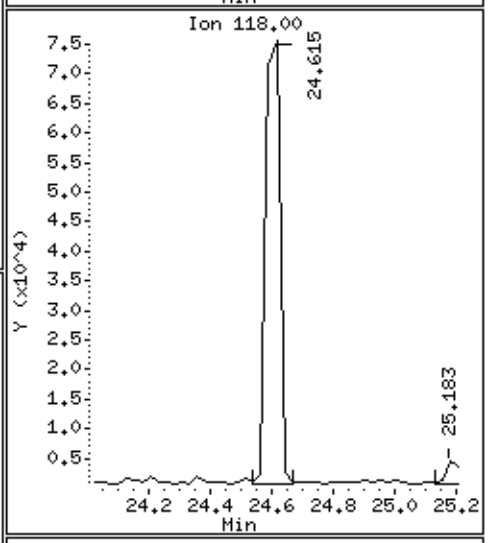


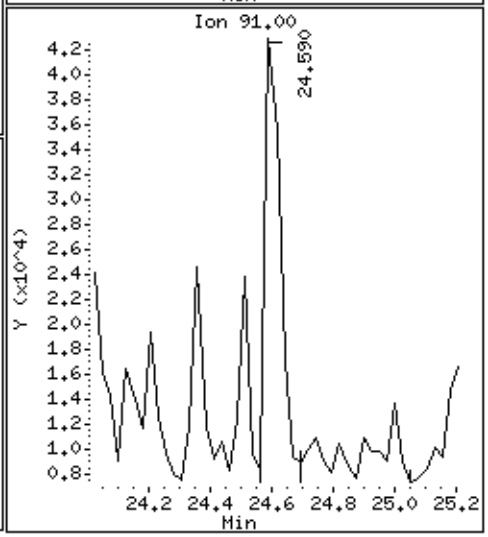



Data File: /chem/msda.i/01Sep2011.b/a090110.d

Date : 01-SEP-2011 15:39

Client ID:

Instrument: msda.i

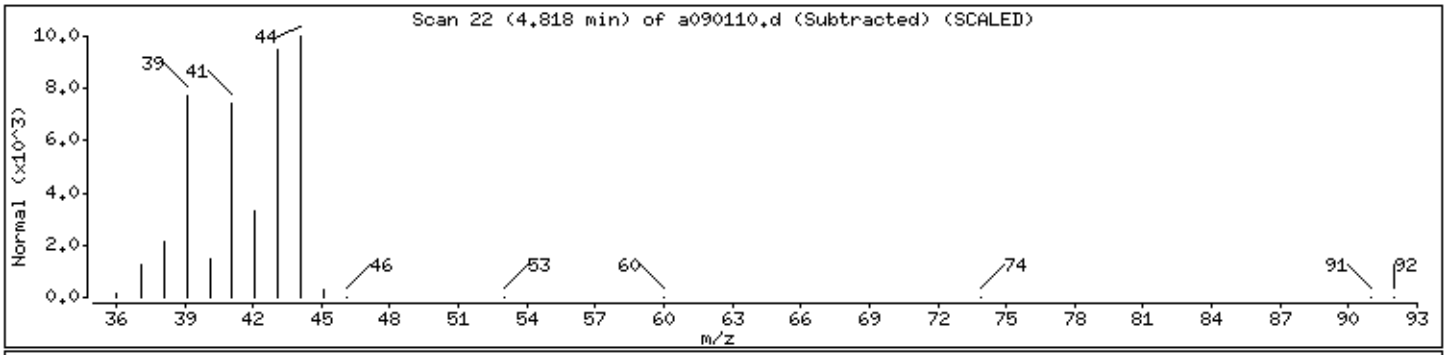
Sample Info: 12.5mL #12045

Operator: jc

Column phase: RTx-624

Column diameter: 0.32

| Library Search Compound Match | CAS Number | Library | Entry | Quality | Formula | Weight |
|---|---|---|---|---|---|---|
| Unknown | | | 0 | 0 | | 0 |



Data File: /chem/msda.i/01Sep2011.b/a090110.d

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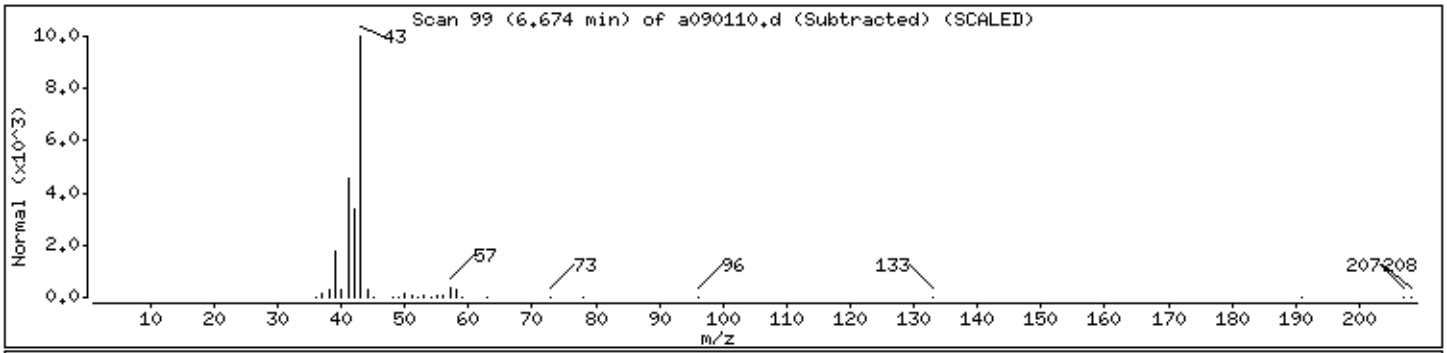
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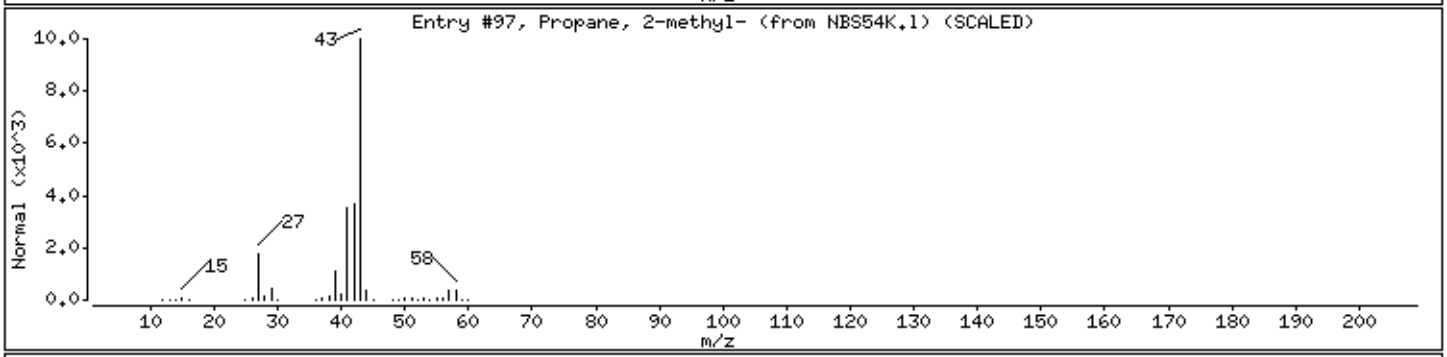
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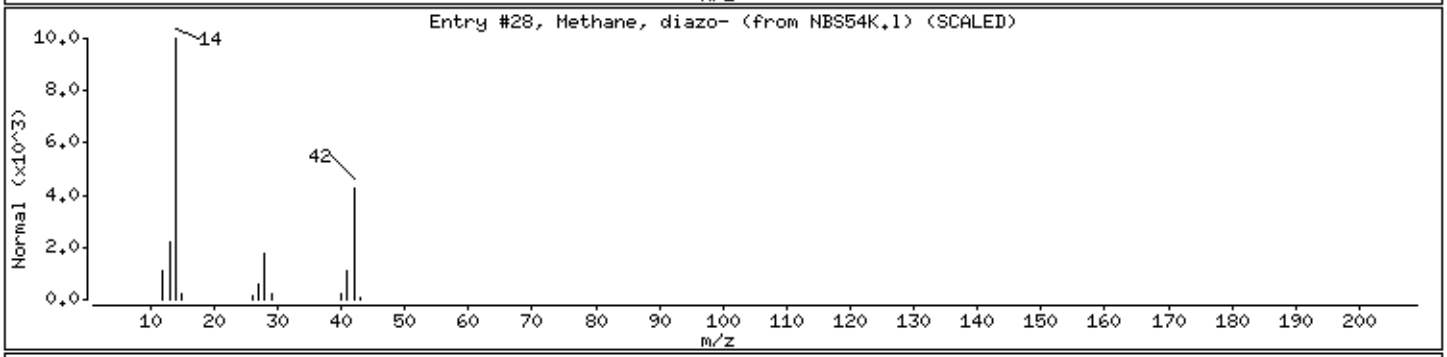
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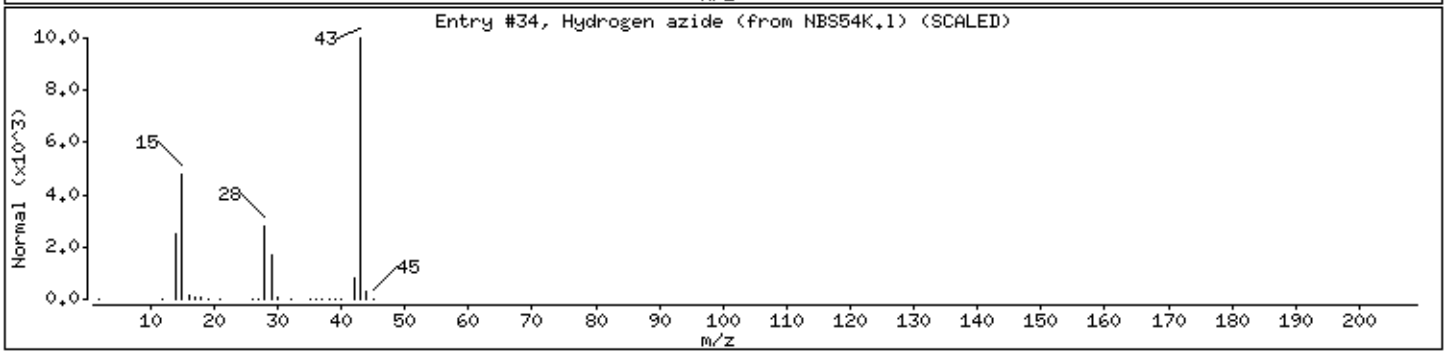
Column diameter: 0.32

| Library Search Compound Match | CAS Number | Library | Entry | Quality | Formula | Weight |
|---|---|---|---|---|---|---|
| Propane, 2-methyl- | 75-28-5 | NBS54K.l | 97 | 59 | C4H10 | 58 |
| Methane, diazo- | 334-88-3 | NBS54K.l | 28 | 3 | CH2N2 | 42 |
| Hydrogen azide | 7782-79-8 | NBS54K.l | 34 | 2 | HN3 | 43 |



Data File: /chem/msda.i/01Sep2011.b/a090110.d

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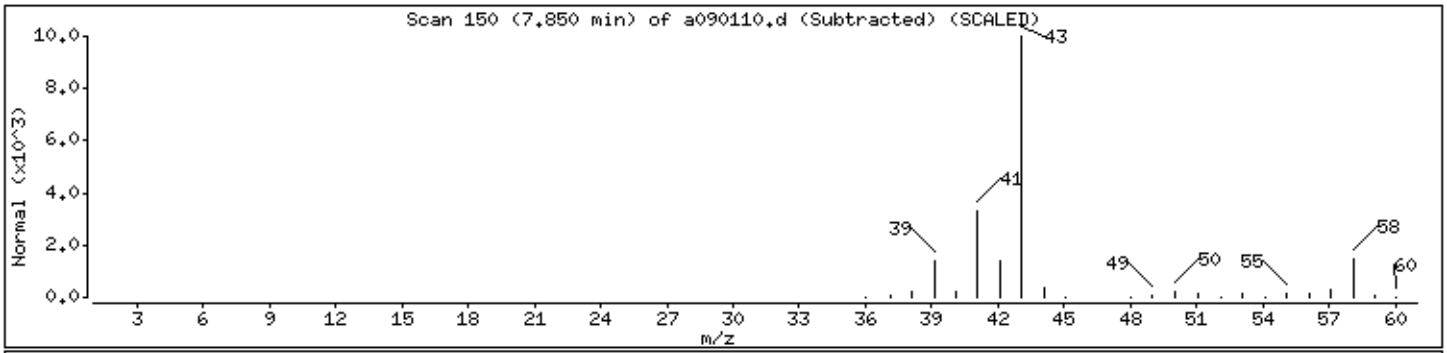
Sample Info: 12.5mL #12045

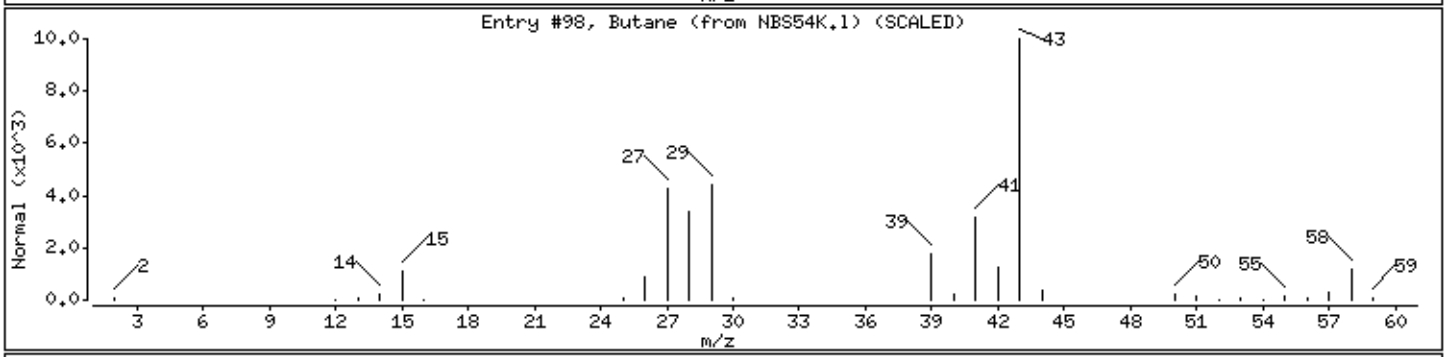
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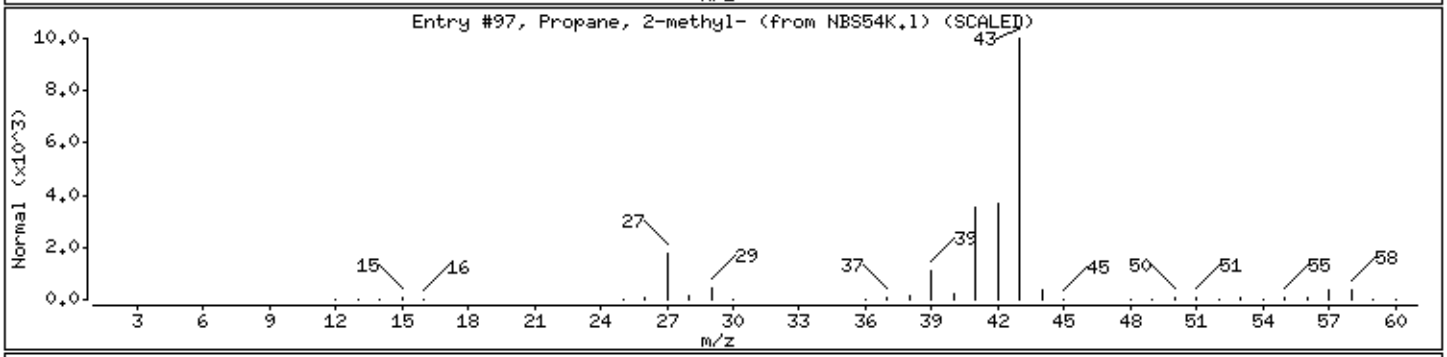
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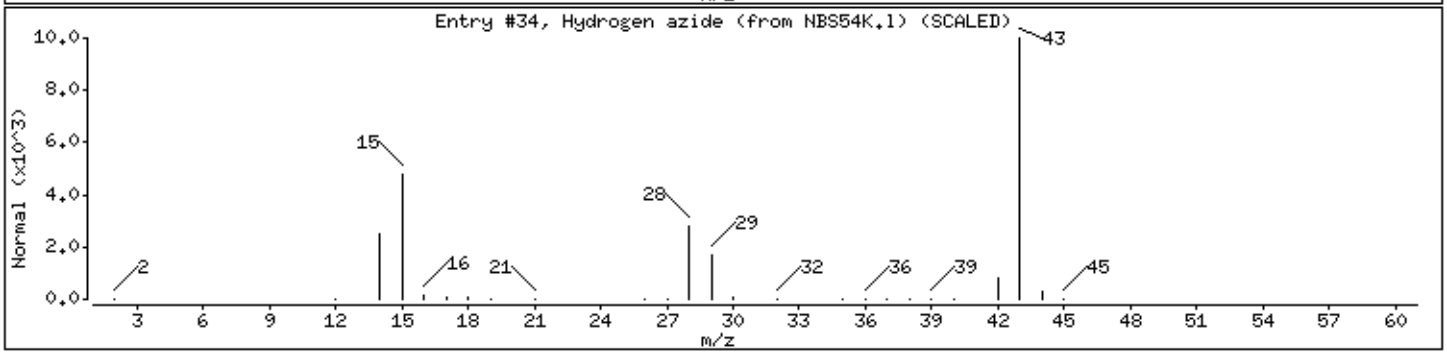
Column diameter: 0.32

| Library Search Compound Match | CAS Number | Library | Entry | Quality | Formula | Weight |
|---|---|---|---|---|---|---|
| Butane | 106-97-8 | NBS54K.l | 98 | 80 | C4H10 | 58 |
| Propane, 2-methyl- | 75-28-5 | NBS54K.l | 97 | 9 | C4H10 | 58 |
| Hydrogen azide | 7782-79-8 | NBS54K.l | 34 | 4 | HN3 | 43 |



Data File: /chem/msda.i/01Sep2011.b/a090110.d

Date : 01-SEP-2011 15:39

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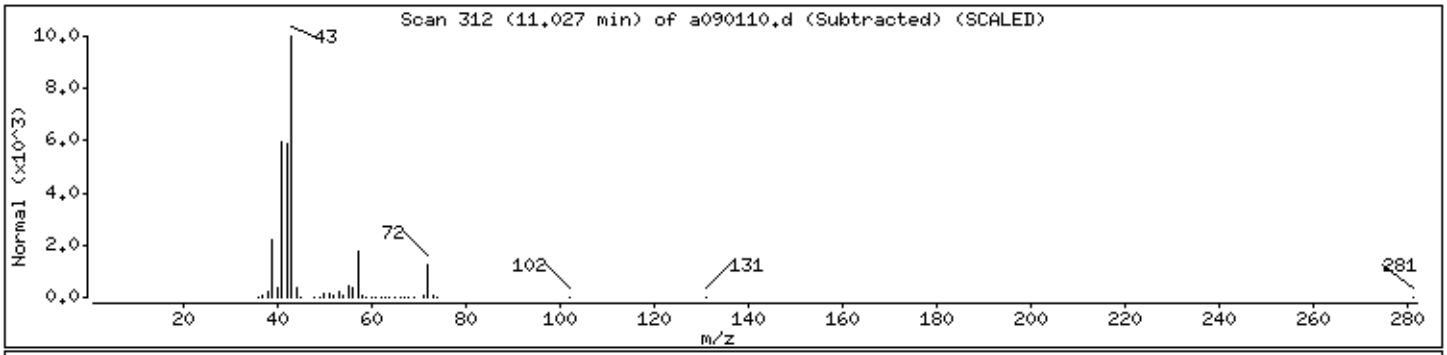
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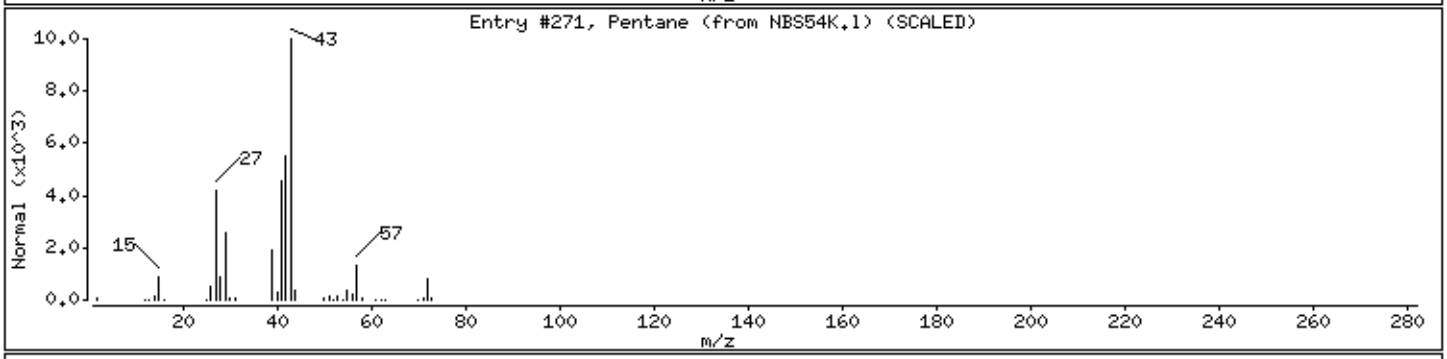
Operator: jc

Column phase: RTx-624

Column diameter: 0.32

| Library Search Compound Match | CAS Number | Library | Entry | Quality | Formula | Weight |
|---|---|---|---|---|---|---|
| Pentane | 109-66-0 | NBS54K.l | 271 | 90 | C5H12 | 72 |



Data File: /chem/msda.i/01Sep2011.b/a090110.d

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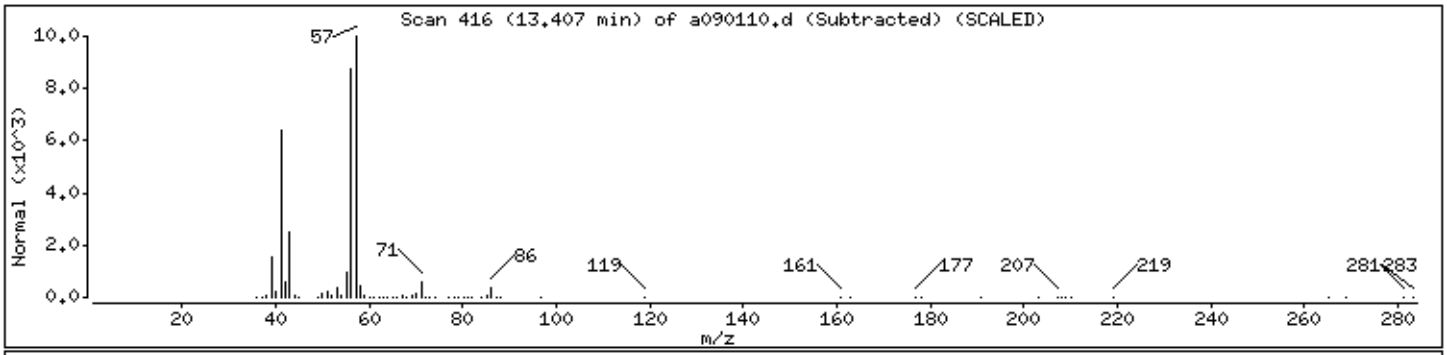
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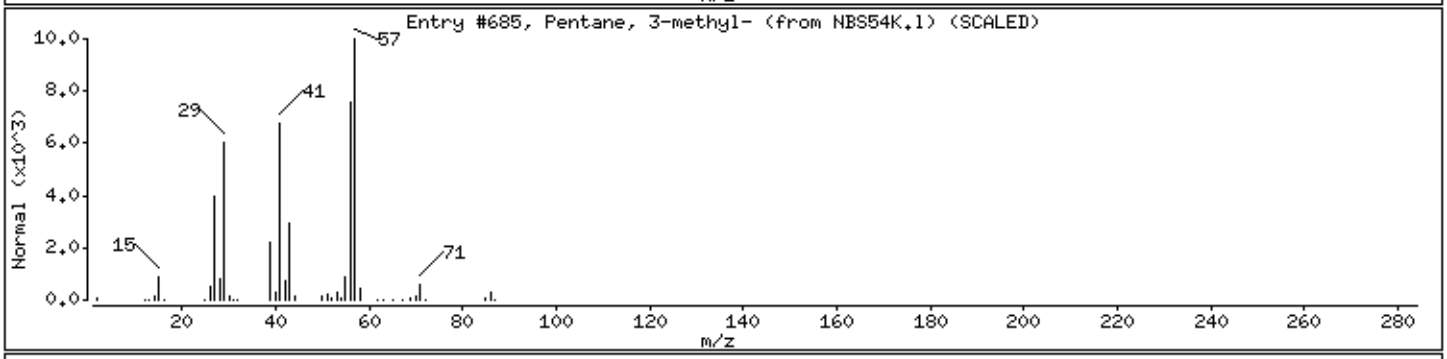
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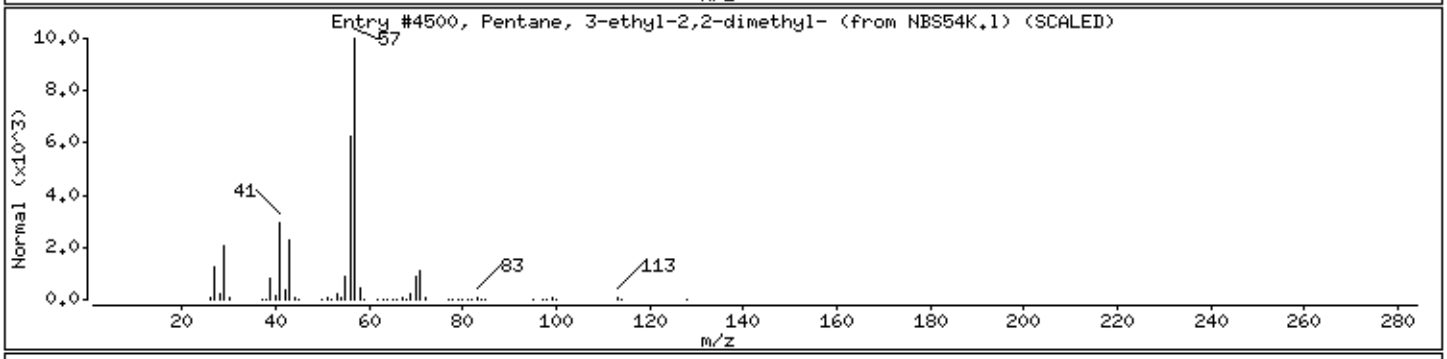
Column phase: RTx-624

Column diameter: 0.32

| Library Search Compound Match | CAS Number | Library | Entry | Quality | Formula | Weight |
|---|---|---|---|---|---|---|
| Pentane, 3-methyl- | 96-14-0 | NBS54K.l | 685 | 90 | C6H14 | 86 |
| Pentane, 3-ethyl-2,2-dimethyl- | 16747-32-3 | NBS54K.l | 4500 | 50 | C9H20 | 128 |



Data File: /chem/msda.i/01Sep2011.b/a090110.d

Date : 01-SEP-2011 15:39

Client ID:

Instrument: msda.i

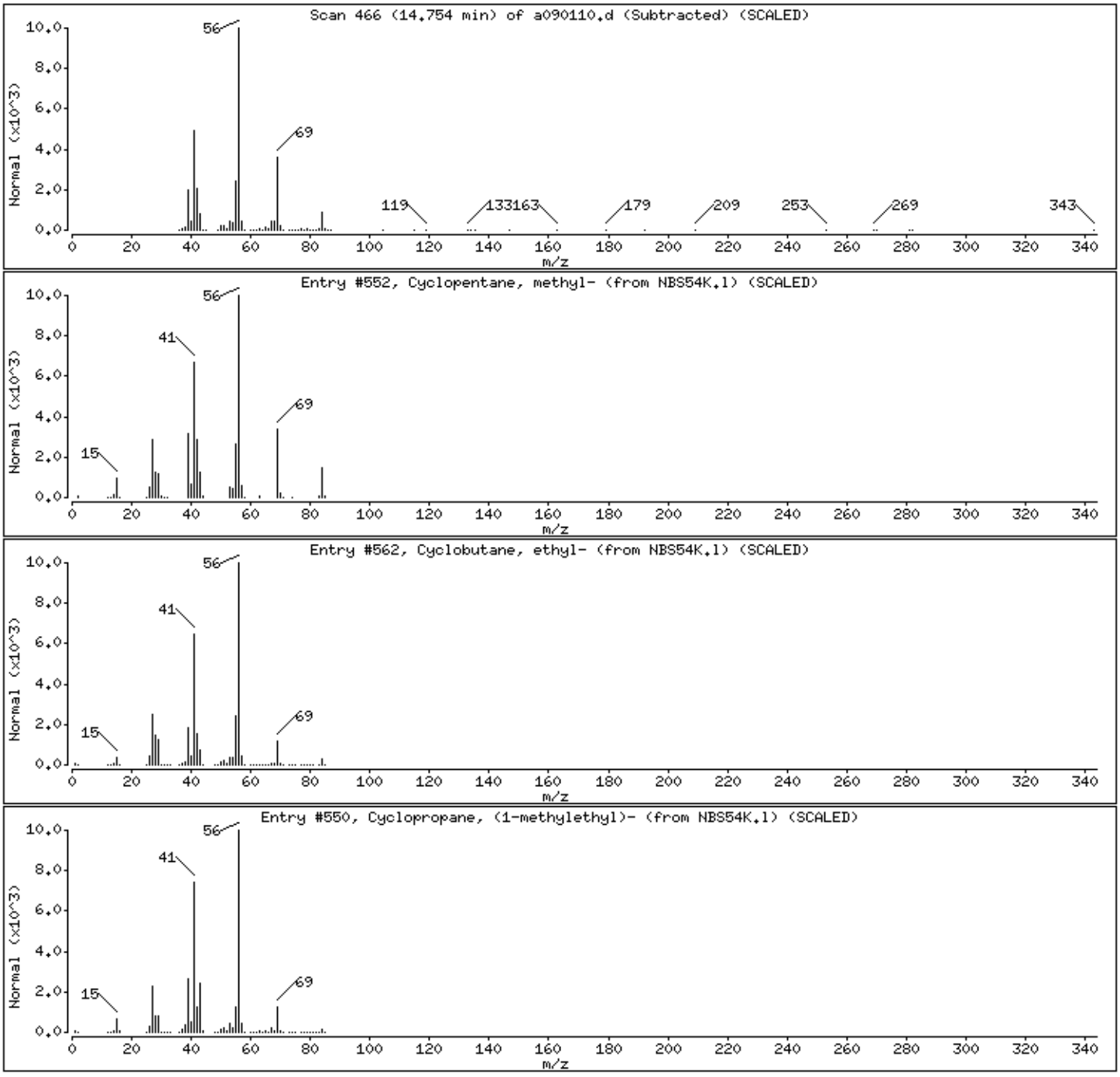
Sample Info: 12.5mL #12045

Operator: jc

Column phase: RTx-624

Column diameter: 0.32

| Library Search Compound Match | CAS Number | Library | Entry | Quality | Formula | Weight |
|---|---|---|---|---|---|---|
| Cyclopentane, methyl- | 96-37-7 | NBS54K.l | 552 | 87 | C6H12 | 84 |
| Cyclobutane, ethyl- | 4806-61-5 | NBS54K.l | 562 | 78 | C6H12 | 84 |
| Cyclopropane, (1-methylethyl)- | 3638-35-5 | NBS54K.l | 550 | 64 | C6H12 | 84 |



Data File: /chem/msda.i/01Sep2011.b/a090110.d

Date : 01-SEP-2011 15:39

Client ID:

Instrument: msda.i

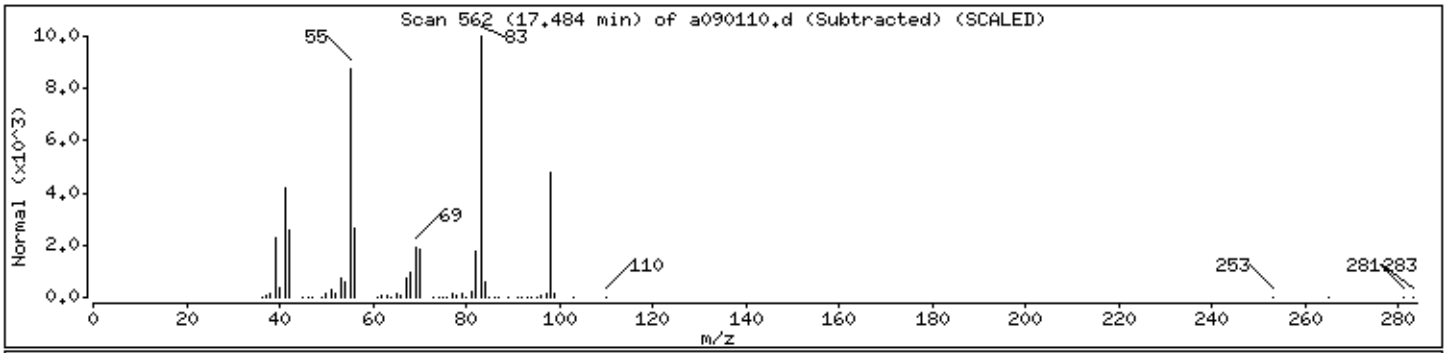
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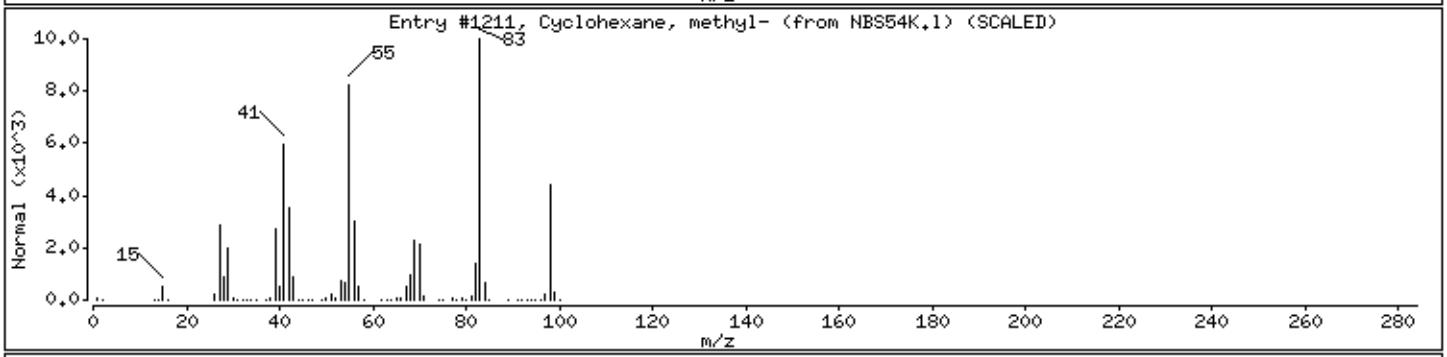
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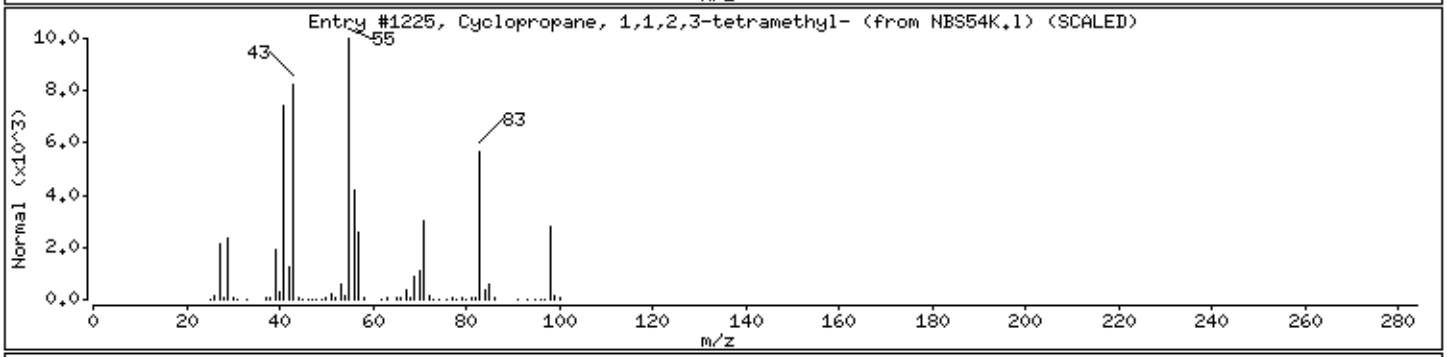
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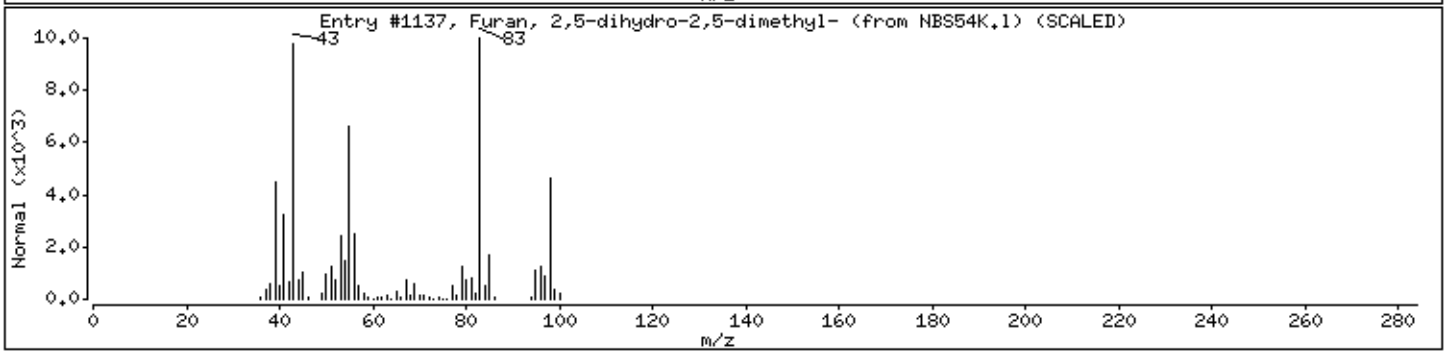
Column diameter: 0.32

| Library Search Compound Match | CAS Number | Library | Entry | Quality | Formula | Weight |
|---|---|---|---|---|---|---|
| Cyclohexane, methyl- | 108-87-2 | NBS54K.l | 1211 | 94 | C7H14 | 98 |
| Cyclopropane, 1,1,2,3-tetramethyl- | 74752-93-5 | NBS54K.l | 1225 | 64 | C7H14 | 98 |
| Furan, 2,5-dihydro-2,5-dimethyl- | 59242-27-2 | NBS54K.l | 1137 | 59 | C6H10O | 98 |



Data File: /chem/msda.i/01Sep2011.b/a090110.d

Date : 01-SEP-2011 15:39

Client ID:

Instrument: msda.i

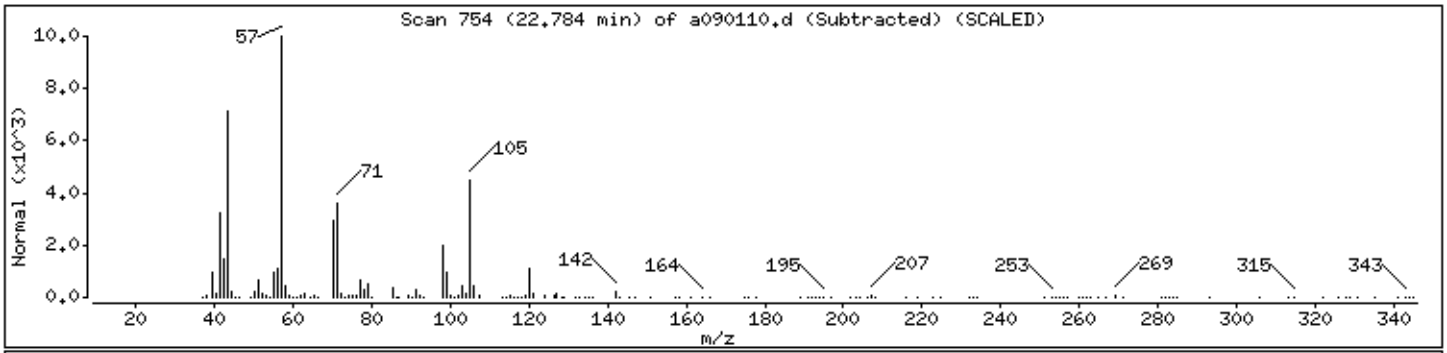
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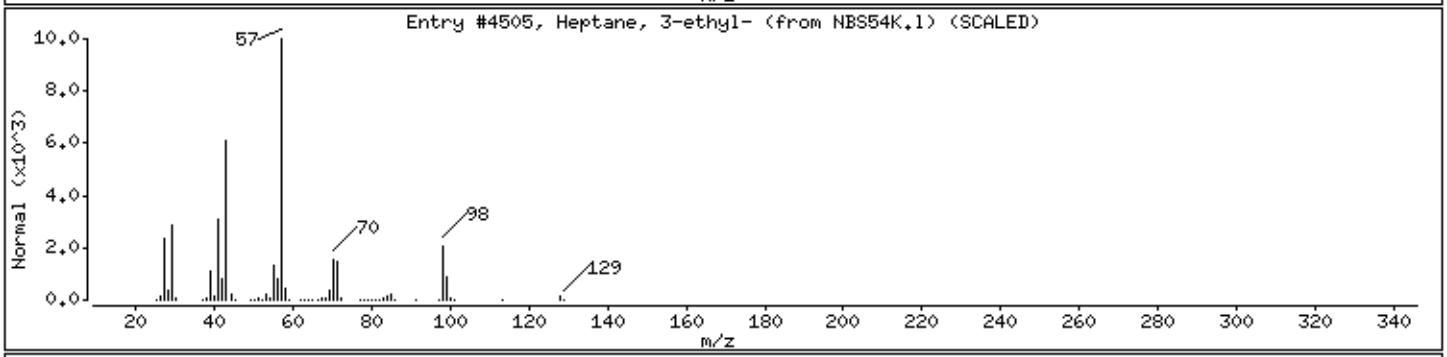
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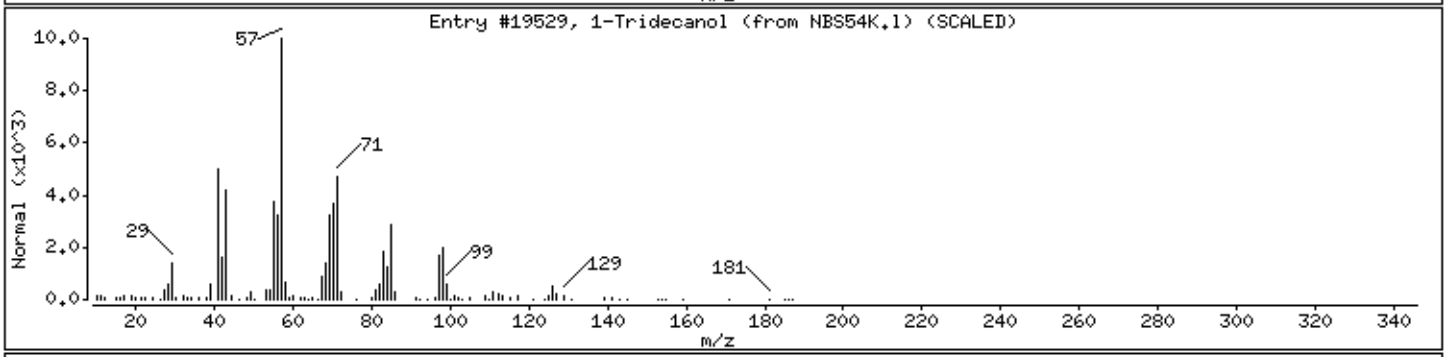
Column phase: RTx-624

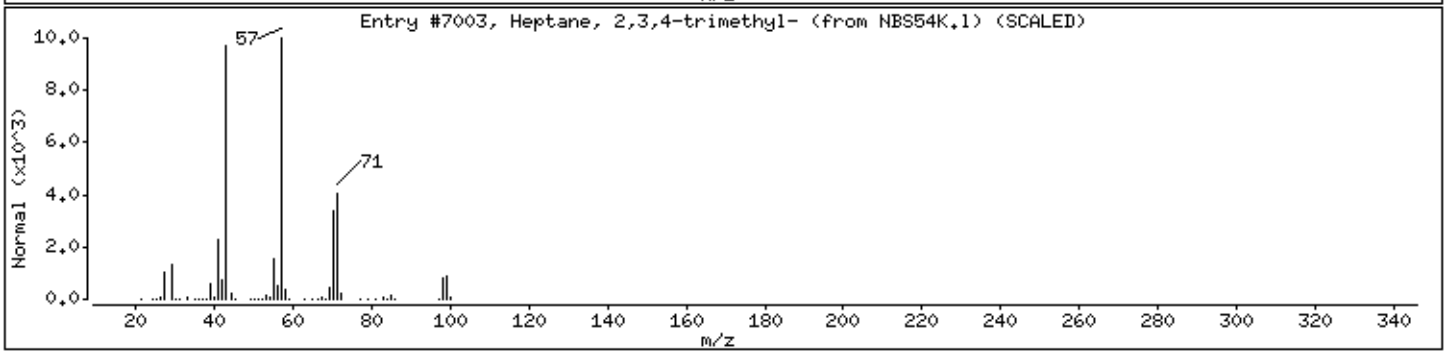
Column diameter: 0.32

| Library Search Compound Match | CAS Number | Library | Entry | Quality | Formula | Weight |
|---|---|---|---|---|---|---|
| Heptane, 3-ethyl- | 15869-80-4 | NBS54K.l | 4505 | 47 | C9H20 | 128 |
| 1-Tridecanol | 112-70-9 | NBS54K.l | 19529 | 42 | C13H28O | 200 |
| Heptane, 2,3,4-trimethyl- | 52896-95-4 | NBS54K.l | 7003 | 38 | C10H22 | 142 |



Data File: /chem/msda.i/01Sep2011.b/a090110.d

Date : 01-SEP-2011 15:39

Client ID:

Instrument: msda.i

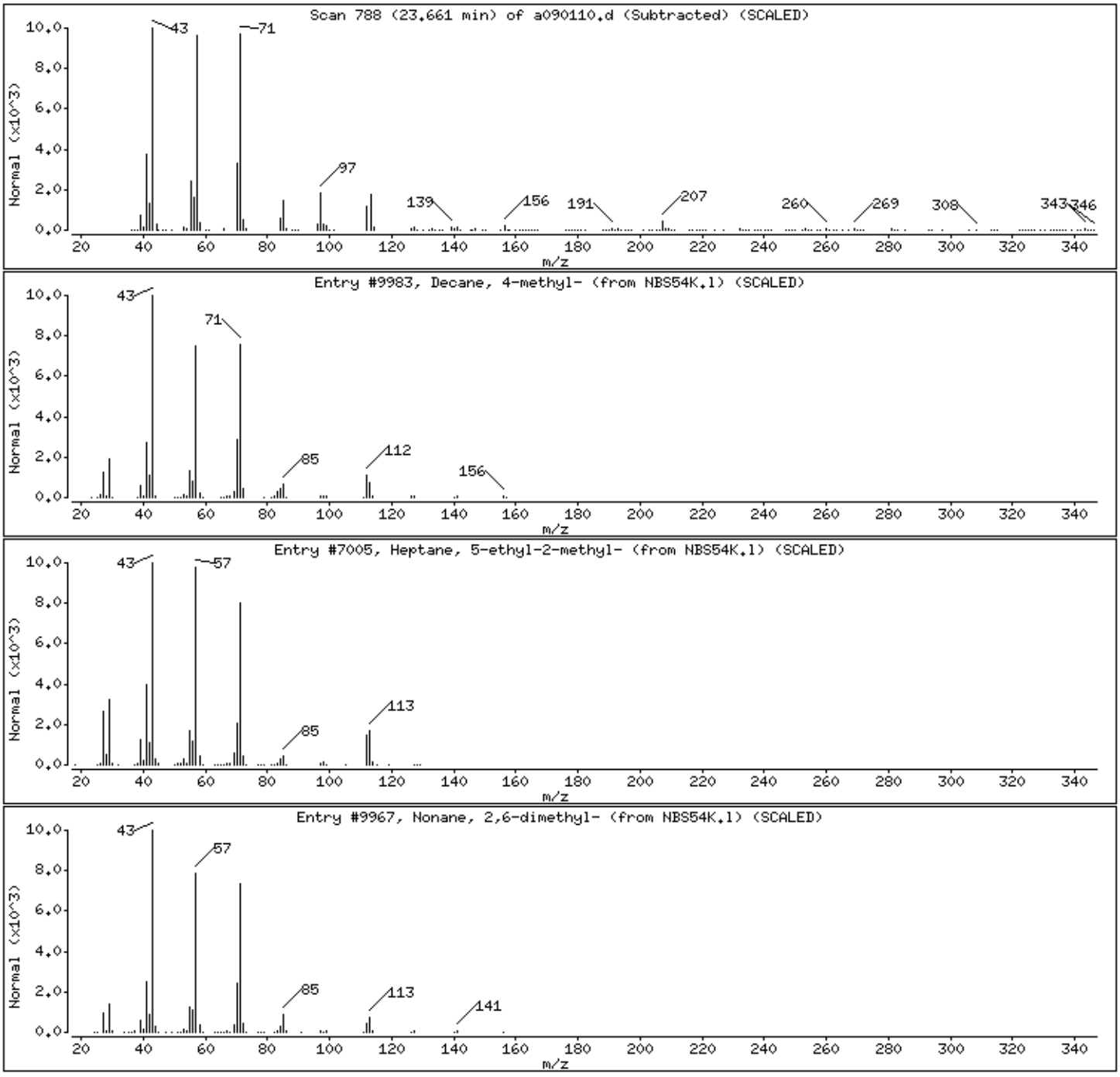
Sample Info: 12.5mL #12045

Operator: jc

Column phase: RTx-624

Column diameter: 0.32

| Library Search Compound Match | CAS Number | Library | Entry | Quality | Formula | Weight |
|---|---|---|---|---|---|---|
| Decane, 4-methyl- | 2847-72-5 | NBS54K.l | 9983 | 81 | C11H24 | 156 |
| Heptane, 5-ethyl-2-methyl- | 13475-78-0 | NBS54K.l | 7005 | 80 | C10H22 | 142 |
| Nonane, 2,6-dimethyl- | 17302-28-2 | NBS54K.l | 9967 | 72 | C11H24 | 156 |



Data File: /chem/msda.i/01Sep2011.b/a090110.d

Date : 01-SEP-2011 15:39

Client ID:

Instrument: msda.i

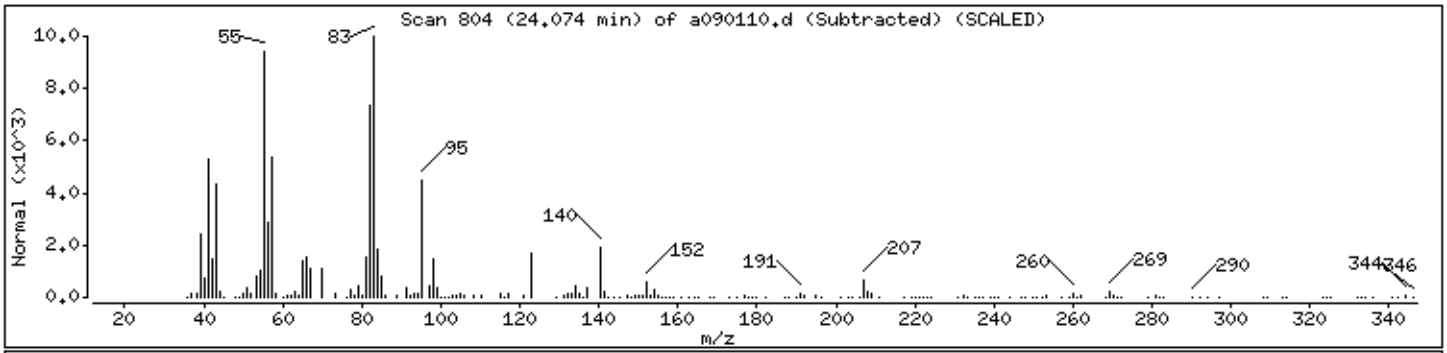
Sample Info: 12.5mL #12045

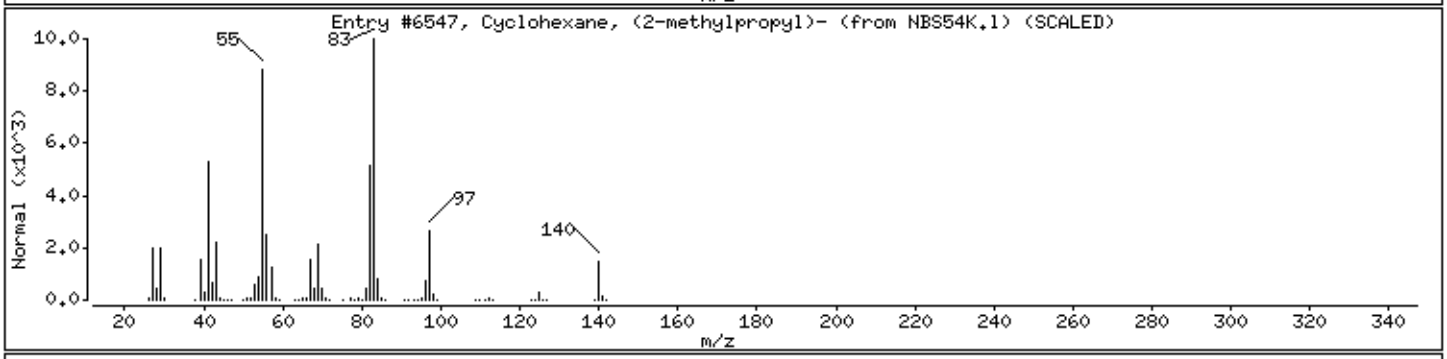
Operator: jc

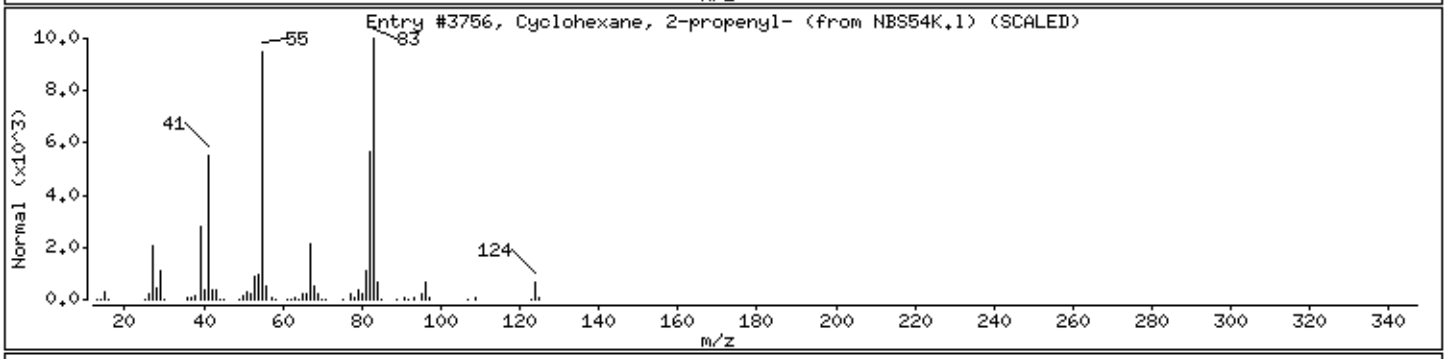
Column phase: RTx-624

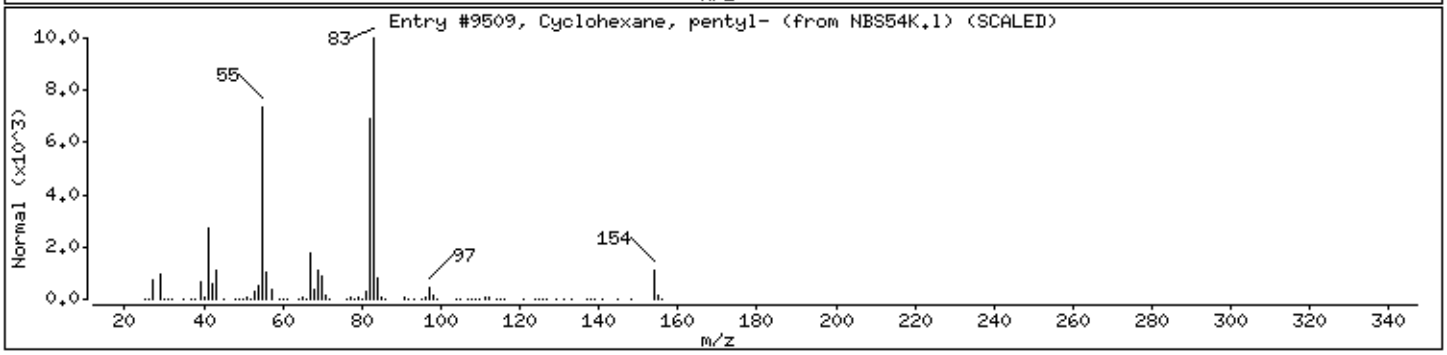
Column diameter: 0.32

| Library Search Compound Match | CAS Number | Library | Entry | Quality | Formula | Weight |
|---|---|---|---|---|---|---|
| Cyclohexane, (2-methylpropyl)- | 1678-98-4 | NBS54K.l | 6547 | 59 | C10H20 | 140 |
| Cyclohexane, 2-propenyl- | 2114-42-3 | NBS54K.l | 3756 | 50 | C9H16 | 124 |
| Cyclohexane, pentyl- | 4292-92-6 | NBS54K.l | 9509 | 50 | C11H22 | 154 |



Air Toxics LTD.
Laboratory Services Since 1989

# Summary of Detected Compounds
# MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

**Client Sample ID: SG-1**

**Lab ID#: 1108582-06A**

| Compound | Rpt. Limit (ppbv) | Amount (ppbv) | Rpt. Limit (ug/m3) | Amount (ug/m3) |
|---|---|---|---|---|
| Freon 12 | 0.68 | 12 | 3.4 | 57 |
| Chloromethane | 0.68 | 1.0 | 1.4 | 2.0 |
| 1,3-Butadiene | 0.68 | 0.76 | 1.5 | 1.7 |
| Ethanol | 3.4 | 13 J | 6.4 | 25 J |
| Acetone | 3.4 | 1400 E | 8.1 | 3300 E |
| 2-Propanol | 3.4 | 5.8 | 8.4 | 14 |
| Carbon Disulfide | 3.4 | 110 | 11 | 350 |
| Hexane | 0.68 | 4.0 | 2.4 | 14 |
| 2-Butanone (Methyl Ethyl Ketone) | 3.4 | 14 | 10 | 40 |
| Chloroform | 0.68 | 1.4 | 3.3 | 7.0 |
| Cyclohexane | 0.68 | 2.7 | 2.4 | 9.2 |
| 2,2,4-Trimethylpentane | 3.4 | 4.5 | 16 | 21 |
| Benzene | 0.68 | 3.4 | 2.2 | 11 |
| Heptane | 0.68 | 5.9 | 2.8 | 24 |
| Toluene | 0.68 | 13 | 2.6 | 50 |
| Tetrachloroethene | 0.68 | 5.5 | 4.6 | 38 |
| Ethyl Benzene | 0.68 | 4.4 | 3.0 | 19 |
| m,p-Xylene | 0.68 | 11 | 3.0 | 48 |
| o-Xylene | 0.68 | 2.3 | 3.0 | 10 |
| 4-Ethyltoluene | 0.68 | 1.2 | 3.4 | 6.1 |
| 1,2,4-Trimethylbenzene | 0.68 | 1.2 | 3.4 | 6.1 |
| 2,3-Dimethylpentane | 3.4 | 3.8 | 14 | 16 |
| 2-Methylpentane | 3.4 | 5.0 | 12 | 18 |
| Isopentane | 3.4 | 4.6 | 10 | 14 |

**TENTATIVELY IDENTIFIED COMPOUNDS**

| Compound | CAS Number | Match Quality | Amount (ppbv) |
|---|---|---|---|
| 3-Butenoic acid | 625-38-7 | 78% | 43 NJ |
| 2-Butene, (Z)- | 590-18-1 | 80% | 320 NJ |
| Acetaldehyde | 75-07-0 | 86% | 76 NJ |
| Unknown | NA | NA | 33 J |
| Pentane, 3-ethyl-2-methyl- | 609-26-7 | 58% | 40 NJ |

Air Toxics LTD.
Laboratory Services Since 1989

# Summary of Detected Compounds
# MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

**Client Sample ID: SG-1**

**Lab ID#: 1108582-06A**

**TENTATIVELY IDENTIFIED COMPOUNDS**

| Compound | CAS Number | Match Quality | Amount (ppbv) |
|---|---|---|---|
| 2-Heptanone | 110-43-0 | 91% | 41 NJ |
| Decane, 2,2,5-trimethyl- | 62237-96-1 | 64% | 24 NJ |
| Nonane, 3-methyl-5-propyl- | 31081-18-2 | 72% | 33 NJ |
| Hexane, 2,2,4-trimethyl- | 16747-26-5 | 72% | 42 NJ |
| 5-Undecene, 9-methyl-, (Z)- | 74630-65-2 | 64% | 28 NJ |

Air Toxics LTD.
Laboratory Services Since 1989

**Client Sample ID: SG-1**

**Lab ID#: 1108582-06A**

**MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN**

| | | | |
|---|---|---|---|
| **File Name:** | **a090115** | **Date of Collection:** | **8/24/11 1:40:00 PM** |
| **Dil. Factor:** | **6.84** | **Date of Analysis:** | **9/1/11 07:59 PM** |

| Compound | Rpt. Limit (ppbv) | Amount (ppbv) | Rpt. Limit (ug/m3) | Amount (ug/m3) |
|---|---|---|---|---|
| Freon 12 | 0.68 | 12 | 3.4 | 57 |
| Freon 114 | 0.68 | Not Detected | 4.8 | Not Detected |
| Chloromethane | 0.68 | 1.0 | 1.4 | 2.0 |
| Vinyl Chloride | 0.68 | Not Detected | 1.7 | Not Detected |
| 1,3-Butadiene | 0.68 | 0.76 | 1.5 | 1.7 |
| Bromomethane | 0.68 | Not Detected | 2.6 | Not Detected |
| Chloroethane | 3.4 | Not Detected | 9.0 | Not Detected |
| Freon 11 | 0.68 | Not Detected | 3.8 | Not Detected |
| Ethanol | 3.4 | 13 J | 6.4 | 25 J |
| Freon 113 | 0.68 | Not Detected | 5.2 | Not Detected |
| 1,1-Dichloroethene | 0.68 | Not Detected | 2.7 | Not Detected |
| Acetone | 3.4 | 1400 E | 8.1 | 3300 E |
| 2-Propanol | 3.4 | 5.8 | 8.4 | 14 |
| Carbon Disulfide | 3.4 | 110 | 11 | 350 |
| 3-Chloropropene | 3.4 | Not Detected | 11 | Not Detected |
| Methylene Chloride | 1.4 | Not Detected | 4.8 | Not Detected |
| Methyl tert-butyl ether | 0.68 | Not Detected | 2.5 | Not Detected |
| trans-1,2-Dichloroethene | 0.68 | Not Detected | 2.7 | Not Detected |
| Hexane | 0.68 | 4.0 | 2.4 | 14 |
| 1,1-Dichloroethane | 0.68 | Not Detected | 2.8 | Not Detected |
| 2-Butanone (Methyl Ethyl Ketone) | 3.4 | 14 | 10 | 40 |
| cis-1,2-Dichloroethene | 0.68 | Not Detected | 2.7 | Not Detected |
| Tetrahydrofuran | 3.4 | Not Detected | 10 | Not Detected |
| Chloroform | 0.68 | 1.4 | 3.3 | 7.0 |
| 1,1,1-Trichloroethane | 0.68 | Not Detected | 3.7 | Not Detected |
| Cyclohexane | 0.68 | 2.7 | 2.4 | 9.2 |
| Carbon Tetrachloride | 0.68 | Not Detected | 4.3 | Not Detected |
| 2,2,4-Trimethylpentane | 3.4 | 4.5 | 16 | 21 |
| Benzene | 0.68 | 3.4 | 2.2 | 11 |
| 1,2-Dichloroethane | 0.68 | Not Detected | 2.8 | Not Detected |
| Heptane | 0.68 | 5.9 | 2.8 | 24 |
| Trichloroethene | 0.68 | Not Detected | 3.7 | Not Detected |
| 1,2-Dichloropropane | 0.68 | Not Detected | 3.2 | Not Detected |
| 1,4-Dioxane | 0.68 | Not Detected | 2.5 | Not Detected |
| Bromodichloromethane | 0.68 | Not Detected | 4.6 | Not Detected |
| cis-1,3-Dichloropropene | 0.68 | Not Detected | 3.1 | Not Detected |
| 4-Methyl-2-pentanone | 0.68 | Not Detected | 2.8 | Not Detected |
| Toluene | 0.68 | 13 | 2.6 | 50 |
| trans-1,3-Dichloropropene | 0.68 | Not Detected | 3.1 | Not Detected |
| 1,1,2-Trichloroethane | 0.68 | Not Detected | 3.7 | Not Detected |
| Tetrachloroethene | 0.68 | 5.5 | 4.6 | 38 |

Air Toxics LTD.
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**Client Sample ID: SG-1**

**Lab ID#: 1108582-06A**

**MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN**

| | | | |
|---|---|---|---|
| **File Name:** | **a090115** | **Date of Collection:** | **8/24/11 1:40:00 PM** |
| **Dil. Factor:** | **6.84** | **Date of Analysis:** | **9/1/11 07:59 PM** |

| Compound | Rpt. Limit (ppbv) | Amount (ppbv) | Rpt. Limit (ug/m3) | Amount (ug/m3) |
|---|---|---|---|---|
| 2-Hexanone | 3.4 | Not Detected | 14 | Not Detected |
| Dibromochloromethane | 0.68 | Not Detected | 5.8 | Not Detected |
| 1,2-Dibromoethane (EDB) | 0.68 | Not Detected | 5.2 | Not Detected |
| Chlorobenzene | 0.68 | Not Detected | 3.1 | Not Detected |
| Ethyl Benzene | 0.68 | 4.4 | 3.0 | 19 |
| m,p-Xylene | 0.68 | 11 | 3.0 | 48 |
| o-Xylene | 0.68 | 2.3 | 3.0 | 10 |
| Styrene | 0.68 | Not Detected | 2.9 | Not Detected |
| Bromoform | 0.68 | Not Detected | 7.1 | Not Detected |
| Cumene | 0.68 | Not Detected | 3.4 | Not Detected |
| 1,1,2,2-Tetrachloroethane | 0.68 | Not Detected | 4.7 | Not Detected |
| Propylbenzene | 0.68 | Not Detected | 3.4 | Not Detected |
| 4-Ethyltoluene | 0.68 | 1.2 | 3.4 | 6.1 |
| 1,3,5-Trimethylbenzene | 0.68 | Not Detected | 3.4 | Not Detected |
| 1,2,4-Trimethylbenzene | 0.68 | 1.2 | 3.4 | 6.1 |
| 1,3-Dichlorobenzene | 0.68 | Not Detected | 4.1 | Not Detected |
| 1,4-Dichlorobenzene | 0.68 | Not Detected | 4.1 | Not Detected |
| alpha-Chlorotoluene | 0.68 | Not Detected | 3.5 | Not Detected |
| 1,2-Dichlorobenzene | 0.68 | Not Detected | 4.1 | Not Detected |
| 1,2,4-Trichlorobenzene | 3.4 | Not Detected | 25 | Not Detected |
| Hexachlorobutadiene | 3.4 | Not Detected | 36 | Not Detected |
| 2,3-Dimethylpentane | 3.4 | 3.8 | 14 | 16 |
| 2-Methylpentane | 3.4 | 5.0 | 12 | 18 |
| Indene | 3.4 | Not Detected | 16 | Not Detected |
| Indan | 3.4 | Not Detected | 16 | Not Detected |
| Isopentane | 3.4 | 4.6 | 10 | 14 |
| Naphthalene | 3.4 | Not Detected | 18 | Not Detected |
| Thiophene | 3.4 | Not Detected | 12 | Not Detected |

J = Estimated value due to bias in the CCV.
E = Exceeds instrument calibration range.

**TENTATIVELY IDENTIFIED COMPOUNDS**

| Compound | CAS Number | Match Quality | Amount ((ppbv)) |
|---|---|---|---|
| 3-Butenoic acid | 625-38-7 | 78% | 43 NJ |
| 2-Butene, (Z)- | 590-18-1 | 80% | 320 NJ |
| Acetaldehyde | 75-07-0 | 86% | 76 NJ |
| Unknown | NA | NA | 33 J |
| Pentane, 3-ethyl-2-methyl- | 609-26-7 | 58% | 40 NJ |
| 2-Heptanone | 110-43-0 | 91% | 41 NJ |
| Decane, 2,2,5-trimethyl- | 62237-96-1 | 64% | 24 NJ |

Air Toxics LTD.
Laboratory Services Since 1989

**Client Sample ID: SG-1**

**Lab ID#: 1108582-06A**

**MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN**

| | | | |
|---|---|---|---|
| **File Name:** | **a090115** | **Date of Collection: 8/24/11 1:40:00 PM** | |
| **Dil. Factor:** | **6.84** | **Date of Analysis: 9/1/11 07:59 PM** | |

**TENTATIVELY IDENTIFIED COMPOUNDS**

| Compound | CAS Number | Match Quality | Amount ((ppbv)) |
|---|---|---|---|
| Nonane, 3-methyl-5-propyl- | 31081-18-2 | 72% | 33 NJ |
| Hexane, 2,2,4-trimethyl- | 16747-26-5 | 72% | 42 NJ |
| 5-Undecene, 9-methyl-, (Z)- | 74630-65-2 | 64% | 28 NJ |

NJ =The identification is based on presumptive evidence; estimated value.

**Container Type: 6 Liter Summa Special (100% Certified)**

| Surrogates | %Recovery | Method Limits |
|---|---|---|
| 1,2-Dichloroethane-d4 | 108 | 70-130 |
| Toluene-d8 | 101 | 70-130 |
| 4-Bromofluorobenzene | 106 | 70-130 |

Air Toxics Ltd.

AMBIENT AIR METHOD TO14/TO15

Data file : /chem/msda.i/01Sep2011.b/a090115.d
Lab Smp Id: 1108582-06A
Inj Date : 01-SEP-2011 19:59
Operator : jc Inst ID: msda.i
Smp Info : 62.5mL #9557
Misc Info : 6.5"Hg-5psi
Comment :
Method : /chem/msda.i/01Sep2011.b/a11l0818b.m
Meth Date : 07-Sep-2011 14:20 ejakob Quant Type: ISTD
Cal Date : 31-AUG-2011 12:17 Cal File: a083107.d
Als bottle: 28
Dil Factor: 6.84000
Integrator: HP RTE Compound Sublist: Par16136.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

| | | | | CONCENTRATIONS ON-COL | FINAL | | |
|---|---|---|---|---|---|---|---|
| RT | EXP RT (REL RT) | MASS | RESPONSE | ( PPBV) | ( PPBV) | TARGET RANGE | RATIO |
| * 52 Bromochloromethane | | | | | CAS #: 74-97-5 | | |
| 15.406 | 15.406 (1.000) | 130 | 182488 | 10.0000 | | 80.00- 120.00 | 100.00 |
| 15.406 | 15.406 (1.000) | 128 | 143243 | | | 0.00- 30.00 | 78.49 |
| 15.406 | 15.406 (1.000) | 49 | 325649 | | | 0.00- 30.00 | 178.45 |
| * 66 1,4-Difluorobenzene | | | | | CAS #: 540-36-3 | | |
| 16.825 | 16.825 (1.000) | 114 | 870181 | 10.0000 | | 80.00- 120.00 | 100.00 |
| 16.825 | 16.798 (1.000) | 88 | 144543 | | | 0.00- 30.00 | 16.61 |
| * 88 Chlorobenzene-d5 | | | | | CAS #: 3114-55-4 | | |
| 21.614 | 21.614 (1.000) | 117 | 668465 | 10.0000 | | 80.00- 120.00 | 100.00 |
| 21.614 | 21.590 (1.000) | 82 | 410781 | | | 0.00- 30.00 | 61.45 |
| $ 61 1,2-Dichloroethane-d4 | | | | | CAS #: 17060-07-0 | | |
| 16.248 | 16.249 (1.055) | 65 | 354748 | 10.8029 | 10.803 | 80.00- 120.00 | 100.00 |
| 16.248 | 16.249 (1.055) | 67 | 183098 | | | 21.17- 81.17 | 51.61 |
| $ 80 Toluene-d8 | | | | | CAS #: 2037-26-5 | | |
| 19.389 | 19.389 (1.152) | 98 | 852106 | 10.0729 | 10.073 | 80.00- 120.00 | 100.00 |
| 19.389 | 19.389 (1.152) | 70 | 142683 | | | 0.00- 41.96 | 16.74 |

| RT | EXP RT (REL RT) | MASS | RESPONSE | CONCENTRATIONS ON-COL ( PPBV) | CONCENTRATIONS FINAL ( PPBV) | TARGET RANGE | RATIO |
|---|---|---|---|---|---|---|---|
| $ 80 Toluene-d8 (continued) | | | | | | | |
| 19.389 | 19.389 (1.152) | 100 | 568362 | | | 36.89- 96.89 | 66.70 |
| $ 100 Bromofluorobenzene | | | | | CAS #: 460-00-4 | | |
| 23.068 | 23.068 (1.067) | 174 | 368944 | 10.5968 | 10.597 | 80.00- 120.00 | 100.00 |
| 23.068 | 23.068 (1.067) | 95 | 523933 | | | 114.38- 174.38 | 142.01 |
| 23.068 | 23.068 (1.067) | 176 | 353660 | | | 66.49- 126.49 | 95.86 |
| 4 Dichlorodifluoromethane/Fr12 | | | | | CAS #: 75-71-8 | | |
| 5.324 | 5.493 (0.346) | 85 | 201620 | 1.68167 | 11.502 | 80.00- 120.00 | 100.00 |
| 5.324 | 5.493 (0.346) | 87 | 65987 | | | 2.38- 62.38 | 32.73 |
| 7 Chloromethane | | | | | CAS #: 74-87-3 | | |
| 7.132 | 7.228 (0.463) | 50 | 6421 | 0.14573 | 0.9968 | 80.00- 120.00 | 100.00 |
| 7.132 | 7.228 (0.463) | 52 | 2418 | | | 2.29- 62.29 | 37.66 |
| 11 1,3-Butadiene | | | | | CAS #: 106-99-0 | | |
| 8.232 | 8.284 (0.534) | 54 | 4308 | 0.11052 | 0.7559 | 80.00- 120.00 | 100.00 |
| 8.232 | 8.284 (0.534) | 39 | 3689 | | | 64.36- 124.36 | 85.63 |
| 20 Ethanol | | | | | CAS #: 64-17-5 | | |
| 11.690 | 11.691 (0.759) | 45 | 13043 | 1.97278 | 13.494 | 80.00- 120.00 | 100.00 |
| 11.690 | 11.691 (0.759) | 43 | 4017 | | | 0.00- 57.08 | 30.80 |
| 11.690 | 11.691 (0.759) | 46 | 5356 | | | 10.87- 70.87 | 41.06 |
| 26 Carbon Disulfide | | | | | CAS #: 75-15-0 | | |
| 12.478 | 12.499 (0.810) | 76 | 1615989 | 16.5920 | 113.49 | 80.00- 120.00 | 100.00 |
| 24 Acetone | | | | | CAS #: 67-64-1 | | |
| 12.416 | 12.416 (0.806) | 58 | 4875062 | 205.384 | 1404.8 | 80.00- 120.00 | 100.00(A) |
| 12.416 | 12.416 (0.806) | 43 | 15382812 | | | 283.54- 343.54 | 315.54 |
| 27 2-Propanol | | | | | CAS #: 67-63-0 | | |
| 12.727 | 12.706 (0.826) | 45 | 92797 | 0.84677 | 5.792 | 80.00- 120.00 | 100.00 |
| 12.727 | 12.706 (0.826) | 43 | 18323 | | | 0.00- 49.76 | 19.75 |
| 12.727 | 12.706 (0.826) | 59 | 2735 | | | 0.00- 34.09 | 2.95 |
| 40 Hexane | | | | | CAS #: 110-54-3 | | |
| 13.819 | 13.819 (0.897) | 57 | 53667 | 0.58765 | 4.020 | 80.00- 120.00 | 100.00 |
| 13.819 | 13.819 (0.897) | 43 | 38209 | | | 33.38- 93.38 | 71.20 |
| 13.819 | 13.819 (0.897) | 86 | 8607 | | | 0.00- 46.43 | 16.04 |
| 48 2-Butanone | | | | | CAS #: 78-93-3 | | |
| 15.065 | 15.065 (0.978) | 72 | 53998 | 1.98508 | 13.578 | 80.00- 120.00 | 100.00 |
| 15.065 | 15.065 (0.978) | 43 | 411987 | | | 298.82- 358.82 | 762.96 |
| 15.065 | 15.065 (0.978) | 57 | 19028 | | | 0.00- 56.09 | 35.24 |

| RT | EXP RT (REL RT) | MASS | RESPONSE | CONCENTRATIONS ON-COL ( PPBV) | CONCENTRATIONS FINAL ( PPBV) | TARGET RANGE | RATIO |
|---|---|---|---|---|---|---|---|
| 53 Chloroform | | | | | CAS #: 67-66-3 | | |
| 15.467 | 15.467 (1.004) | 83 | 21695 | 0.20905 | 1.430 | 80.00- 120.00 | 100.00 |
| 15.467 | 15.467 (1.004) | 85 | 7480 | | | 34.45- 94.45 | 34.48 |
| 55 Cyclohexane | | | | | CAS #: 110-82-7 | | |
| 15.714 | 15.714 (1.020) | 84 | 29860 | 0.39207 | 2.682 | 80.00- 120.00 | 100.00 |
| 15.683 | 15.714 (1.018) | 56 | 81375 | | | 97.99- 157.99 | 272.51 |
| 15.683 | 15.714 (1.018) | 41 | 50310 | | | 37.94- 97.94 | 168.48 |
| 60 Benzene | | | | | CAS #: 71-43-2 | | |
| 16.248 | 16.249 (0.966) | 78 | 79935 | 0.49458 | 3.383 | 80.00- 120.00 | 100.00 |
| 16.248 | 16.249 (0.966) | 77 | 18284 | | | 0.00- 53.14 | 22.87 |
| 64 Heptane | | | | | CAS #: 142-82-5 | | |
| 16.413 | 16.413 (0.976) | 57 | 46316 | 0.85983 | 5.881 | 80.00- 120.00 | 100.00 |
| 16.413 | 16.413 (0.976) | 100 | 13191 | | | 11.16- 71.16 | 28.48 |
| 16.413 | 16.413 (0.976) | 43 | 89996 | | | 158.27- 218.27 | 194.31 |
| 81 Toluene | | | | | CAS #: 108-88-3 | | |
| 19.524 | 19.524 (1.160) | 91 | 360164 | 1.94850 | 13.328 | 80.00- 120.00 | 100.00 |
| 19.524 | 19.524 (1.160) | 92 | 217484 | | | 30.18- 90.18 | 60.38 |
| 84 Tetrachloroethene | | | | | CAS #: 127-18-4 | | |
| 20.365 | 20.365 (0.942) | 166 | 58498 | 0.81033 | 5.543 | 80.00- 120.00 | 100.00 |
| 20.333 | 20.333 (0.941) | 129 | 45441 | | | 48.84- 108.84 | 77.68 |
| 20.333 | 20.333 (0.941) | 131 | 43196 | | | 46.09- 106.09 | 73.84 |
| 91 Ethyl Benzene | | | | | CAS #: 100-41-4 | | |
| 21.711 | 21.711 (1.004) | 106 | 41744 | 0.64032 | 4.380 | 80.00- 120.00 | 100.00 |
| 21.711 | 21.711 (1.004) | 91 | 134830 | | | 291.22- 351.22 | 322.99 |
| 93 m,p-Xylene | | | | | CAS #: 108-38-3 | | |
| 21.855 | 21.855 (1.011) | 106 | 114530 | 1.60663 | 10.989 | 80.00- 120.00 | 100.00 |
| 21.855 | 21.855 (1.011) | 91 | 235718 | | | 173.15- 233.15 | 205.81 |
| 94 o-Xylene | | | | | CAS #: 95-47-6 | | |
| 22.385 | 22.385 (1.036) | 106 | 23156 | 0.33762 | 2.309 | 80.00- 120.00 | 100.00 |
| 22.385 | 22.385 (1.036) | 91 | 52134 | | | 185.20- 245.20 | 225.14 |
| 107 4-Ethyltoluene | | | | | CAS #: 622-96-8 | | |
| 23.378 | 23.403 (1.082) | 105 | 35325 | 0.18167 | 1.243 | 80.00- 120.00 | 100.00 |
| 23.378 | 23.403 (1.082) | 120 | 9645 | | | 0.31- 60.31 | 27.30 |
| 112 1,2,4-Trimethylbenzene | | | | | CAS #: 95-63-6 | | |
| 23.893 | 23.893 (1.105) | 105 | 26019 | 0.18149 | 1.241 | 80.00- 120.00 | 100.00 |
| 23.893 | 23.893 (1.105) | 120 | 12970 | | | 15.25- 75.25 | 49.85 |

| RT | EXP RT (REL RT) | MASS | RESPONSE | CONCENTRATIONS ON-COL ( PPBV) | FINAL ( PPBV) | TARGET RANGE | RATIO |
|---|---|---|---|---|---|---|---|
| 59 2,2,4-Trimethylpentane | | | | | CAS #: 540-84-1 | | |
| 16.166 | 16.166 (1.049) | 56 | 76510 | 0.65495 | 4.480 | 80.00- 120.00 | 100.00 |
| 16.166 | 16.166 (1.049) | 57 | 175479 | | | 264.71- 324.71 | 229.35 |
| 16.166 | 16.166 (1.049) | 41 | 64242 | | | 74.97- 134.97 | 83.97 |
| 14 Isopentane | | | | | CAS #: 78-78-4 | | |
| 10.239 | 10.240 (0.665) | 57 | 24476 | 0.67374 | 4.608 | 80.00- 120.00 | 100.00 |
| 10.239 | 10.240 (0.665) | 43 | 33669 | | | 104.71- 164.71 | 137.56 |
| 10.239 | 10.240 (0.665) | 42 | 29696 | | | 89.04- 149.04 | 121.33 |
| 30 2-Methylpentane | | | | | CAS #: 107-83-5 | | |
| 12.995 | 12.995 (0.844) | 71 | 22417 | 0.73648 | 5.037 | 80.00- 120.00 | 100.00 |
| 12.995 | 12.995 (0.844) | 43 | 97770 | | | 0.00- 30.00 | 436.14 |
| 12.995 | 12.995 (0.844) | 42 | 38385 | | | 0.00- 30.00 | 171.23 |
| 54 2,3-Dimethylpentane | | | | | CAS #: 565-59-3 | | |
| 15.683 | 15.683 (1.018) | 71 | 15026 | 0.55430 | 3.791 | 80.00- 120.00 | 100.00 |
| 15.683 | 15.683 (1.018) | 56 | 81585 | | | 0.00- 30.00 | 542.96 |
| 15.683 | 15.683 (1.018) | 43 | 39646 | | | 0.00- 30.00 | 263.85 |

## QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.

Air Toxics Ltd.

AMBIENT AIR METHOD TO14/TO15

Data file : /chem/msda.i/01Sep2011.b/a090115.d
Lab Smp Id: 1108582-06A
Inj Date : 01-SEP-2011 19:59
Operator : jc Inst ID: msda.i
Smp Info : 62.5mL #9557
Misc Info : 6.5"Hg-5psi
Comment :
Method : /chem/msda.i/01Sep2011.b/a11l0818b.m
Meth Date : 07-Sep-2011 14:20 ejakob Quant Type: ISTD
Cal Date : 31-AUG-2011 12:17 Cal File: a083107.d
Als bottle: 28
Dil Factor: 6.84000
Integrator: HP RTE Compound Sublist: Par16136.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

| ISTD | RT | AREA | AMOUNT |
|---|---|---|---|
| * 52 Bromochloromethane | 15.406 | 1273106 | 10.000 |
| * 66 1,4-Difluorobenzene | 16.825 | 2389594 | 10.000 |
| * 88 Chlorobenzene-d5 | 21.614 | 2718534 | 10.000 |

| | CONCENTRATIONS | | | | QUANT | | |
|---|---|---|---|---|---|---|---|
| RT | AREA | ON-COL( PPBV) | FINAL( PPBV) | QUAL | LIBRARY | LIB ENTRY | CPND # |
| 3-Butenoic acid | | | | CAS #: 625-38-7 | | | |
| 4.818 | 809594 | 6.35919832 | 43.497 | 78 | NBS54K.l | 624 | 52 |
| 2-Butene, (Z)- | | | | CAS #: 590-18-1 | | | |
| 7.781 | 5993628 | 47.0787440 | 322.02 | 80 | NBS54K.l | 78 | 52 |
| Acetaldehyde | | | | CAS #: 75-07-0 | | | |
| 8.874 | 1423219 | 11.1791009 | 76.465 | 86 | NBS54K.l | 37 | 52 |

| RT | AREA | ON-COL( PPBV) | FINAL( PPBV) | QUAL | LIBRARY | LIB ENTRY | CPND # |
|---|---|---|---|---|---|---|---|
| Unknown | | | | | CAS #: | | |
| 17.511 | 1170069 | 4.89651460 | 33.492 | 0 | | 0 | 66 |
| Pentane, 3-ethyl-2-methyl- | | | | | CAS #: 609-26-7 | | |
| 18.390 | 1402462 | 5.86903507 | 40.144 | 58 | NBS54K.l | 2755 | 66 |
| 2-Heptanone | | | | | CAS #: 110-43-0 | | |
| 22.482 | 1639475 | 6.03072933 | 41.250 | 91 | NBS54K.l | 2687 | 88 |
| Decane, 2,2,5-trimethyl- | | | | | CAS #: 62237-96-1 | | |
| 23.687 | 977631 | 3.59616724 | 24.598 | 64 | NBS54K.l | 16183 | 88 |
| Nonane, 3-methyl-5-propyl- | | | | | CAS #: 31081-18-2 | | |
| 23.997 | 1304992 | 4.80035094 | 32.834 | 72 | NBS54K.l | 16244 | 88 |
| Hexane, 2,2,4-trimethyl- | | | | | CAS #: 16747-26-5 | | |
| 24.254 | 1657580 | 6.09732846 | 41.706 | 72 | NBS54K.l | 4495 | 88 |
| 5-Undecene, 9-methyl-, (Z)- | | | | | CAS #: 74630-65-2 | | |
| 24.925 | 1136479 | 4.18048248 | 28.594 | 64 | NBS54K.l | 12705 | 88 |

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msda.i
Lab File ID: a090115.d
Lab Smp Id: 1108582-06A
Analysis Type: VOA
Quant Type: ISTD
Operator: jc
Method File: /chem/msda.i/01Sep2011.b/a11l0818b.m
Misc Info: 6.5"Hg-5psi

Calibration Date: 01-SEP-2011
Calibration Time: 08:06
Level: LOW
Sample Type: AIR

| | | AREA LIMIT | | | |
|---|---|---|---|---|---|
| COMPOUND | STANDARD | LOWER | UPPER | SAMPLE | %DIFF |
| 52 Bromochloromethan | 204525 | 122715 | 286335 | 182488 | -10.77 |
| 66 1,4-Difluorobenze | 937041 | 562225 | 1311857 | 870181 | -7.14 |
| 88 Chlorobenzene-d5 | 804938 | 482963 | 1126913 | 668465 | -16.95 |

| | | RT LIMIT | | | |
|---|---|---|---|---|---|
| COMPOUND | STANDARD | LOWER | UPPER | SAMPLE | %DIFF |
| 52 Bromochloromethan | 15.41 | 15.08 | 15.74 | 15.41 | 0.00 |
| 66 1,4-Difluorobenze | 16.83 | 16.50 | 17.16 | 16.82 | 0.00 |
| 88 Chlorobenzene-d5 | 21.61 | 21.28 | 21.94 | 21.61 | 0.00 |

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Report Date: 13-Sep-2011 13:14

Air Toxics Ltd.

RECOVERY REPORT

Client Name: Client SDG: 01Sep2011
Sample Matrix: GAS Fraction: VOA
Lab Smp Id: 1108582-06A
Level: LOW Operator: jc
Data Type: MS DATA SampleType: SAMPLE
SpikeList File: AT09.spk Quant Type: ISTD
Sublist File: Par16136.sub
Method File: /chem/msda.i/01Sep2011.b/a11l0818b.m
Misc Info: 6.5"Hg-5psi

| SURROGATE COMPOUND | CONC ADDED PPBV | CONC RECOVERED PPBV | % RECOVERED | LIMITS |
|---|---|---|---|---|
| $ 61 1,2-Dichloroethane | 10.000 | 10.803 | 108.03 | 70-130 |
| $ 80 Toluene-d8 | 10.000 | 10.073 | 100.73 | 70-130 |
| $ 100 Bromofluorobenzene | 10.000 | 10.597 | 105.97 | 70-130 |

~(

Data File: /chem/msda.i/01Sep2011.b/a090115.d 

Date : 01-SEP-2011 19:59

Client ID:

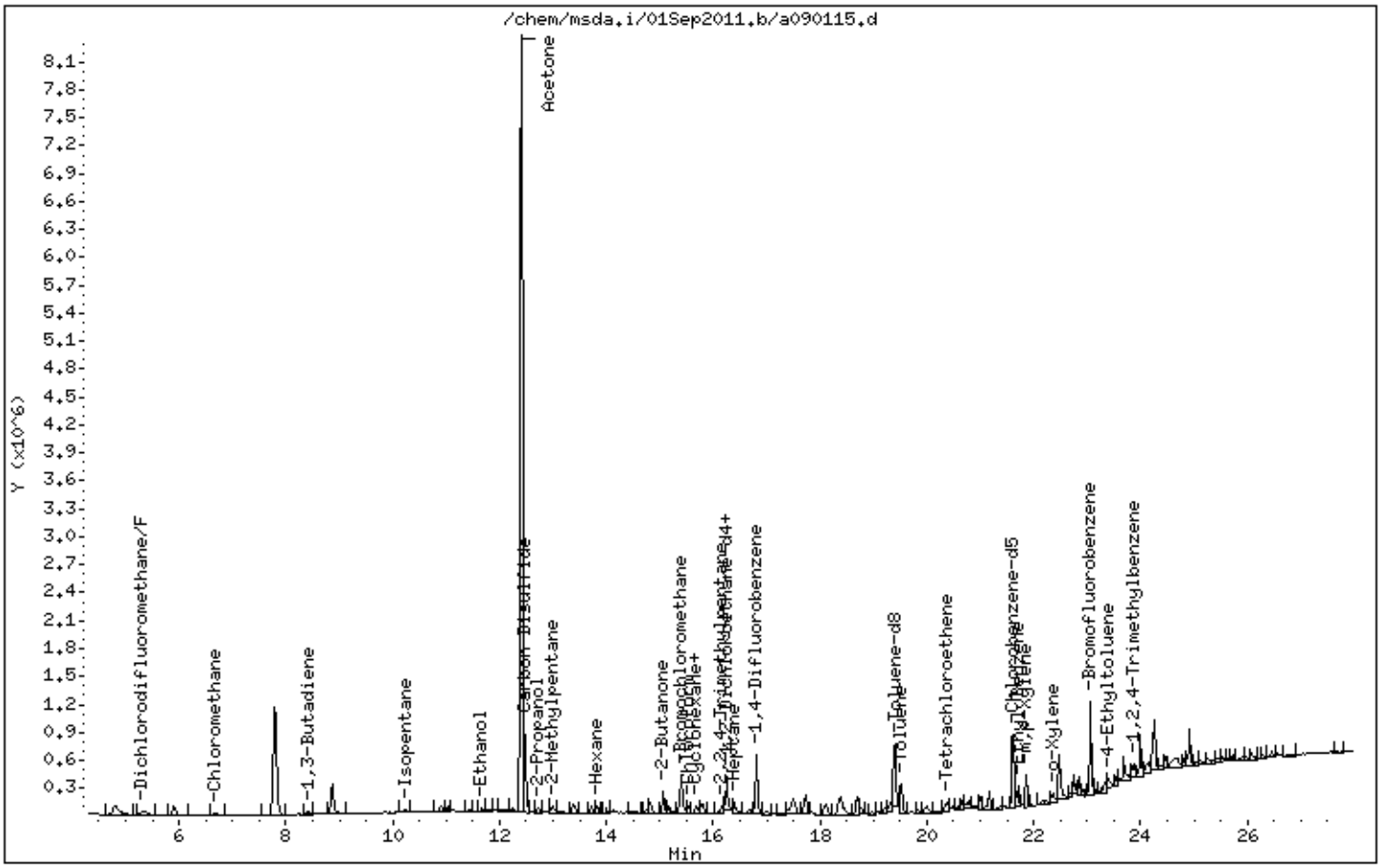
Instrument: msda.i

Sample Info: 62.5mL #9557

Operator: jc

Column phase: RTx-624

Column diameter: 0.32



Data File: /chem/msda.i/01Sep2011.b/a090115.d

Date : 01-SEP-2011 19:59

Client ID:

Instrument: msda.i

Sample Info: 62.5mL #9557

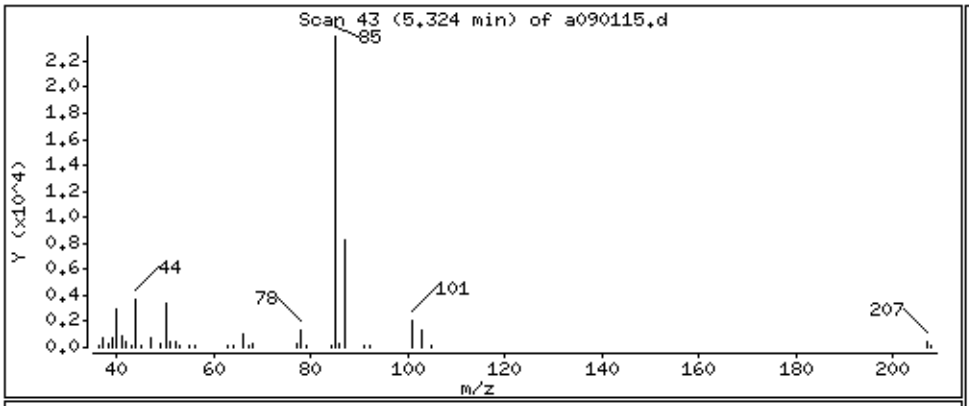
Operator: jc

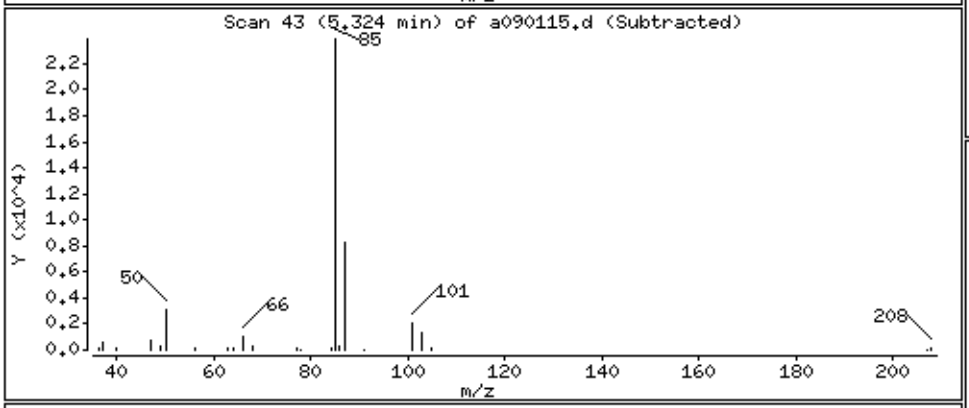
Column phase: RTx-624

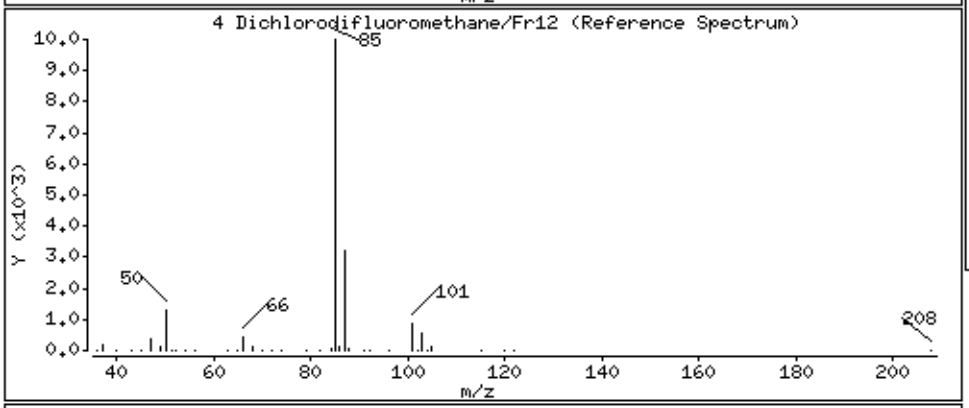
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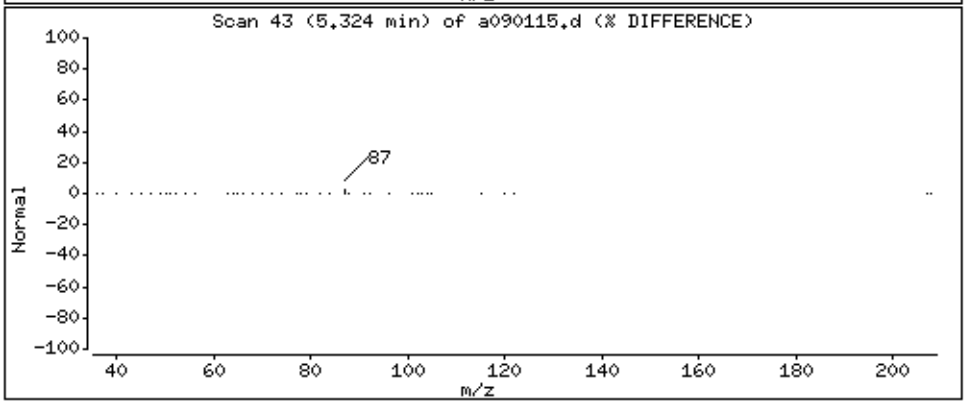
4 Dichlorodifluoromethane/Fr12

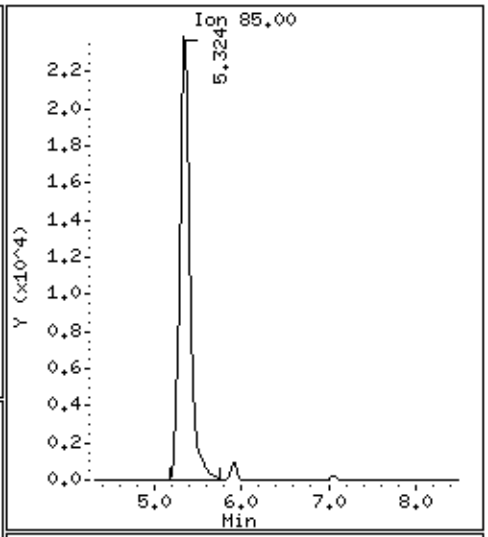
Concentration: 11.502 PPBV

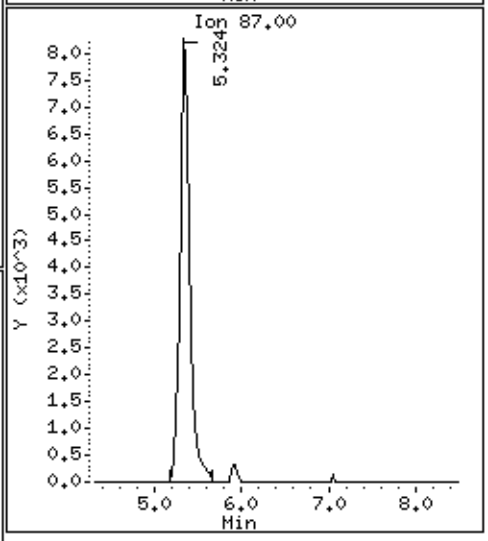


Data File: /chem/msda.i/01Sep2011.b/a090115.d

Date : 01-SEP-2011 19:59

Client ID:

Instrument: msda.i

Sample Info: 62.5mL #9557

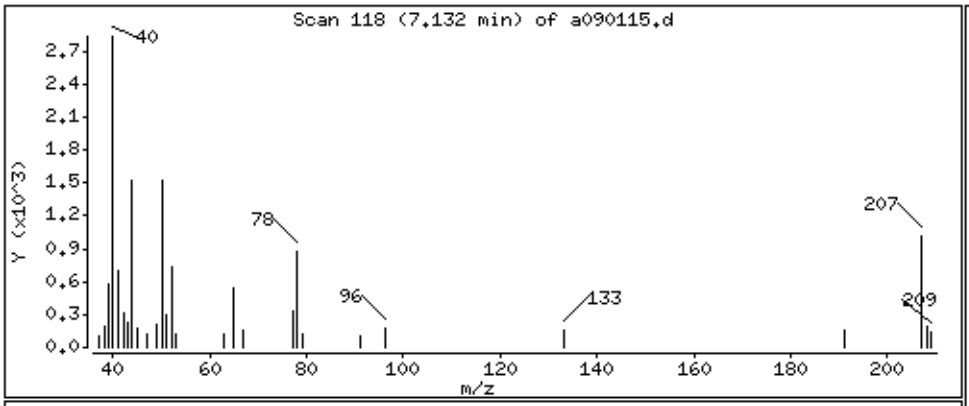
Operator: jc

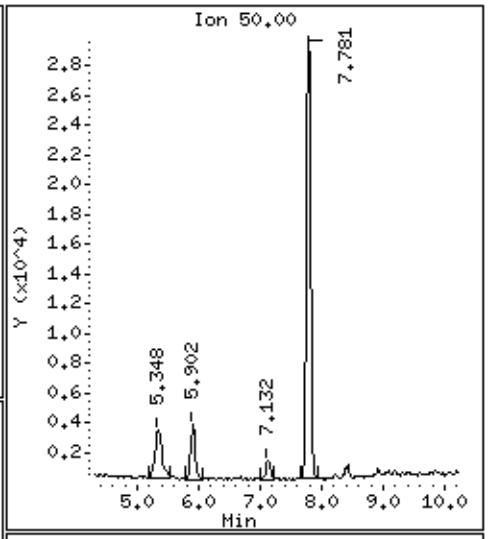
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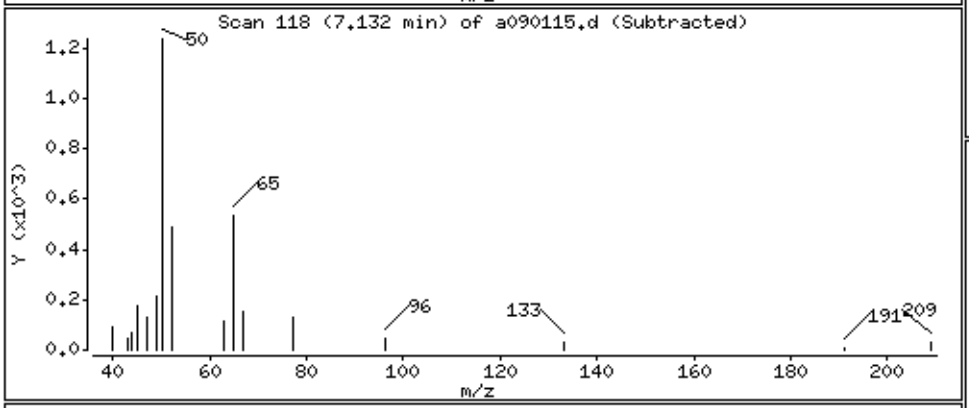
Column diameter: 0.32

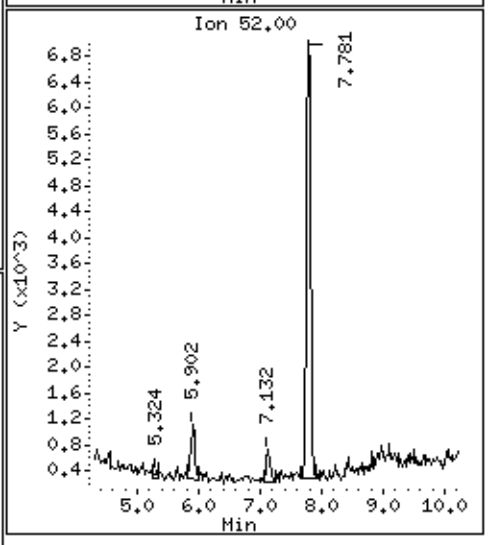
7 Chloromethane

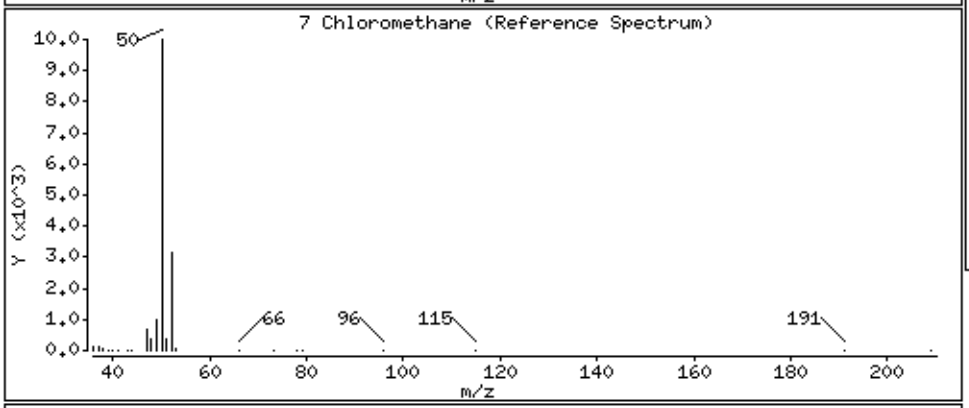
Concentration: 0.9968 PPBV

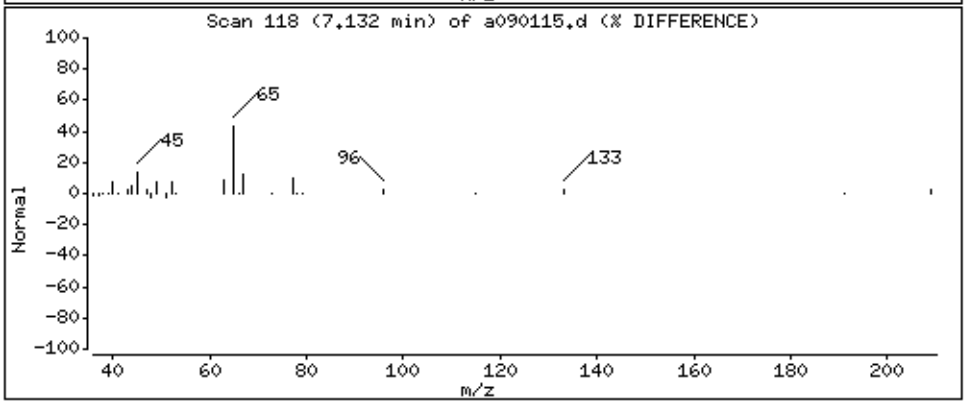


Data File: /chem/msda.i/01Sep2011.b/a090115.d

Date : 01-SEP-2011 19:59

Client ID:

Instrument: msda.i

Sample Info: 62.5mL #9557

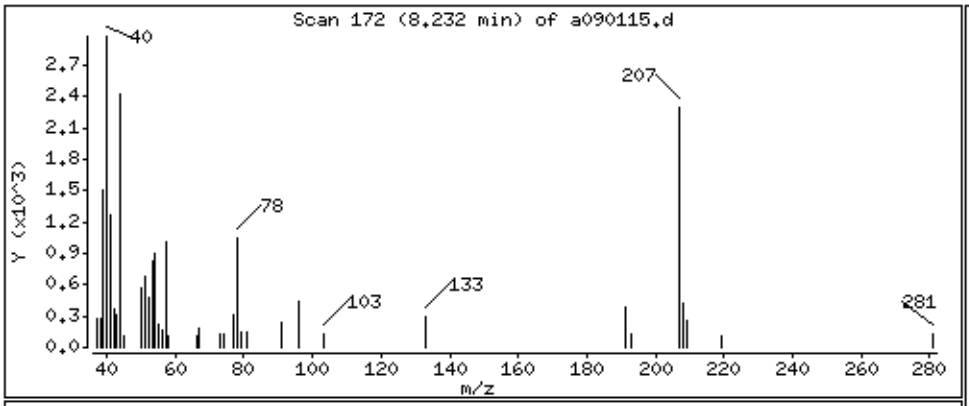
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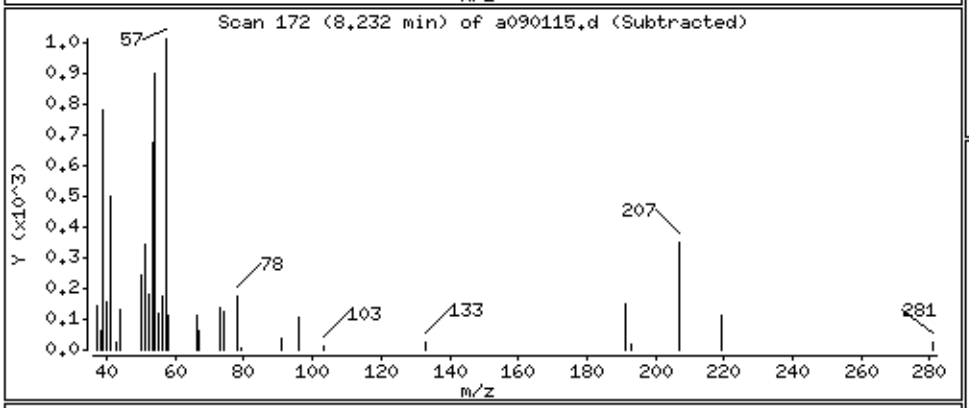
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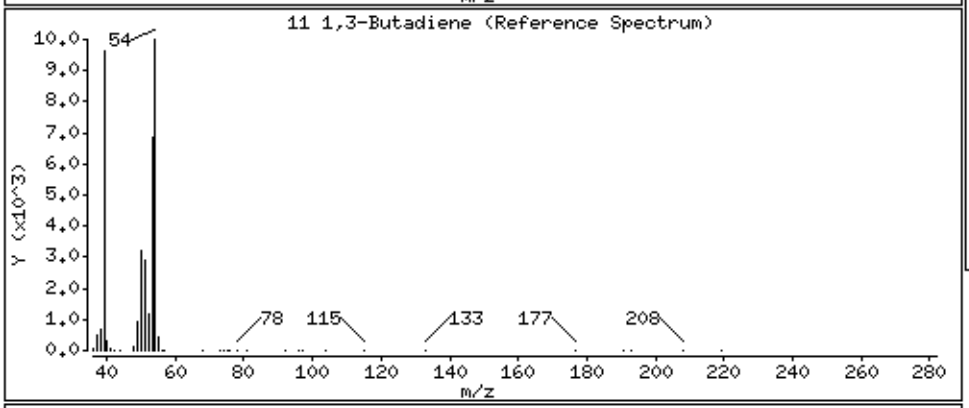
Column diameter: 0.32

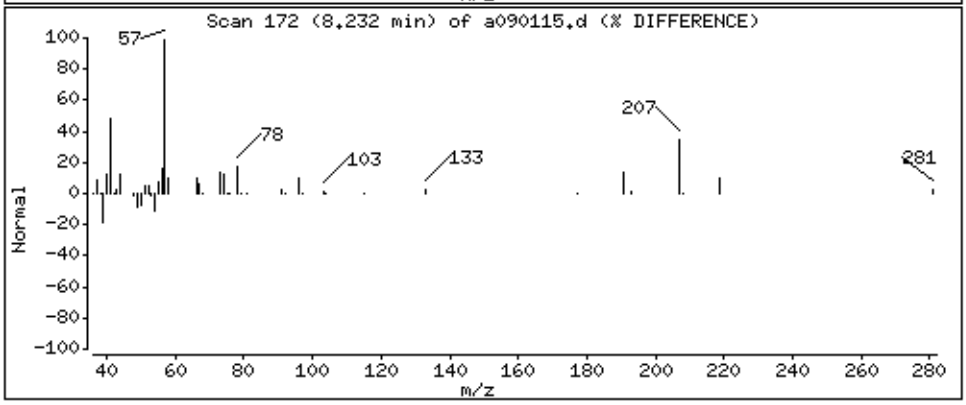
11 1,3-Butadiene

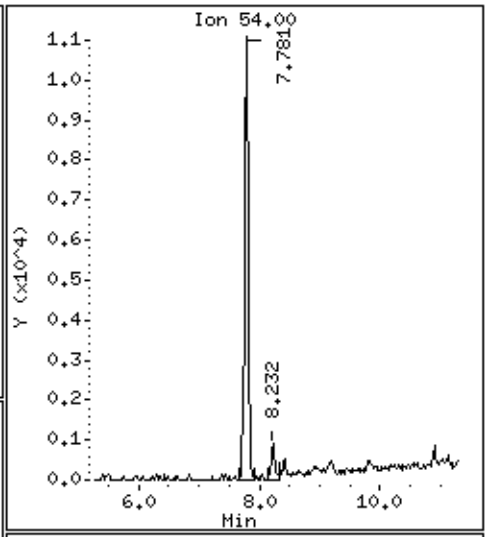
Concentration: 0.7559 PPBV

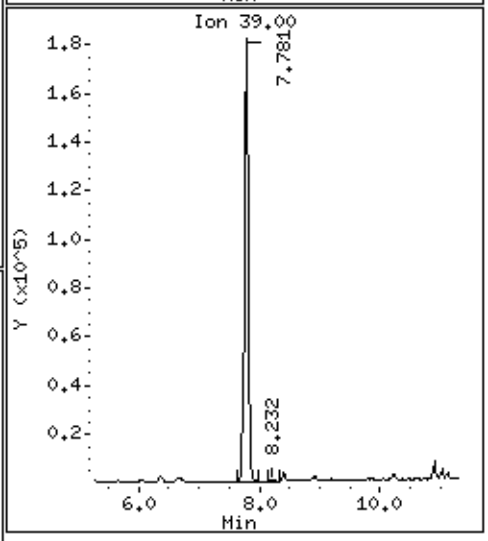


Data File: /chem/msda.i/01Sep2011.b/a090115.d

Date : 01-SEP-2011 19:59

Client ID:

Instrument: msda.i

Sample Info: 62.5mL #9557

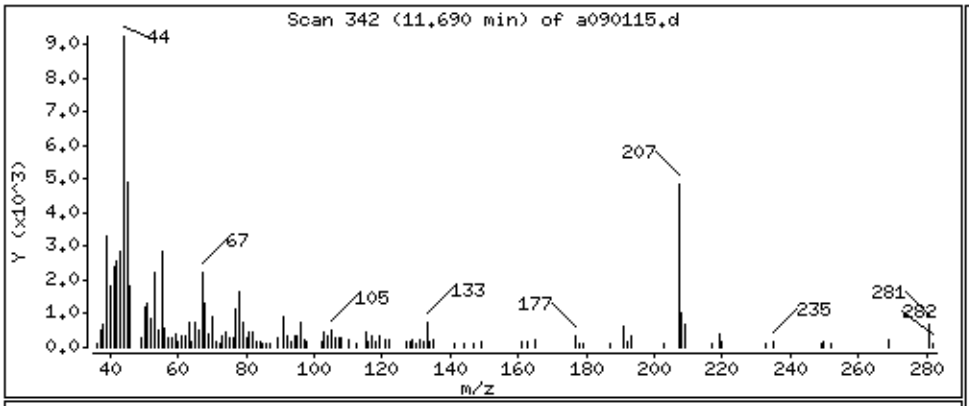
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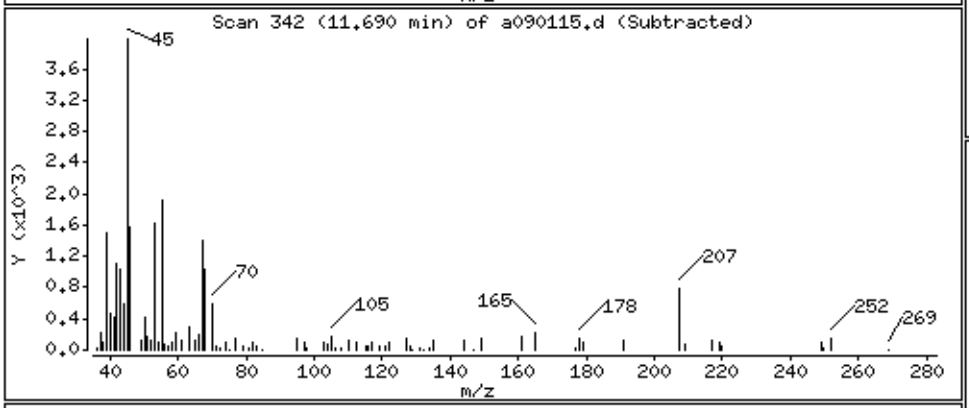
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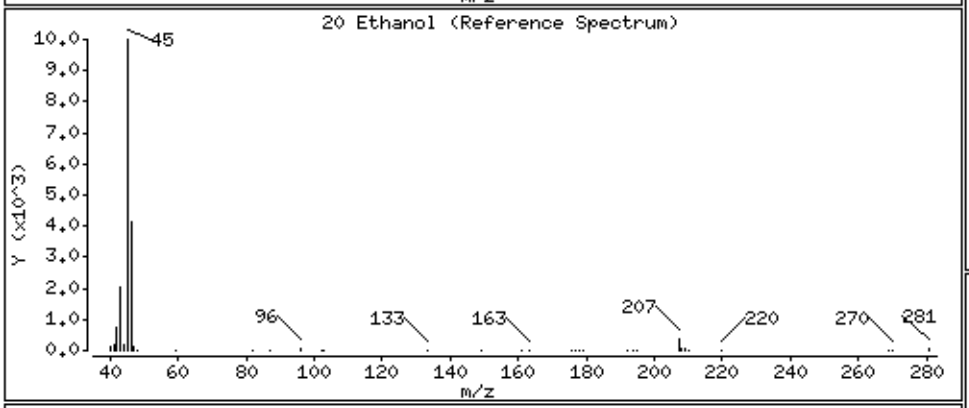
Column diameter: 0.32

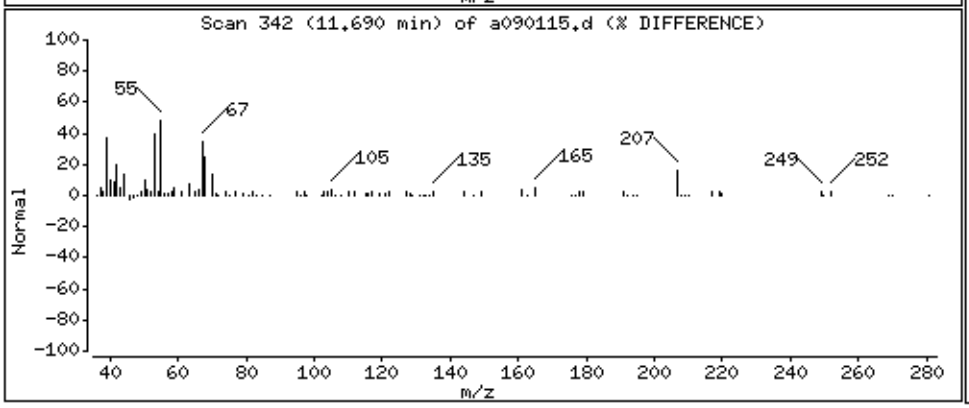
20 Ethanol

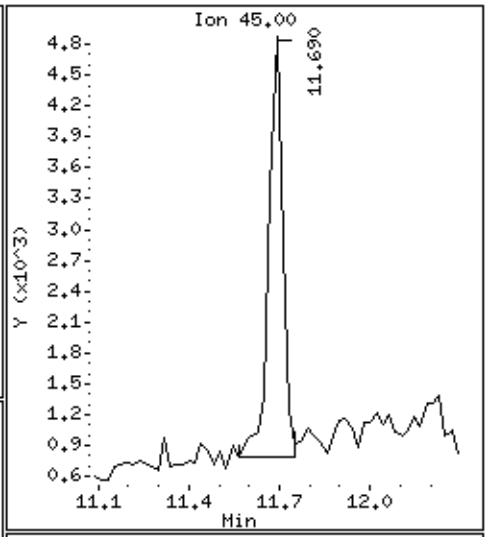
Concentration: 13.494 PPBV

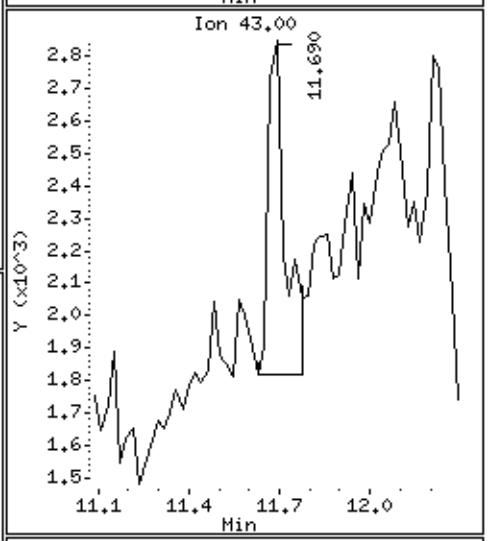


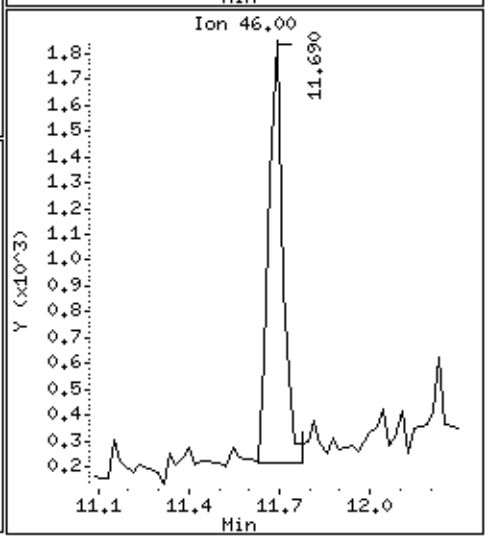



Data File: /chem/msda.i/01Sep2011.b/a090115.d

Date : 01-SEP-2011 19:59

Client ID:

Instrument: msda.i

Sample Info: 62.5mL #9557

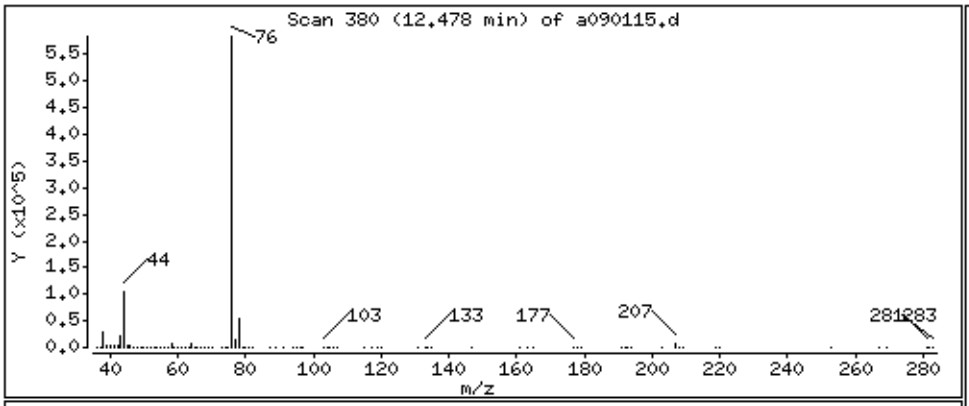
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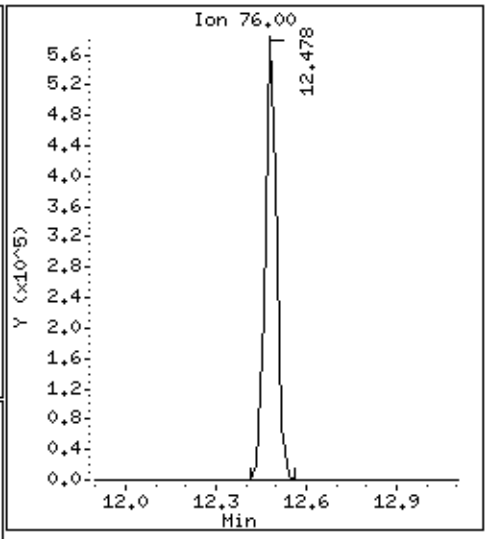
Column phase: RTx-624

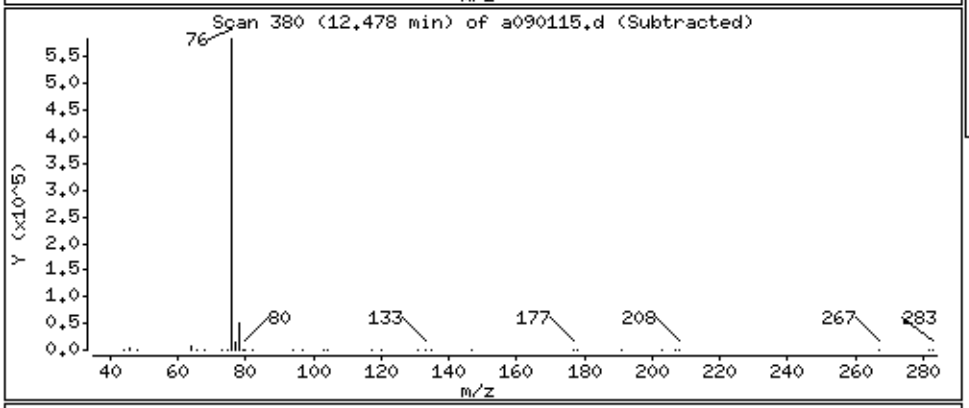
Column diameter: 0.32

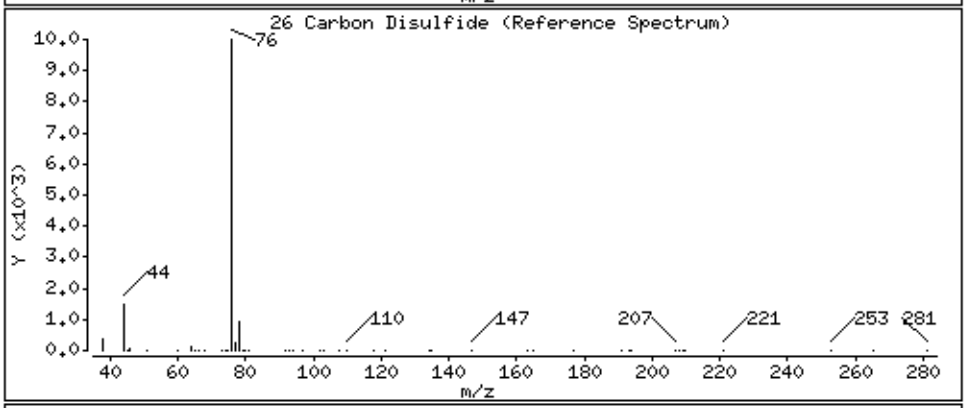
26 Carbon Disulfide

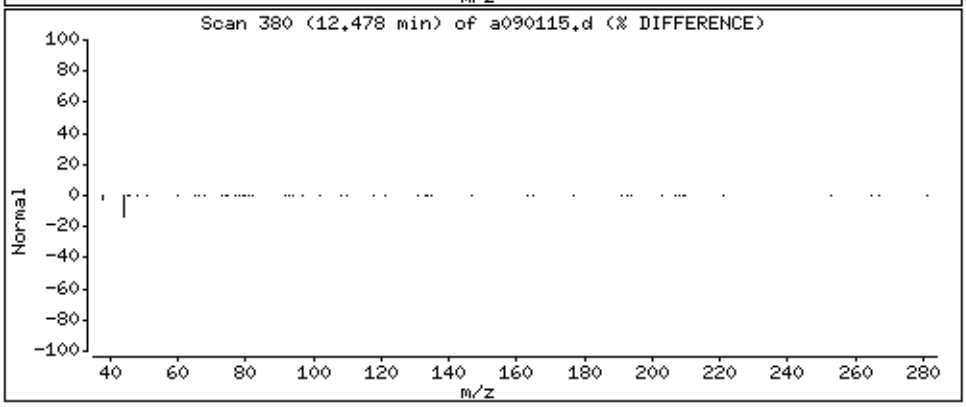
Concentration: 113.49 PPBV



Data File: /chem/msda.i/01Sep2011.b/a090115.d

Date : 01-SEP-2011 19:59

Client ID:

Instrument: msda.i

Sample Info: 62.5mL #9557

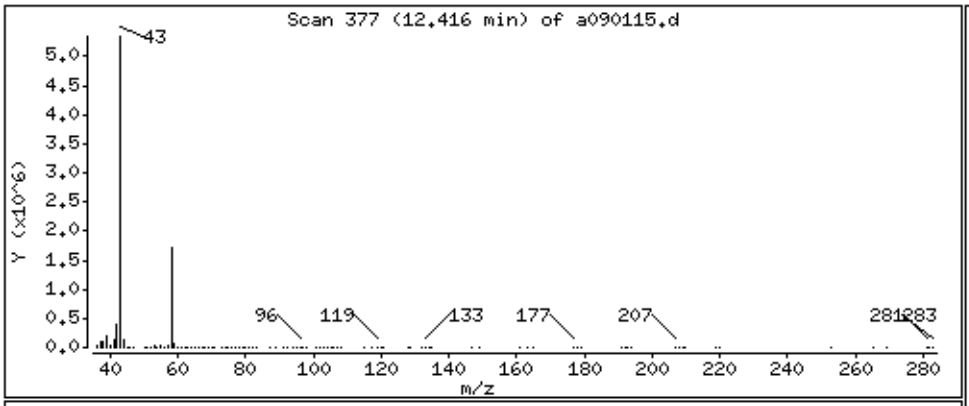
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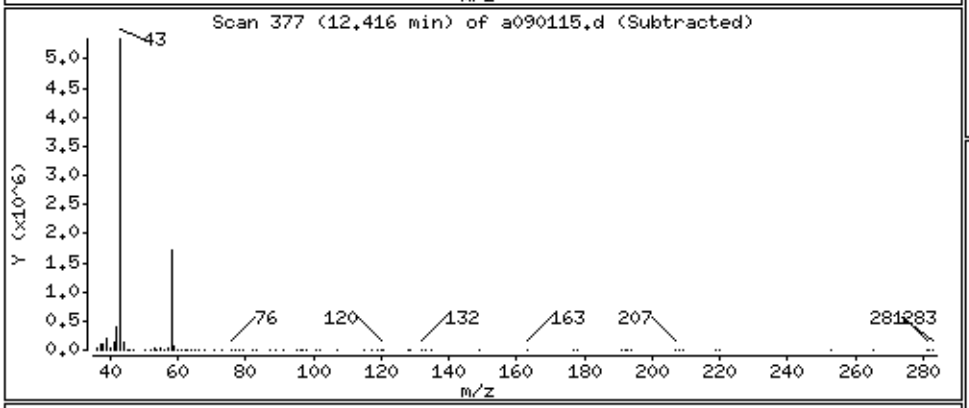
Column phase: RTx-624

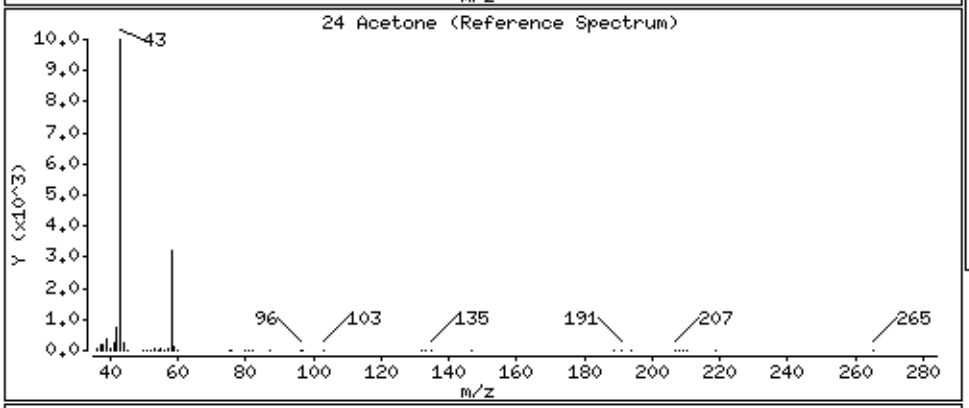
Column diameter: 0.32

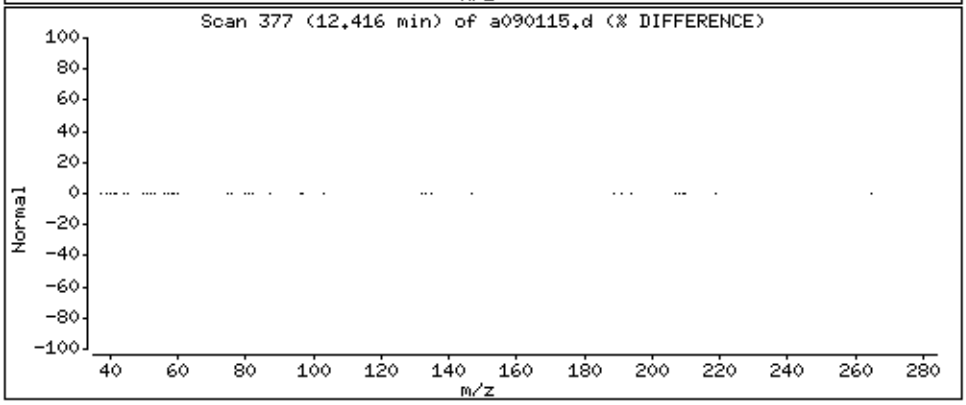
24 Acetone

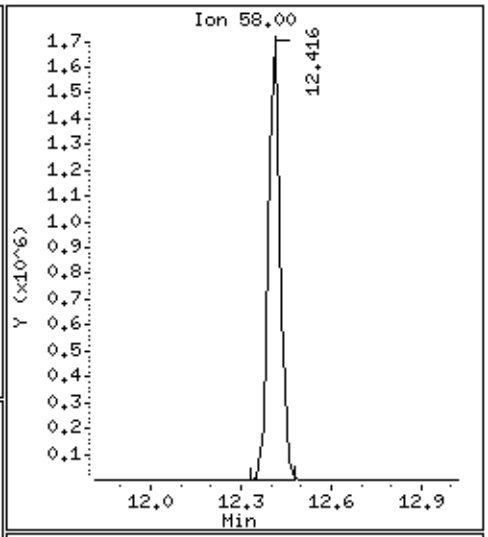
Concentration: 1404.8 PPBV

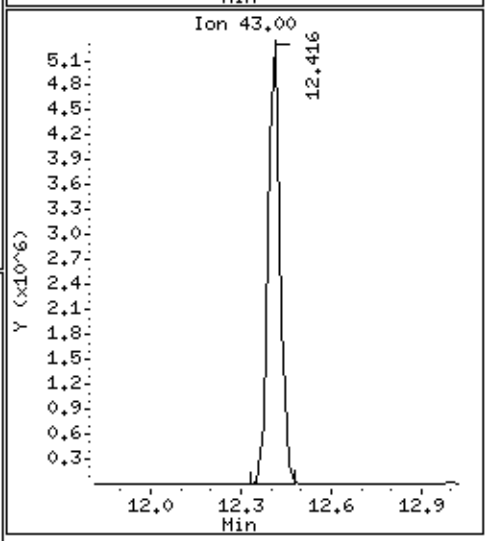


Data File: /chem/msda.i/01Sep2011.b/a090115.d

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Instrument: msda.i

Sample Info: 62.5mL #9557

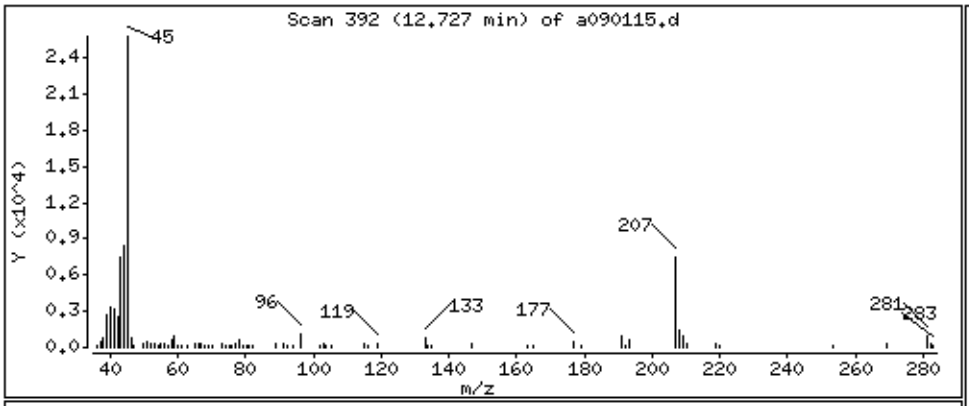
Operator: jc

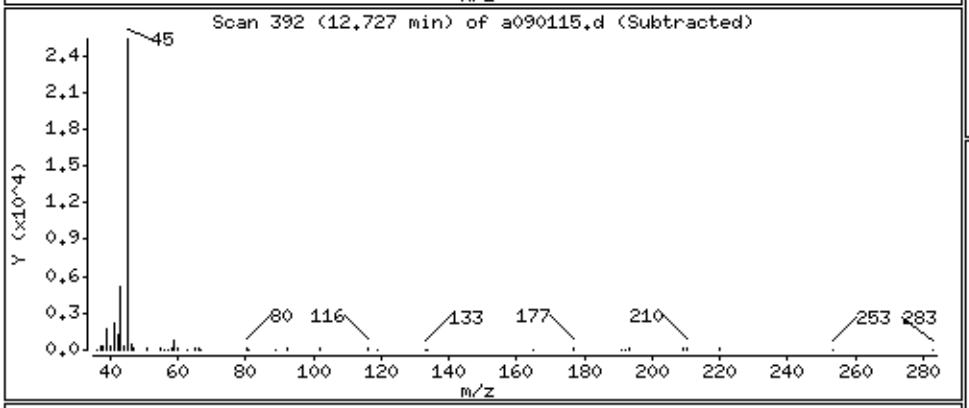
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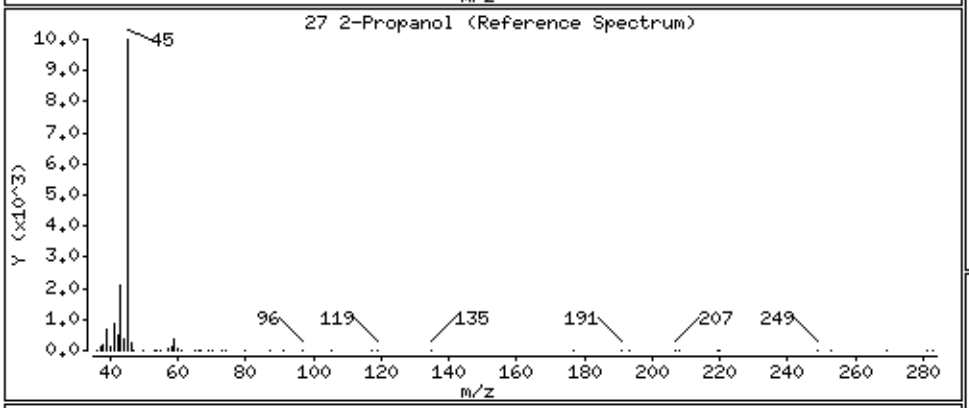
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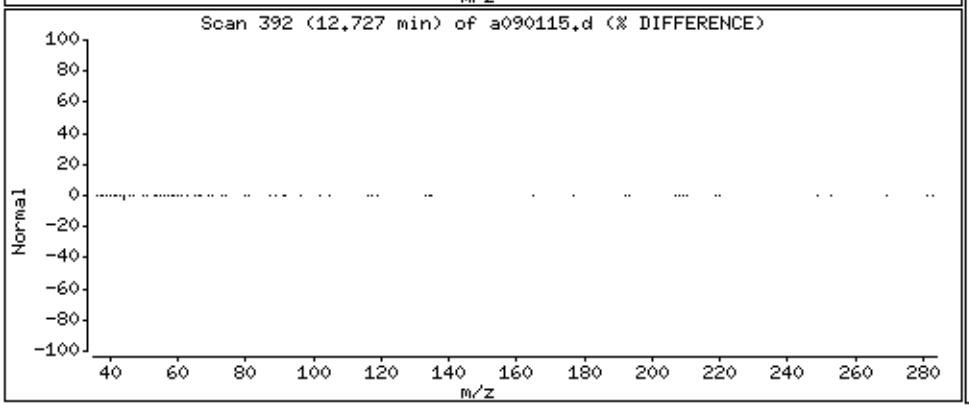
27 2-Propanol

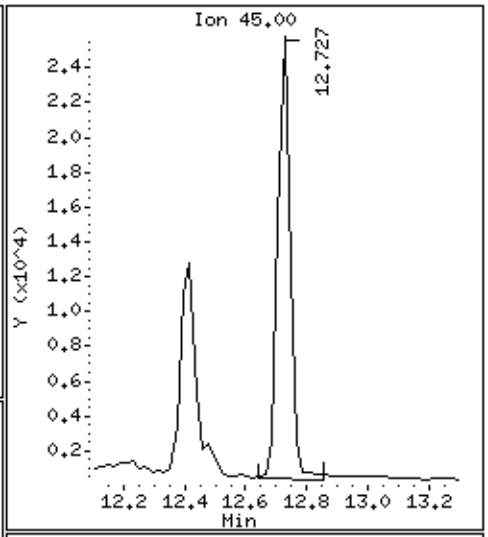
Concentration: 5.792 PPBV

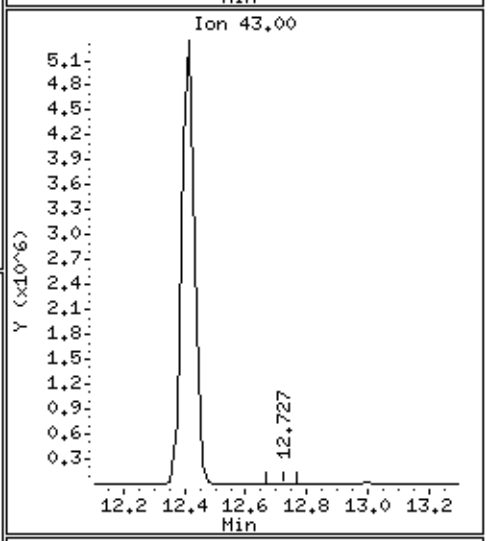


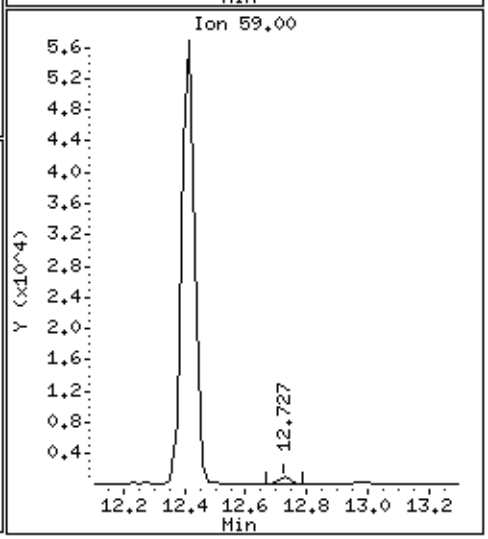



Data File: /chem/msda.i/01Sep2011.b/a090115.d

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Instrument: msda.i

Sample Info: 62.5mL #9557

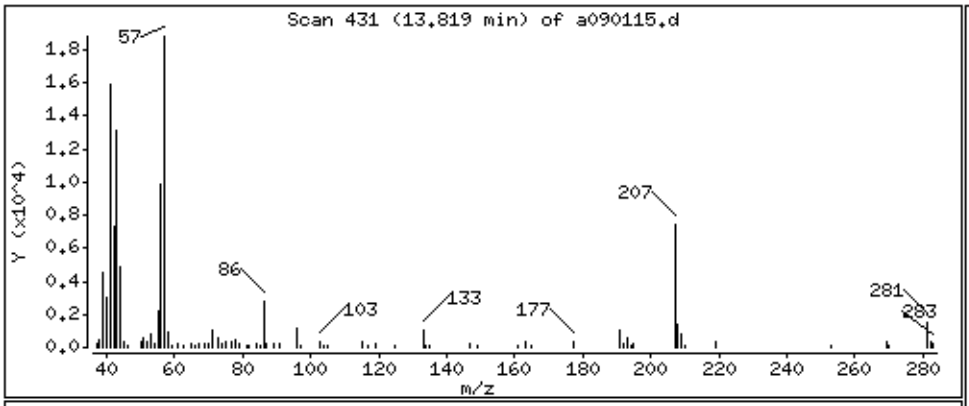
Operator: jc

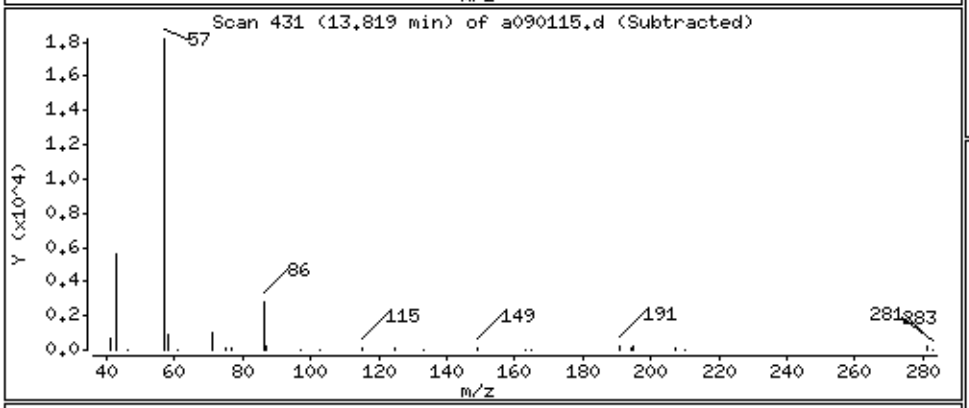
Column phase: RTx-624

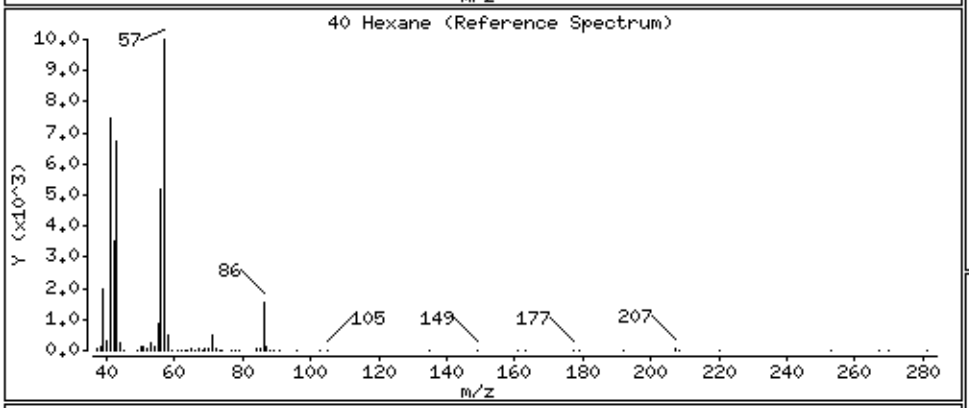
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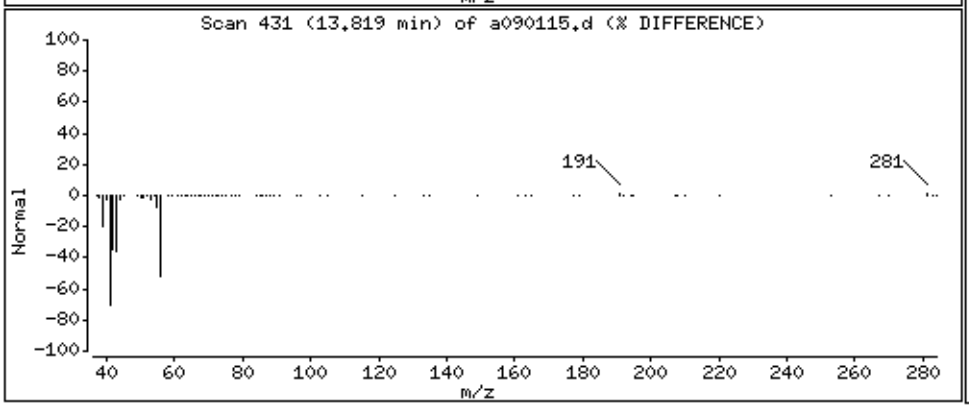
40 Hexane

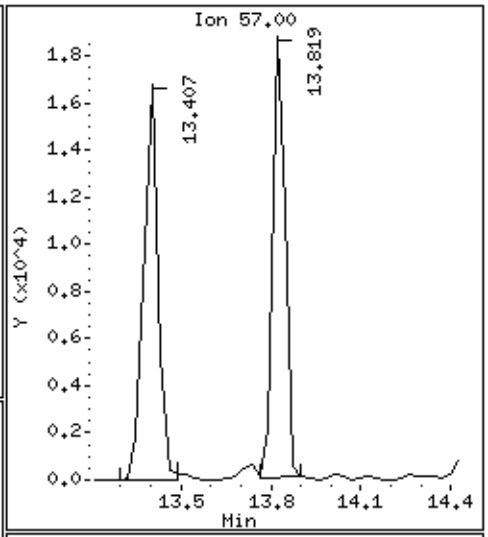
Concentration: 4.020 PPBV

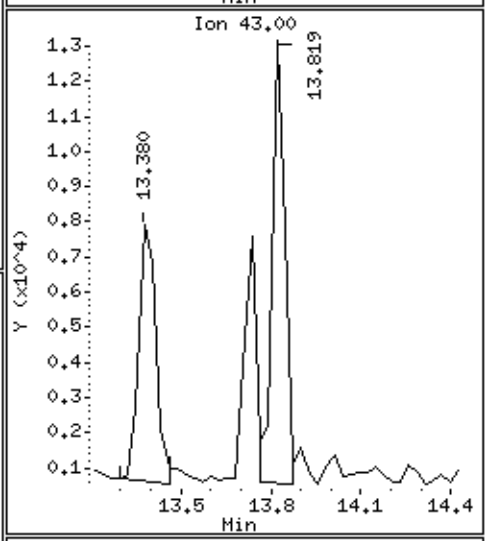


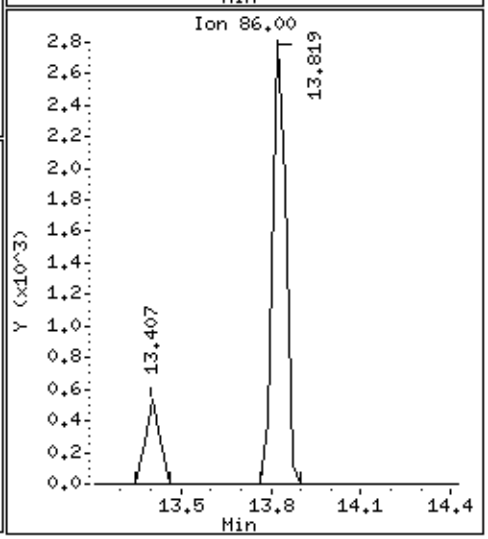



Data File: /chem/msda.i/01Sep2011.b/a090115.d

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Instrument: msda.i

Sample Info: 62.5mL #9557

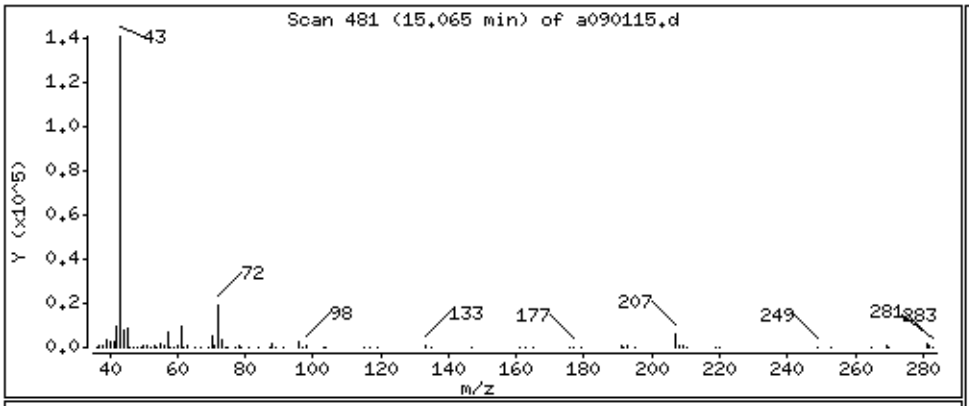
Operator: jc

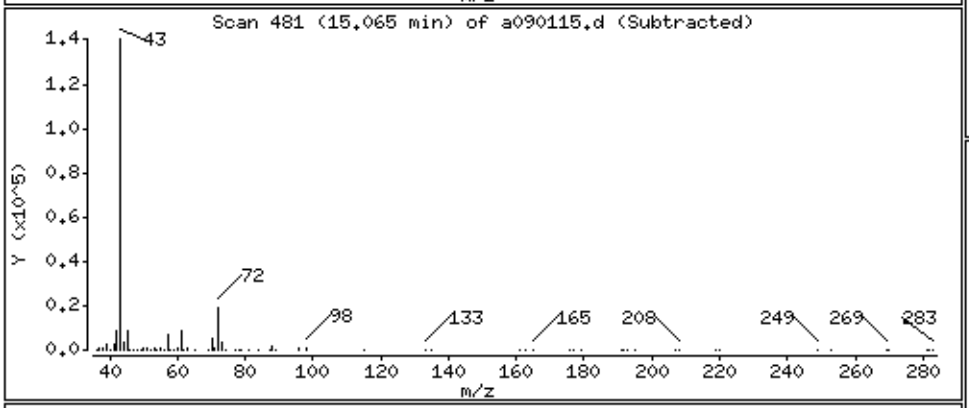
Column phase: RTx-624

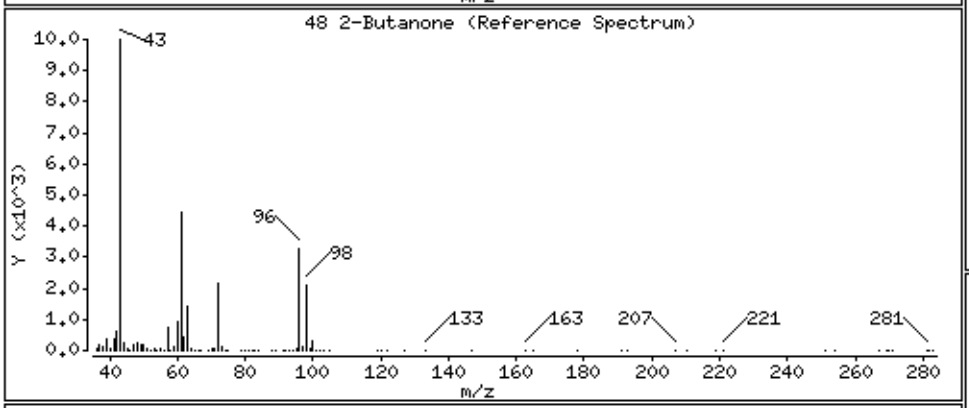
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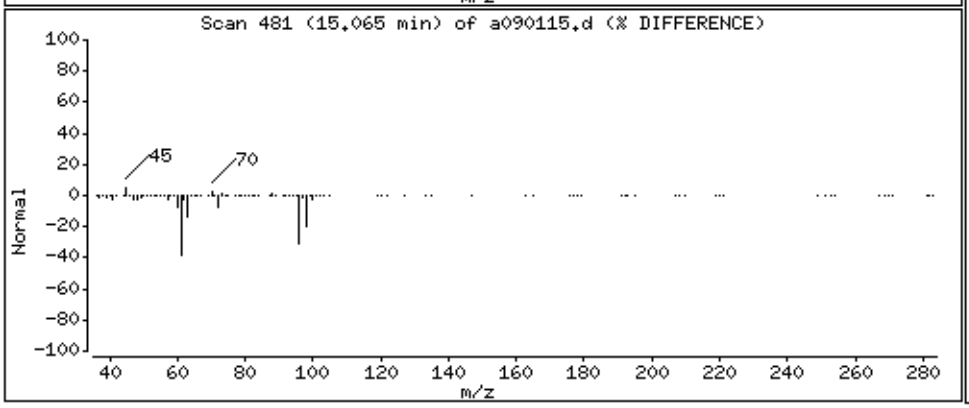
48 2-Butanone

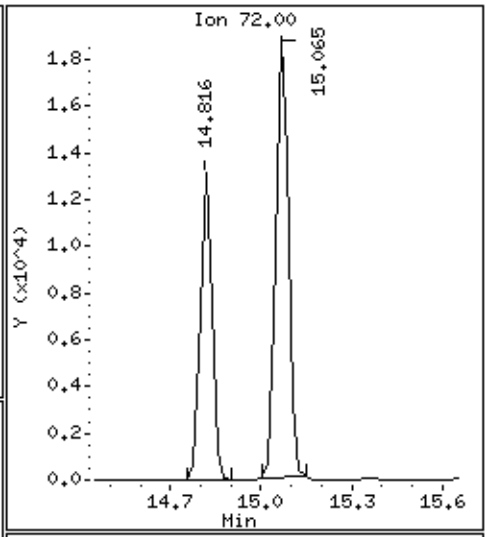
Concentration: 13.578 PPBV

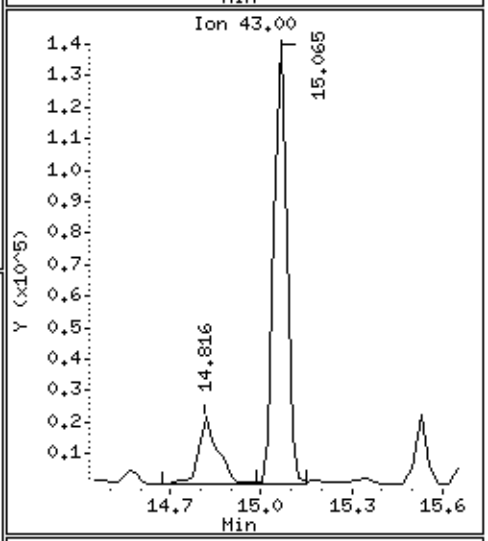


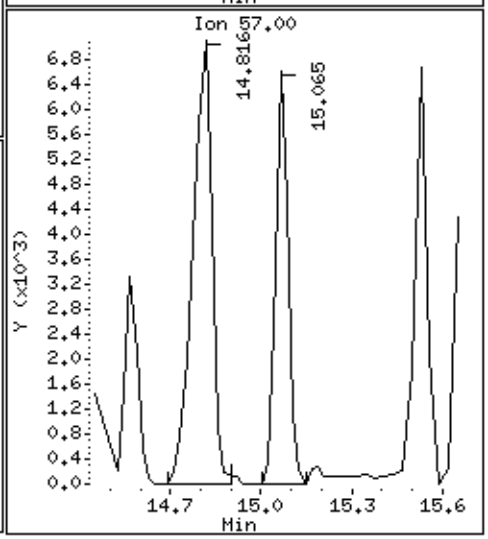



Data File: /chem/msda.i/01Sep2011.b/a090115.d

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Instrument: msda.i

Sample Info: 62.5mL #9557

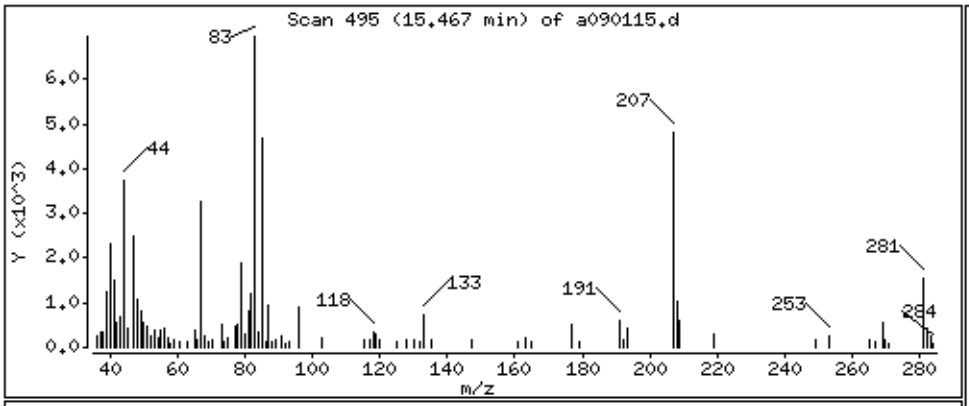
Operator: jc

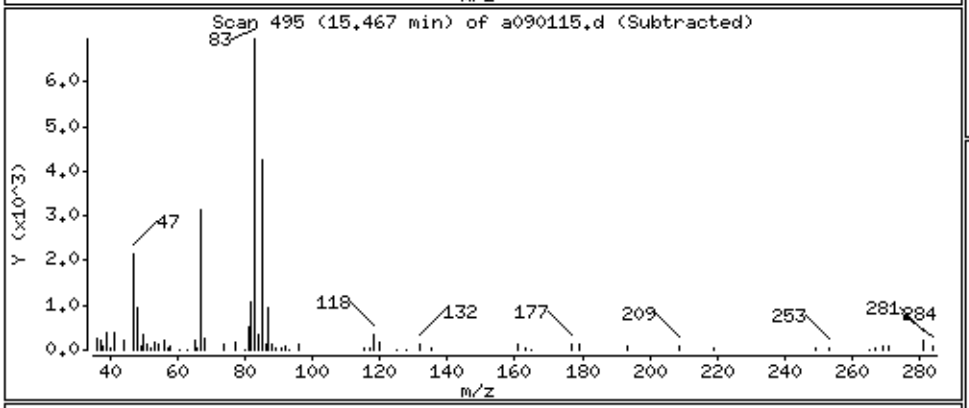
Column phase: RTx-624

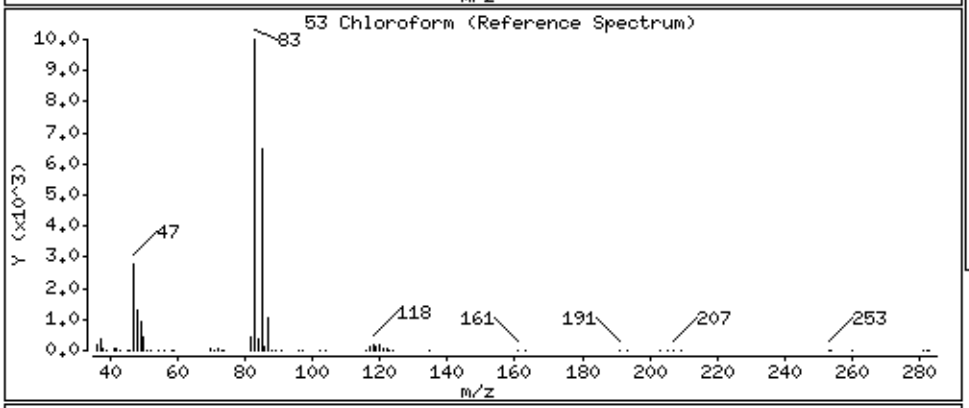
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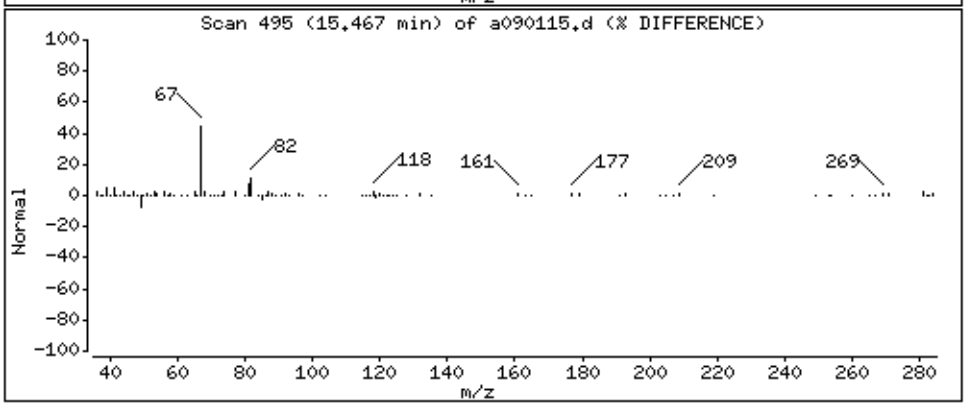
53 Chloroform

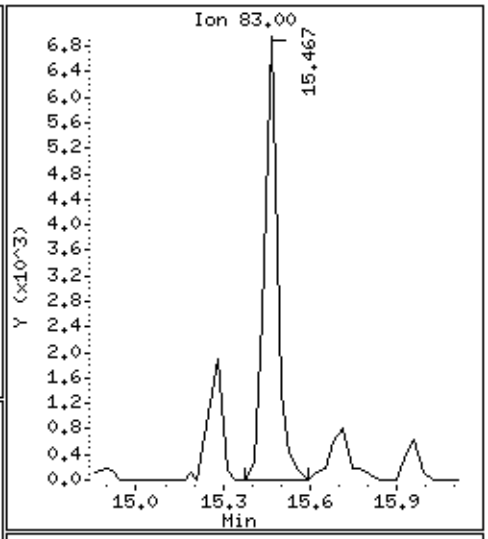
Concentration: 1.430 PPBV

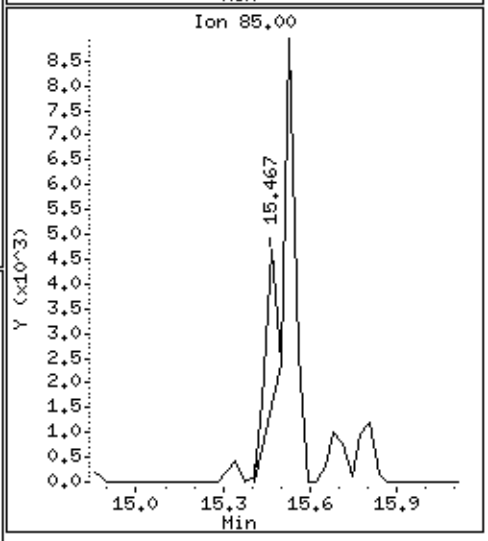


Data File: /chem/msda.i/01Sep2011.b/a090115.d

Date : 01-SEP-2011 19:59

Client ID:

Instrument: msda.i

Sample Info: 62.5mL #9557

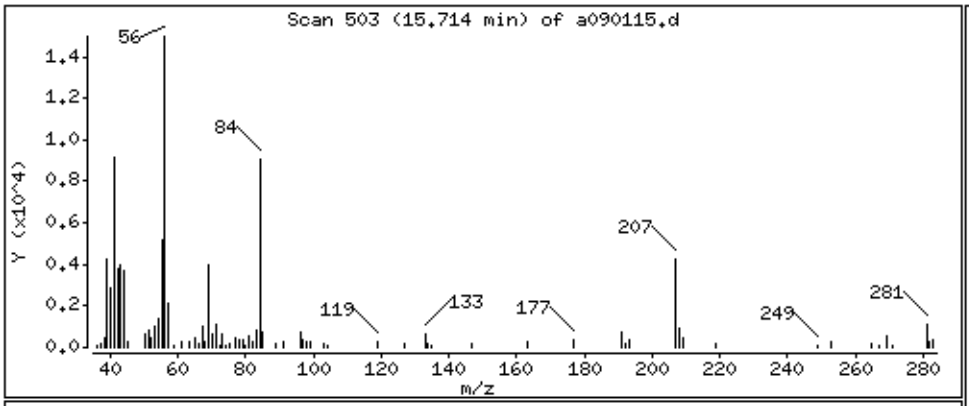
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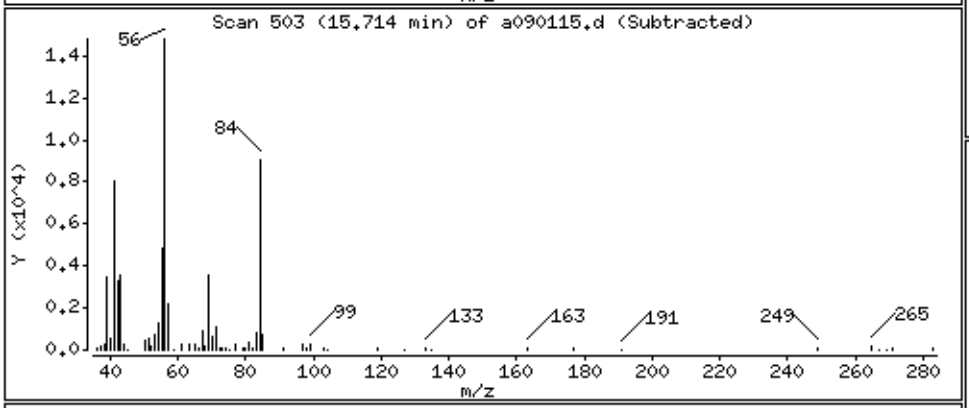
Column phase: RTx-624

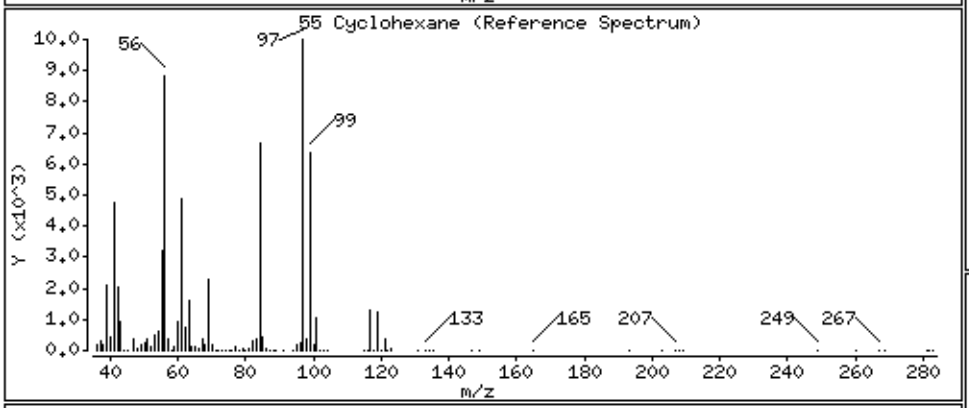
Column diameter: 0.32

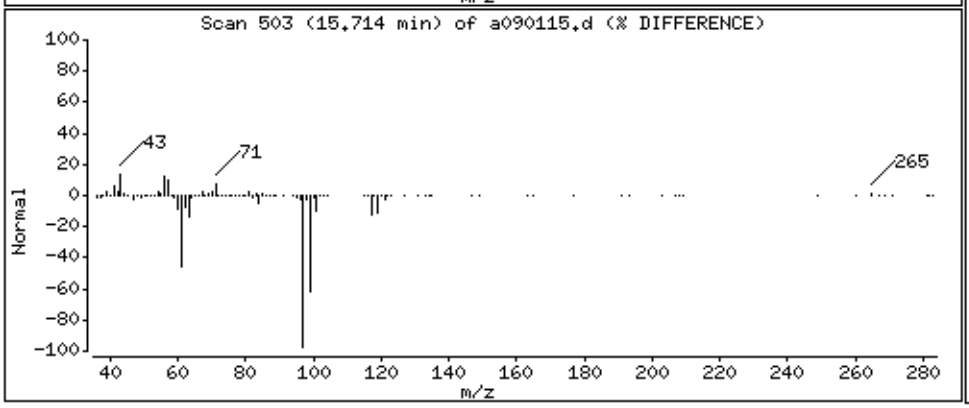
55 Cyclohexane

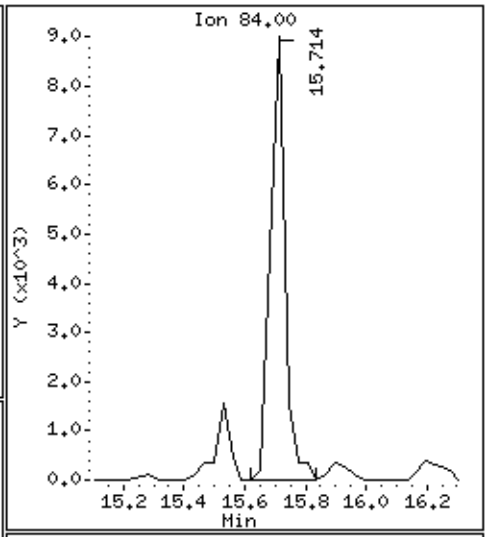
Concentration: 2.682 PPBV

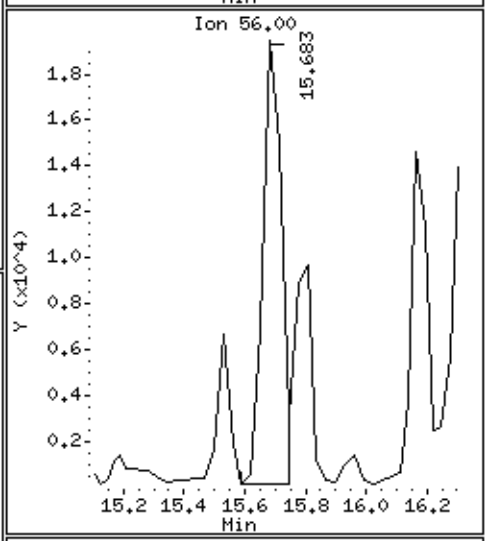


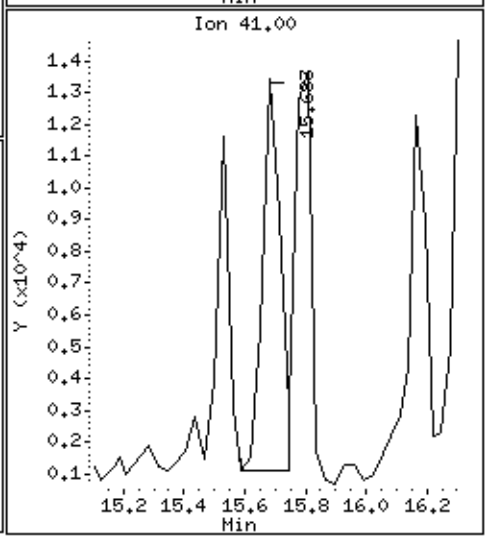



Data File: /chem/msda.i/01Sep2011.b/a090115.d

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Client ID:

Instrument: msda.i

Sample Info: 62.5mL #9557

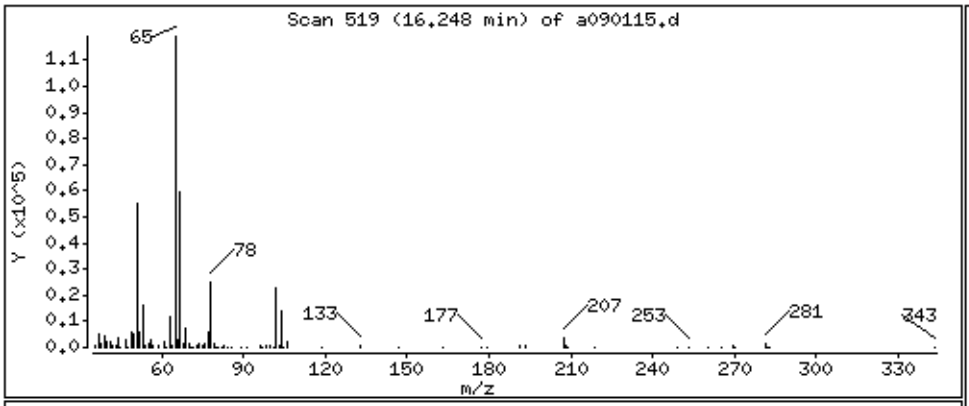
Operator: jc

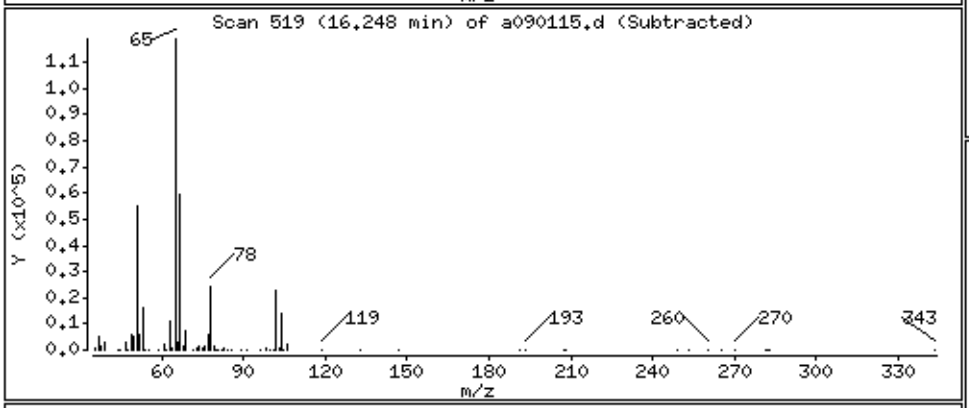
Column phase: RTx-624

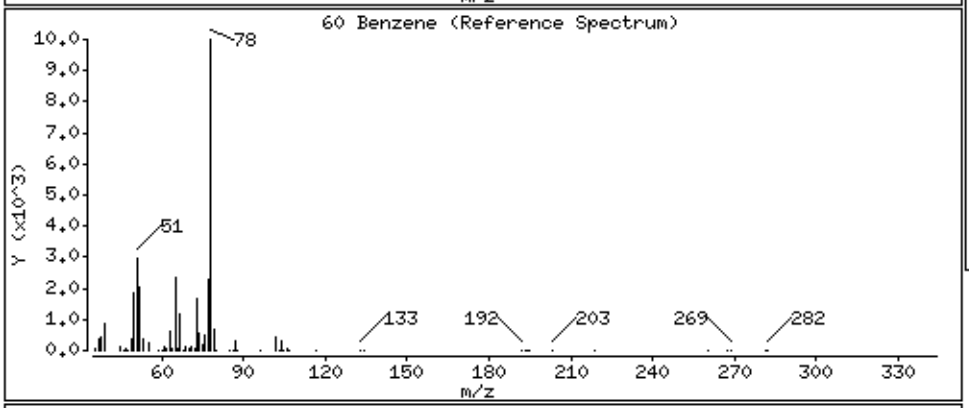
Column diameter: 0.32

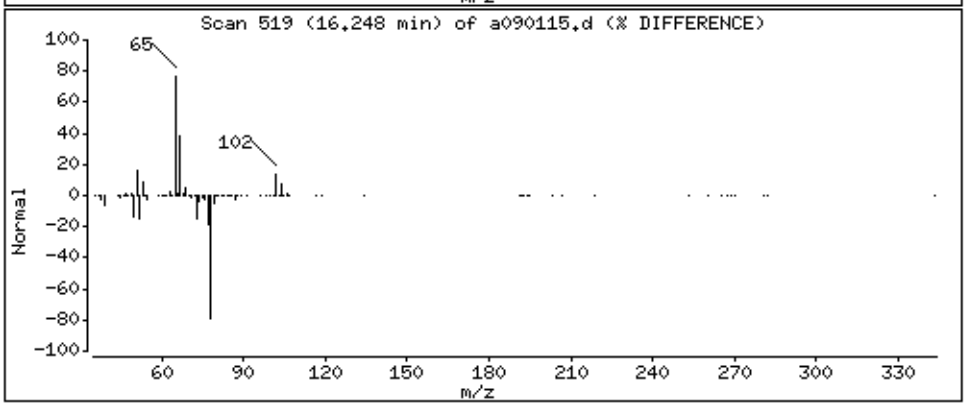
60 Benzene

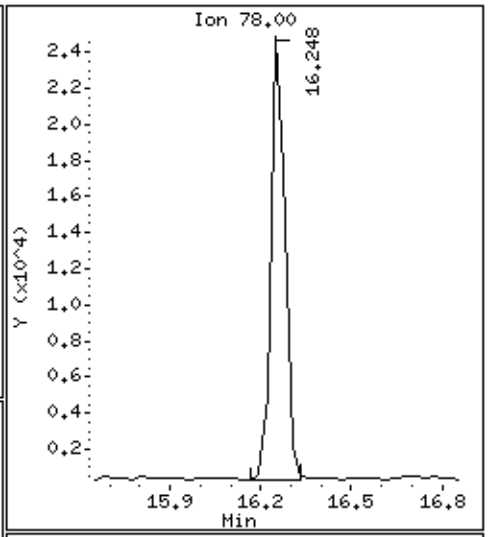
Concentration: 3.383 PPBV

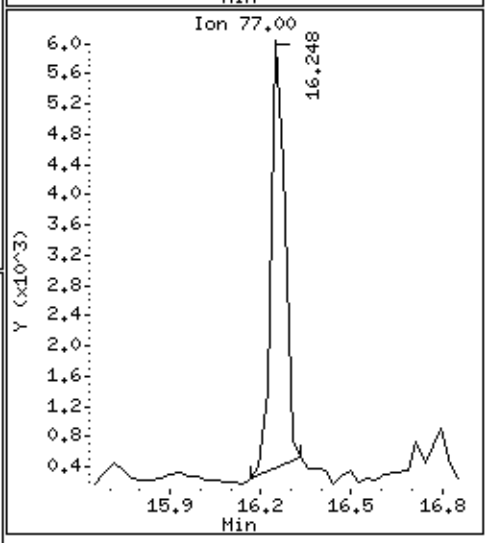


Data File: /chem/msda.i/01Sep2011.b/a090115.d

Date : 01-SEP-2011 19:59

Client ID:

Instrument: msda.i

Sample Info: 62.5mL #9557

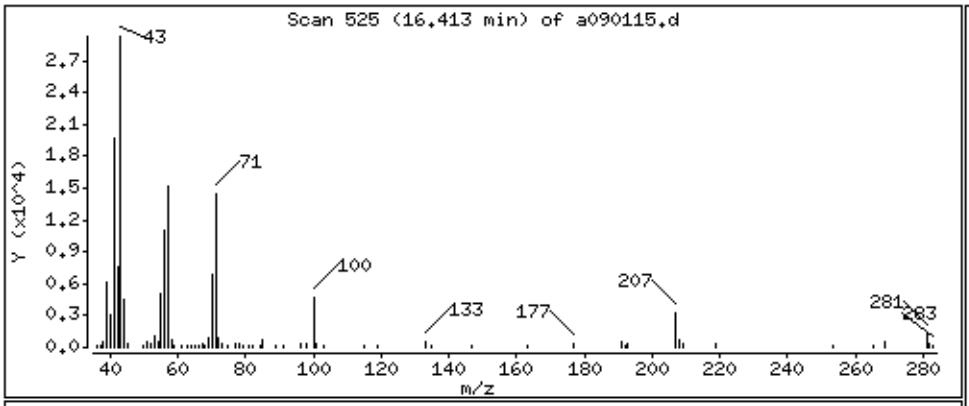
Operator: jc

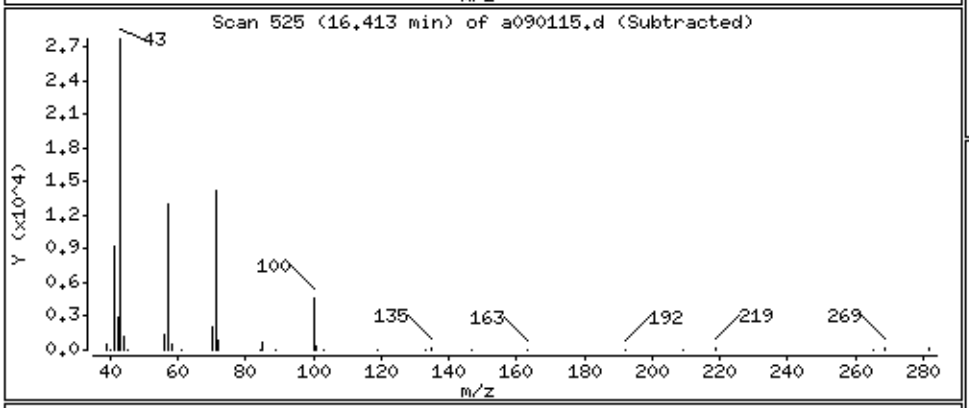
Column phase: RTx-624

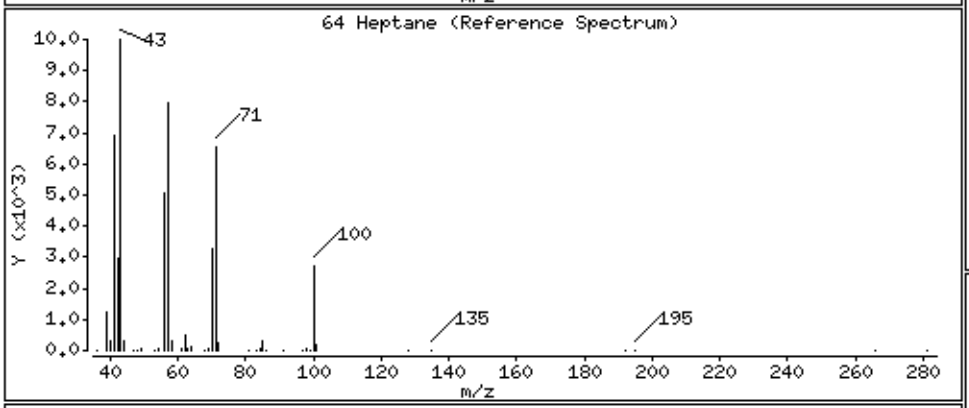
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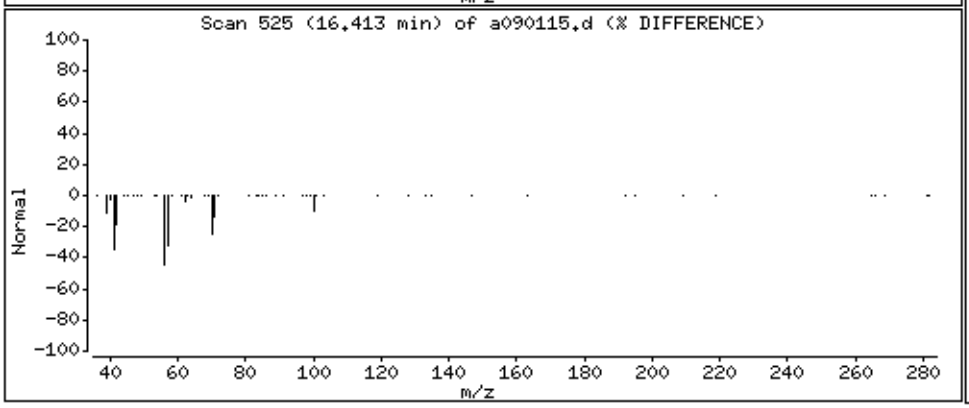
64 Heptane

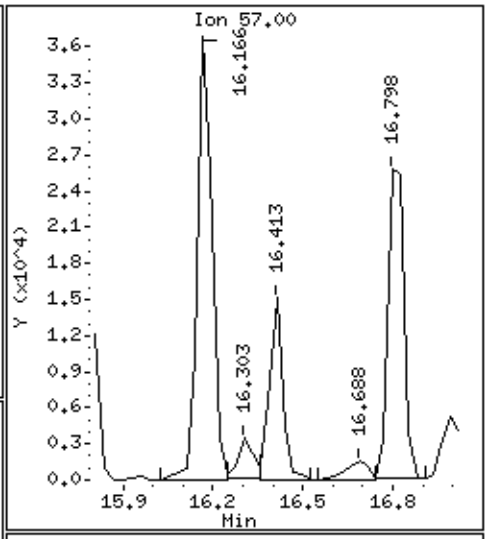
Concentration: 5.881 PPBV

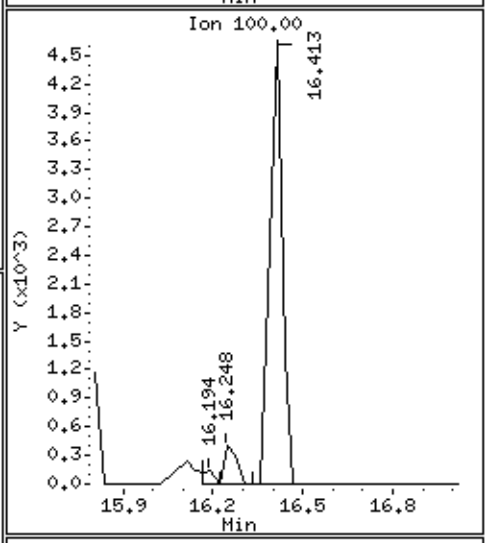


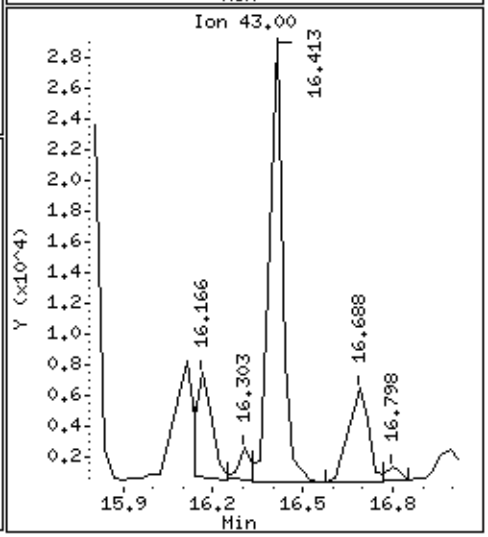



Data File: /chem/msda.i/01Sep2011.b/a090115.d

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Client ID:

Instrument: msda.i

Sample Info: 62.5mL #9557

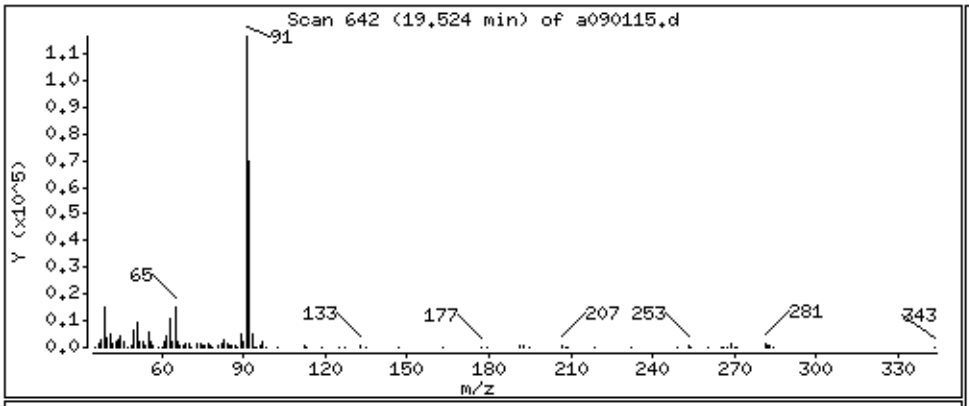
Operator: jc

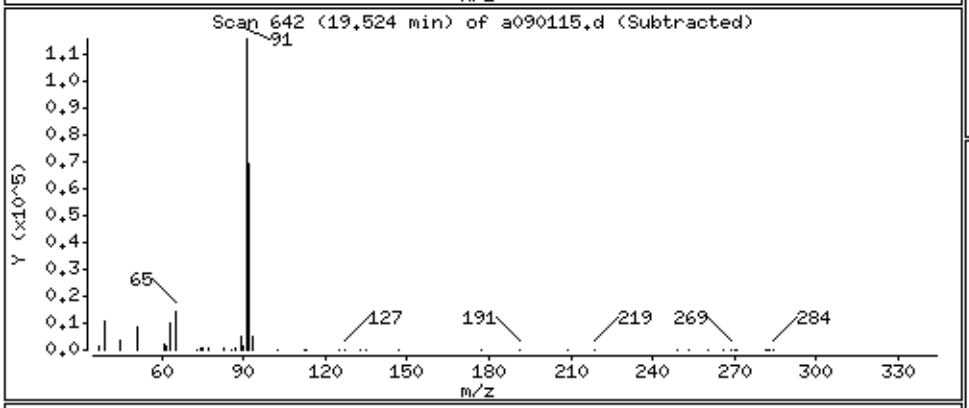
Column phase: RTx-624

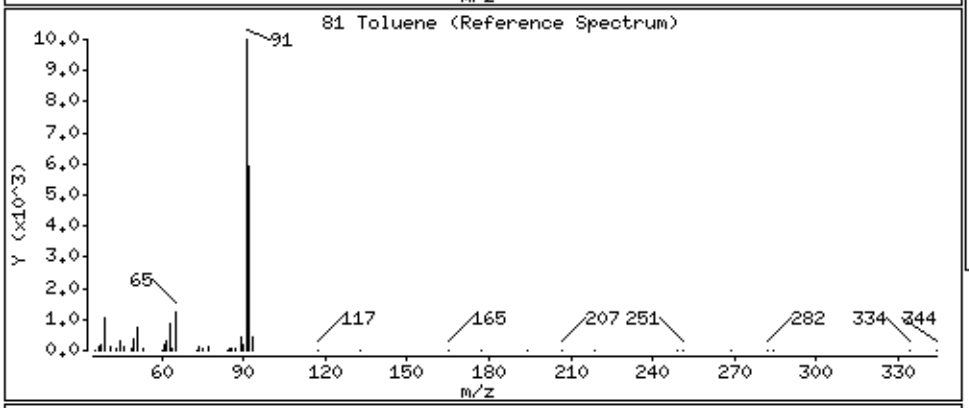
Column diameter: 0.32

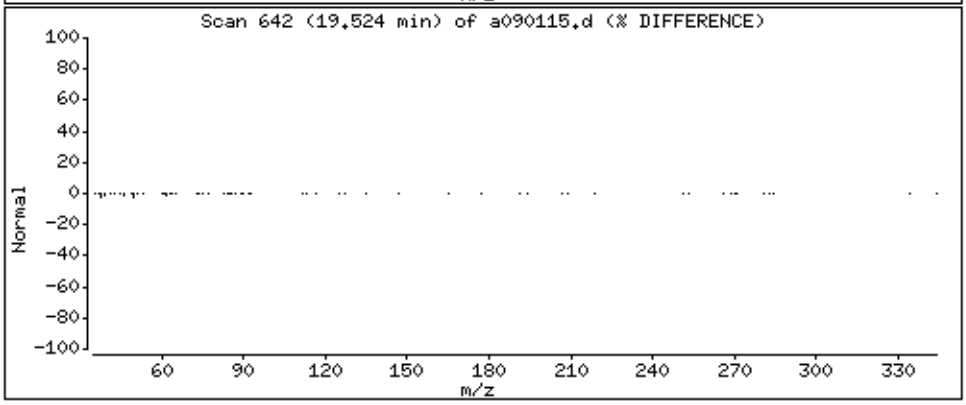
81 Toluene

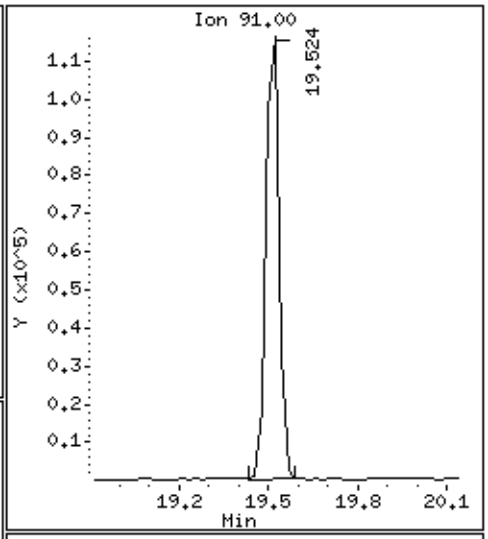
Concentration: 13.328 PPBV

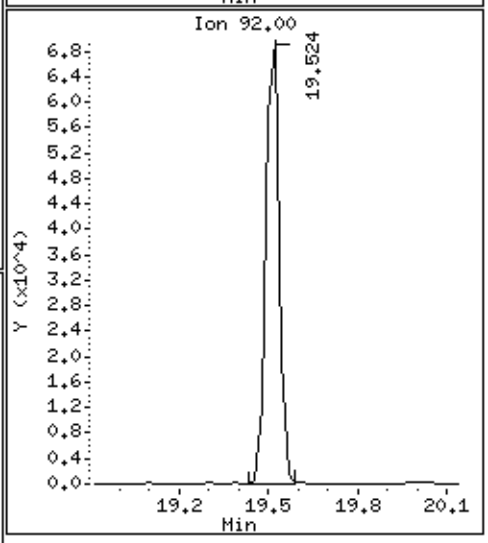


Data File: /chem/msda.i/01Sep2011.b/a090115.d

Date : 01-SEP-2011 19:59

Client ID:

Instrument: msda.i

Sample Info: 62.5mL #9557

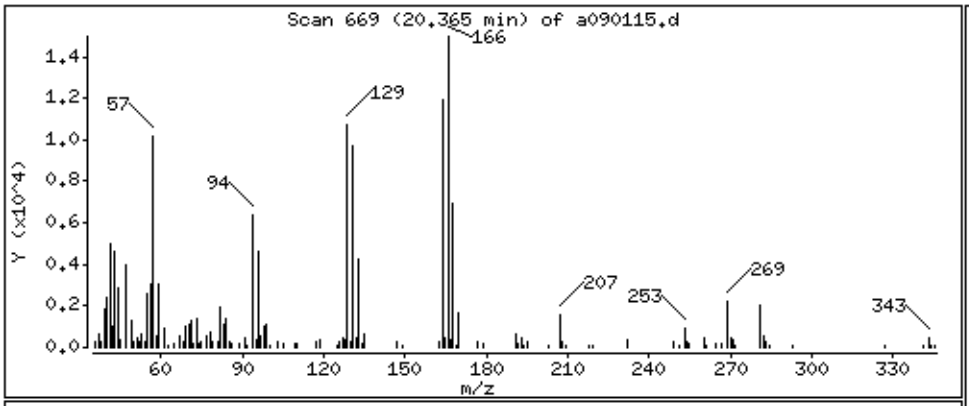
Operator: jc

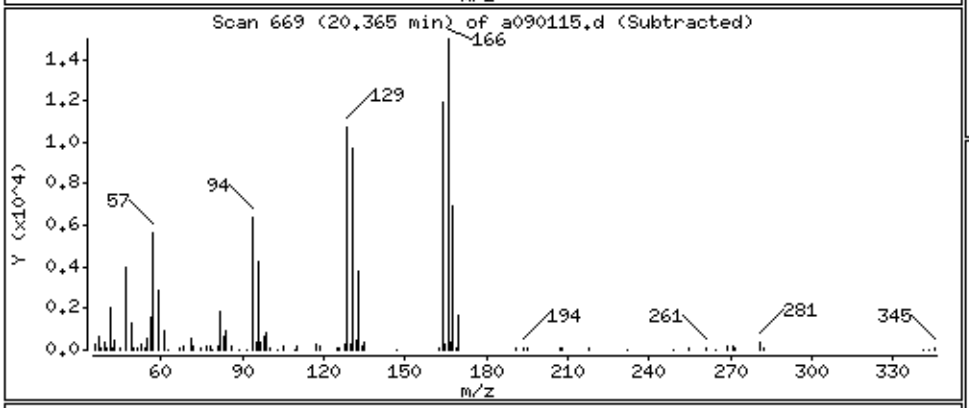
Column phase: RTx-624

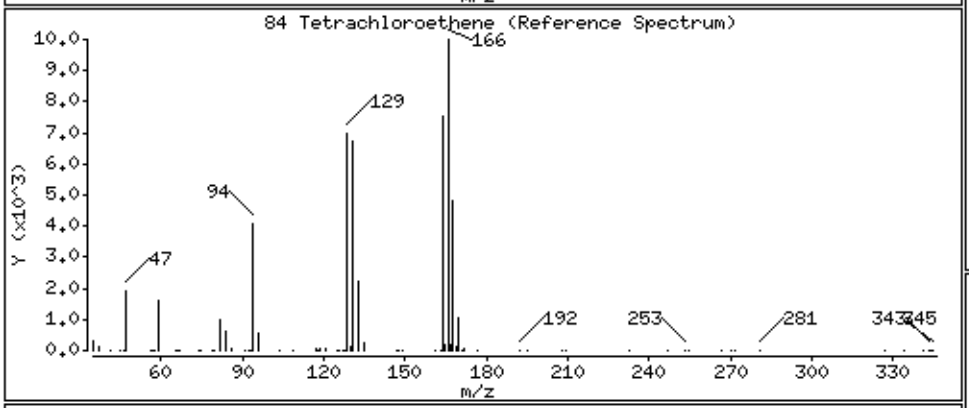
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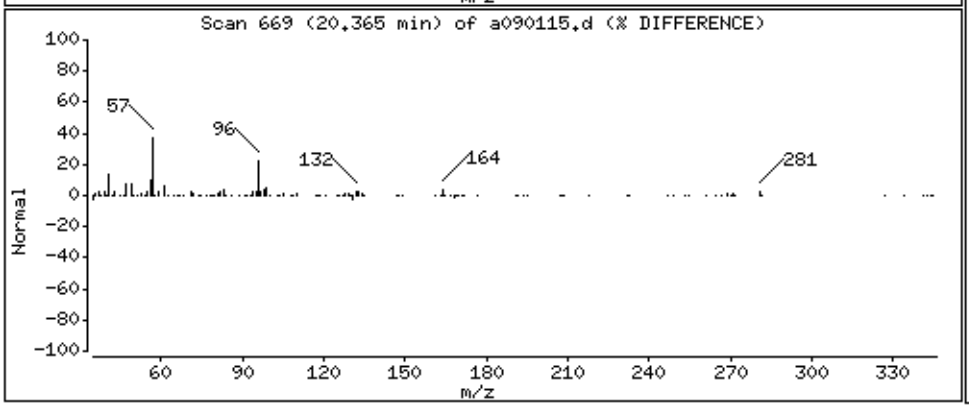
84 Tetrachloroethene

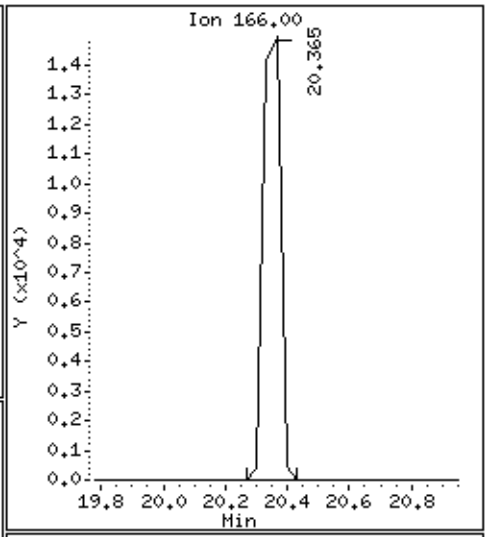
Concentration: 5.543 PPBV

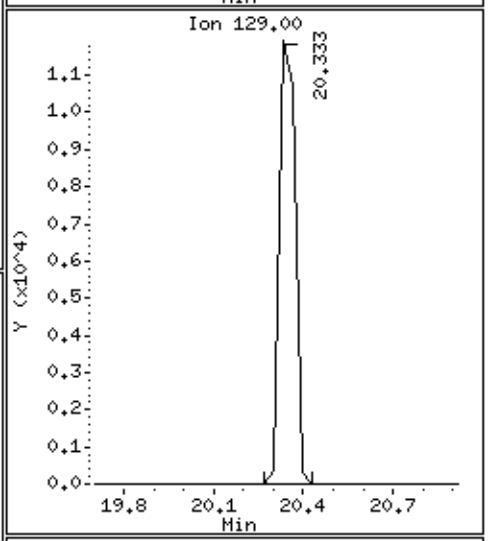


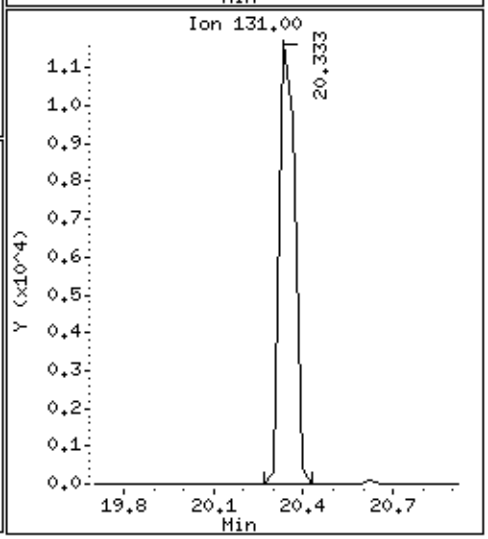



Data File: /chem/msda.i/01Sep2011.b/a090115.d

Date : 01-SEP-2011 19:59

Client ID:

Instrument: msda.i

Sample Info: 62.5mL #9557

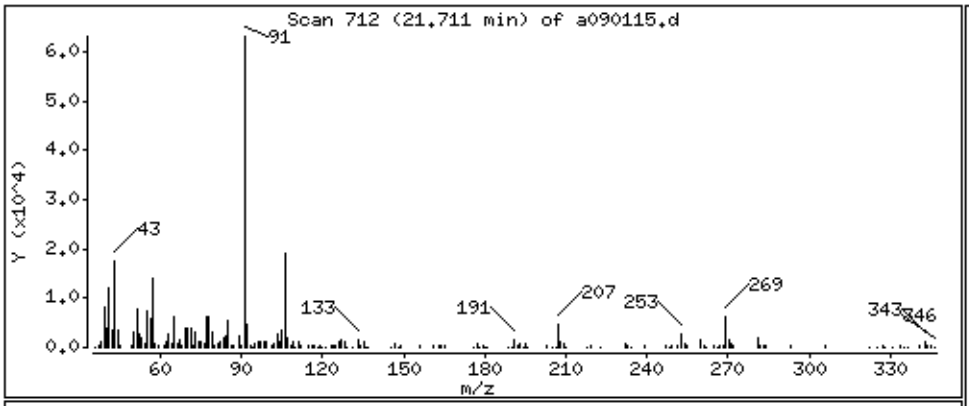
Operator: jc

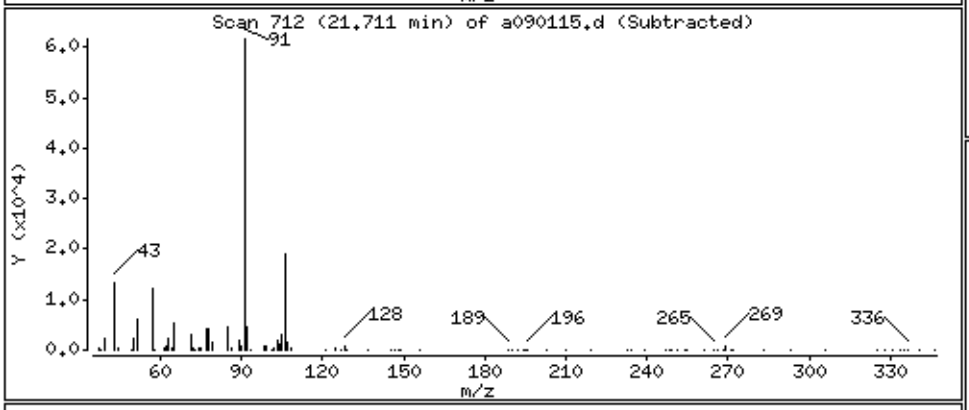
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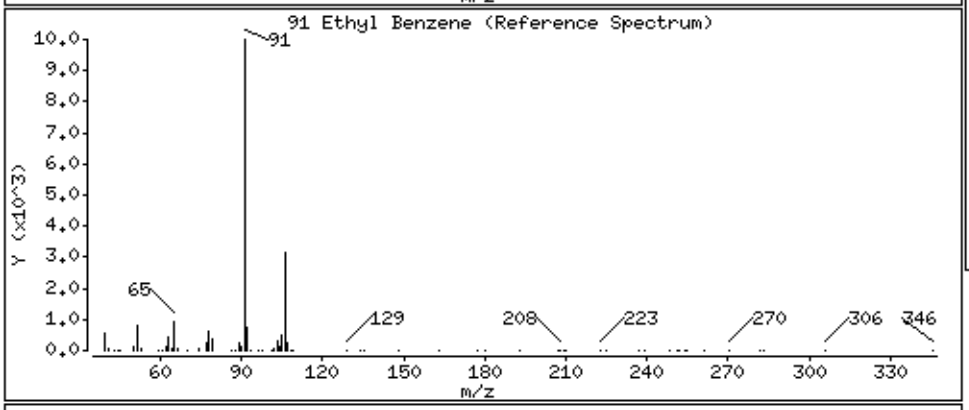
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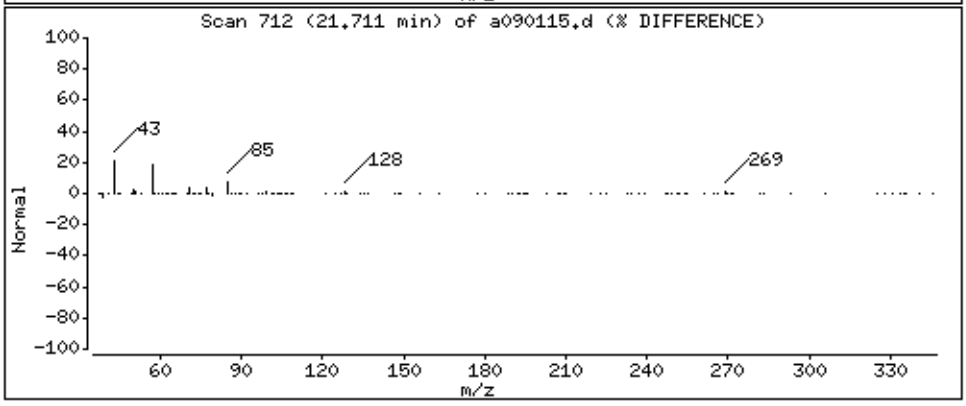
91 Ethyl Benzene

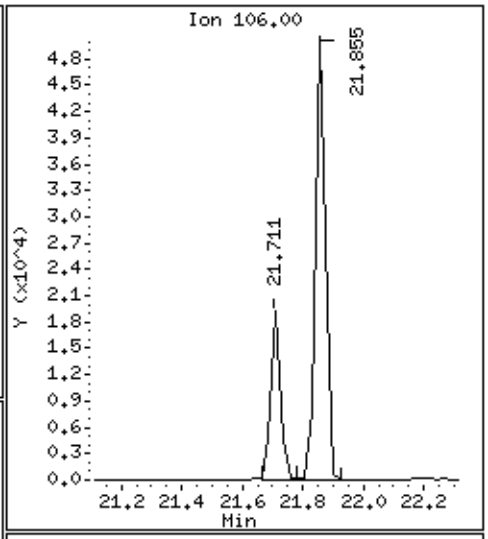
Concentration: 4.380 PPBV

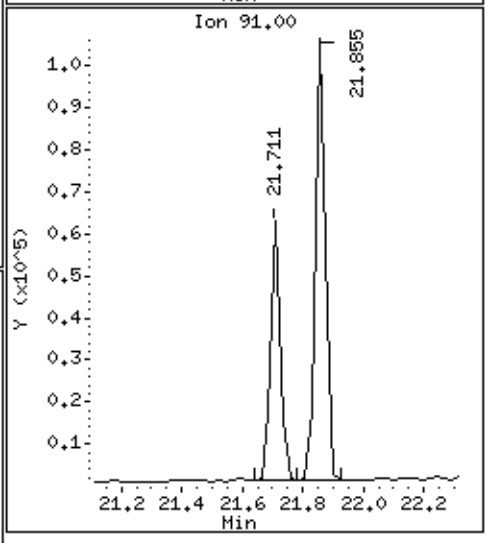


Data File: /chem/msda.i/01Sep2011.b/a090115.d

Date : 01-SEP-2011 19:59

Client ID:

Instrument: msda.i

Sample Info: 62.5mL #9557

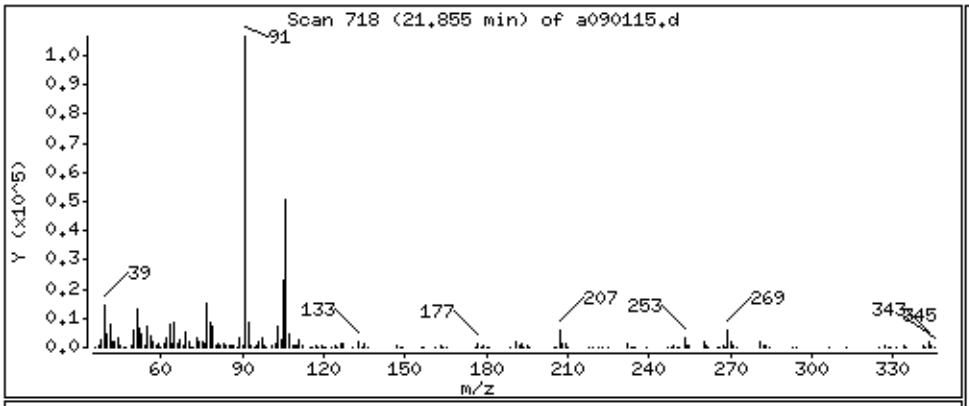
Operator: jc

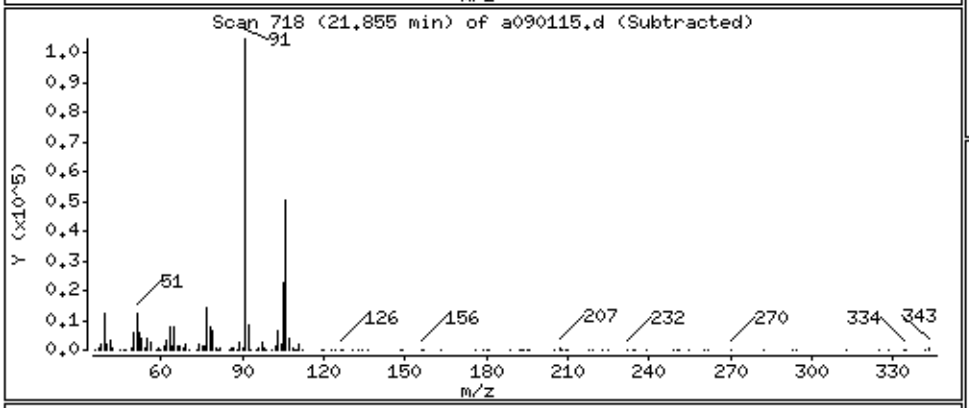
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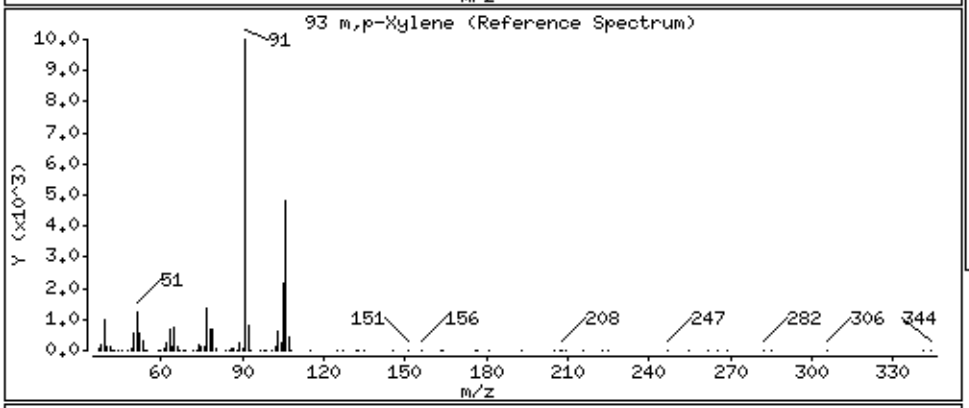
Column diameter: 0.32

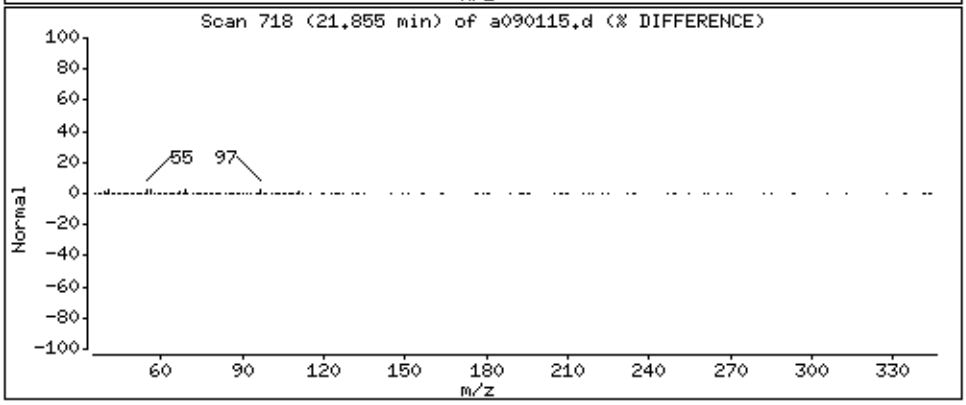
93 m,p-Xylene

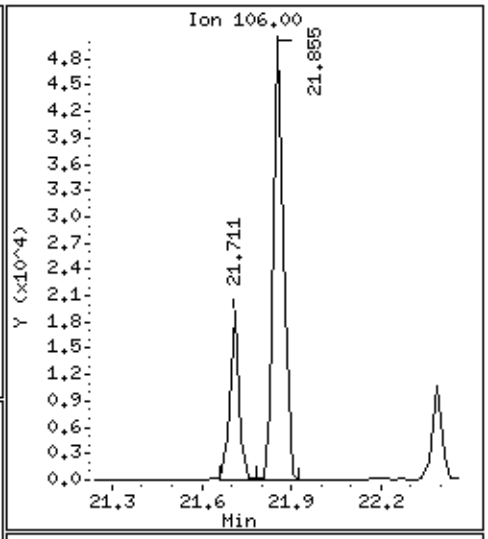
Concentration: 10.989 PPBV

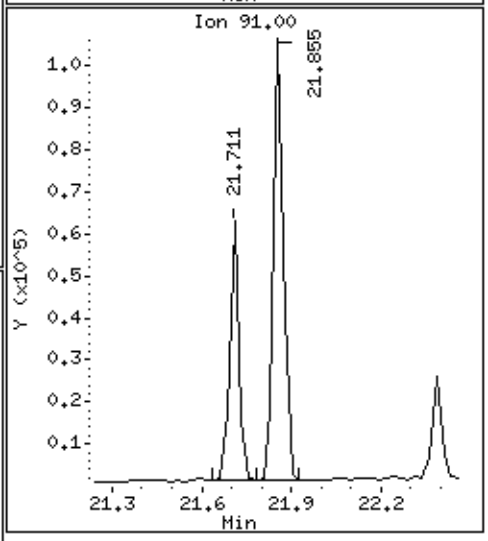


Data File: /chem/msda.i/01Sep2011.b/a090115.d

Date : 01-SEP-2011 19:59

Client ID:

Instrument: msda.i

Sample Info: 62.5mL #9557

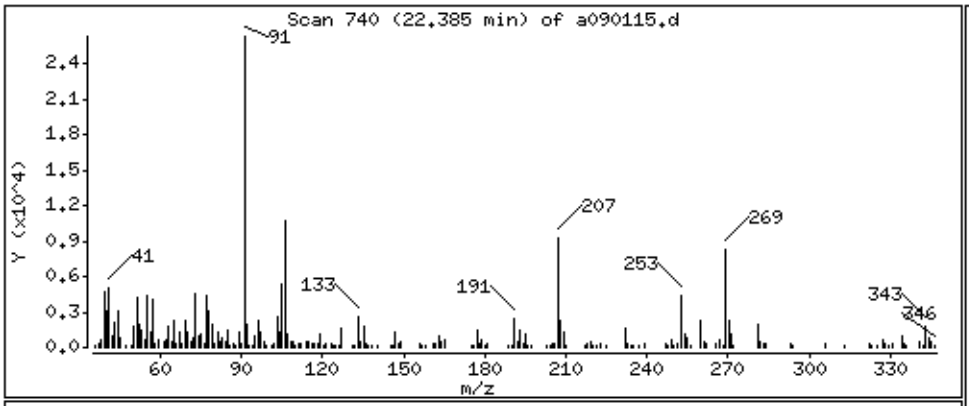
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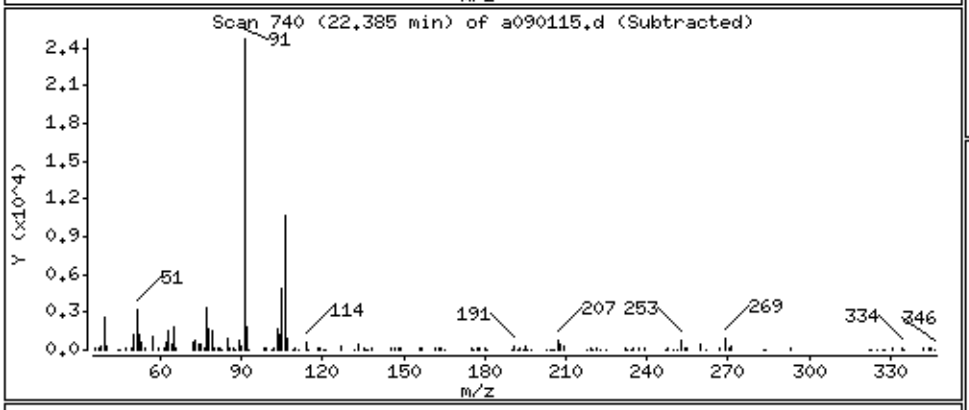
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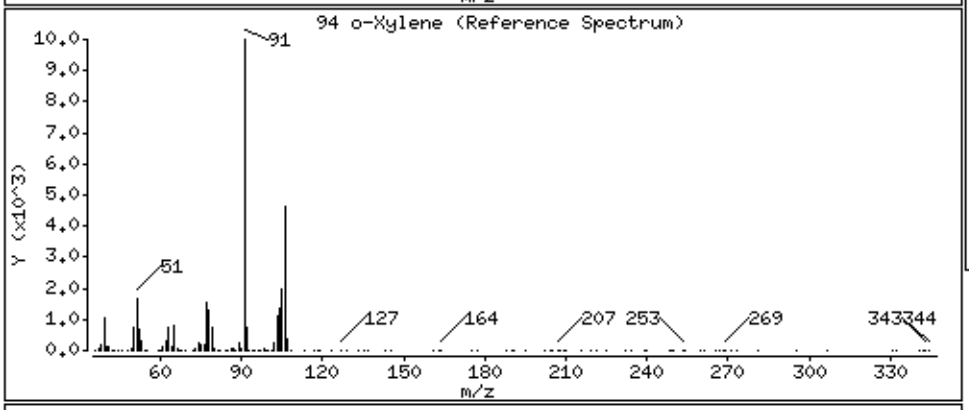
Column diameter: 0.32

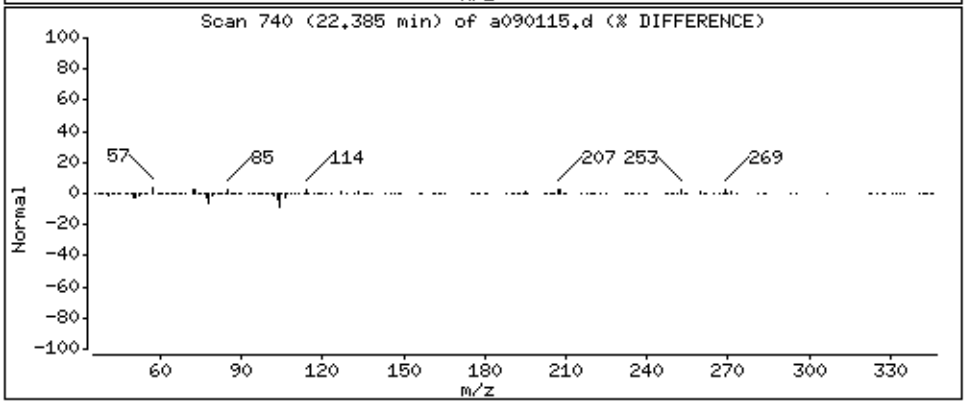
94 o-Xylene

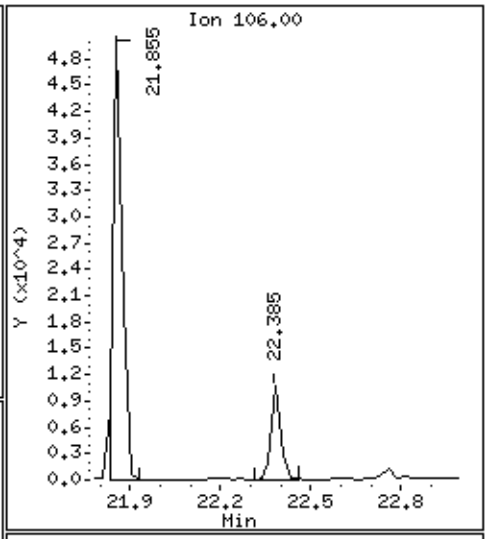
Concentration: 2.309 PPBV

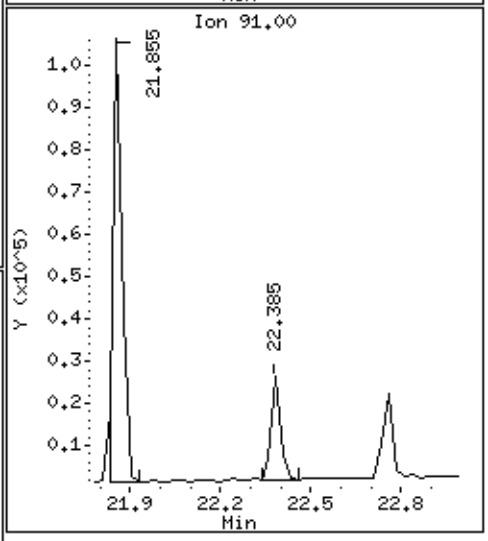


Data File: /chem/msda.i/01Sep2011.b/a090115.d

Date : 01-SEP-2011 19:59

Client ID:

Instrument: msda.i

Sample Info: 62.5mL #9557

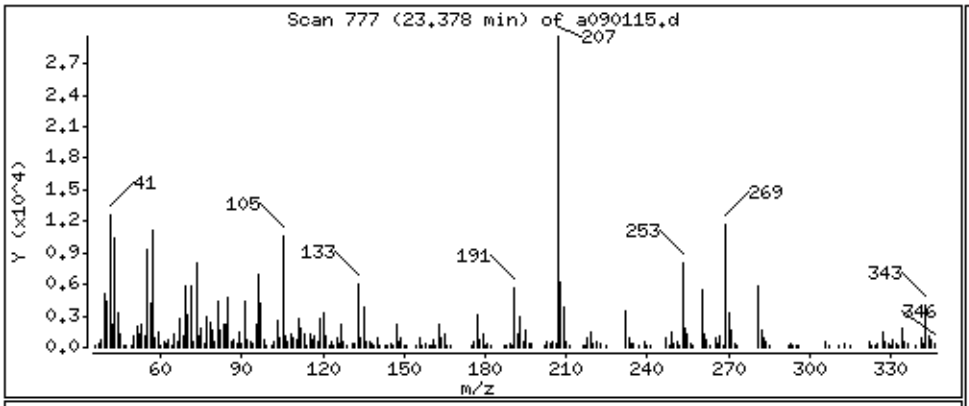
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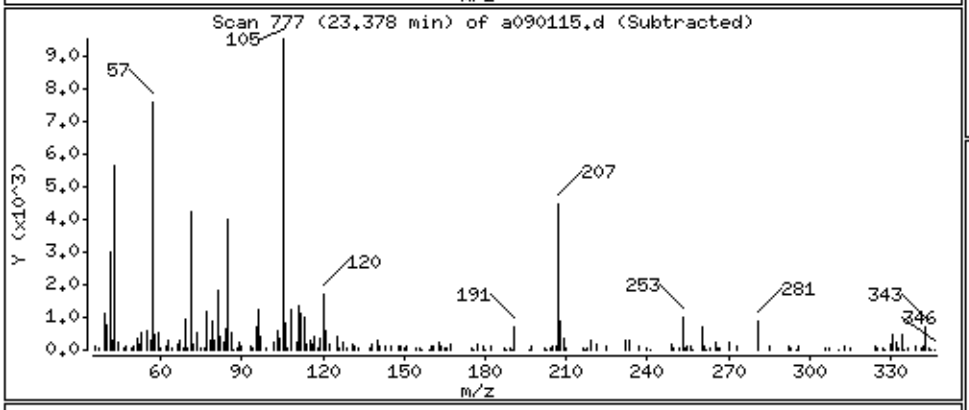
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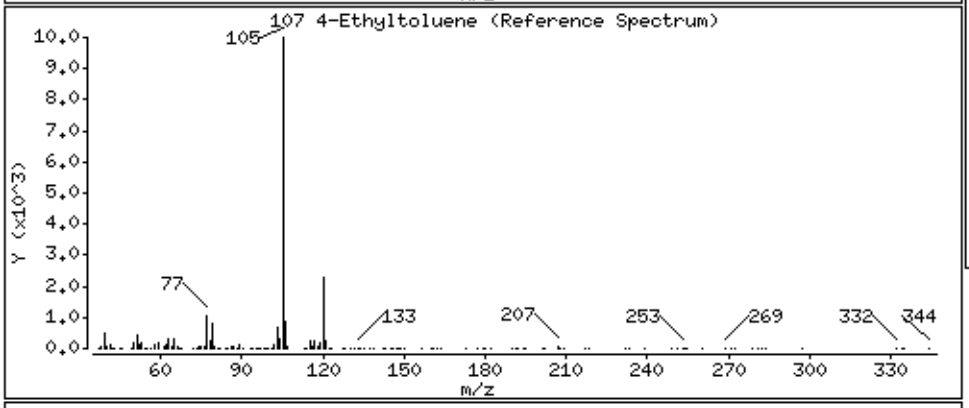
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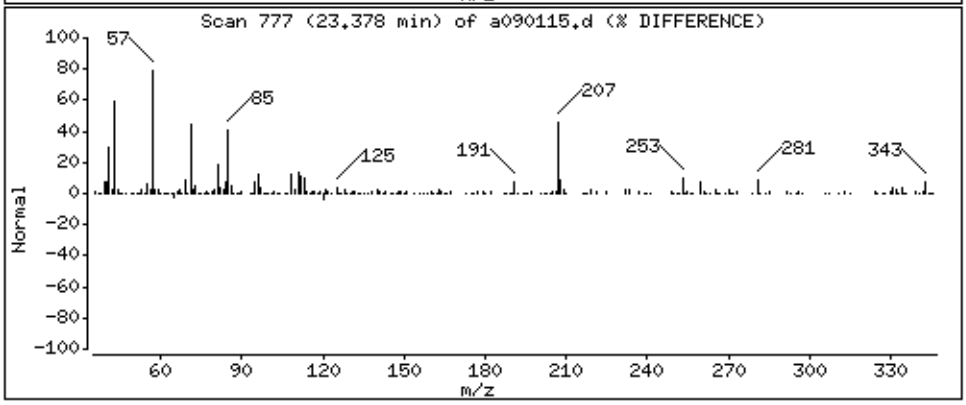
107 4-Ethyltoluene

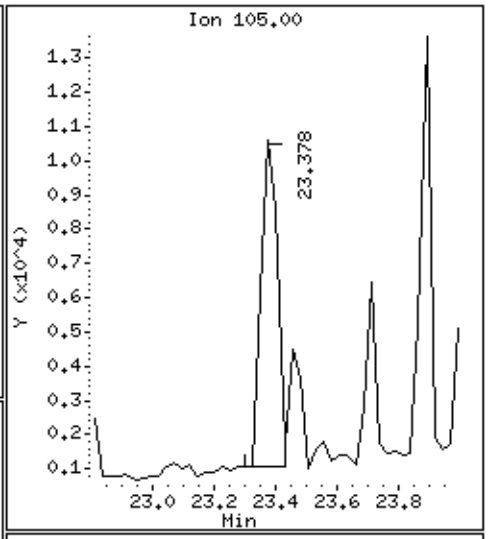
Concentration: 1.243 PPBV

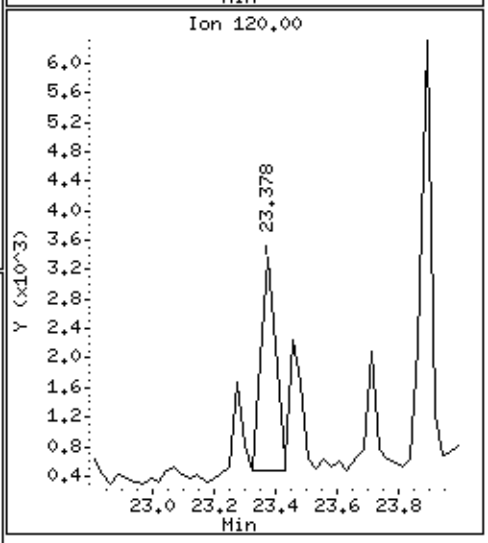


Data File: /chem/msda.i/01Sep2011.b/a090115.d

Date : 01-SEP-2011 19:59

Client ID:

Instrument: msda.i

Sample Info: 62.5mL #9557

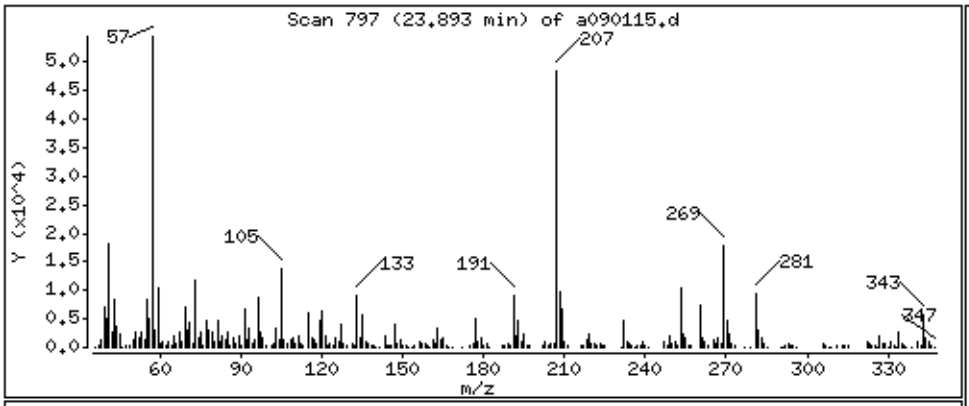
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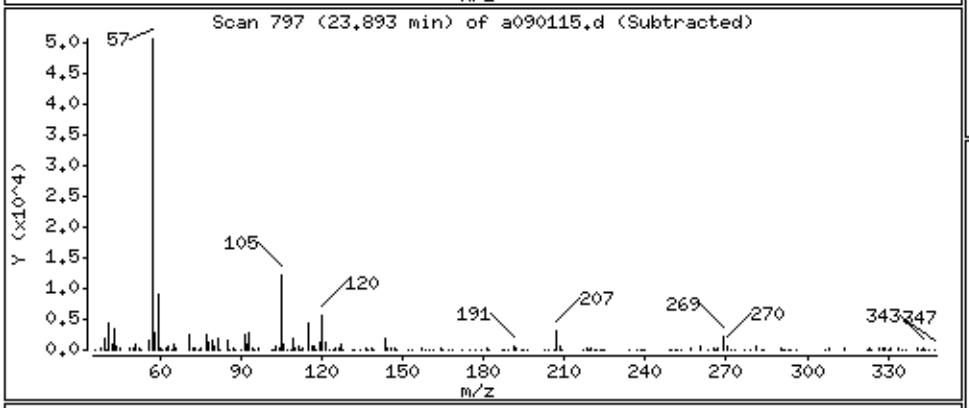
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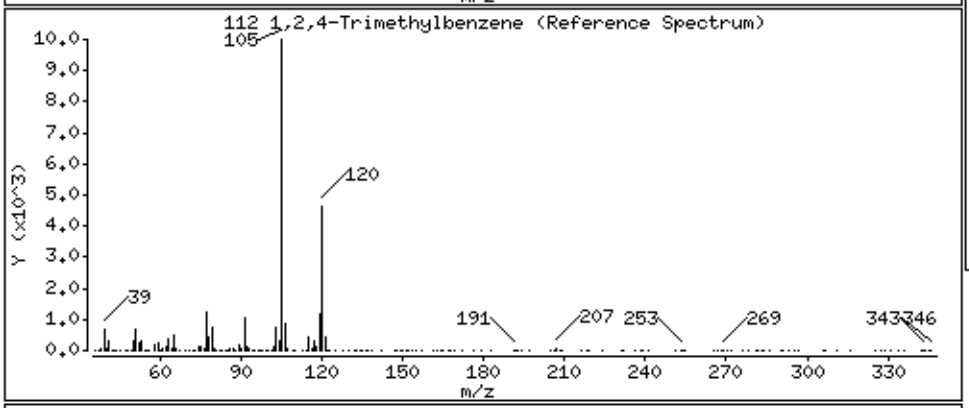
Column diameter: 0.32

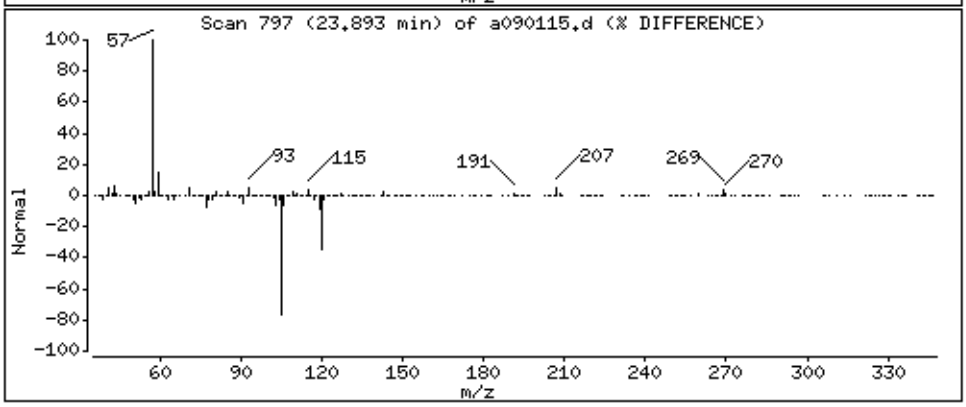
112 1,2,4-Trimethylbenzene

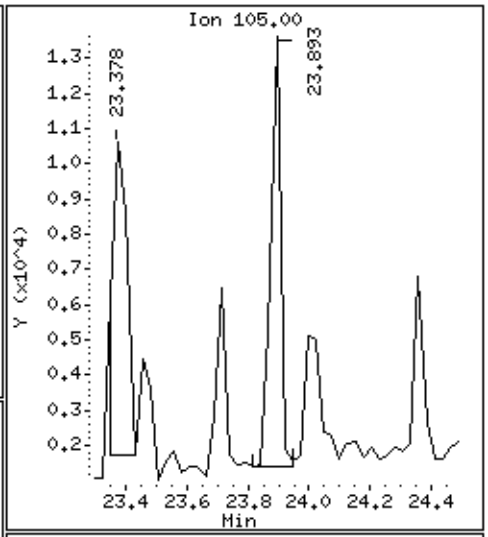
Concentration: 1.241 PPBV

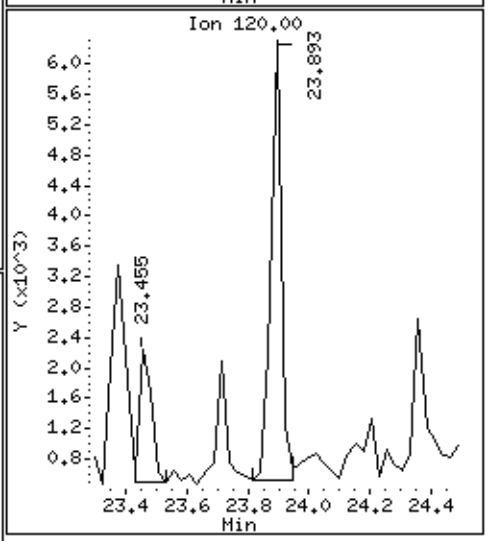


Data File: /chem/msda.i/01Sep2011.b/a090115.d

Date : 01-SEP-2011 19:59

Client ID:

Instrument: msda.i

Sample Info: 62.5mL #9557

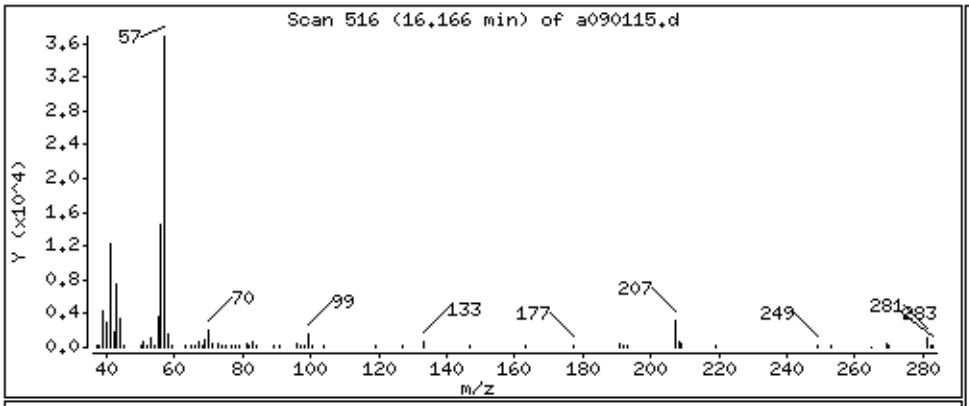
Operator: jc

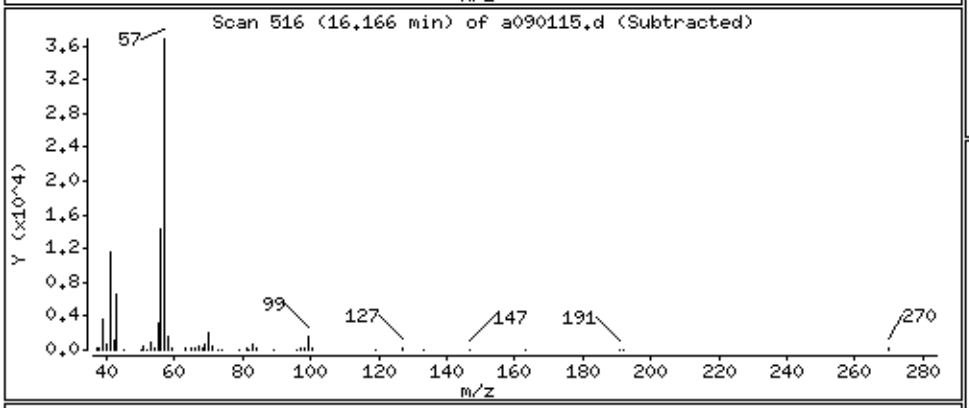
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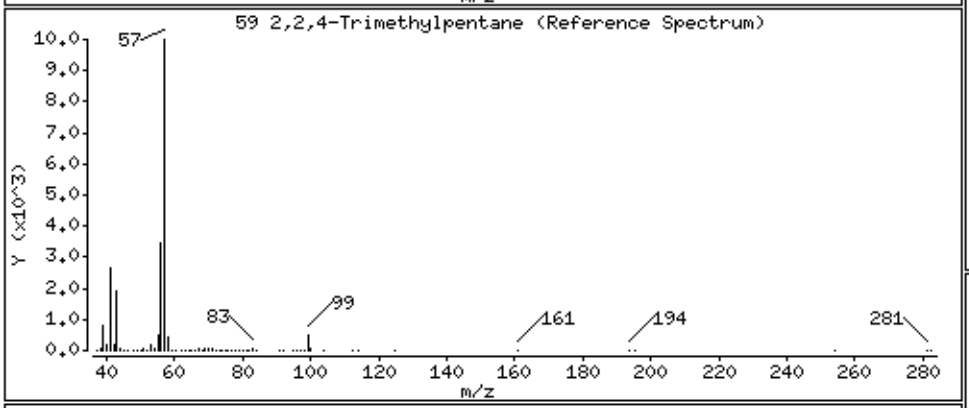
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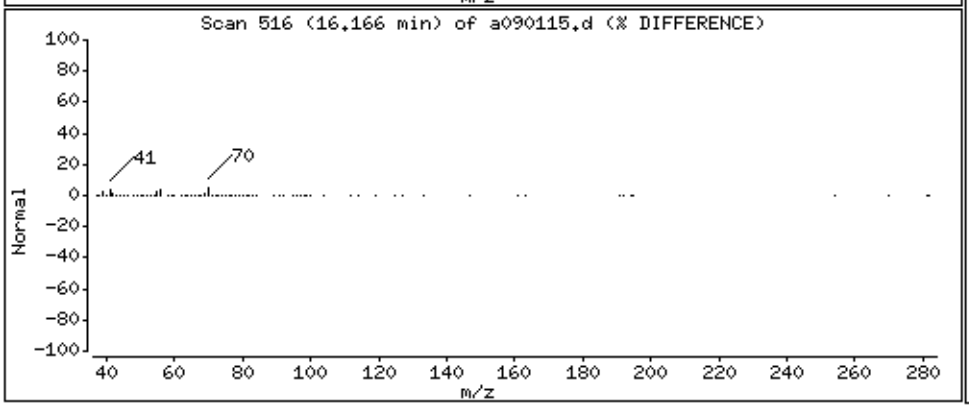
59 2,2,4-Trimethylpentane

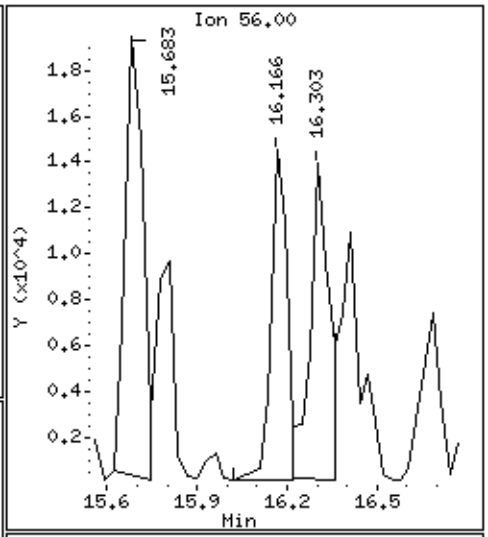
Concentration: 4.480 PPBV

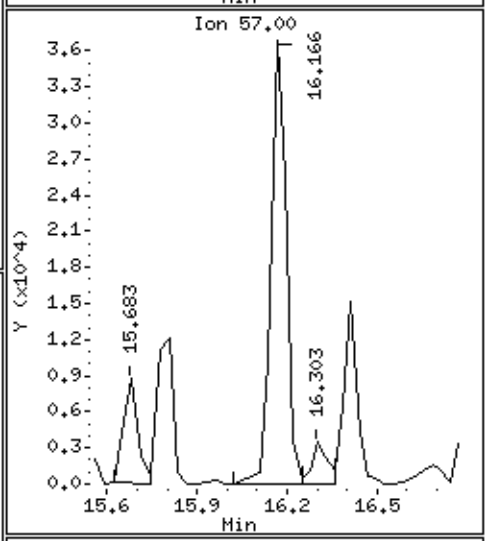


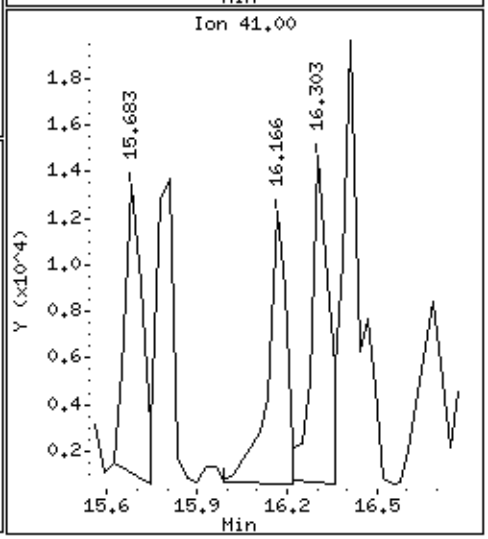



Data File: /chem/msda.i/01Sep2011.b/a090115.d

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Client ID:

Instrument: msda.i

Sample Info: 62.5mL #9557

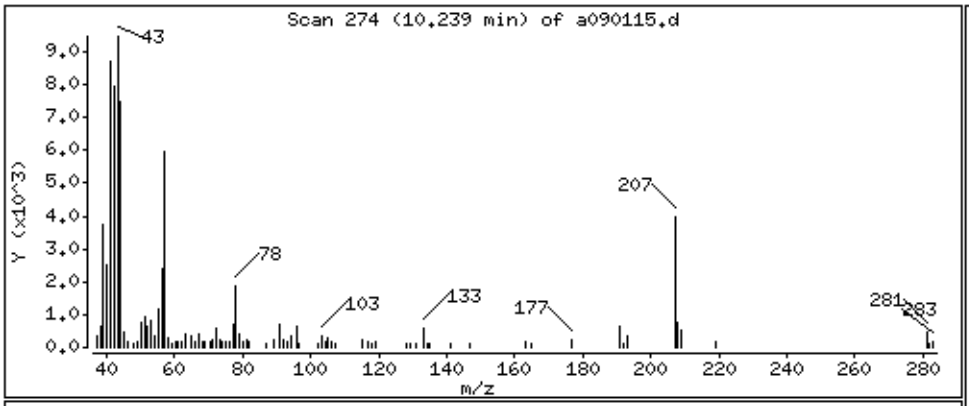
Operator: jc

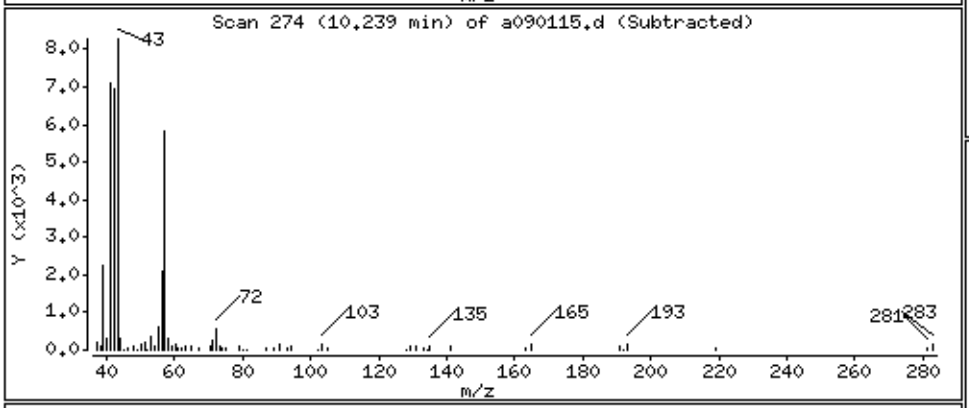
Column phase: RTx-624

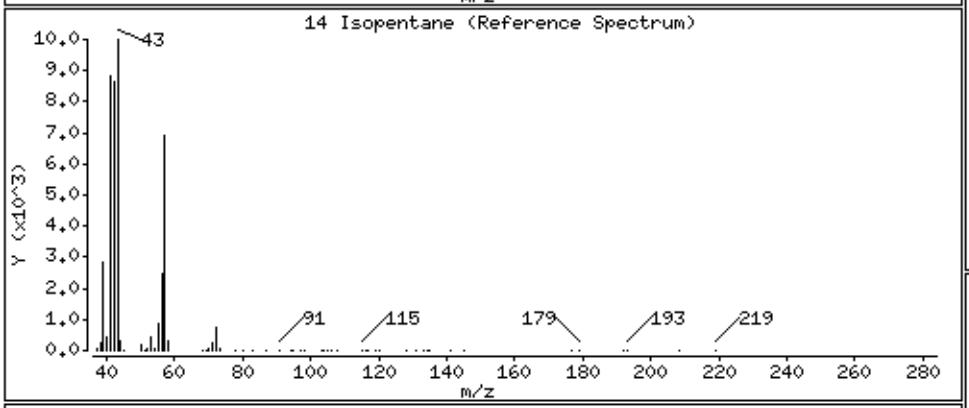
Column diameter: 0.32

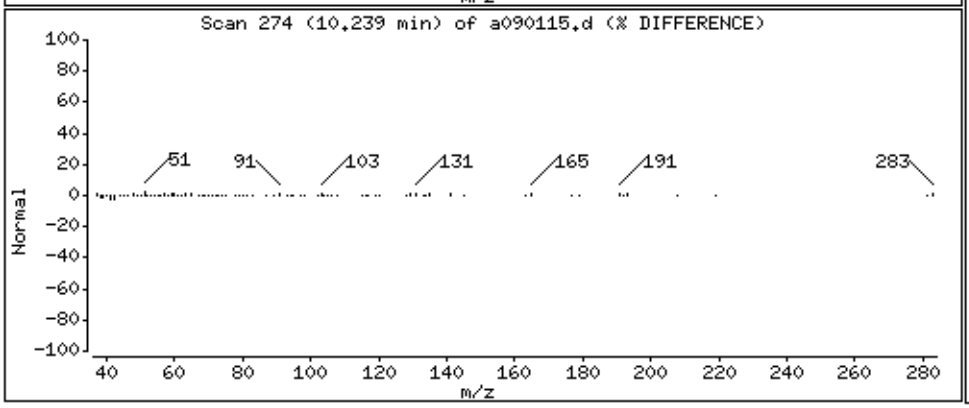
14 Isopentane

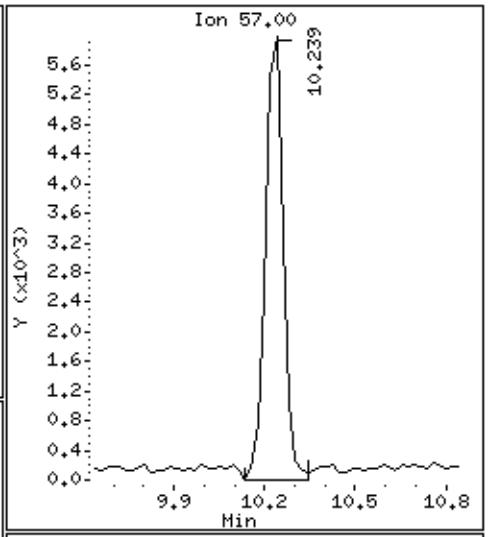
Concentration: 4.608 PPBV

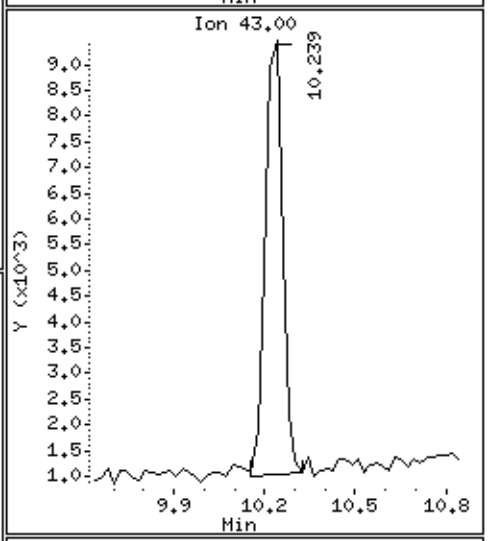


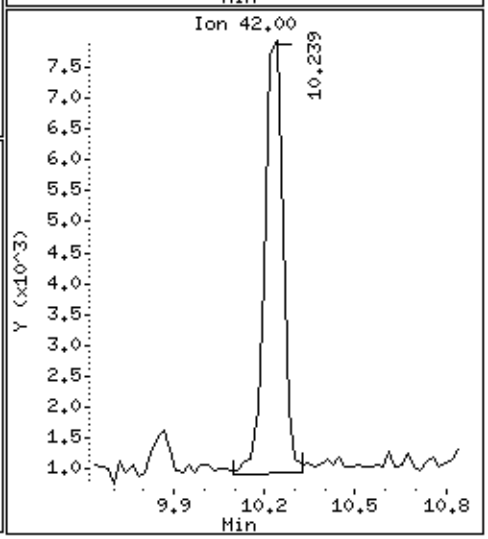



Data File: /chem/msda.i/01Sep2011.b/a090115.d

Date : 01-SEP-2011 19:59

Client ID:

Instrument: msda.i

Sample Info: 62.5mL #9557

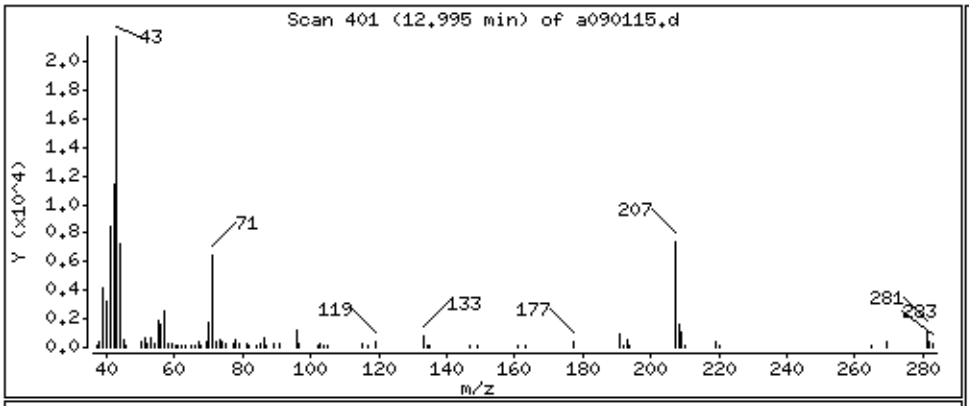
Operator: jc

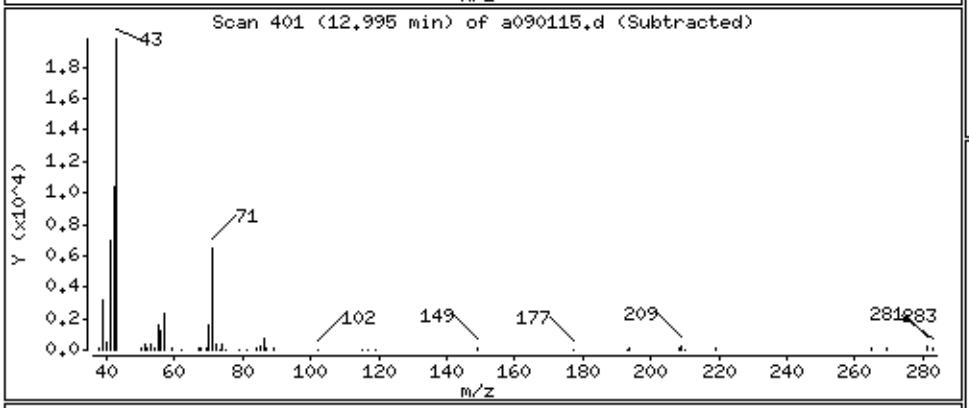
Column phase: RTx-624

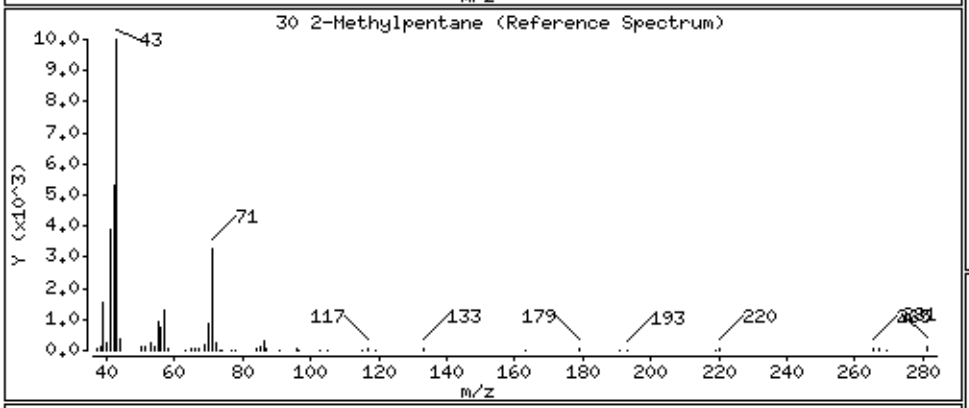
Column diameter: 0.32

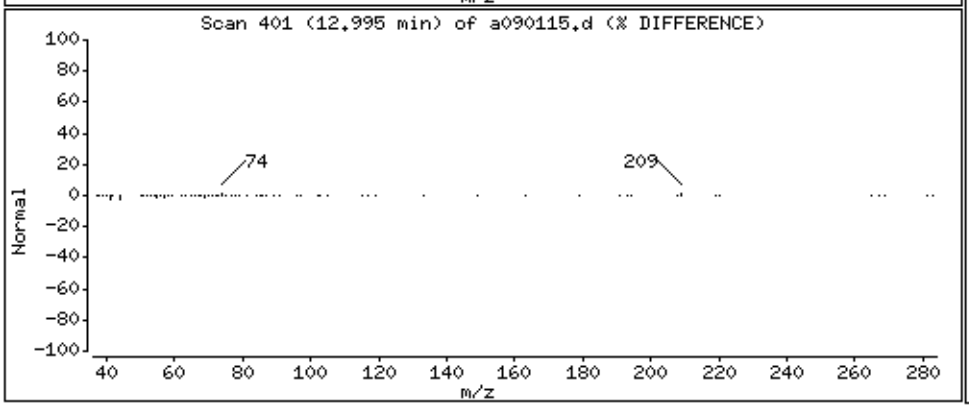
30 2-Methylpentane

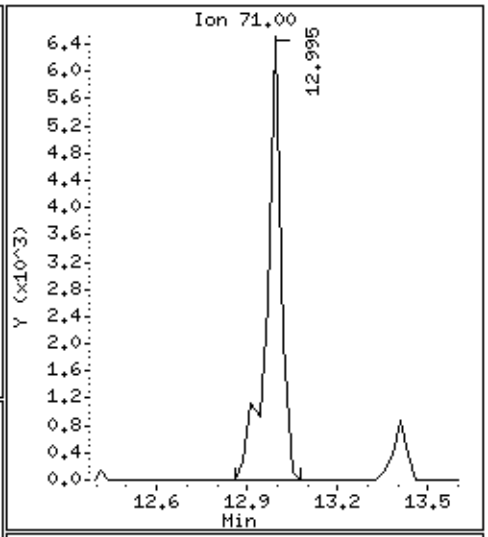
Concentration: 5.037 PPBV

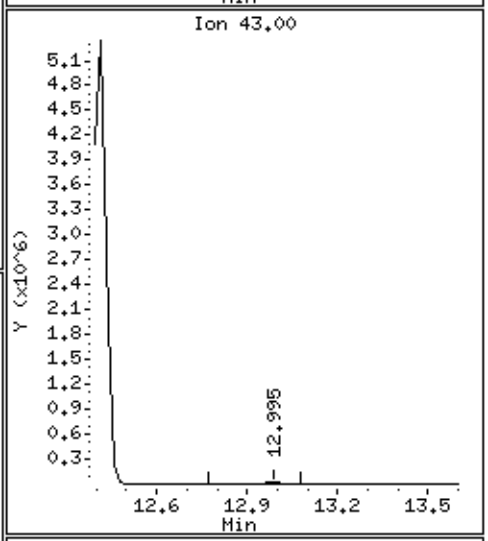


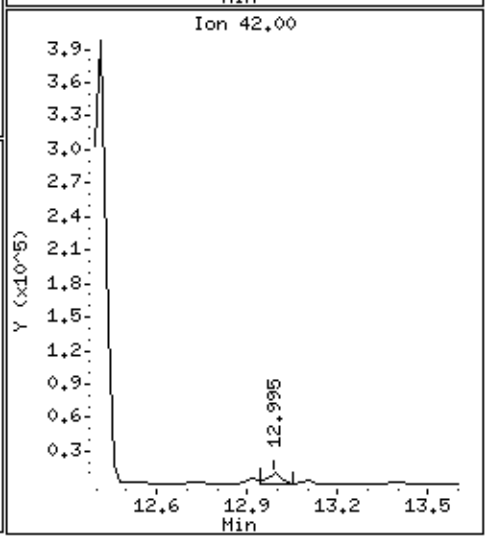



Data File: /chem/msda.i/01Sep2011.b/a090115.d

Date : 01-SEP-2011 19:59

Client ID:

Instrument: msda.i

Sample Info: 62.5mL #9557

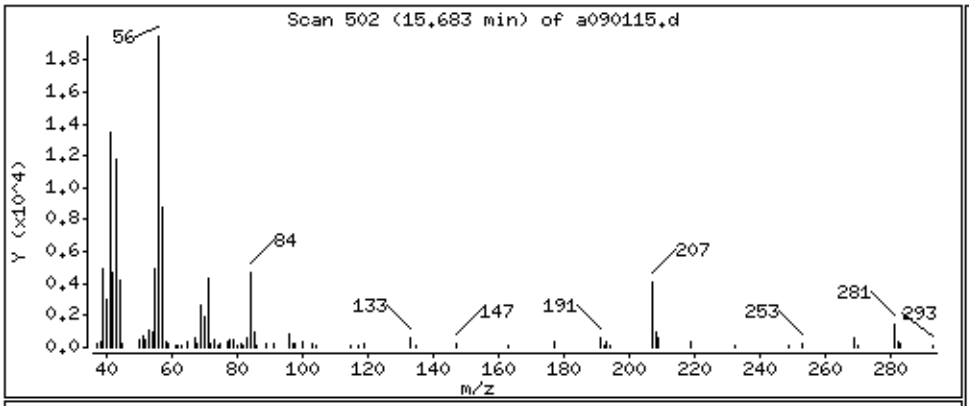
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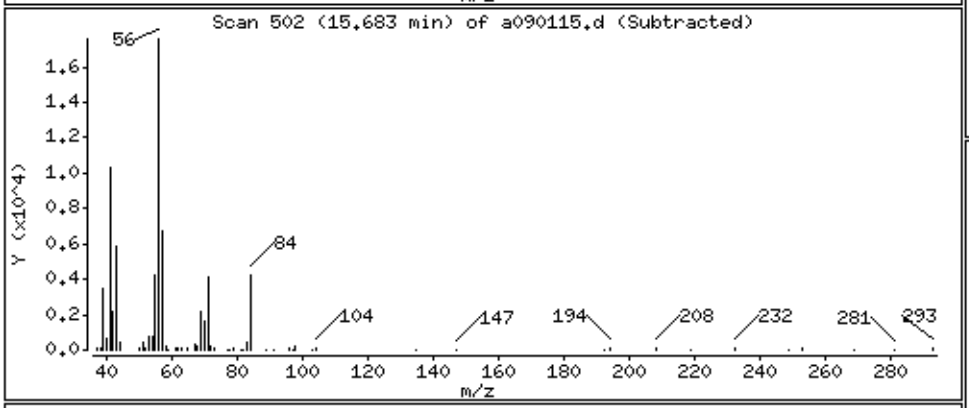
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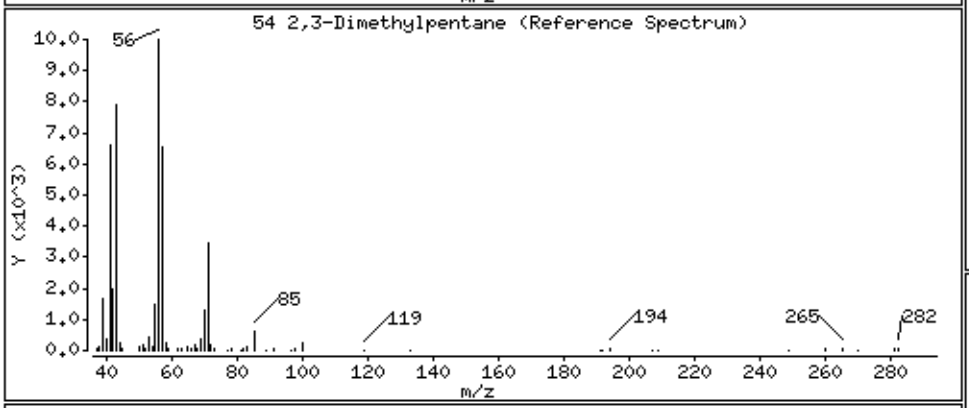
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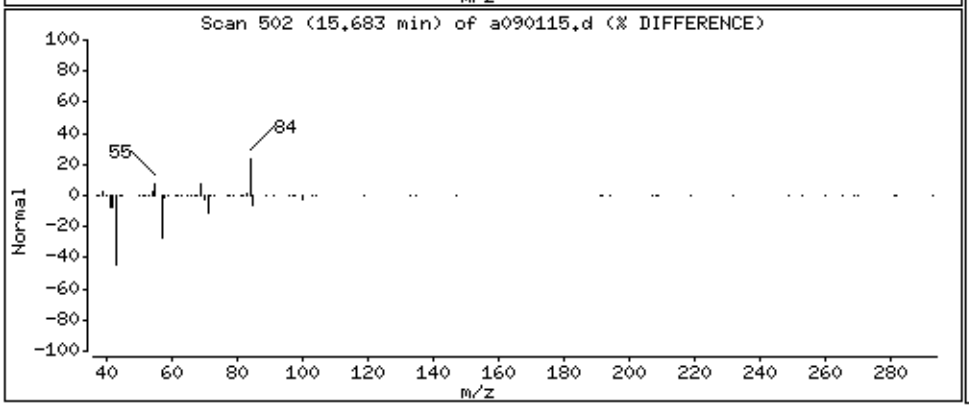
54 2,3-Dimethylpentane

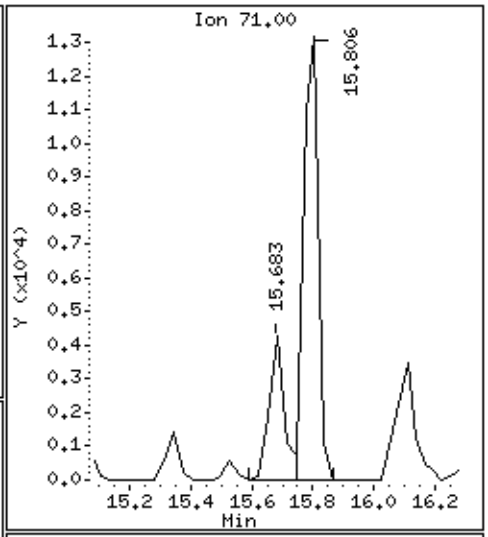
Concentration: 3.791 PPBV

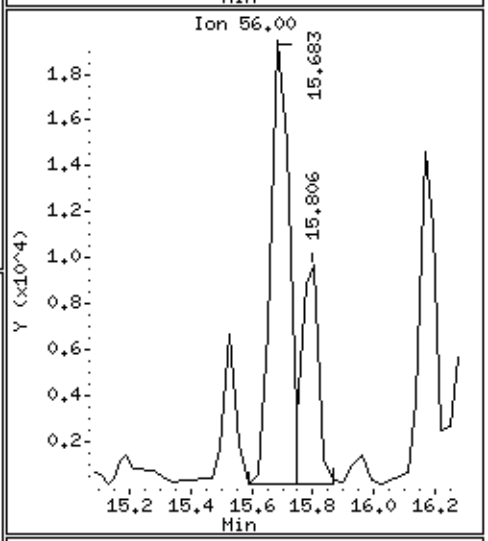


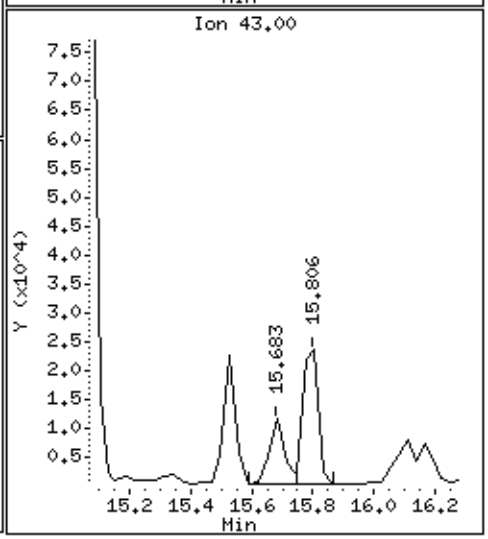



Data File: /chem/msda.i/01Sep2011.b/a090115.d



Date : 01-SEP-2011 19:59

Client ID:

Instrument: msda.i

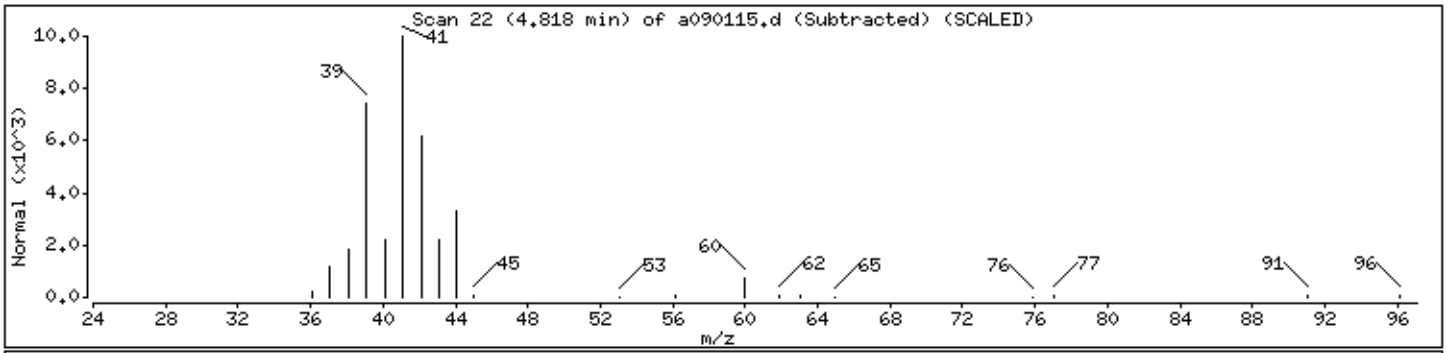
Sample Info: 62.5mL #9557

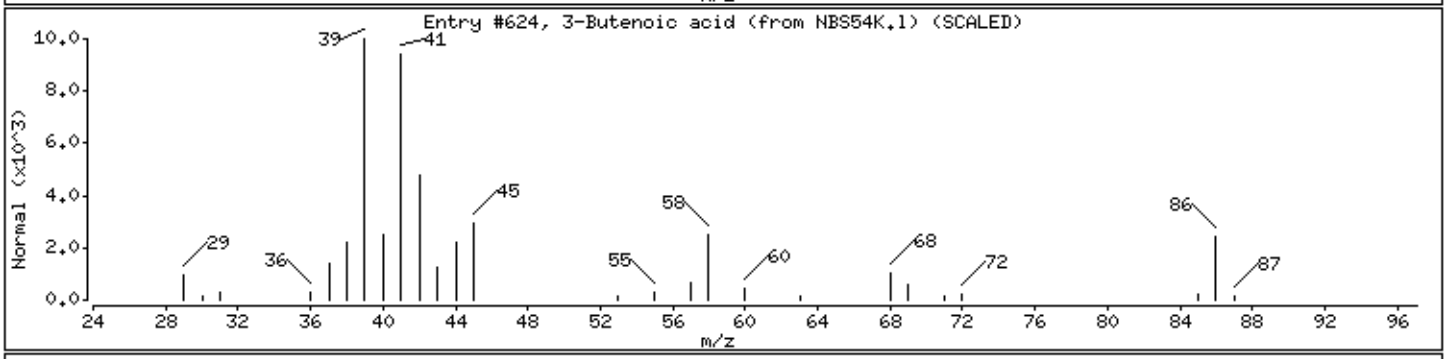
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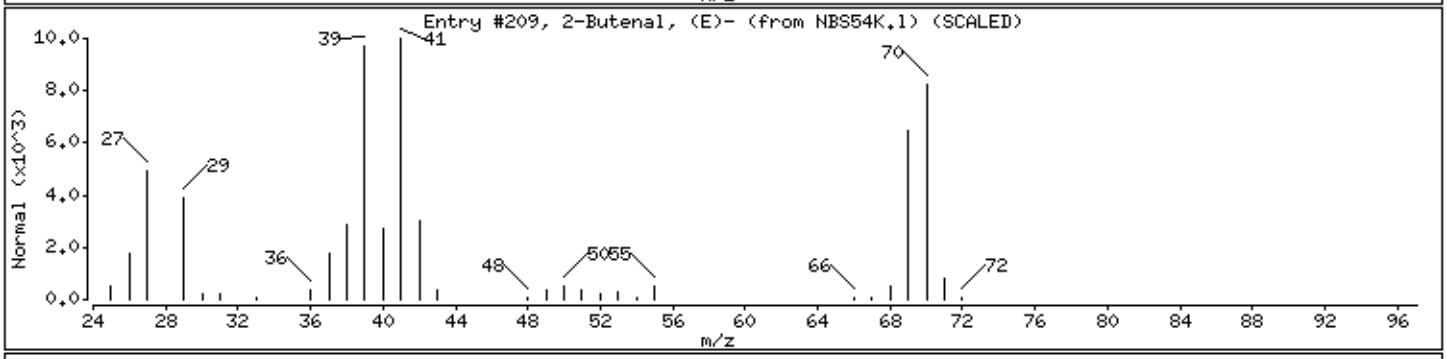
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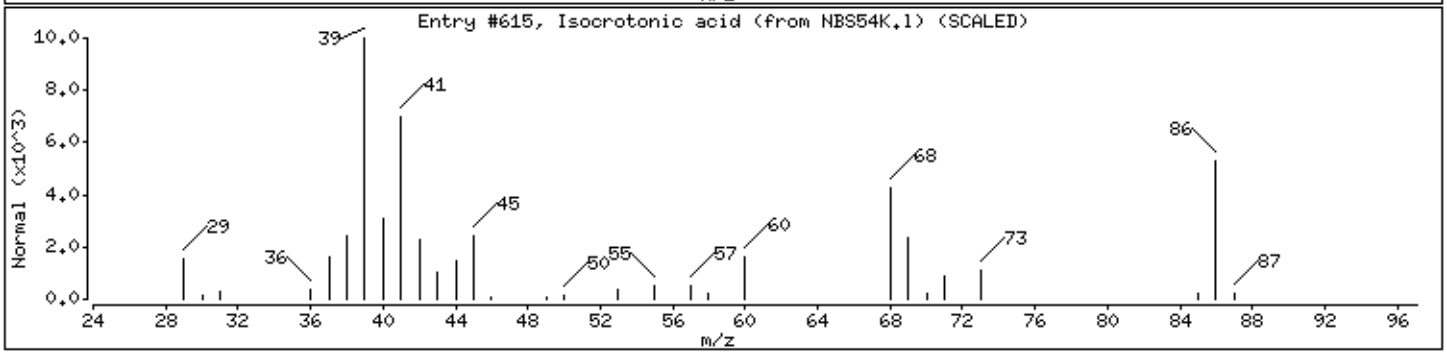
Column diameter: 0.32

| Library Search Compound Match | CAS Number | Library | Entry | Quality | Formula | Weight |
|---|---|---|---|---|---|---|
| 3-Butenoic acid | 625-38-7 | NBS54K.1 | 624 | 78 | C4H6O2 | 86 |
| 2-Butenal, (E)- | 123-73-9 | NBS54K.1 | 209 | 72 | C4H6O | 70 |
| Isocrotonic acid | 503-64-0 | NBS54K.1 | 615 | 64 | C4H6O2 | 86 |



Data File: /chem/msda.i/01Sep2011.b/a090115.d

Date : 01-SEP-2011 19:59

Client ID:

Instrument: msda.i

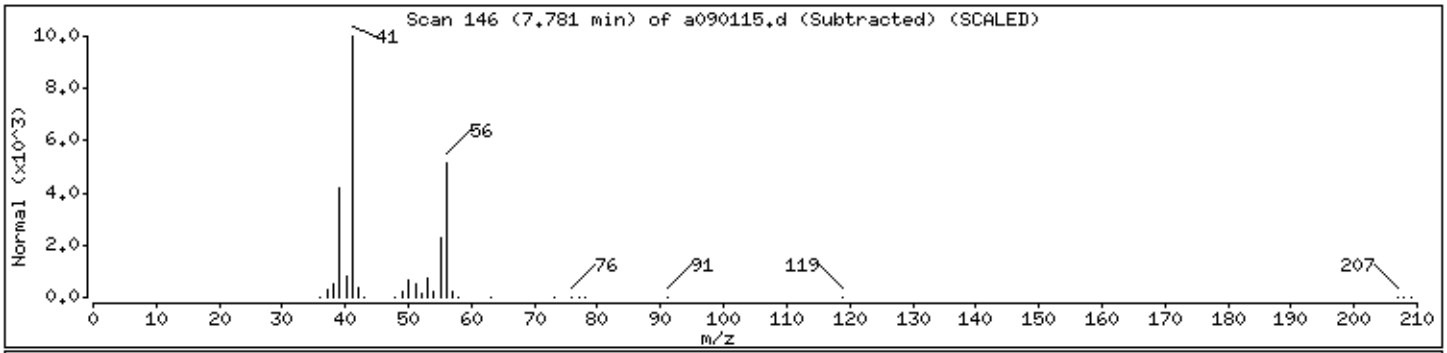
Sample Info: 62.5mL #9557

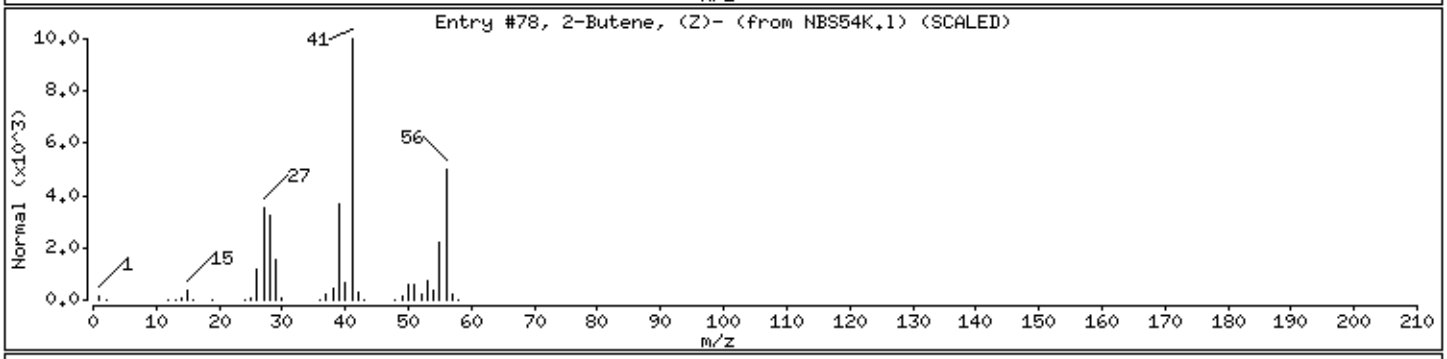
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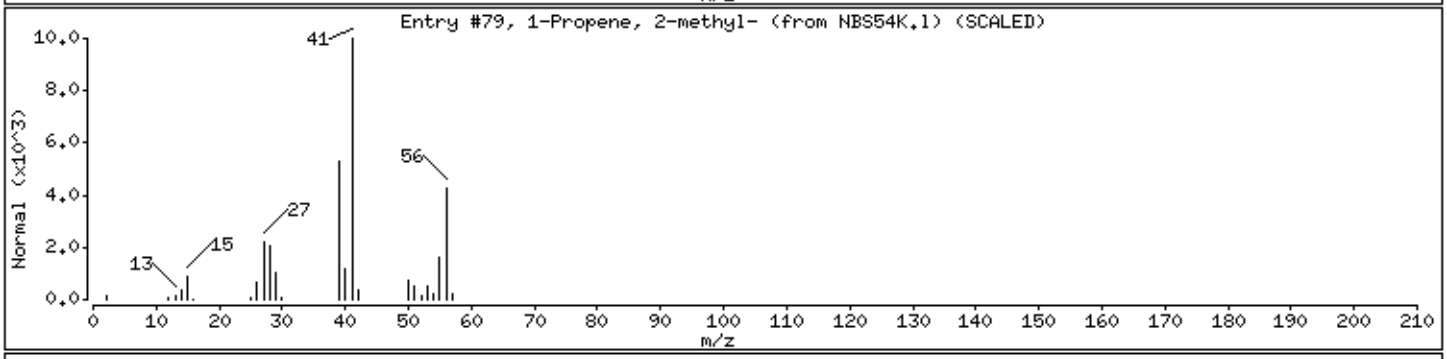
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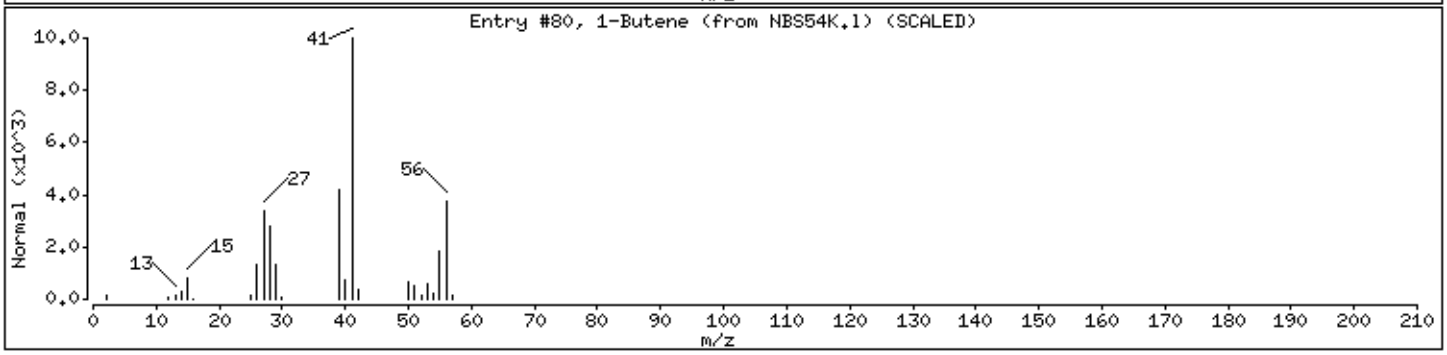
Column diameter: 0.32

| Library Search Compound Match | CAS Number | Library | Entry | Quality | Formula | Weight |
|---|---|---|---|---|---|---|
| 2-Butene, (Z)- | 590-18-1 | NBS54K.l | 78 | 80 | C4H8 | 56 |
| 1-Propene, 2-methyl- | 115-11-7 | NBS54K.l | 79 | 80 | C4H8 | 56 |
| 1-Butene | 106-98-9 | NBS54K.l | 80 | 80 | C4H8 | 56 |



Data File: /chem/msda.i/01Sep2011.b/a090115.d

Date : 01-SEP-2011 19:59

Client ID:

Instrument: msda.i

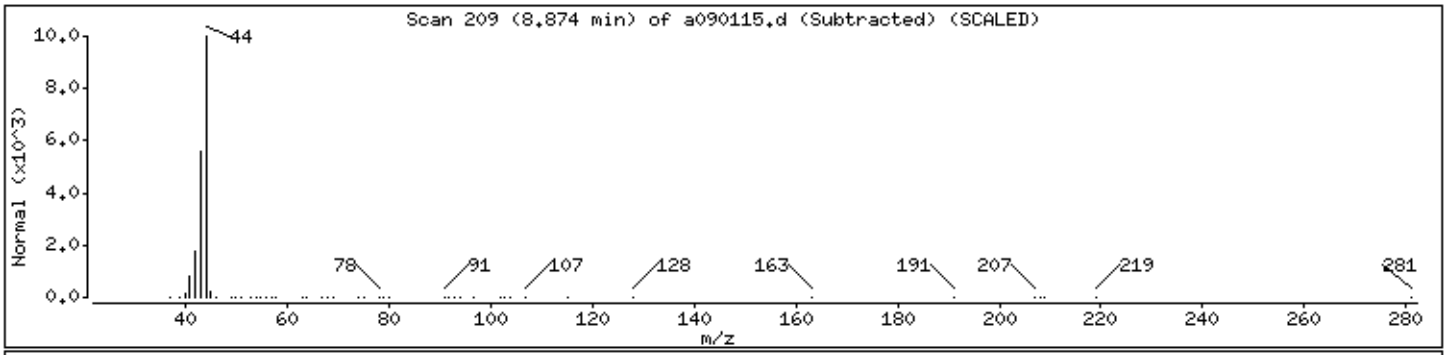
Sample Info: 62.5mL #9557

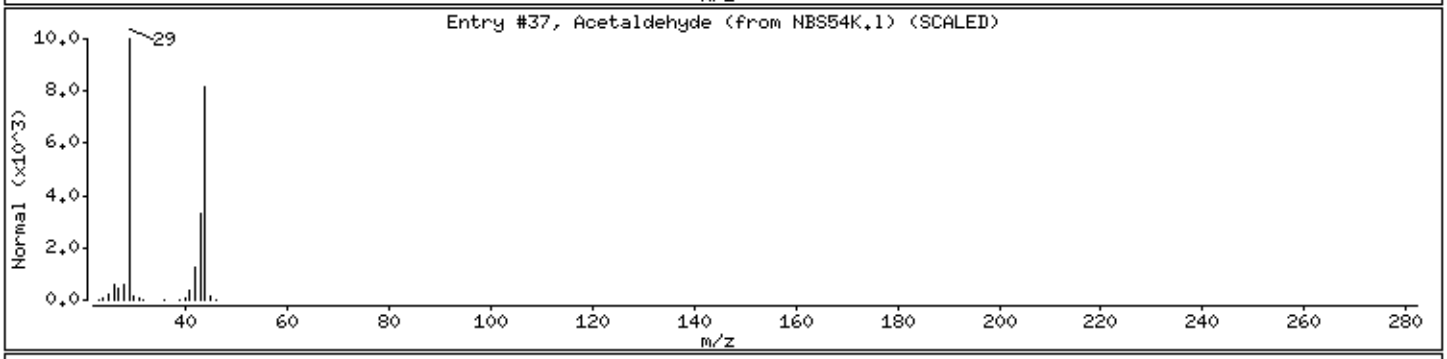
Operator: jc

Column phase: RTx-624

Column diameter: 0.32

| Library Search Compound Match | CAS Number | Library | Entry | Quality | Formula | Weight |
|---|---|---|---|---|---|---|
| Acetaldehyde | 75-07-0 | NBS54K.l | 37 | 86 | C2H4O | 44 |



Data File: /chem/msda.i/01Sep2011.b/a090115.d

Date : 01-SEP-2011 19:59

Client ID:

Instrument: msda.i

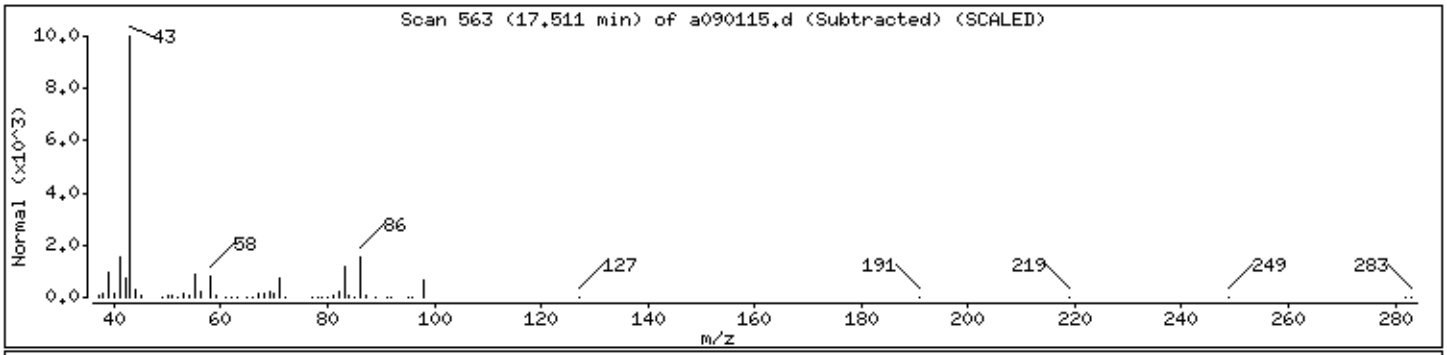
Sample Info: 62.5mL #9557

Operator: jc

Column phase: RTx-624

Column diameter: 0.32

| Library Search Compound Match | CAS Number | Library | Entry | Quality | Formula | Weight |
|---|---|---|---|---|---|---|
| Unknown | | | 0 | 0 | | 0 |



Data File: /chem/msda.i/01Sep2011.b/a090115.d

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Instrument: msda.i

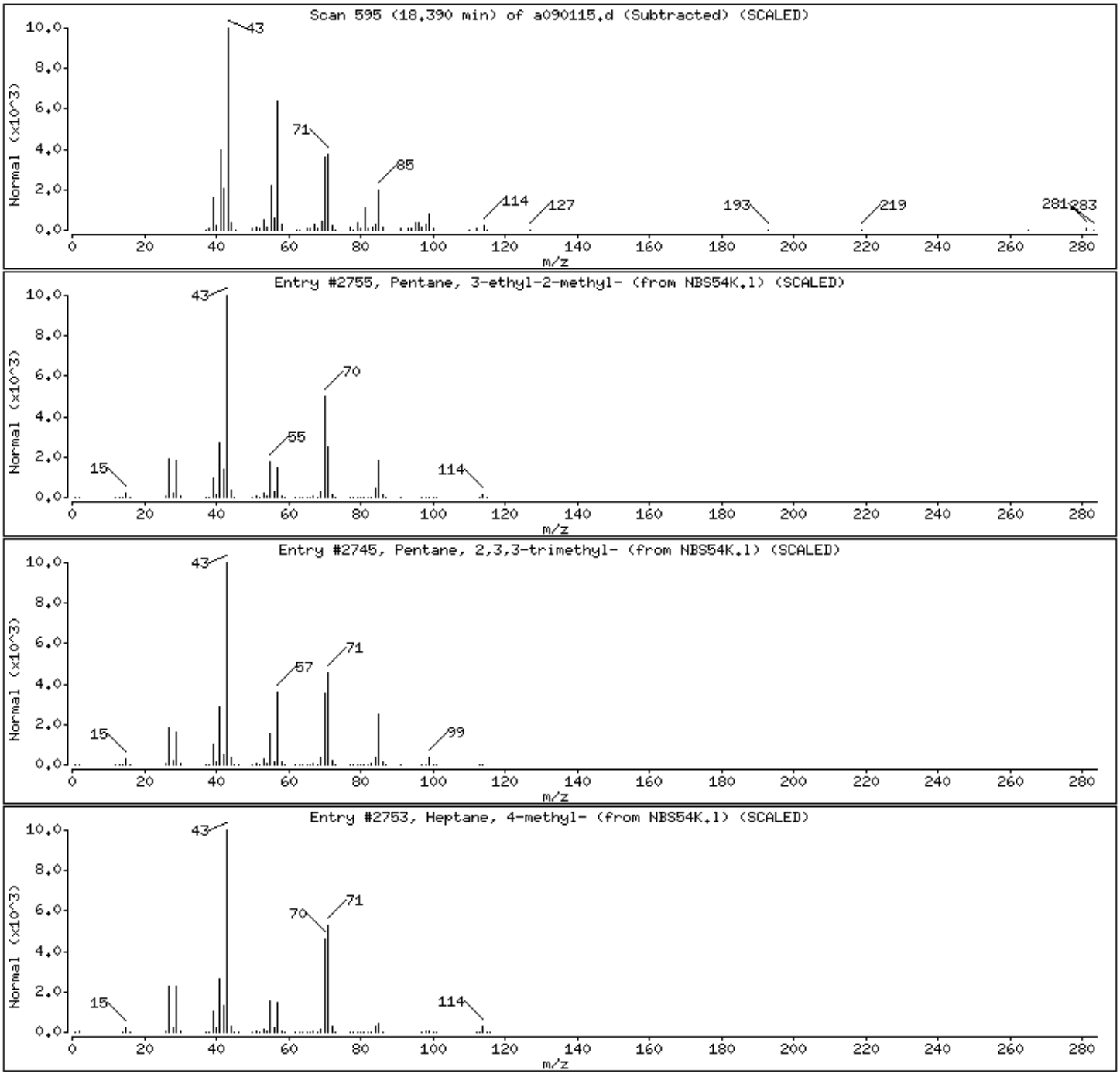
Sample Info: 62.5mL #9557

Operator: jc

Column phase: RTx-624

Column diameter: 0.32

| Library Search Compound Match | CAS Number | Library | Entry | Quality | Formula | Weight |
|---|---|---|---|---|---|---|
| Pentane, 3-ethyl-2-methyl- | 609-26-7 | NBS54K.l | 2755 | 58 | C8H18 | 114 |
| Pentane, 2,3,3-trimethyl- | 560-21-4 | NBS54K.l | 2745 | 53 | C8H18 | 114 |
| Heptane, 4-methyl- | 589-53-7 | NBS54K.l | 2753 | 52 | C8H18 | 114 |



Data File: /chem/msda.i/01Sep2011.b/a090115.d

Date : 01-SEP-2011 19:59

Client ID:

Instrument: msda.i

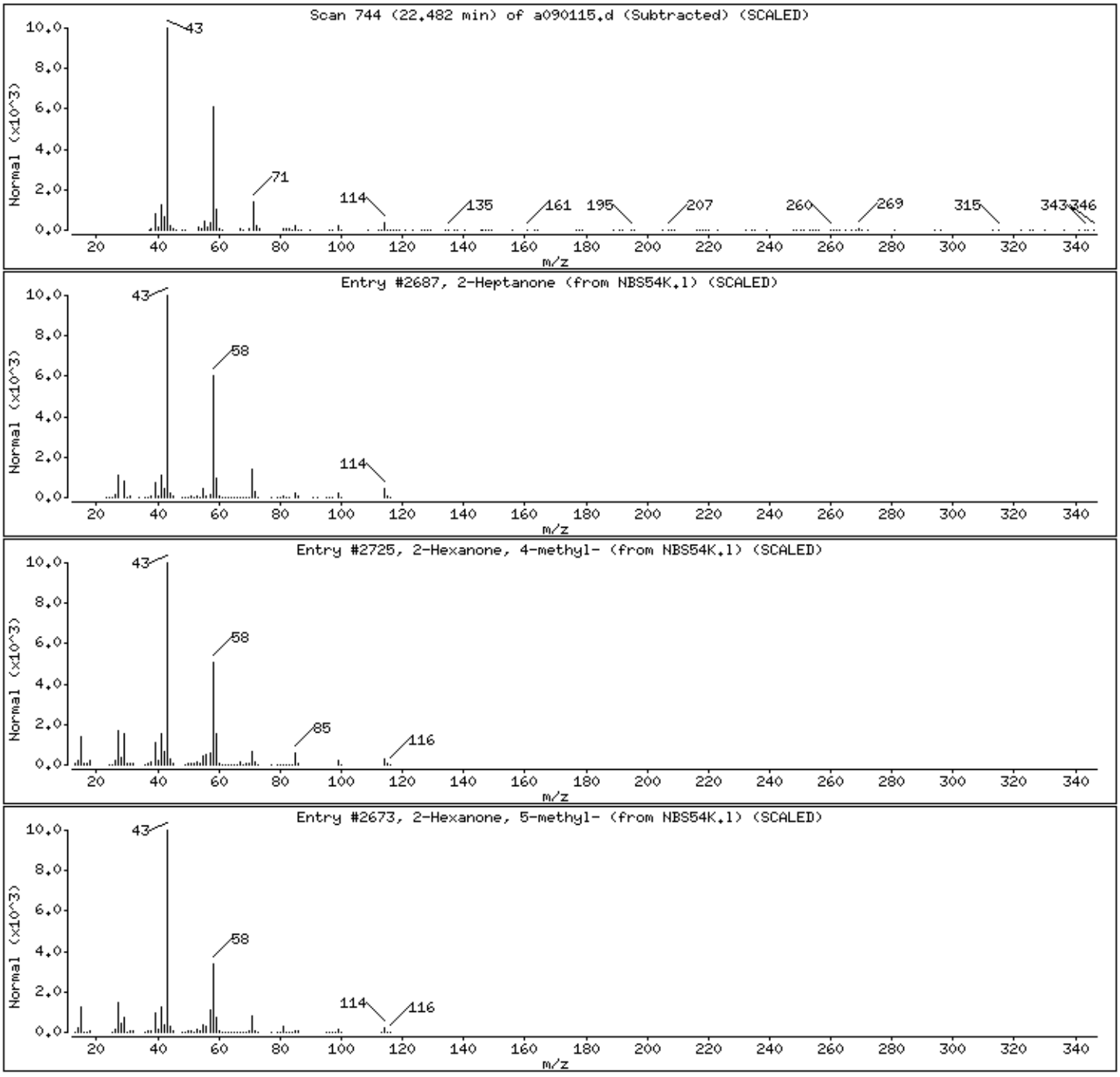
Sample Info: 62.5mL #9557

Operator: jc

Column phase: RTx-624

Column diameter: 0.32

| Library Search Compound Match | CAS Number | Library | Entry | Quality | Formula | Weight |
|---|---|---|---|---|---|---|
| 2-Heptanone | 110-43-0 | NBS54K.l | 2687 | 91 | C7H140 | 114 |
| 2-Hexanone, 4-methyl- | 105-42-0 | NBS54K.l | 2725 | 64 | C7H140 | 114 |
| 2-Hexanone, 5-methyl- | 110-12-3 | NBS54K.l | 2673 | 58 | C7H140 | 114 |



Data File: /chem/msda.i/01Sep2011.b/a090115.d

Date : 01-SEP-2011 19:59

Client ID:

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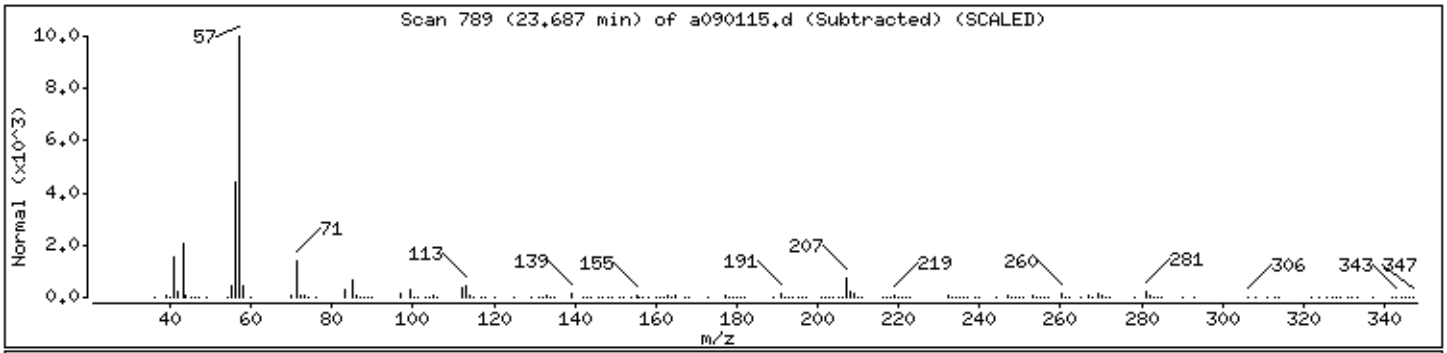
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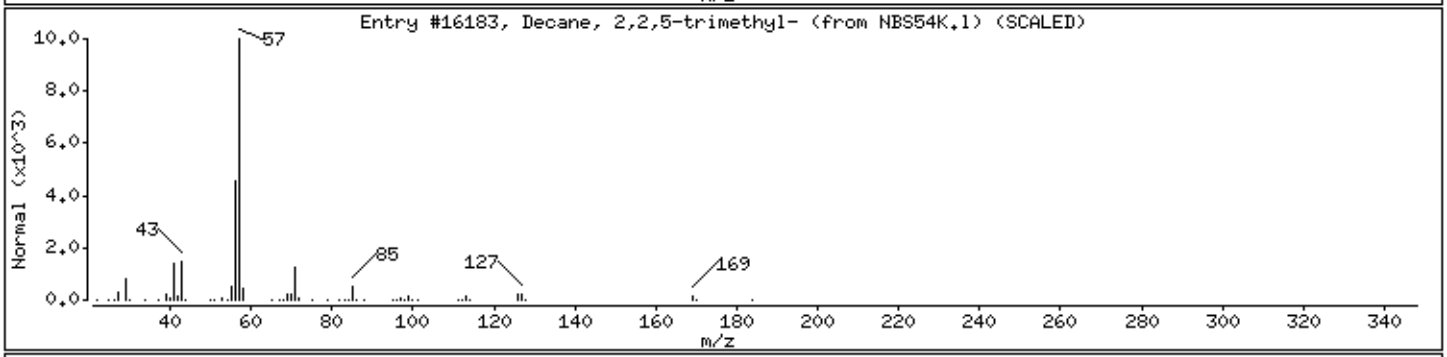
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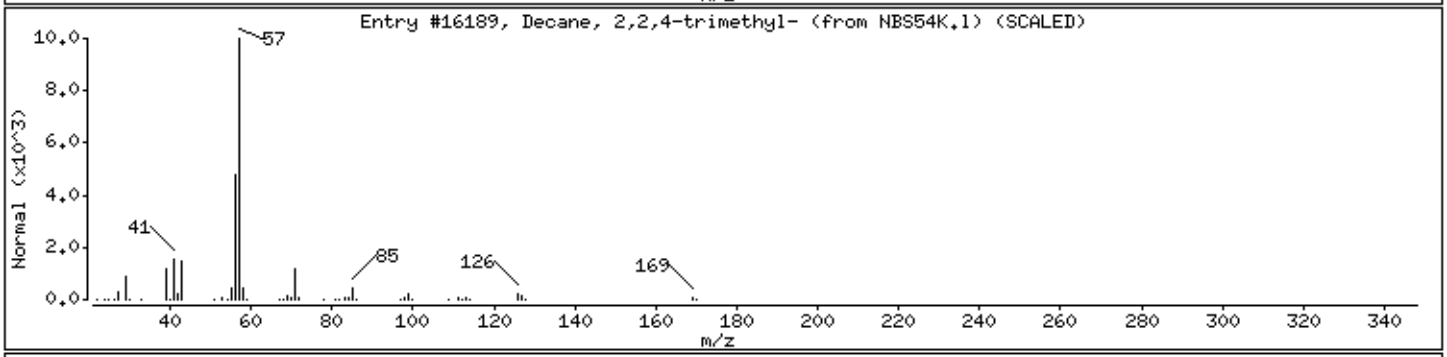
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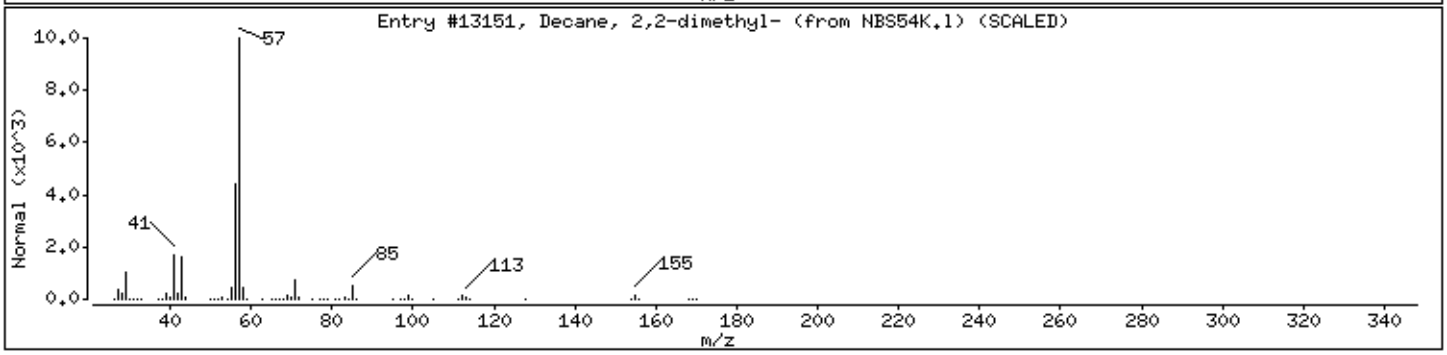
Column diameter: 0.32

| Library Search Compound Match | CAS Number | Library | Entry | Quality | Formula | Weight |
|---|---|---|---|---|---|---|
| Decane, 2,2,5-trimethyl- | 62237-96-1 | NBS54K.l | 16183 | 64 | C13H28 | 184 |
| Decane, 2,2,4-trimethyl- | 62237-98-3 | NBS54K.l | 16189 | 64 | C13H28 | 184 |
| Decane, 2,2-dimethyl- | 17302-37-3 | NBS54K.l | 13151 | 64 | C12H26 | 170 |



Data File: /chem/msda.i/01Sep2011.b/a090115.d

Date : 01-SEP-2011 19:59

Client ID:

Instrument: msda.i

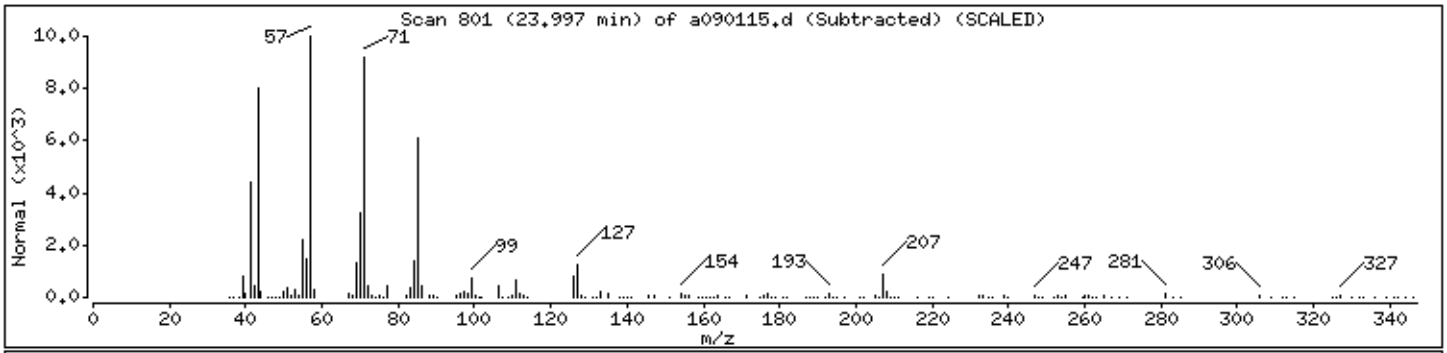
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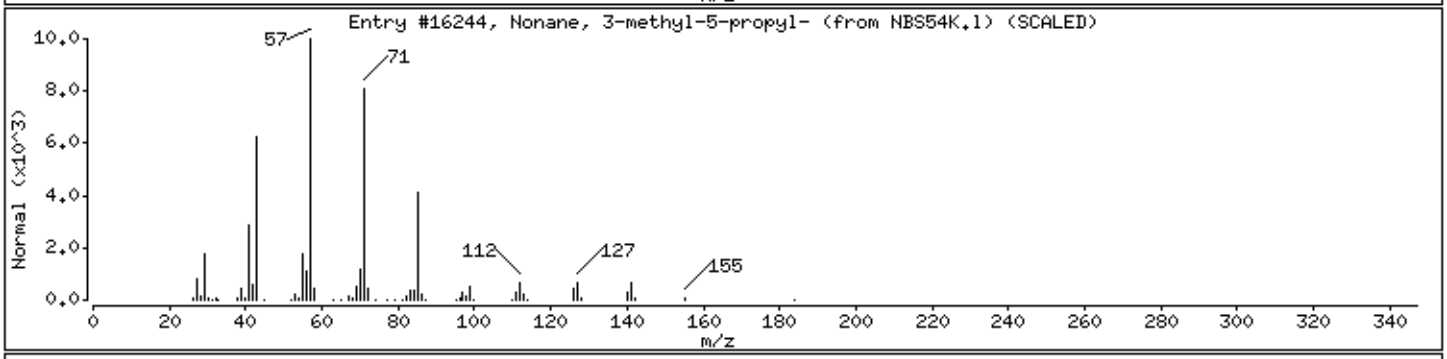
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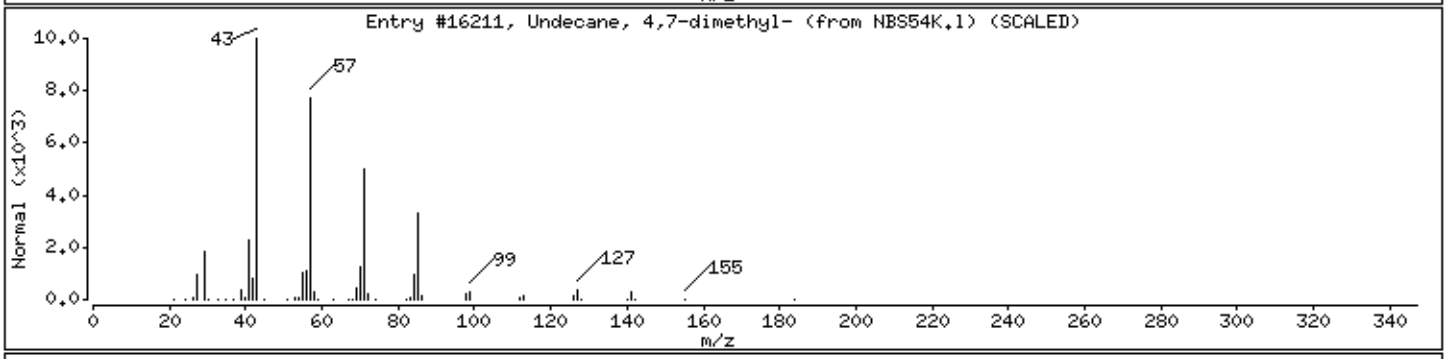
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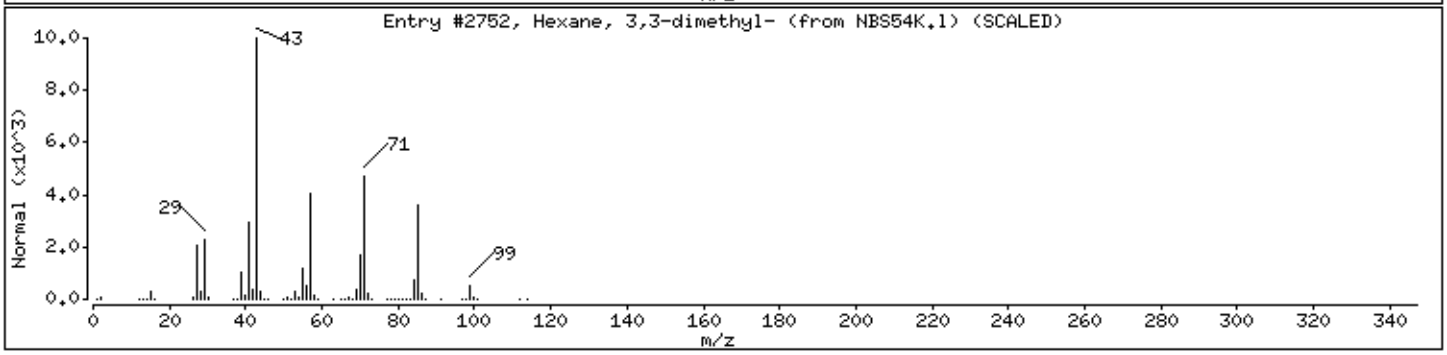
Column diameter: 0.32

| Library Search Compound Match | CAS Number | Library | Entry | Quality | Formula | Weight |
|---|---|---|---|---|---|---|
| Nonane, 3-methyl-5-propyl- | 31081-18-2 | NBS54K.l | 16244 | 72 | C13H28 | 184 |
| Undecane, 4,7-dimethyl- | 17301-32-5 | NBS54K.l | 16211 | 72 | C13H28 | 184 |
| Hexane, 3,3-dimethyl- | 563-16-6 | NBS54K.l | 2752 | 64 | C8H18 | 114 |



Data File: /chem/msda.i/01Sep2011.b/a090115.d

Date : 01-SEP-2011 19:59

Client ID:

Instrument: msda.i

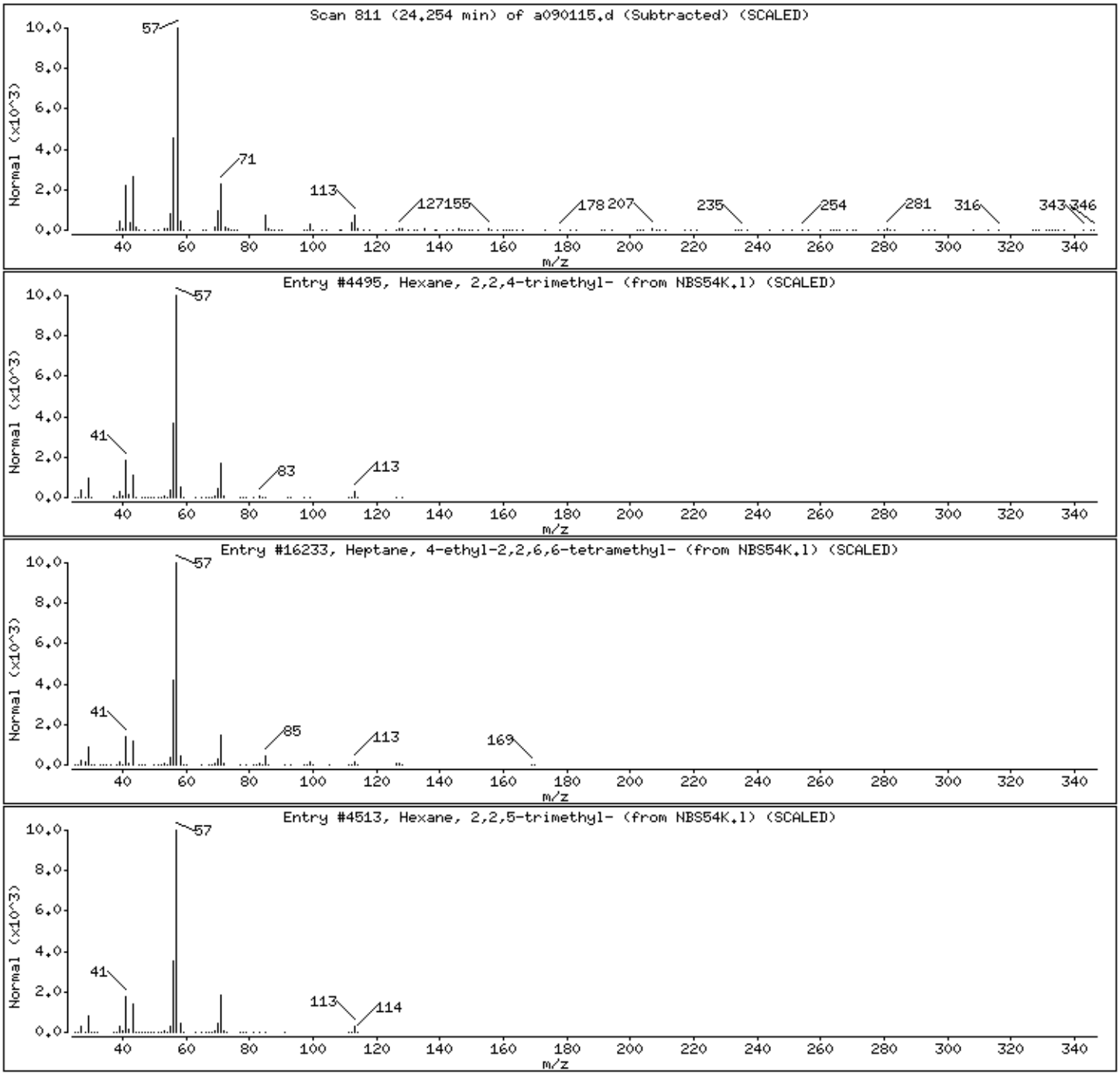
Sample Info: 62.5mL #9557

Operator: jc

Column phase: RTx-624

Column diameter: 0.32

| Library Search Compound Match | CAS Number | Library | Entry | Quality | Formula | Weight |
|---|---|---|---|---|---|---|
| Hexane, 2,2,4-trimethyl- | 16747-26-5 | NBS54K.l | 4495 | 72 | C9H20 | 128 |
| Heptane, 4-ethyl-2,2,6,6-tetramethyl- | 62108-31-0 | NBS54K.l | 16233 | 72 | C13H28 | 184 |
| Hexane, 2,2,5-trimethyl- | 3522-94-9 | NBS54K.l | 4513 | 56 | C9H20 | 128 |



Data File: /chem/msda.i/01Sep2011.b/a090115.d

Date : 01-SEP-2011 19:59

Client ID:

Instrument: msda.i

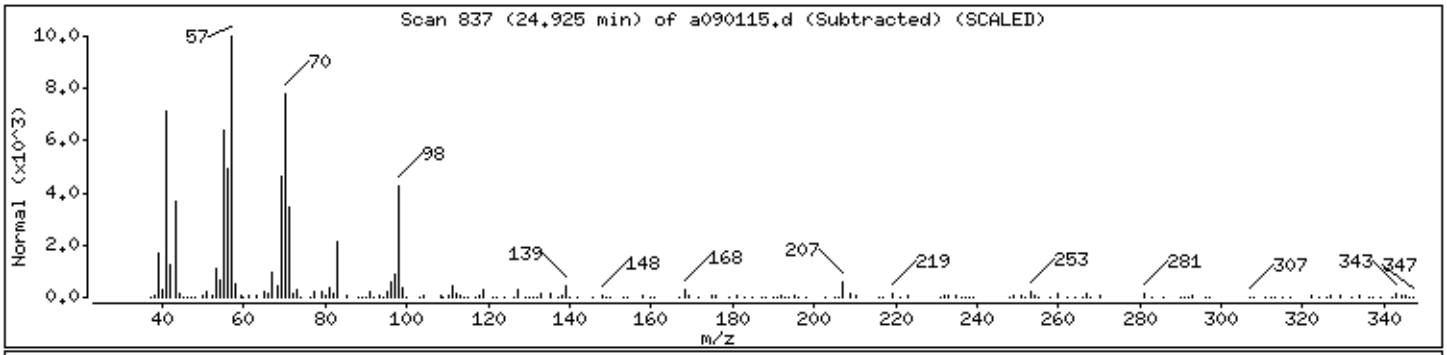
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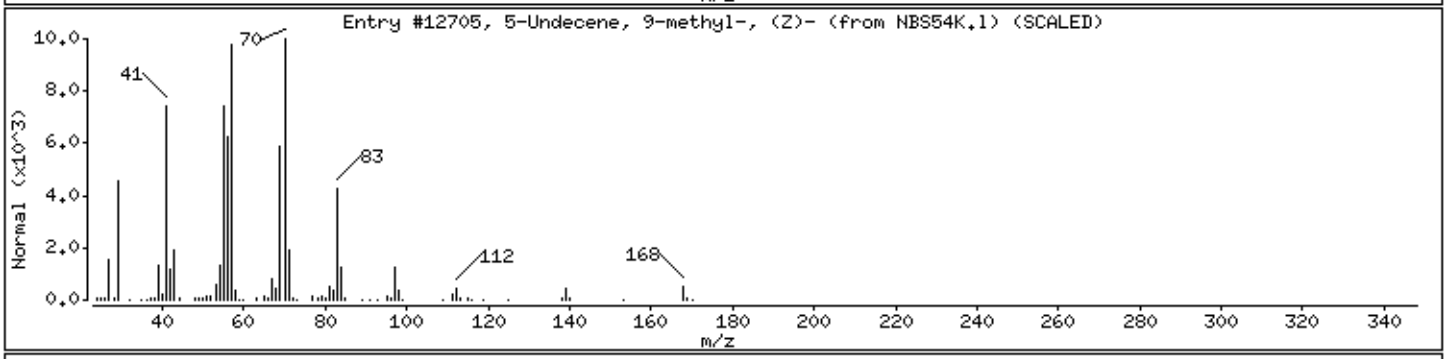
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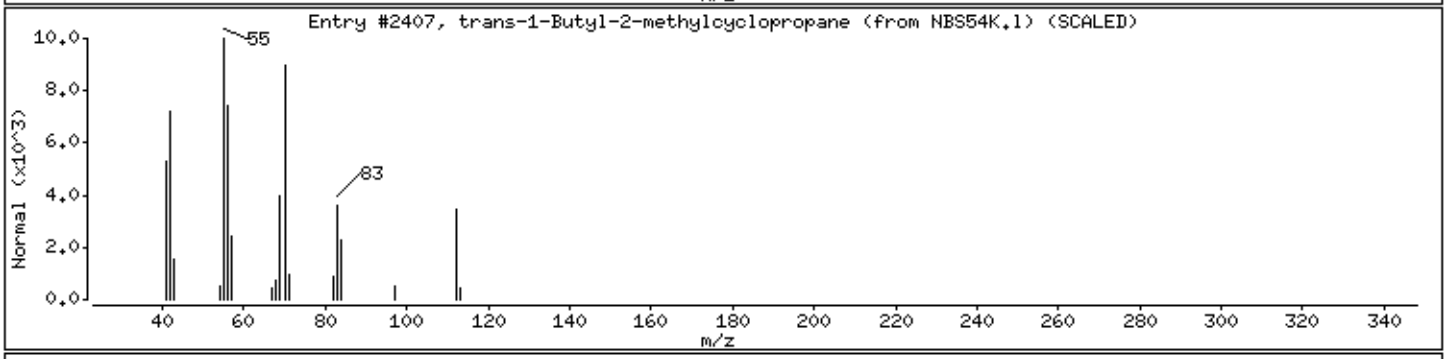
Column phase: RTx-624

Column diameter: 0.32

| Library Search Compound Match | CAS Number | Library | Entry | Quality | Formula | Weight |
|---|---|---|---|---|---|---|
| 5-Undecene, 9-methyl-, (Z)- | 74630-65-2 | NBS54K.l | 12705 | 64 | C12H24 | 168 |
| trans-1-Butyl-2-methylcyclopropane | 38851-70-6 | NBS54K.l | 2407 | 50 | C8H16 | 112 |



Air Toxics LTD.
Laboratory Services Since 1989

# Summary of Detected Compounds
# MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

**Client Sample ID: SG-2**

**Lab ID#: 1108582-07A**

| Compound | Rpt. Limit (ppbv) | Amount (ppbv) | Rpt. Limit (ug/m3) | Amount (ug/m3) |
|---|---|---|---|---|
| Ethanol | 17 | 46 J | 32 | 87 J |
| Acetone | 17 | 1400 E | 40 | 3300 E |
| Carbon Disulfide | 17 | 98 | 52 | 300 |
| Hexane | 3.4 | 17 | 12 | 60 |
| 1,1-Dichloroethane | 3.4 | 5.8 | 14 | 24 |
| 2-Butanone (Methyl Ethyl Ketone) | 17 | 19 | 50 | 57 |
| Cyclohexane | 3.4 | 58 | 12 | 200 |
| 2,2,4-Trimethylpentane | 17 | 20 | 78 | 94 |
| Benzene | 3.4 | 5.2 | 11 | 16 |
| Heptane | 3.4 | 17 | 14 | 69 |
| Toluene | 3.4 | 11 | 13 | 42 |
| Tetrachloroethene | 3.4 | 4.4 | 23 | 30 |
| Ethyl Benzene | 3.4 | 5.1 | 14 | 22 |
| m,p-Xylene | 3.4 | 15 | 14 | 64 |
| o-Xylene | 3.4 | 3.7 | 14 | 16 |
| 2,3-Dimethylpentane | 17 | 78 E | 69 | 320 E |
| 2-Methylpentane | 17 | 380 E | 59 | 1300 E |
| Isopentane | 17 | 920 | 50 | 2700 |

**TENTATIVELY IDENTIFIED COMPOUNDS**

| Compound | CAS Number | Match Quality | Amount (ppbv) |
|---|---|---|---|
| Unknown | NA | NA | 2800 J |
| Propane, 2-methyl- | 75-28-5 | 59% | 5500 NJ |
| Butane | 106-97-8 | 72% | 630 NJ |
| Propane, 2,2-dimethyl- | 463-82-1 | 72% | 980 NJ |
| Butane, 2,2-dimethyl- | 75-83-2 | 83% | 1500 NJ |
| Pentane, 3-methyl- | 96-14-0 | 90% | 210 NJ |
| Pentane, 2,2-dimethyl- | 590-35-2 | 83% | 280 NJ |
| 1H-Pyrazole, 3-ethyl-4,5-dihydro- | 5920-29-6 | 64% | 240 NJ |
| Heptane, 4-(1-methylethyl)- | 52896-87-4 | 72% | 280 NJ |
| Unknown | NA | NA | 240 J |

Air Toxics LTD.
Laboratory Services Since 1989

**Client Sample ID: SG-2**

**Lab ID#: 1108582-07A**

**MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN**

| | | | |
|---|---|---|---|
| **File Name:** | **a083117** | **Date of Collection: 8/24/11 1:50:00 PM** | |
| **Dil. Factor:** | **33.6** | **Date of Analysis: 8/31/11 08:38 PM** | |

| Compound | Rpt. Limit (ppbv) | Amount (ppbv) | Rpt. Limit (ug/m3) | Amount (ug/m3) |
|---|---|---|---|---|
| Freon 12 | 3.4 | Not Detected | 17 | Not Detected |
| Freon 114 | 3.4 | Not Detected | 23 | Not Detected |
| Chloromethane | 3.4 | Not Detected | 6.9 | Not Detected |
| Vinyl Chloride | 3.4 | Not Detected | 8.6 | Not Detected |
| 1,3-Butadiene | 3.4 | Not Detected | 7.4 | Not Detected |
| Bromomethane | 3.4 | Not Detected | 13 | Not Detected |
| Chloroethane | 17 | Not Detected | 44 | Not Detected |
| Freon 11 | 3.4 | Not Detected | 19 | Not Detected |
| Ethanol | 17 | 46 J | 32 | 87 J |
| Freon 113 | 3.4 | Not Detected | 26 | Not Detected |
| 1,1-Dichloroethene | 3.4 | Not Detected | 13 | Not Detected |
| Acetone | 17 | 1400 E | 40 | 3300 E |
| 2-Propanol | 17 | Not Detected | 41 | Not Detected |
| Carbon Disulfide | 17 | 98 | 52 | 300 |
| 3-Chloropropene | 17 | Not Detected | 52 | Not Detected |
| Methylene Chloride | 6.7 | Not Detected | 23 | Not Detected |
| Methyl tert-butyl ether | 3.4 | Not Detected | 12 | Not Detected |
| trans-1,2-Dichloroethene | 3.4 | Not Detected | 13 | Not Detected |
| Hexane | 3.4 | 17 | 12 | 60 |
| 1,1-Dichloroethane | 3.4 | 5.8 | 14 | 24 |
| 2-Butanone (Methyl Ethyl Ketone) | 17 | 19 | 50 | 57 |
| cis-1,2-Dichloroethene | 3.4 | Not Detected | 13 | Not Detected |
| Tetrahydrofuran | 17 | Not Detected | 50 | Not Detected |
| Chloroform | 3.4 | Not Detected | 16 | Not Detected |
| 1,1,1-Trichloroethane | 3.4 | Not Detected | 18 | Not Detected |
| Cyclohexane | 3.4 | 58 | 12 | 200 |
| Carbon Tetrachloride | 3.4 | Not Detected | 21 | Not Detected |
| 2,2,4-Trimethylpentane | 17 | 20 | 78 | 94 |
| Benzene | 3.4 | 5.2 | 11 | 16 |
| 1,2-Dichloroethane | 3.4 | Not Detected | 14 | Not Detected |
| Heptane | 3.4 | 17 | 14 | 69 |
| Trichloroethene | 3.4 | Not Detected | 18 | Not Detected |
| 1,2-Dichloropropane | 3.4 | Not Detected | 16 | Not Detected |
| 1,4-Dioxane | 3.4 | Not Detected | 12 | Not Detected |
| Bromodichloromethane | 3.4 | Not Detected | 22 | Not Detected |
| cis-1,3-Dichloropropene | 3.4 | Not Detected | 15 | Not Detected |
| 4-Methyl-2-pentanone | 3.4 | Not Detected | 14 | Not Detected |
| Toluene | 3.4 | 11 | 13 | 42 |
| trans-1,3-Dichloropropene | 3.4 | Not Detected | 15 | Not Detected |
| 1,1,2-Trichloroethane | 3.4 | Not Detected | 18 | Not Detected |
| Tetrachloroethene | 3.4 | 4.4 | 23 | 30 |

Air Toxics LTD.
Laboratory Services Since 1989

**Client Sample ID: SG-2**

**Lab ID#: 1108582-07A**

**MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN**

| | | | |
|---|---|---|---|
| **File Name:** | **a083117** | **Date of Collection:** | **8/24/11 1:50:00 PM** |
| **Dil. Factor:** | **33.6** | **Date of Analysis:** | **8/31/11 08:38 PM** |

| Compound | Rpt. Limit (ppbv) | Amount (ppbv) | Rpt. Limit (ug/m3) | Amount (ug/m3) |
|---|---|---|---|---|
| 2-Hexanone | 17 | Not Detected | 69 | Not Detected |
| Dibromochloromethane | 3.4 | Not Detected | 29 | Not Detected |
| 1,2-Dibromoethane (EDB) | 3.4 | Not Detected | 26 | Not Detected |
| Chlorobenzene | 3.4 | Not Detected | 15 | Not Detected |
| Ethyl Benzene | 3.4 | 5.1 | 14 | 22 |
| m,p-Xylene | 3.4 | 15 | 14 | 64 |
| o-Xylene | 3.4 | 3.7 | 14 | 16 |
| Styrene | 3.4 | Not Detected | 14 | Not Detected |
| Bromoform | 3.4 | Not Detected | 35 | Not Detected |
| Cumene | 3.4 | Not Detected | 16 | Not Detected |
| 1,1,2,2-Tetrachloroethane | 3.4 | Not Detected | 23 | Not Detected |
| Propylbenzene | 3.4 | Not Detected | 16 | Not Detected |
| 4-Ethyltoluene | 3.4 | Not Detected | 16 | Not Detected |
| 1,3,5-Trimethylbenzene | 3.4 | Not Detected | 16 | Not Detected |
| 1,2,4-Trimethylbenzene | 3.4 | Not Detected | 16 | Not Detected |
| 1,3-Dichlorobenzene | 3.4 | Not Detected | 20 | Not Detected |
| 1,4-Dichlorobenzene | 3.4 | Not Detected | 20 | Not Detected |
| alpha-Chlorotoluene | 3.4 | Not Detected | 17 | Not Detected |
| 1,2-Dichlorobenzene | 3.4 | Not Detected | 20 | Not Detected |
| 1,2,4-Trichlorobenzene | 17 | Not Detected | 120 | Not Detected |
| Hexachlorobutadiene | 17 | Not Detected | 180 | Not Detected |
| 2,3-Dimethylpentane | 17 | 78 E | 69 | 320 E |
| 2-Methylpentane | 17 | 380 E | 59 | 1300 E |
| Indene | 17 | Not Detected | 80 | Not Detected |
| Indan | 17 | Not Detected | 81 | Not Detected |
| Isopentane | 17 | 920 | 50 | 2700 |
| Naphthalene | 17 | Not Detected | 88 | Not Detected |
| Thiophene | 17 | Not Detected | 58 | Not Detected |

J = Estimated value due to bias in the CCV.
E = Exceeds instrument calibration range.

**TENTATIVELY IDENTIFIED COMPOUNDS**

| Compound | CAS Number | Match Quality | Amount ((ppbv)) |
|---|---|---|---|
| Unknown | NA | NA | 2800 J |
| Propane, 2-methyl- | 75-28-5 | 59% | 5500 NJ |
| Butane | 106-97-8 | 72% | 630 NJ |
| Propane, 2,2-dimethyl- | 463-82-1 | 72% | 980 NJ |
| Butane, 2,2-dimethyl- | 75-83-2 | 83% | 1500 NJ |
| Pentane, 3-methyl- | 96-14-0 | 90% | 210 NJ |
| Pentane, 2,2-dimethyl- | 590-35-2 | 83% | 280 NJ |

Air Toxics LTD.
Laboratory Services Since 1989

**Client Sample ID: SG-2**

**Lab ID#: 1108582-07A**

**MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN**

| | | | |
|---|---|---|---|
| **File Name:** | **a083117** | **Date of Collection: 8/24/11 1:50:00 PM** | |
| **Dil. Factor:** | **33.6** | **Date of Analysis: 8/31/11 08:38 PM** | |

**TENTATIVELY IDENTIFIED COMPOUNDS**

| Compound | CAS Number | Match Quality | Amount ((ppbv)) |
|---|---|---|---|
| 1H-Pyrazole, 3-ethyl-4,5-dihydro- | 5920-29-6 | 64% | 240 NJ |
| Heptane, 4-(1-methylethyl)- | 52896-87-4 | 72% | 280 NJ |
| Unknown | NA | NA | 240 J |

NJ =The identification is based on presumptive evidence; estimated value.

**Container Type: 6 Liter Summa Special (100% Certified)**

| Surrogates | %Recovery | Method Limits |
|---|---|---|
| 1,2-Dichloroethane-d4 | 103 | 70-130 |
| Toluene-d8 | 100 | 70-130 |
| 4-Bromofluorobenzene | 115 | 70-130 |

Air Toxics Ltd.

AMBIENT AIR METHOD TO14/TO15

Data file : /chem/msda.i/31Aug2011.b/a083117.d
Lab Smp Id: 1108582-07A
Inj Date : 31-AUG-2011 20:38
Operator : jc Inst ID: msda.i
Smp Info : 12.5mL #34008
Misc Info : 6.0"Hg-5psi
Comment :
Method : /chem/msda.i/31Aug2011.b/a11l0818b.m
Meth Date : 13-Sep-2011 12:21 ejakob Quant Type: ISTD
Cal Date : 31-AUG-2011 11:39 Cal File: a083106.d
Als bottle: 28
Dil Factor: 33.60000
Integrator: HP RTE Compound Sublist: Par16136.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

| | | | | CONCENTRATIONS ON-COL | FINAL | | |
|---|---|---|---|---|---|---|---|
| RT | EXP RT (REL RT) | MASS | RESPONSE | ( PPBV) | ( PPBV) | TARGET RANGE | RATIO |
| * 52 Bromochloromethane | | | | | | CAS #: 74-97-5 | |
| 15.406 | 15.406 (1.000) | 130 | 203060 | 10.0000 | | 80.00- 120.00 | 100.00 |
| 15.406 | 15.406 (1.000) | 128 | 157698 | | | 0.00- 30.00 | 77.66 |
| 15.406 | 15.406 (1.000) | 49 | 348060 | | | 0.00- 30.00 | 171.41 |
| * 66 1,4-Difluorobenzene | | | | | | CAS #: 540-36-3 | |
| 16.798 | 16.825 (1.000) | 114 | 901271 | 10.0000 | | 80.00- 120.00 | 100.00 |
| 16.798 | 16.825 (1.000) | 88 | 153448 | | | 0.00- 30.00 | 17.03 |
| * 88 Chlorobenzene-d5 | | | | | | CAS #: 3114-55-4 | |
| 21.614 | 21.614 (1.000) | 117 | 679017 | 10.0000 | | 80.00- 120.00 | 100.00 |
| 21.590 | 21.614 (1.000) | 82 | 416396 | | | 0.00- 30.00 | 61.32 |
| $ 61 1,2-Dichloroethane-d4 | | | | | | CAS #: 17060-07-0 | |
| 16.249 | 16.248 (1.055) | 65 | 376532 | 10.3046 | 10.304 | 80.00- 120.00 | 100.00 |
| 16.249 | 16.248 (1.055) | 67 | 197889 | | | 21.17- 81.17 | 52.56 |
| $ 80 Toluene-d8 | | | | | | CAS #: 2037-26-5 | |
| 19.389 | 19.411 (1.154) | 98 | 876508 | 10.0040 | 10.004 | 80.00- 120.00 | 100.00 |
| 19.389 | 19.411 (1.154) | 70 | 112193 | | | 0.00- 41.96 | 12.80 |

| RT | EXP RT (REL RT) | MASS | RESPONSE | CONCENTRATIONS ON-COL ( PPBV) | FINAL ( PPBV) | TARGET RANGE | RATIO |
|---|---|---|---|---|---|---|---|
| $ 80 Toluene-d8 (continued) | | | | | | | |
| 19.389 | 19.411 (1.154) | 100 | 580356 | | | 36.91- 96.91 | 66.21 |
| $ 100 Bromofluorobenzene | | | | | CAS #: 460-00-4 | | |
| 23.068 | 23.068 (1.067) | 174 | 407469 | 11.5214 | 11.521 | 80.00- 120.00 | 100.00 |
| 23.068 | 23.068 (1.067) | 95 | 613371 | | | 114.98- 174.98 | 150.53 |
| 23.068 | 23.068 (1.067) | 176 | 389956 | | | 67.23- 127.23 | 95.70 |
| 20 Ethanol | | | | | CAS #: 64-17-5 | | |
| 11.691 | 11.690 (0.759) | 45 | 10135 | 1.37764 | 46.289 | 80.00- 120.00 | 100.00 |
| 11.670 | 11.690 (0.757) | 43 | 3261 | | | 0.00- 57.08 | 32.18 |
| 11.691 | 11.690 (0.759) | 46 | 4789 | | | 10.87- 70.87 | 47.25 |
| 26 Carbon Disulfide | | | | | CAS #: 75-15-0 | | |
| 12.499 | 12.499 (0.811) | 76 | 315334 | 2.90965 | 97.764 | 80.00- 120.00 | 100.00 |
| 24 Acetone | | | | | CAS #: 67-64-1 | | |
| 12.416 | 12.416 (0.806) | 58 | 1104375 | 41.8131 | 1404.9 | 80.00- 120.00 | 100.00(A) |
| 12.416 | 12.416 (0.806) | 43 | 3522824 | | | 283.54- 343.54 | 318.99 |
| 40 Hexane | | | | | CAS #: 110-54-3 | | |
| 13.819 | 13.819 (0.897) | 57 | 51977 | 0.51149 | 17.186 | 80.00- 120.00 | 100.00 |
| 13.819 | 13.819 (0.897) | 43 | 35790 | | | 33.38- 93.38 | 68.86 |
| 13.819 | 13.819 (0.897) | 86 | 8559 | | | 0.00- 46.43 | 16.47 |
| 42 1,1-Dichloroethane | | | | | CAS #: 75-34-3 | | |
| 14.231 | 14.231 (0.924) | 63 | 16567 | 0.17347 | 5.829 | 80.00- 120.00 | 100.00 |
| 14.231 | 14.231 (0.924) | 65 | 5973 | | | 2.24- 62.24 | 36.05 |
| 48 2-Butanone | | | | | CAS #: 78-93-3 | | |
| 15.065 | 15.065 (0.978) | 72 | 17451 | 0.57654 | 19.372 | 80.00- 120.00 | 100.00 |
| 15.065 | 15.065 (0.978) | 43 | 110678 | | | 298.82- 358.82 | 634.22 |
| 15.065 | 15.065 (0.978) | 57 | 6763 | | | 0.00- 56.09 | 38.75 |
| 55 Cyclohexane | | | | | CAS #: 110-82-7 | | |
| 15.714 | 15.714 (1.020) | 84 | 145814 | 1.72061 | 57.812 | 80.00- 120.00 | 100.00 |
| 15.683 | 15.714 (1.018) | 56 | 420087 | | | 97.99- 157.99 | 288.10 |
| 15.683 | 15.714 (1.018) | 41 | 247531 | | | 37.94- 97.94 | 169.76 |
| 60 Benzene | | | | | CAS #: 71-43-2 | | |
| 16.249 | 16.248 (0.967) | 78 | 25797 | 0.15411 | 5.178 | 80.00- 120.00 | 100.00 |
| 16.249 | 16.248 (0.967) | 77 | 6590 | | | 0.00- 53.14 | 25.55 |
| 64 Heptane | | | | | CAS #: 142-82-5 | | |
| 16.413 | 16.413 (0.977) | 57 | 28127 | 0.50415 | 16.939 | 80.00- 120.00 | 100.00 |
| 16.413 | 16.413 (0.977) | 100 | 4129 | | | 11.16- 71.16 | 14.68 |

| RT | EXP RT (REL RT) | MASS | RESPONSE | CONCENTRATIONS ON-COL ( PPBV) | CONCENTRATIONS FINAL ( PPBV) | TARGET RANGE | RATIO |
|---|---|---|---|---|---|---|---|
| 64 Heptane (continued) | | | | | | | |
| 16.413 | 16.413 (0.977) | 43 | 32900 | | | 158.27- 218.27 | 116.97 |
| 81 Toluene | | | | | CAS #: 108-88-3 | | |
| 19.524 | 19.524 (1.162) | 91 | 63907 | 0.33381 | 11.216 | 80.00- 120.00 | 100.00 |
| 19.524 | 19.524 (1.162) | 92 | 39734 | | | 30.18- 90.18 | 62.17 |
| 84 Tetrachloroethene | | | | | CAS #: 127-18-4 | | |
| 20.366 | 20.365 (0.942) | 166 | 9524 | 0.12988 | 4.364 | 80.00- 120.00 | 100.00 |
| 20.333 | 20.365 (0.941) | 129 | 7427 | | | 48.84- 108.84 | 77.98 |
| 20.333 | 20.365 (0.941) | 131 | 6723 | | | 46.09- 106.09 | 70.59 |
| 91 Ethyl Benzene | | | | | CAS #: 100-41-4 | | |
| 21.711 | 21.711 (1.004) | 106 | 10135 | 0.15305 | 5.142 | 80.00- 120.00 | 100.00 |
| 21.711 | 21.711 (1.004) | 91 | 37966 | | | 291.22- 351.22 | 374.60 |
| 93 m,p-Xylene | | | | | CAS #: 108-38-3 | | |
| 21.855 | 21.855 (1.011) | 106 | 31602 | 0.43643 | 14.664 | 80.00- 120.00 | 100.00 |
| 21.855 | 21.855 (1.011) | 91 | 65095 | | | 173.15- 233.15 | 205.98 |
| 94 o-Xylene | | | | | CAS #: 95-47-6 | | |
| 22.385 | 22.385 (1.036) | 106 | 7762 | 0.11141 | 3.743 | 80.00- 120.00 | 100.00 |
| 22.385 | 22.385 (1.036) | 91 | 16839 | | | 185.20- 245.20 | 216.94 |
| 59 2,2,4-Trimethylpentane | | | | | CAS #: 540-84-1 | | |
| 16.166 | 16.166 (1.049) | 56 | 77621 | 0.59715 | 20.064 | 80.00- 120.00 | 100.00 |
| 16.166 | 16.166 (1.049) | 57 | 111683 | | | 264.71- 324.71 | 143.88 |
| 16.166 | 16.166 (1.049) | 41 | 68403 | | | 74.97- 134.97 | 88.12 |
| 14 Isopentane | | | | | CAS #: 78-78-4 | | |
| 10.260 | 10.260 (0.666) | 57 | 1112573 | 27.5225 | 924.76 | 80.00- 120.00 | 100.00 |
| 10.260 | 10.260 (0.666) | 43 | 1598133 | | | 104.71- 164.71 | 143.64 |
| 10.240 | 10.260 (0.665) | 42 | 1385803 | | | 89.04- 149.04 | 124.56 |
| 30 2-Methylpentane | | | | | CAS #: 107-83-5 | | |
| 12.940 | 12.995 (0.840) | 71 | 383746 | 11.3301 | 380.69 | 80.00- 120.00 | 100.00(A) |
| 12.940 | 12.995 (0.840) | 43 | 1956797 | | | 0.00- 30.00 | 509.92 |
| 12.940 | 12.995 (0.840) | 42 | 1599549 | | | 0.00- 30.00 | 416.82 |
| 54 2,3-Dimethylpentane | | | | | CAS #: 565-59-3 | | |
| 15.683 | 15.683 (1.018) | 71 | 69986 | 2.32017 | 77.958 | 80.00- 120.00 | 100.00(A) |
| 15.683 | 15.683 (1.018) | 56 | 420087 | | | 0.00- 30.00 | 600.24 |
| 15.683 | 15.683 (1.018) | 43 | 187884 | | | 0.00- 30.00 | 268.46 |

QC Flag Legend

A - Target compound detected but, quantitated amount
exceeded maximum amount.

Air Toxics Ltd.

AMBIENT AIR METHOD TO14/TO15

Data file : /chem/msda.i/31Aug2011.b/a083117.d
Lab Smp Id: 1108582-07A
Inj Date : 31-AUG-2011 20:38
Operator : jc Inst ID: msda.i
Smp Info : 12.5mL #34008
Misc Info : 6.0"Hg-5psi
Comment :
Method : /chem/msda.i/31Aug2011.b/a11l0818b.m
Meth Date : 13-Sep-2011 12:21 ejakob Quant Type: ISTD
Cal Date : 31-AUG-2011 11:39 Cal File: a083106.d
Als bottle: 28
Dil Factor: 33.60000
Integrator: HP RTE Compound Sublist: Par16136.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

| ISTD | RT | AREA | AMOUNT |
|---|---|---|---|
| * 52 Bromochloromethane | 15.406 | 2353565 | 10.000 |
| * 66 1,4-Difluorobenzene | 16.798 | 2245409 | 10.000 |
| * 88 Chlorobenzene-d5 | 21.614 | 2645303 | 10.000 |

| | CONCENTRATIONS | | | QUANT | | | |
|---|---|---|---|---|---|---|---|
| RT | AREA | ON-COL( PPBV) | FINAL( PPBV) | QUAL | LIBRARY | LIB ENTRY | CPND # |
| Unknown | | | | CAS #: | | | |
| 5.107 | 19298055 | 81.9949607 | 2755.0 | 0 | | 0 | 52 |
| Propane, 2-methyl- | | | | CAS #: 75-28-5 | | | |
| 6.843 | 38728635 | 164.553006 | 5529.0 | 59 | NBS54K.l | 97 | 52(L) |
| Butane | | | | CAS #: 106-97-8 | | | |
| 7.937 | 4427788 | 18.8131050 | 632.12 | 72 | NBS54K.l | 98 | 52 |

| RT | AREA | ON-COL( PPBV) | FINAL( PPBV) | QUAL | LIBRARY | LIB ENTRY | CPND # |
|---|---|---|---|---|---|---|---|
| Propane, 2,2-dimethyl- | | | | | CAS #: 463-82-1 | | |
| 8.302 | 6830844 | 29.0233788 | 975.18 | 72 | NBS54K.l | 273 | 52(L) |
| Butane, 2,2-dimethyl- | | | | | CAS #: 75-83-2 | | |
| 12.064 | 10541017 | 44.7874303 | 1504.8 | 83 | NBS54K.l | 683 | 52 |
| Pentane, 3-methyl- | | | | | CAS #: 96-14-0 | | |
| 13.407 | 1449261 | 6.15772235 | 206.90 | 90 | NBS54K.l | 685 | 52(L) |
| Pentane, 2,2-dimethyl- | | | | | CAS #: 590-35-2 | | |
| 14.450 | 1953001 | 8.29804952 | 278.81 | 83 | NBS54K.l | 1441 | 52 |
| 1H-Pyrazole, 3-ethyl-4,5-dihydro- | | | | | CAS #: 5920-29-6 | | |
| 17.484 | 1585809 | 7.06245199 | 237.30 | 64 | NBS54K.l | 1118 | 66 |
| Heptane, 4-(1-methylethyl)- | | | | | CAS #: 52896-87-4 | | |
| 22.530 | 2188901 | 8.27466707 | 278.03 | 72 | NBS54K.l | 6992 | 88 |
| Unknown | | | | | CAS #: | | |
| 23.403 | 1887944 | 7.13696351 | 239.80 | 0 | 0 | | 88 |

## QC Flag Legend

L - Operator selected an alternate library search match.

Report Date: 13-Sep-2011 12:32

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msda.i
Lab File ID: a083117.d
Lab Smp Id: 1108582-07A
Analysis Type: VOA
Quant Type: ISTD
Operator: jc
Method File: /chem/msda.i/31Aug2011.b/a11l0818b.m
Misc Info: 6.0"Hg-5psi

Calibration Date: 31-AUG-2011
Calibration Time: 08:01
Level: LOW
Sample Type: AIR

| | | AREA LIMIT | | | |
|---|---|---|---|---|---|
| COMPOUND | STANDARD | LOWER | UPPER | SAMPLE | %DIFF |
| 52 Bromochloromethan | 206450 | 123870 | 289030 | 203060 | -1.64 |
| 66 1,4-Difluorobenze | 897592 | 538555 | 1256629 | 901271 | 0.41 |
| 88 Chlorobenzene-d5 | 792197 | 475318 | 1109076 | 679017 | -14.29 |

| | | RT LIMIT | | | |
|---|---|---|---|---|---|
| COMPOUND | STANDARD | LOWER | UPPER | SAMPLE | %DIFF |
| 52 Bromochloromethan | 15.41 | 15.08 | 15.74 | 15.41 | 0.00 |
| 66 1,4-Difluorobenze | 16.82 | 16.50 | 17.15 | 16.80 | -0.16 |
| 88 Chlorobenzene-d5 | 21.61 | 21.28 | 21.94 | 21.61 | 0.00 |

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Report Date: 13-Sep-2011 12:32

Air Toxics Ltd.

RECOVERY REPORT

Client Name: Client SDG: 31Aug2011
Sample Matrix: GAS Fraction: VOA
Lab Smp Id: 1108582-07A
Level: LOW Operator: jc
Data Type: MS DATA SampleType: SAMPLE
SpikeList File: AT09.spk Quant Type: ISTD
Sublist File: Par16136.sub
Method File: /chem/msda.i/31Aug2011.b/a11l0818b.m
Misc Info: 6.0"Hg-5psi

| SURROGATE COMPOUND | CONC ADDED PPBV | CONC RECOVERED PPBV | % RECOVERED | LIMITS |
|---|---|---|---|---|
| $ 61 1,2-Dichloroethane | 10.000 | 10.304 | 103.05 | 70-130 |
| $ 80 Toluene-d8 | 10.000 | 10.004 | 100.04 | 70-130 |
| $ 100 Bromofluorobenzene | 10.000 | 11.521 | 115.21 | 70-130 |

Š¾

Data File: /chem/msda.i/31Aug2011.b/a083117.d



Date : 31-AUG-2011 20:38

Client ID:

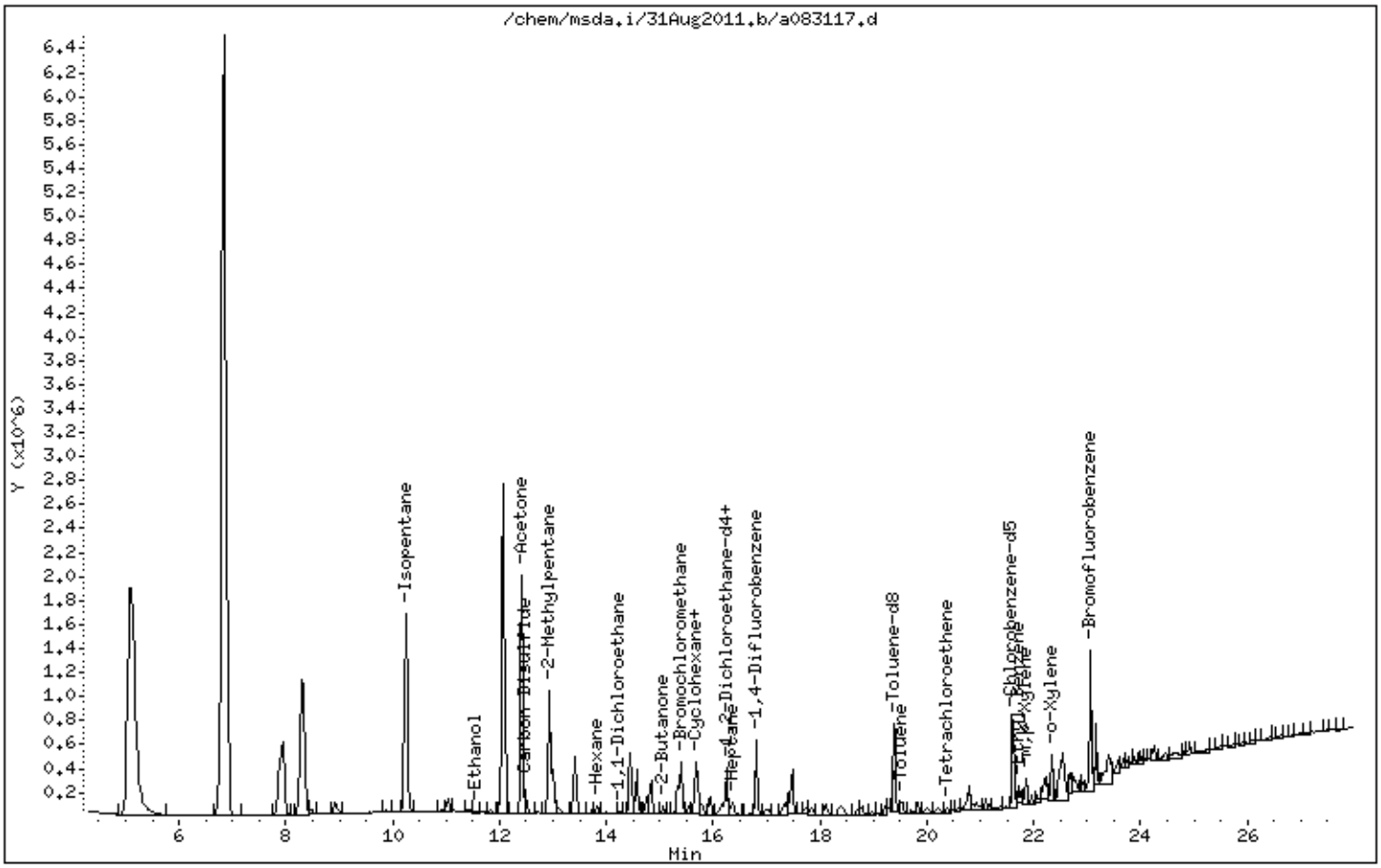
Instrument: msda.i

Sample Info: 12.5mL #34008

Operator: jc

Column phase: RTx-624

Column diameter: 0.32



Data File: /chem/msda.i/31Aug2011.b/a083117.d

Date : 31-AUG-2011 20:38

Client ID:

Instrument: msda.i

Sample Info: 12.5mL #34008

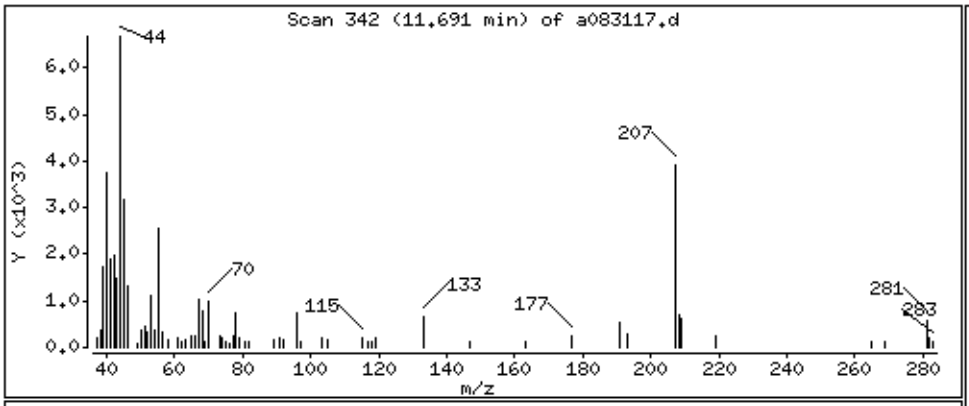
Operator: jc

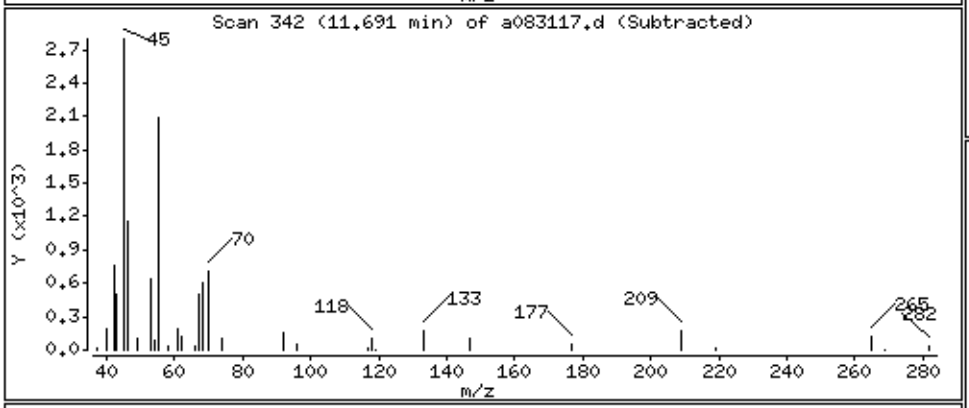
Column phase: RTx-624

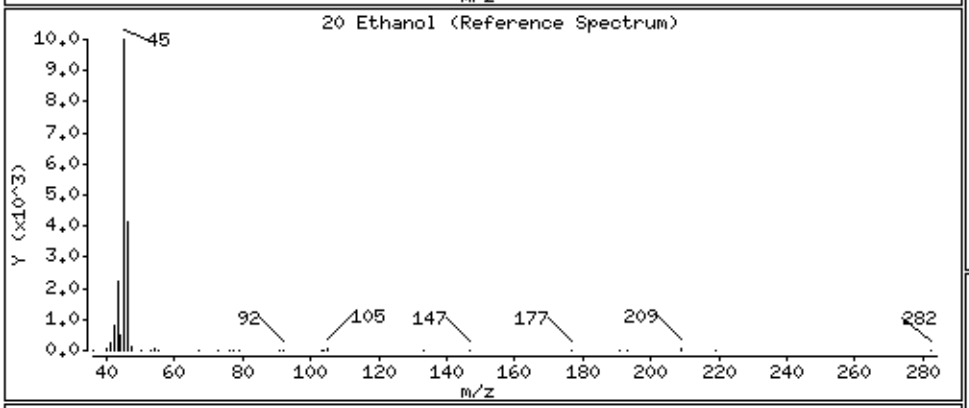
Column diameter: 0.32

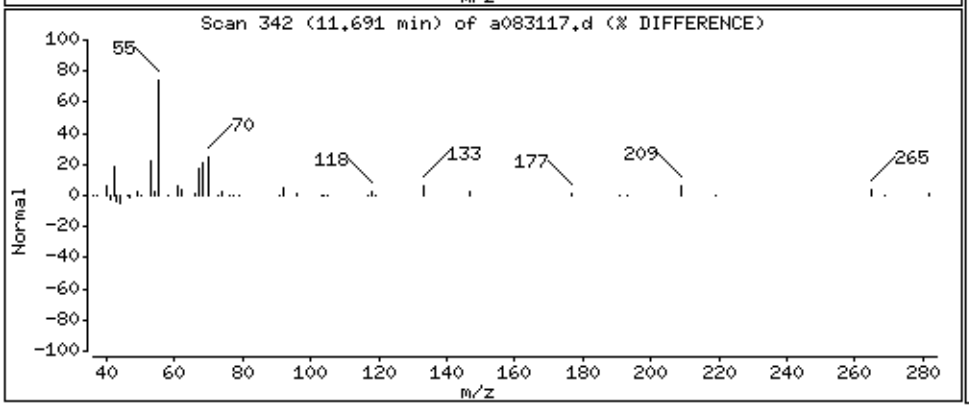
20 Ethanol

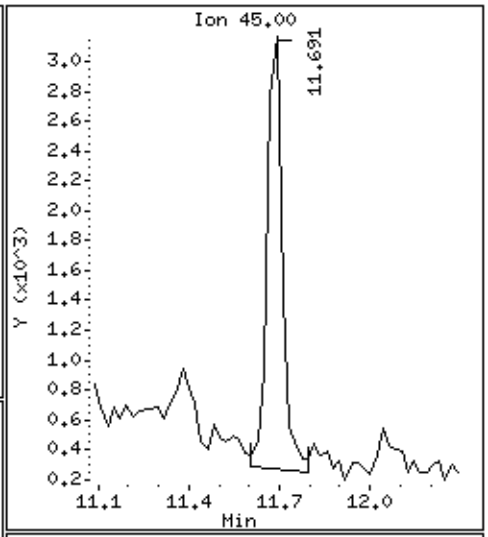
Concentration: 46.289 PPBV

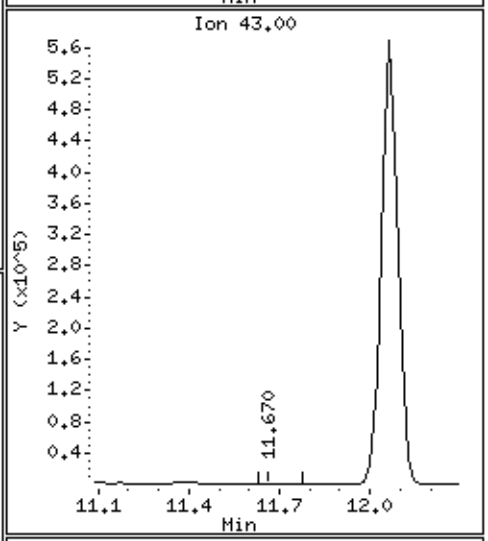


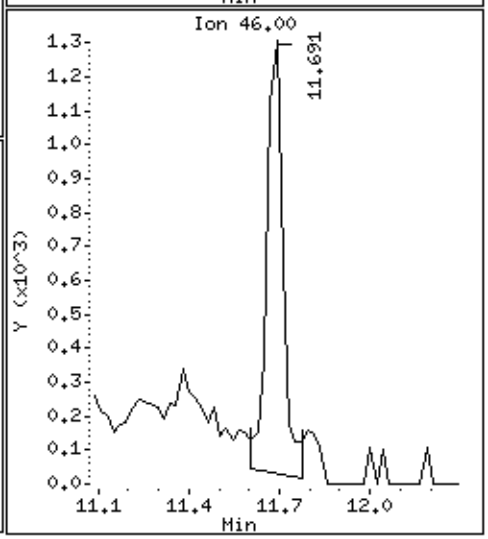



Data File: /chem/msda.i/31Aug2011.b/a083117.d

Date : 31-AUG-2011 20:38

Client ID:

Instrument: msda.i

Sample Info: 12.5mL #34008

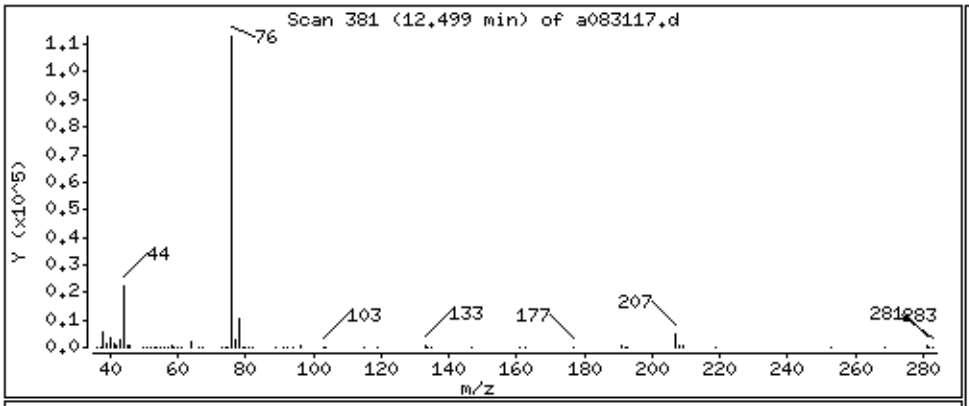
Operator: jc

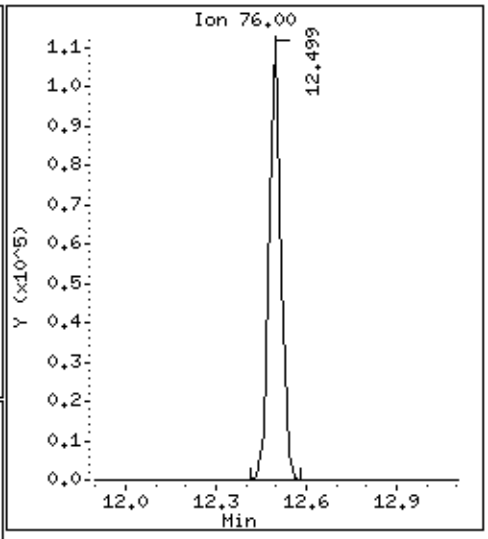
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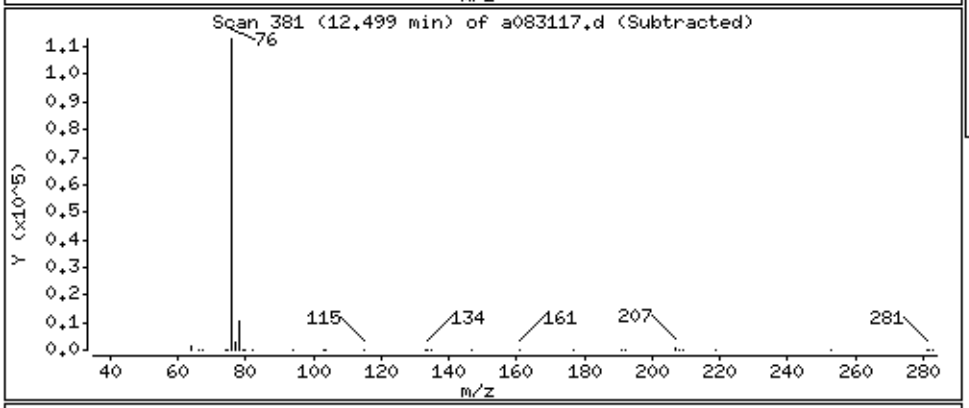
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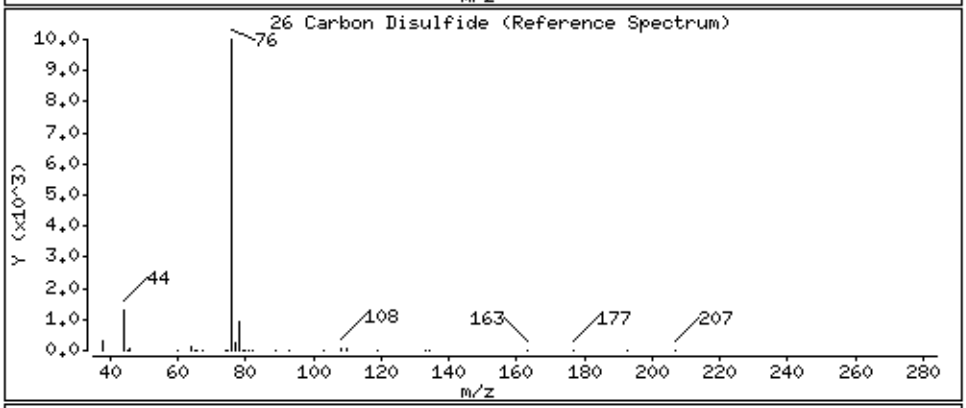
26 Carbon Disulfide

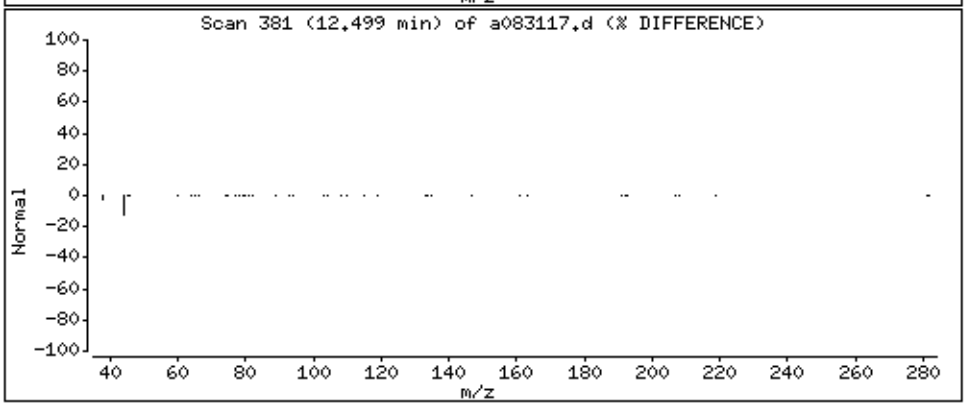
Concentration: 97.764 PPBV



Data File: /chem/msda.i/31Aug2011.b/a083117.d

Date : 31-AUG-2011 20:38

Client ID:

Instrument: msda.i

Sample Info: 12.5mL #34008

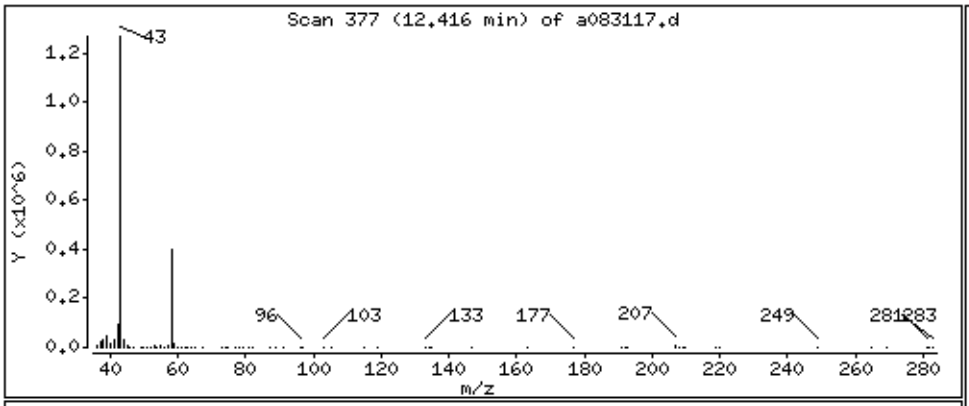
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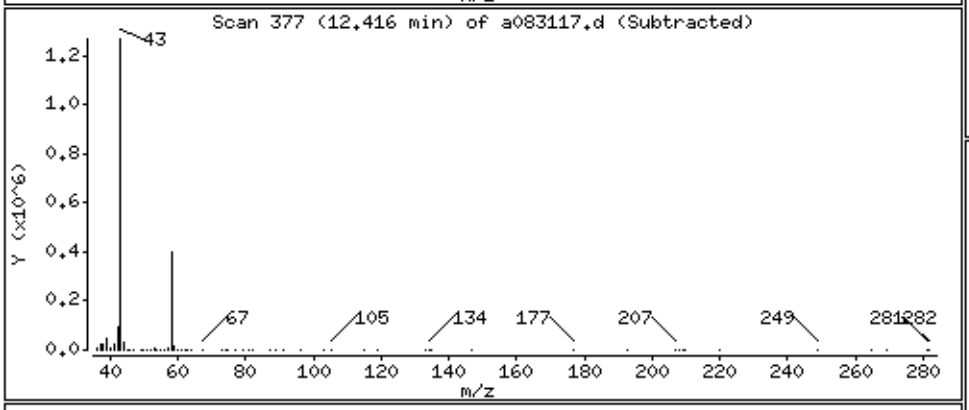
Column phase: RTx-624

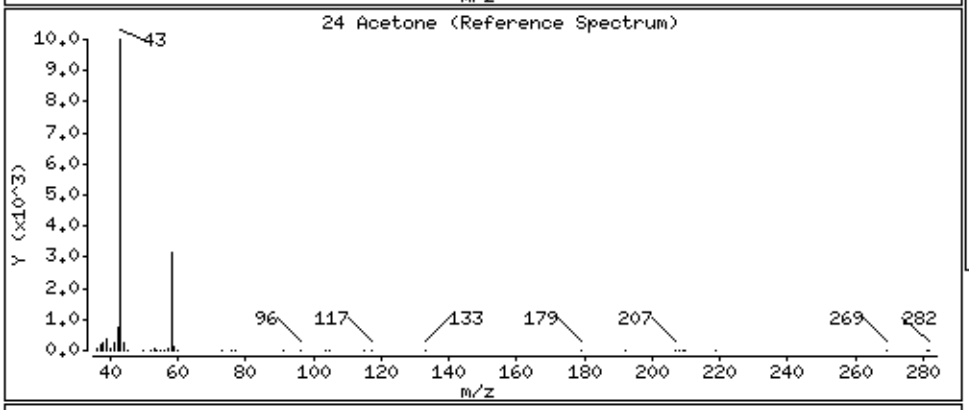
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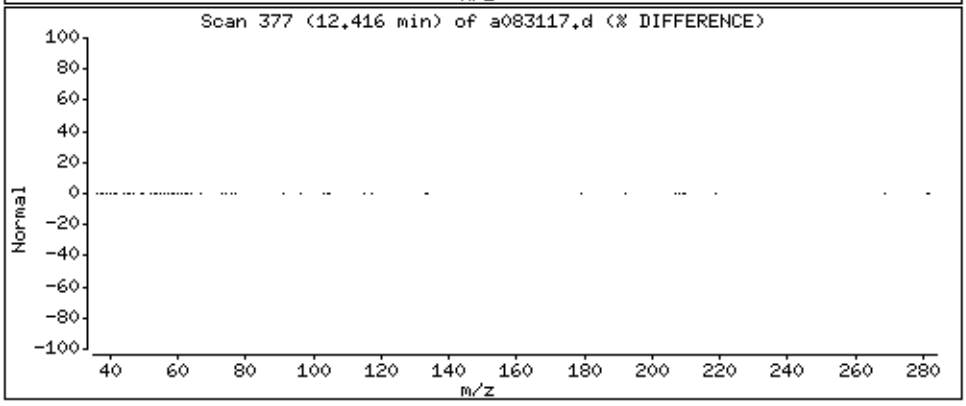
24 Acetone

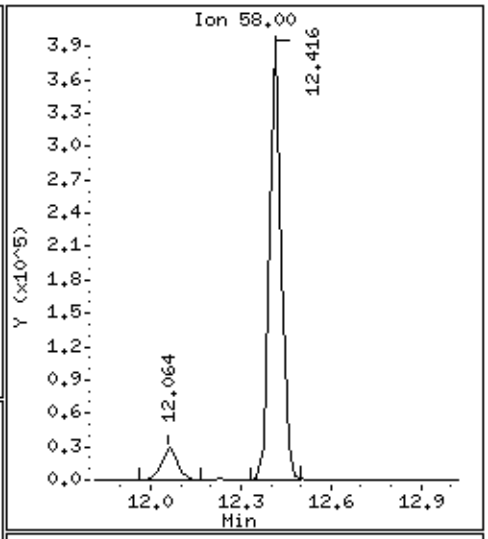
Concentration: 1404.9 PPBV

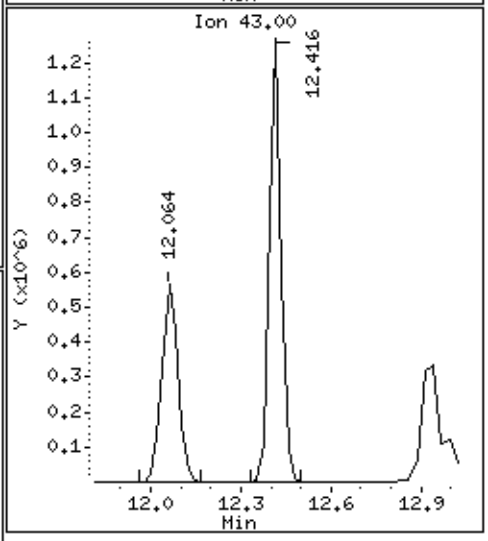


Data File: /chem/msda.i/31Aug2011.b/a083117.d

Date : 31-AUG-2011 20:38

Client ID:

Instrument: msda.i

Sample Info: 12.5mL #34008

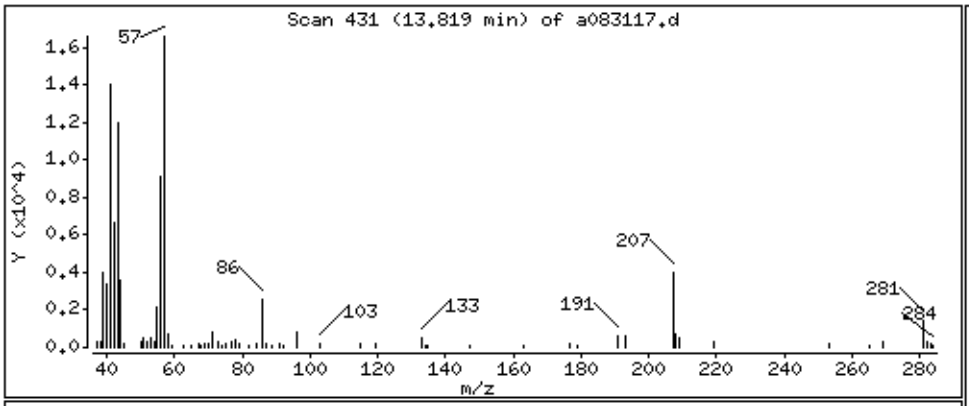
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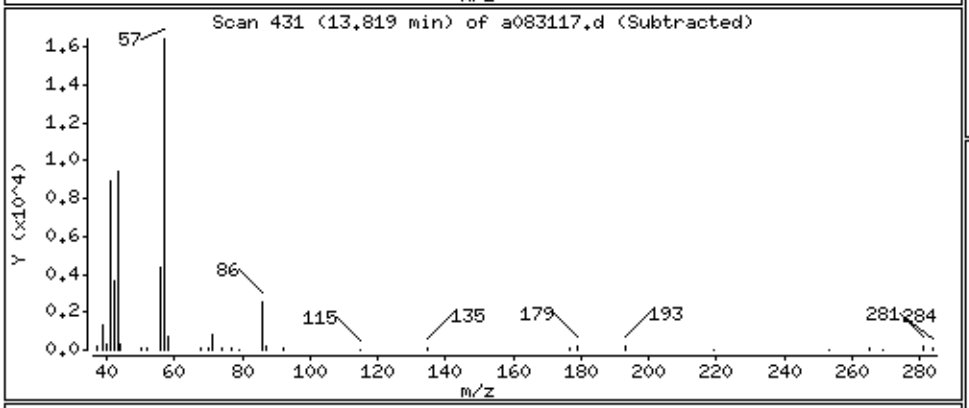
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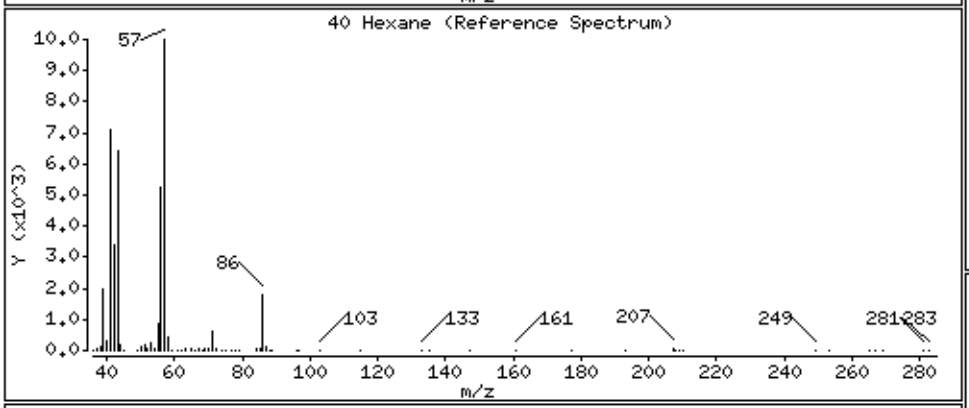
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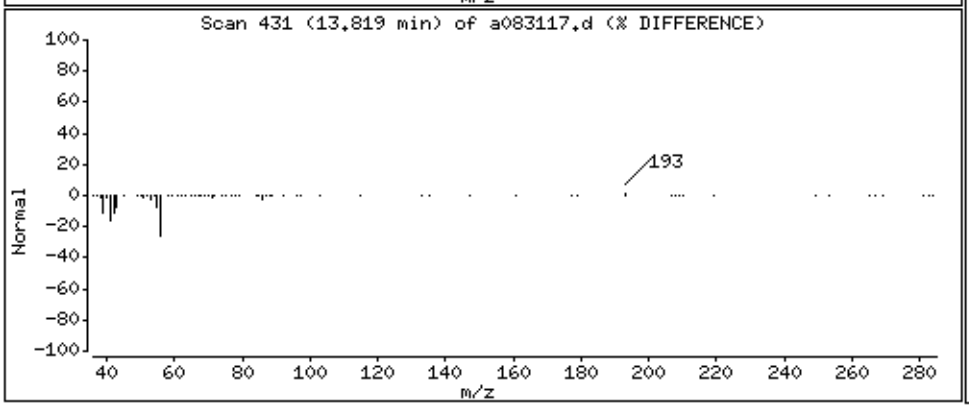
40 Hexane

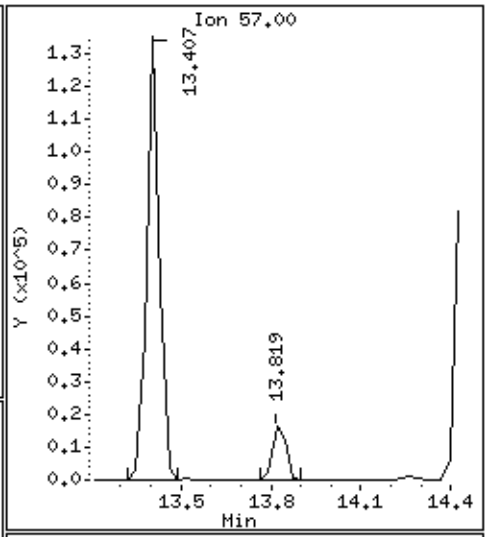
Concentration: 17.186 PPBV

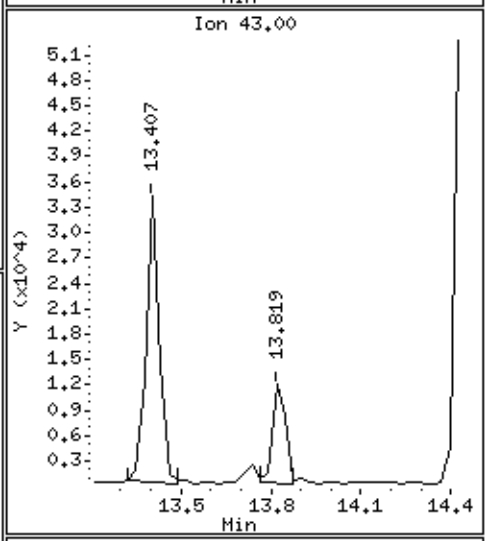


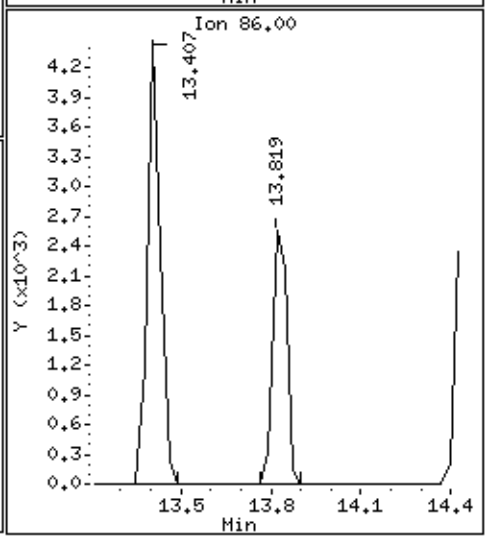



Data File: /chem/msda.i/31Aug2011.b/a083117.d

Date : 31-AUG-2011 20:38

Client ID:

Instrument: msda.i

Sample Info: 12.5mL #34008

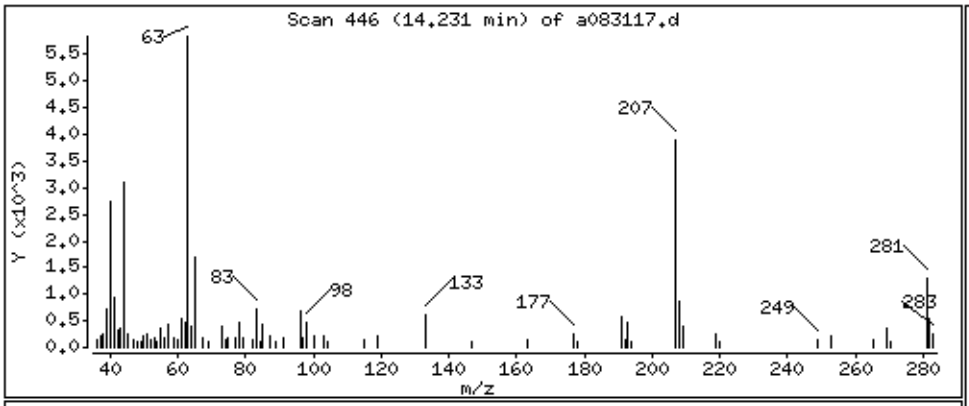
Operator: jc

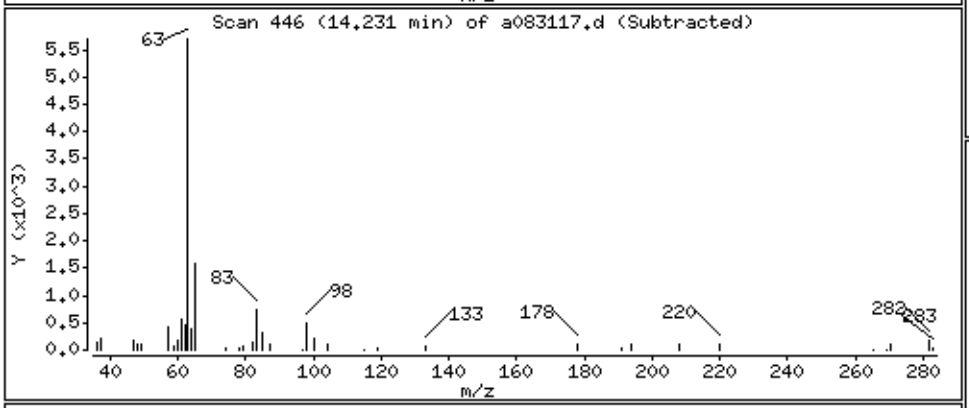
Column phase: RTx-624

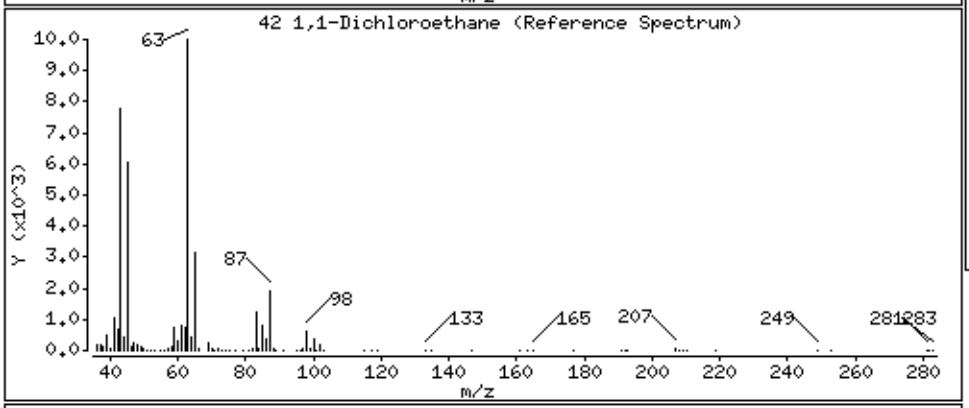
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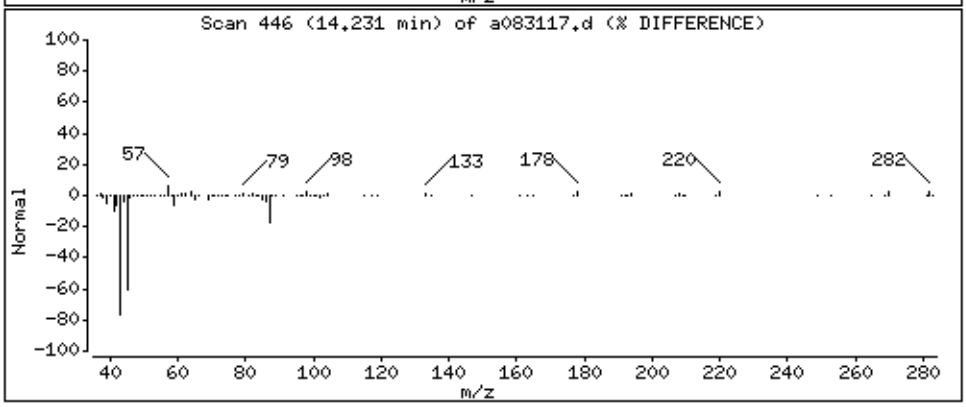
42 1,1-Dichloroethane

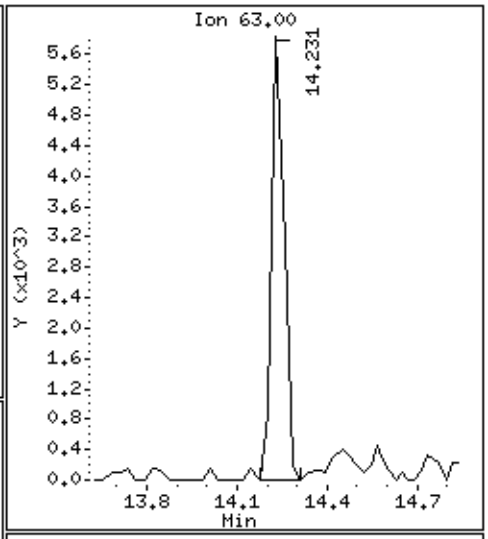
Concentration: 5.829 PPBV

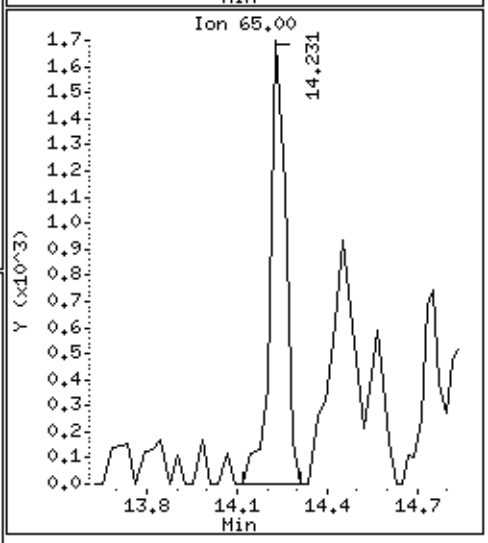


Data File: /chem/msda.i/31Aug2011.b/a083117.d

Date : 31-AUG-2011 20:38

Client ID:

Instrument: msda.i

Sample Info: 12.5mL #34008

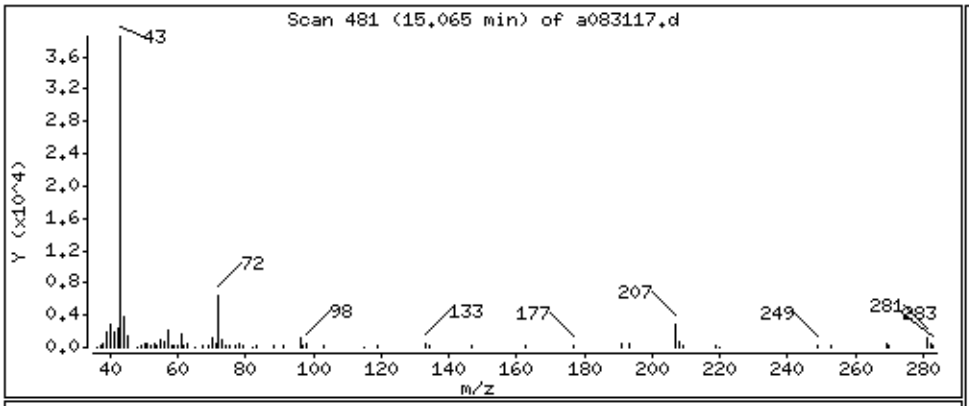
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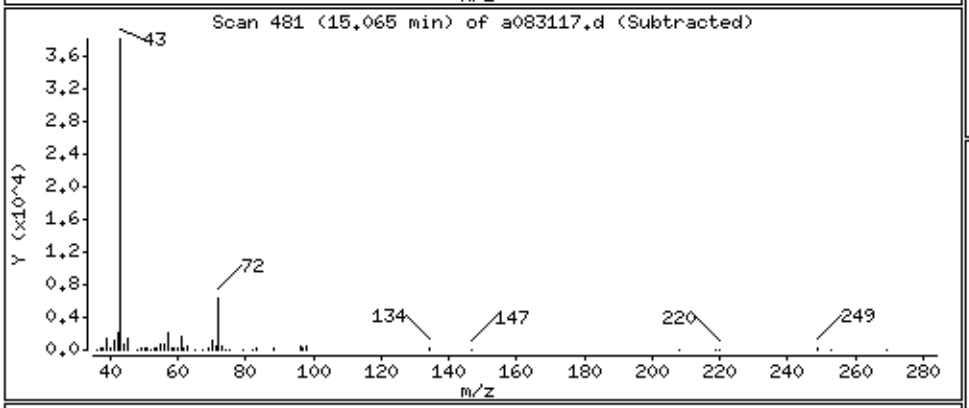
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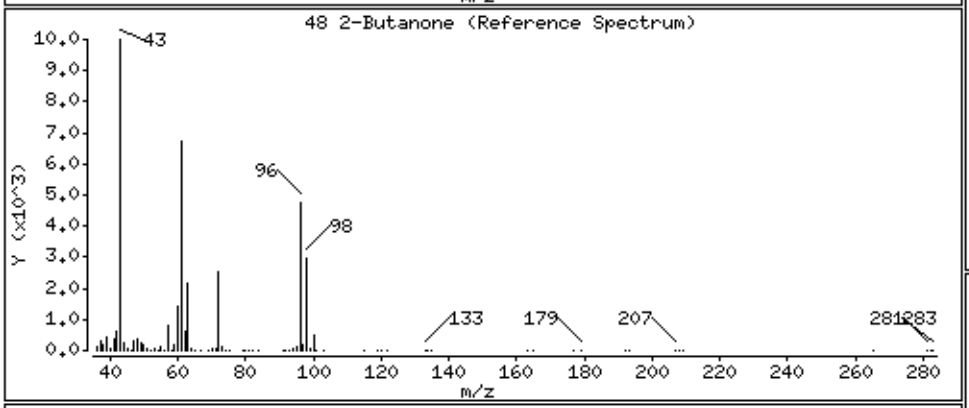
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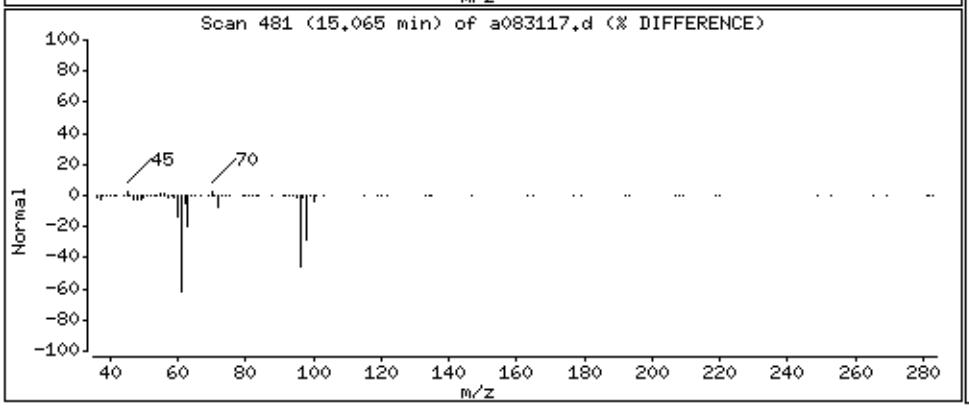
48 2-Butanone

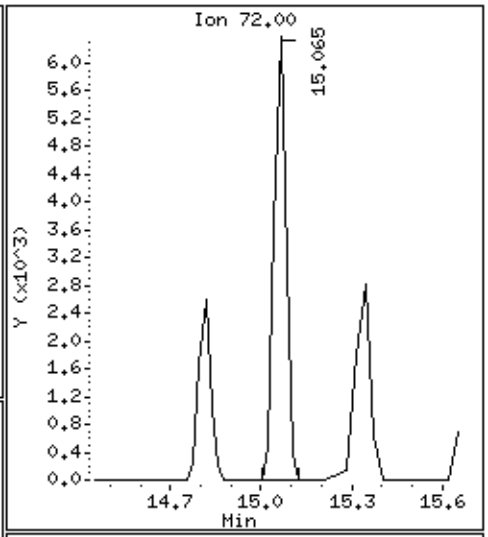
Concentration: 19.372 PPBV

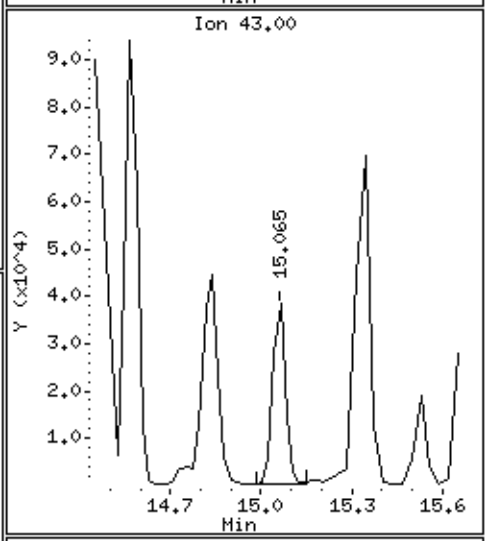


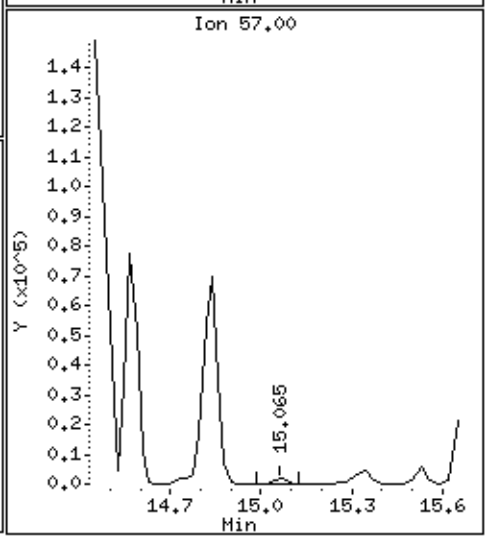



Data File: /chem/msda.i/31Aug2011.b/a083117.d

Date : 31-AUG-2011 20:38

Client ID:

Instrument: msda.i

Sample Info: 12.5mL #34008

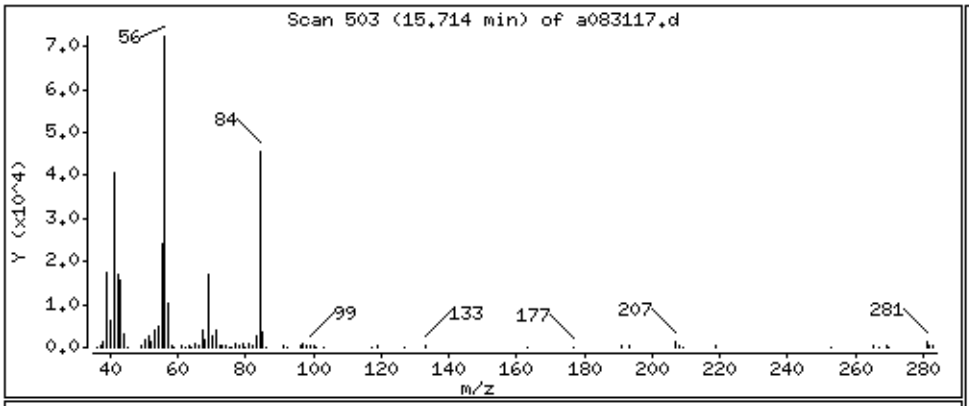
Operator: jc

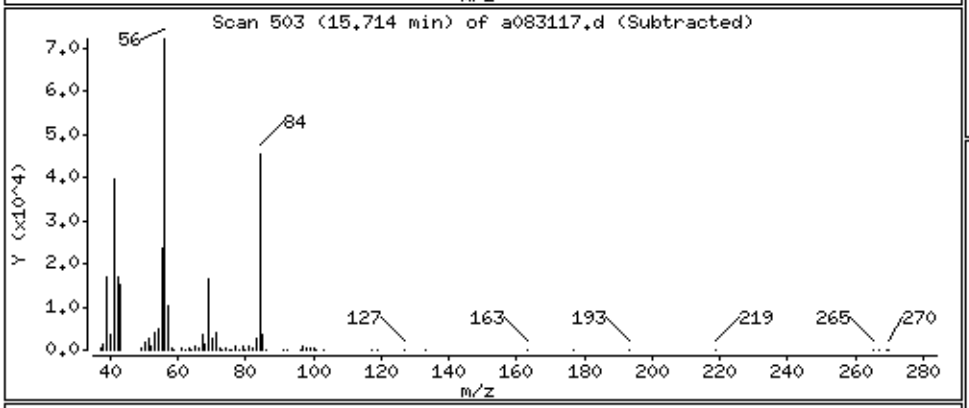
Column phase: RTx-624

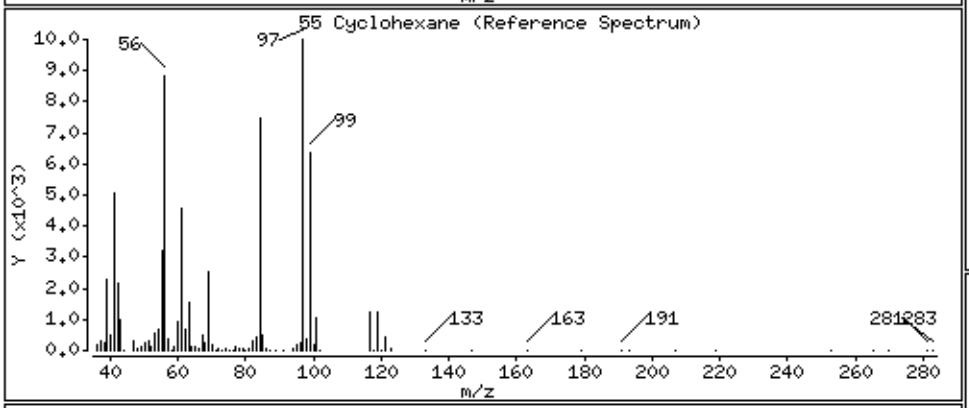
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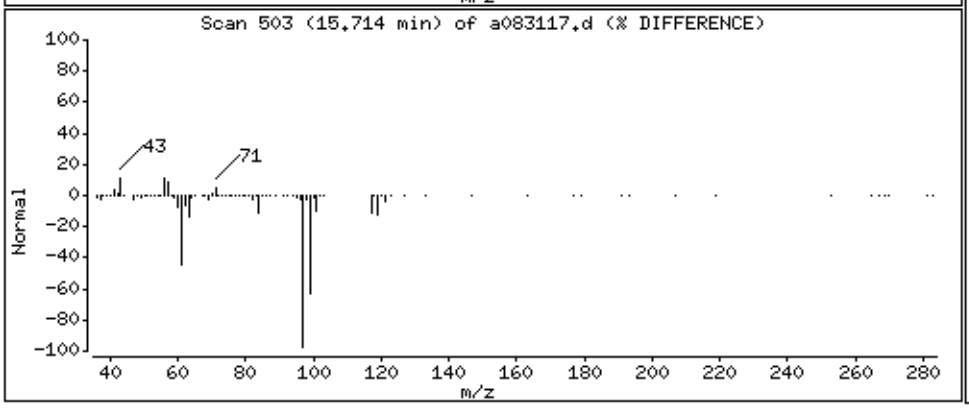
55 Cyclohexane

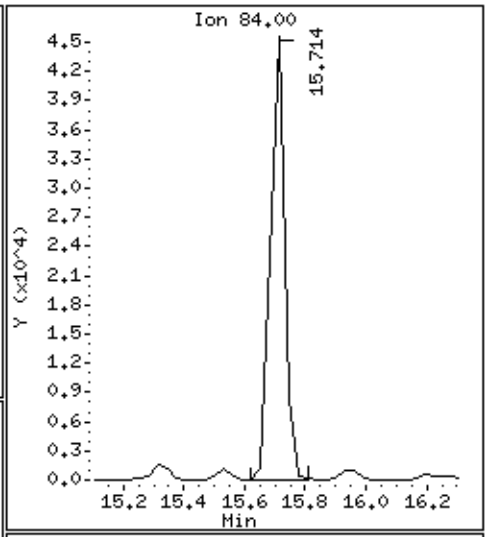
Concentration: 57.812 PPBV

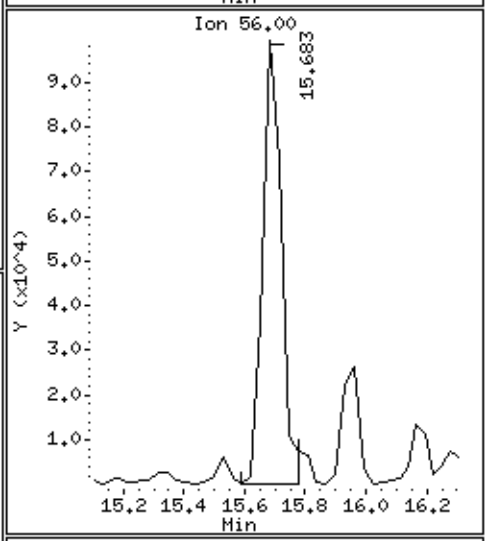


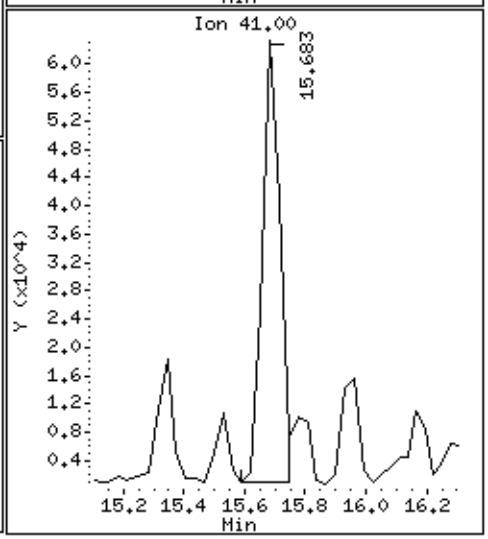



Data File: /chem/msda.i/31Aug2011.b/a083117.d

Date : 31-AUG-2011 20:38

Client ID:

Instrument: msda.i

Sample Info: 12.5mL #34008

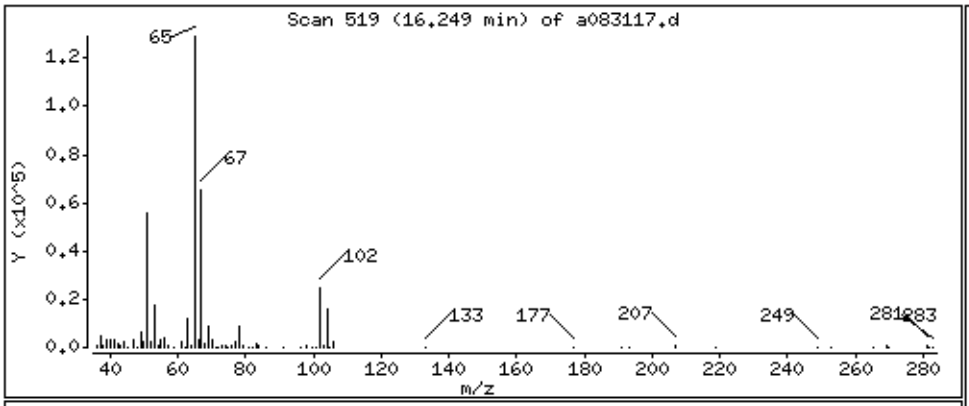
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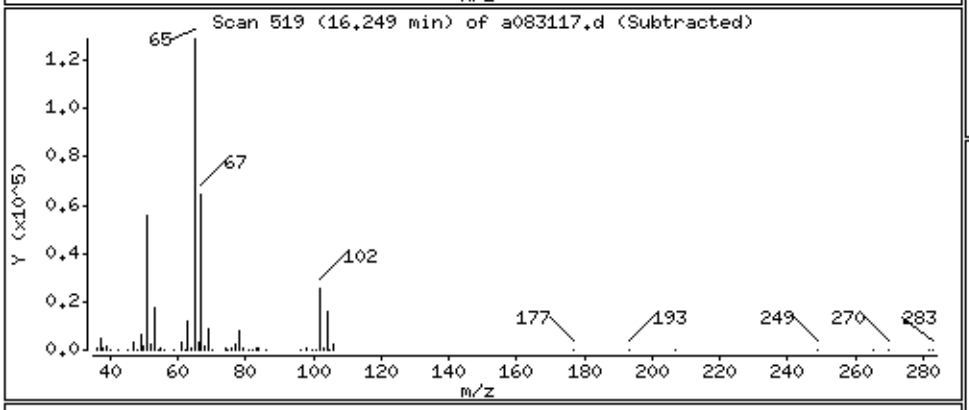
Column phase: RTx-624

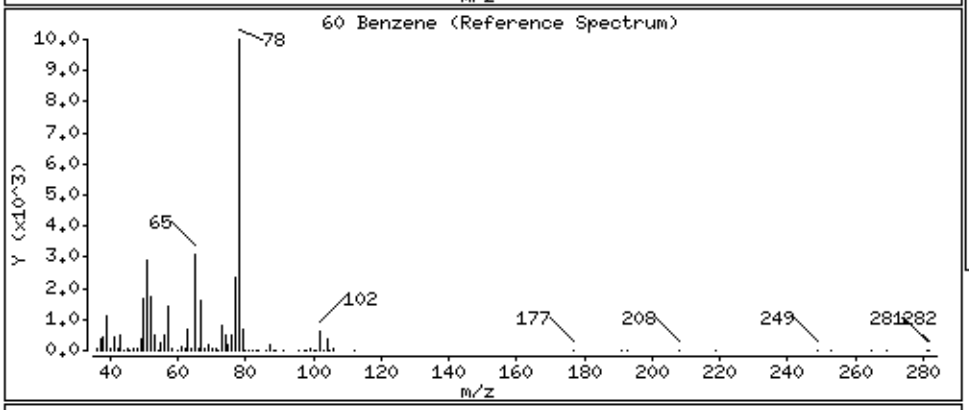
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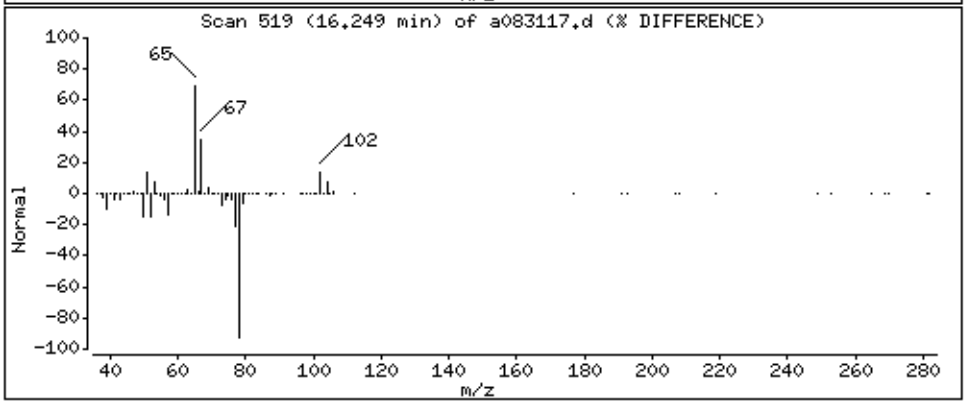
60 Benzene

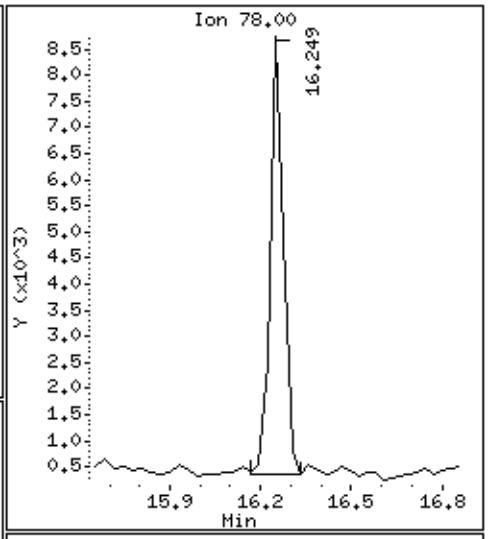
Concentration: 5.178 PPBV

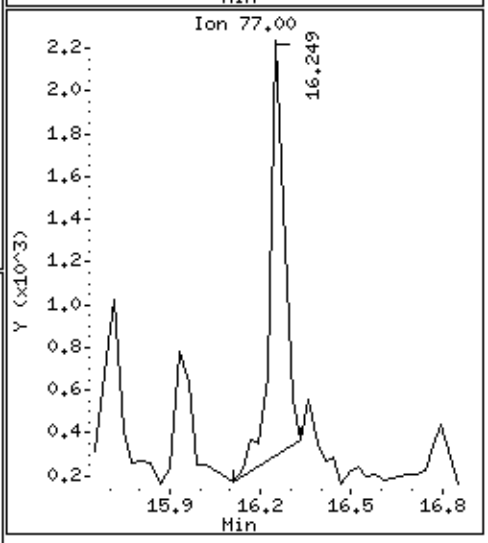


Data File: /chem/msda.i/31Aug2011.b/a083117.d

Date : 31-AUG-2011 20:38

Client ID:

Instrument: msda.i

Sample Info: 12.5mL #34008

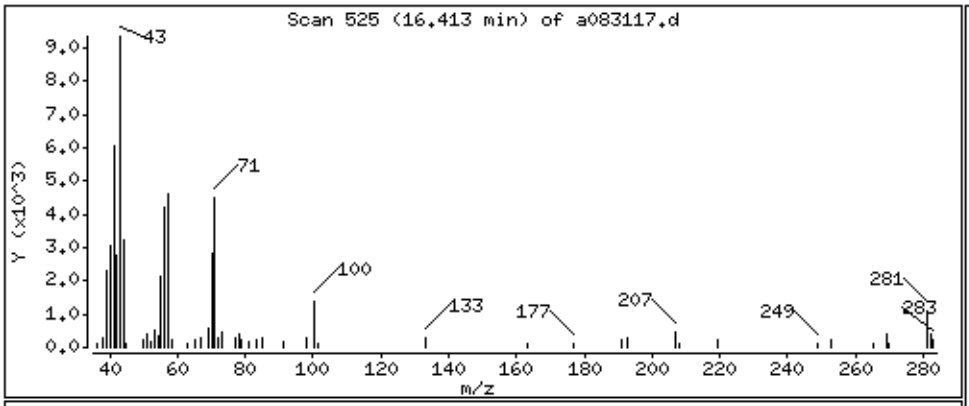
Operator: jc

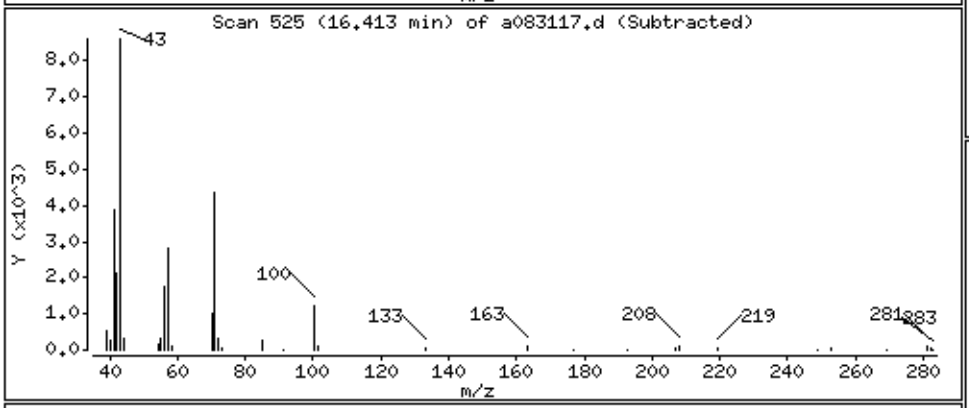
Column phase: RTx-624

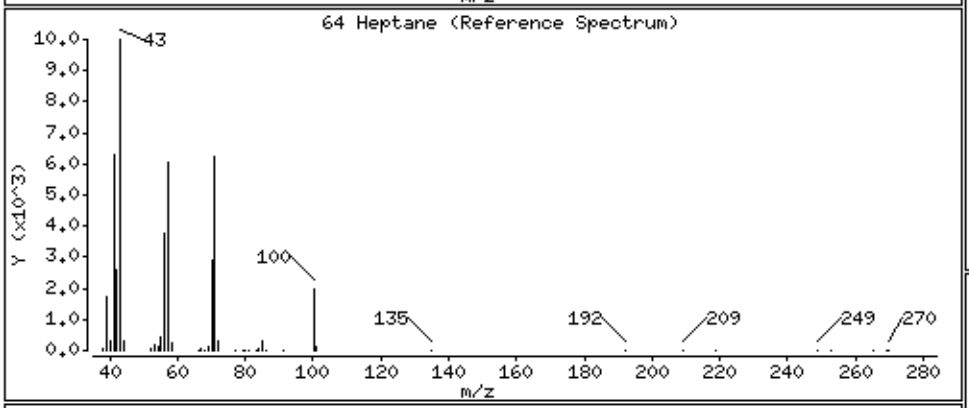
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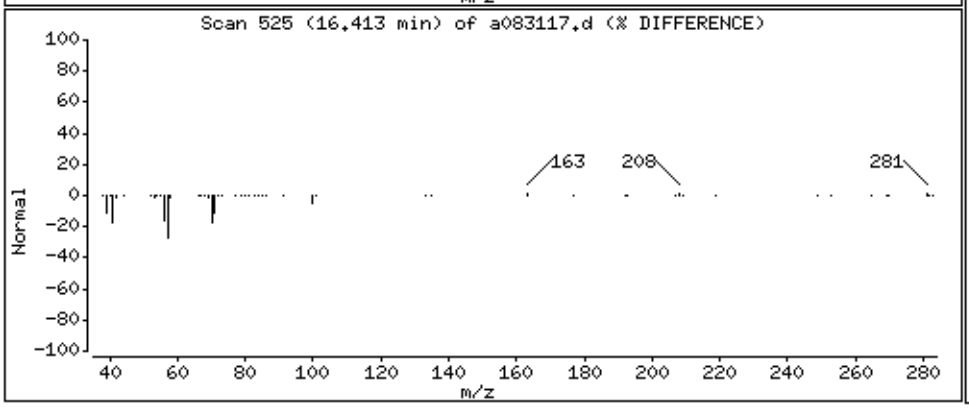
64 Heptane

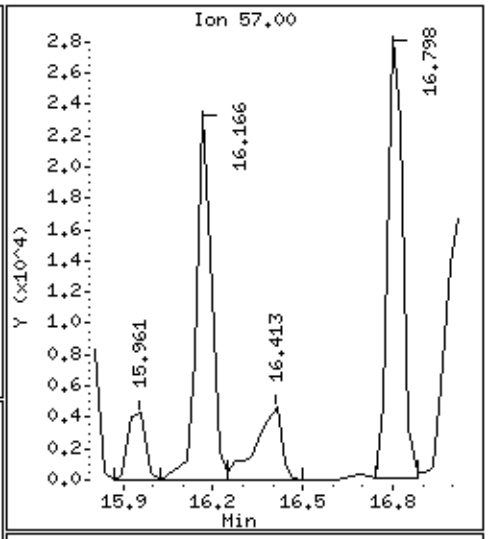
Concentration: 16.939 PPBV

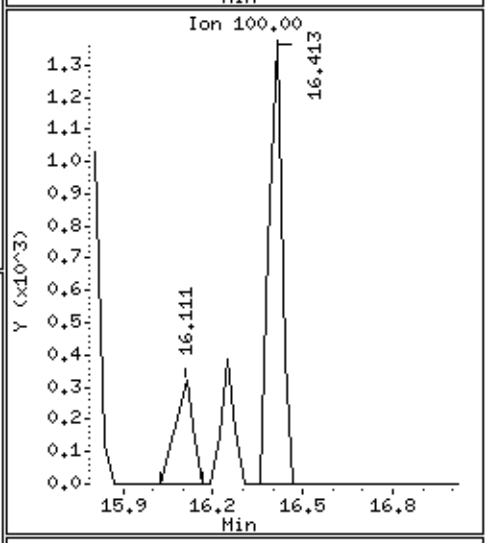


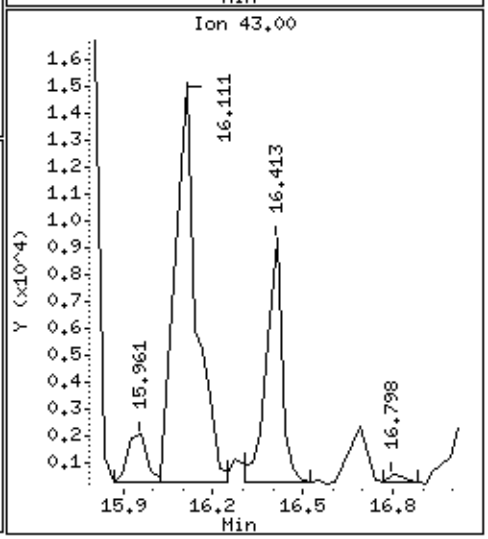



Data File: /chem/msda.i/31Aug2011.b/a083117.d

Date : 31-AUG-2011 20:38

Client ID:

Instrument: msda.i

Sample Info: 12.5mL #34008

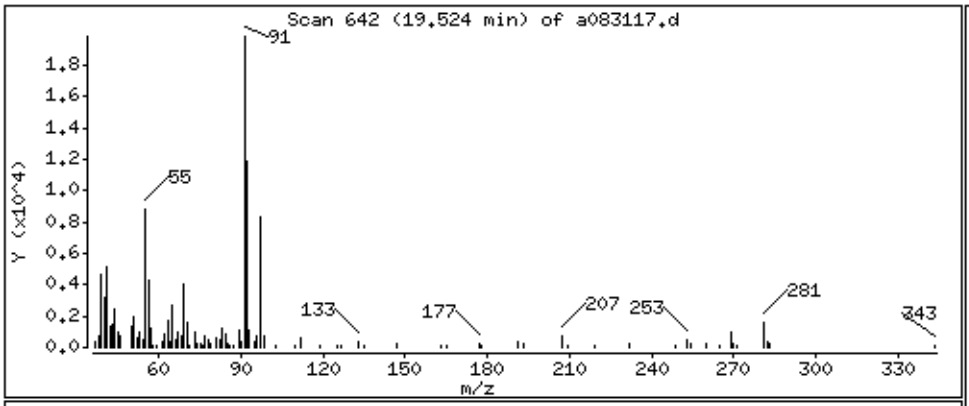
Operator: jc

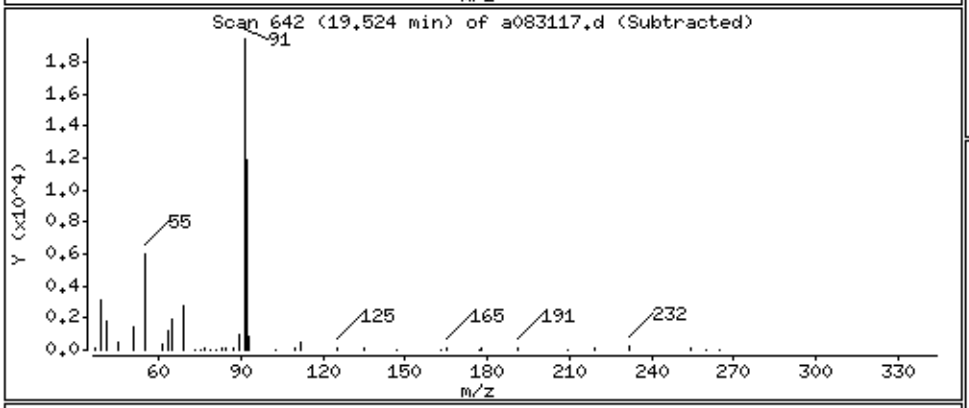
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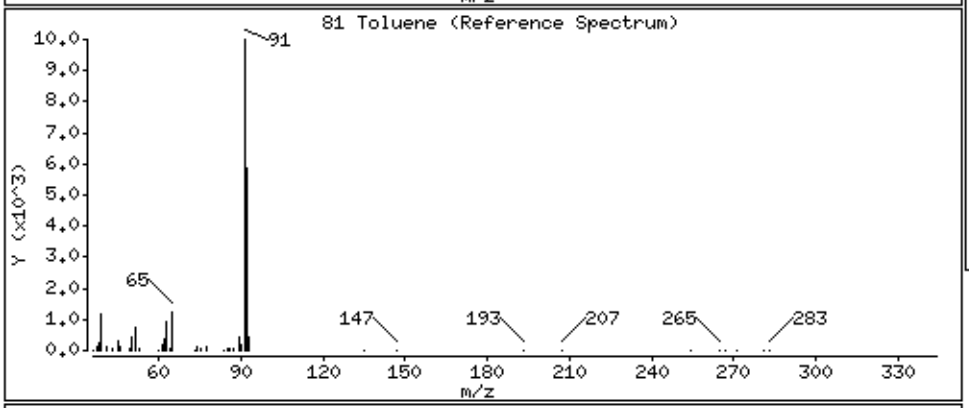
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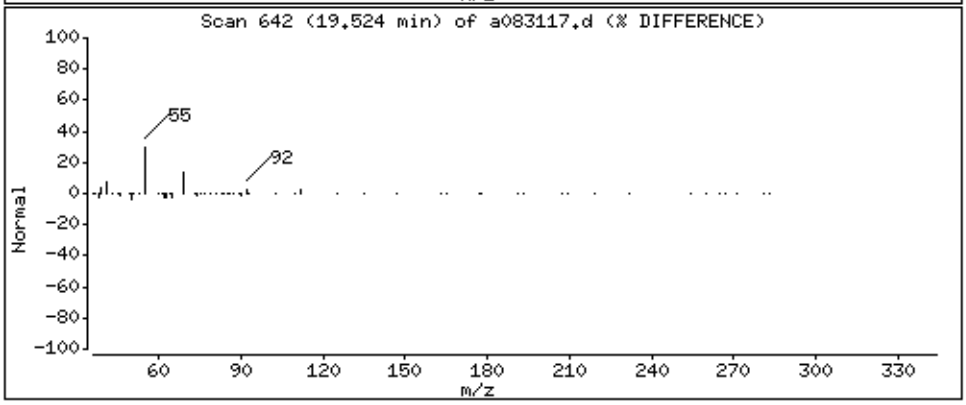
81 Toluene

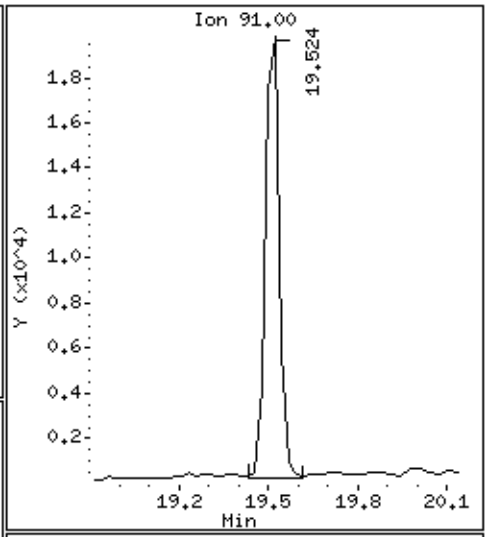
Concentration: 11.216 PPBV

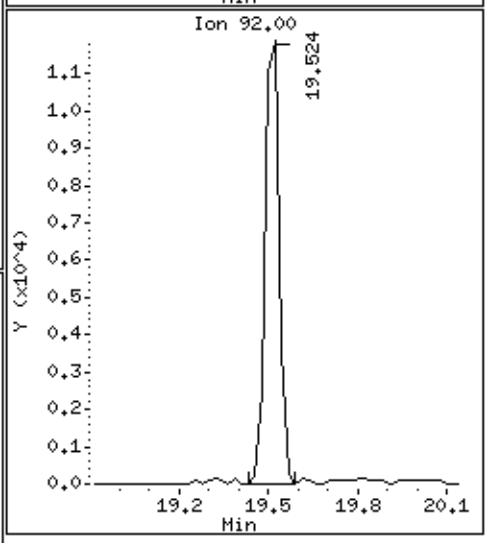


Data File: /chem/msda.i/31Aug2011.b/a083117.d

Date : 31-AUG-2011 20:38

Client ID:

Instrument: msda.i

Sample Info: 12.5mL #34008

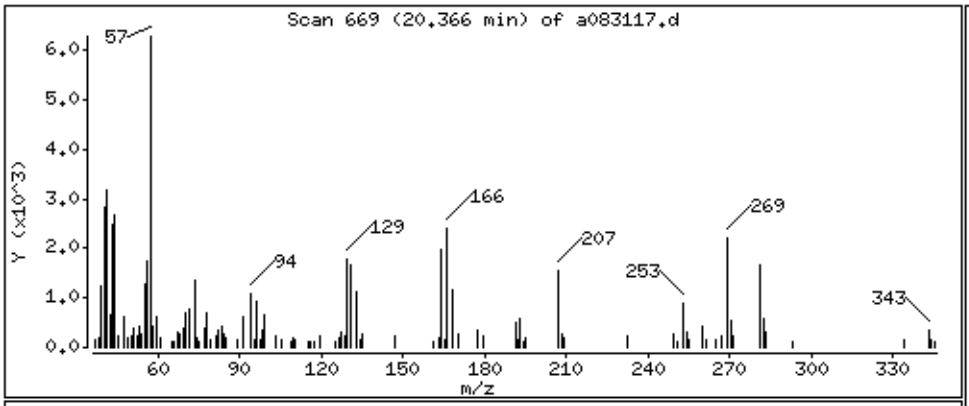
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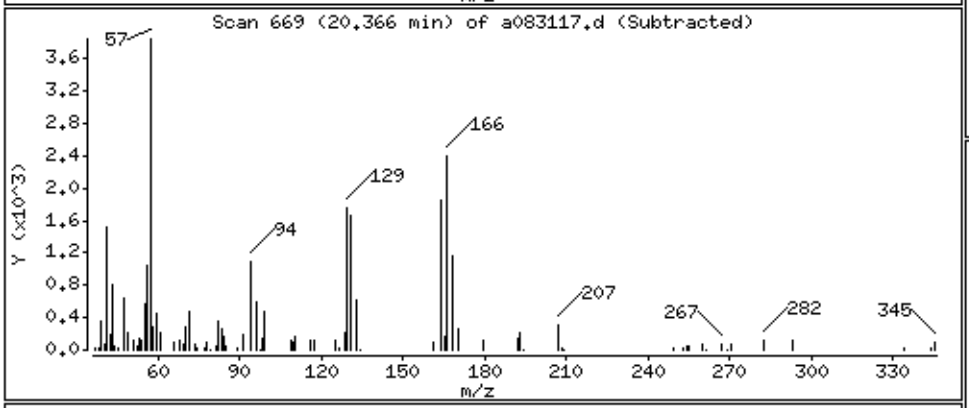
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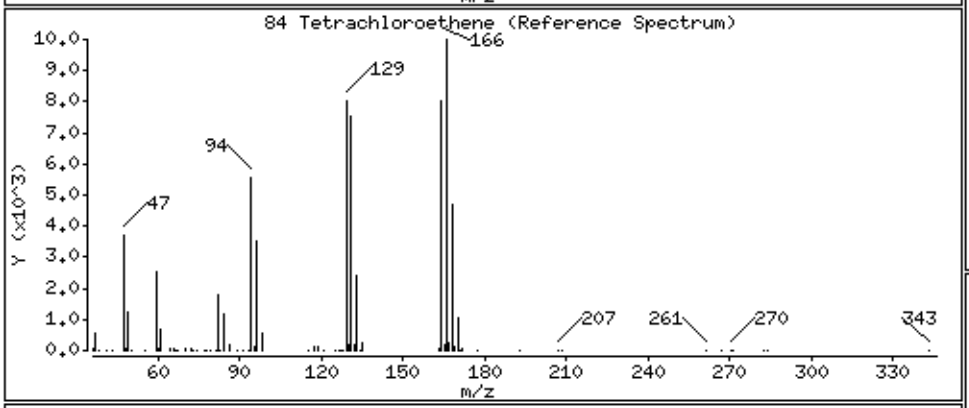
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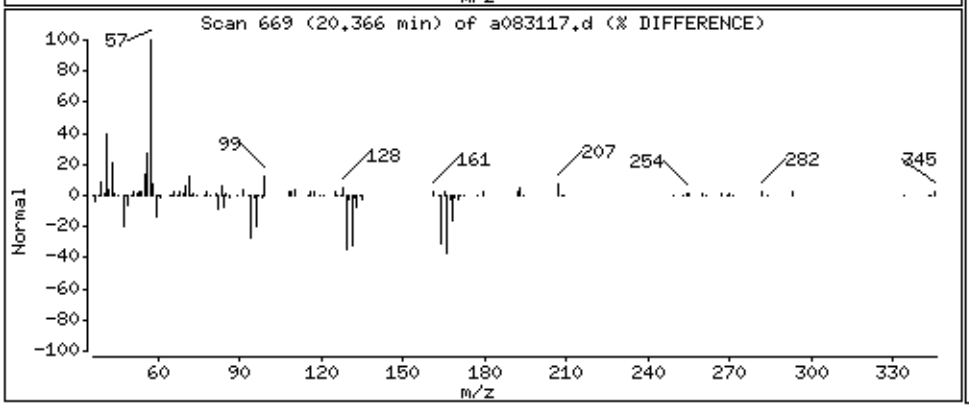
84 Tetrachloroethene

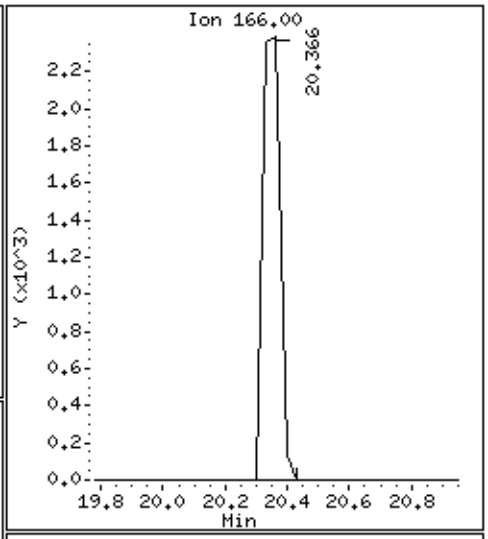
Concentration: 4.364 PPBV

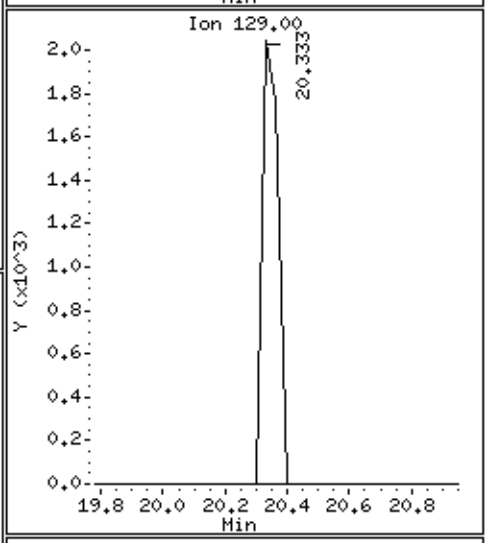


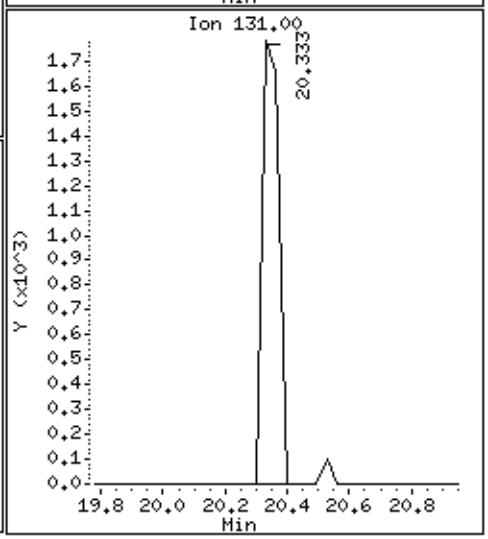



Data File: /chem/msda.i/31Aug2011.b/a083117.d

Date : 31-AUG-2011 20:38

Client ID:

Instrument: msda.i

Sample Info: 12.5mL #34008

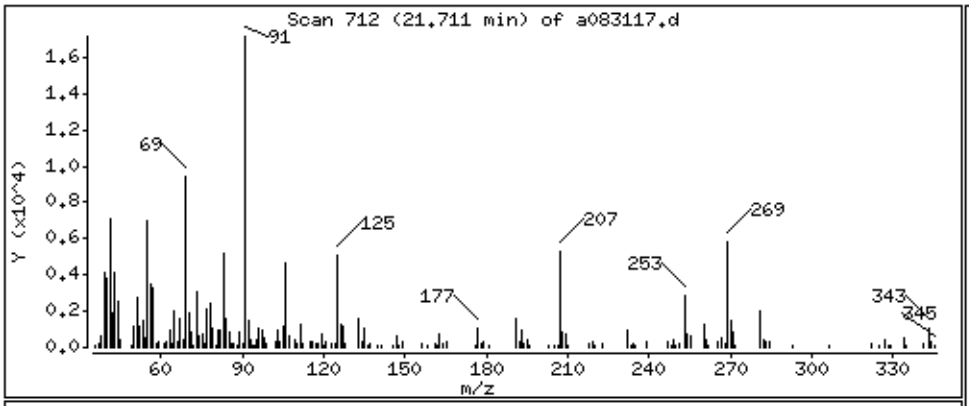
Operator: jc

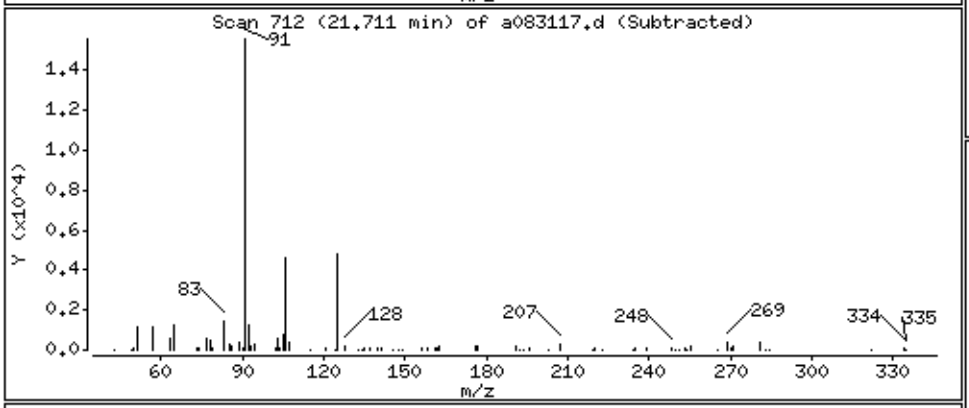
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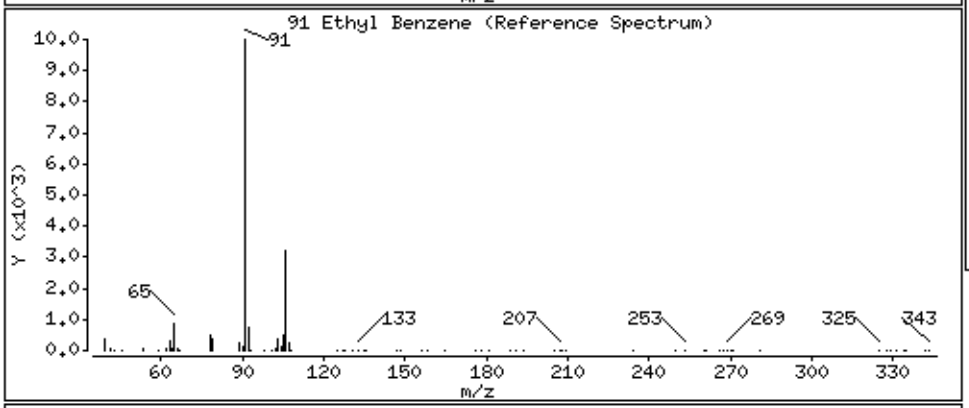
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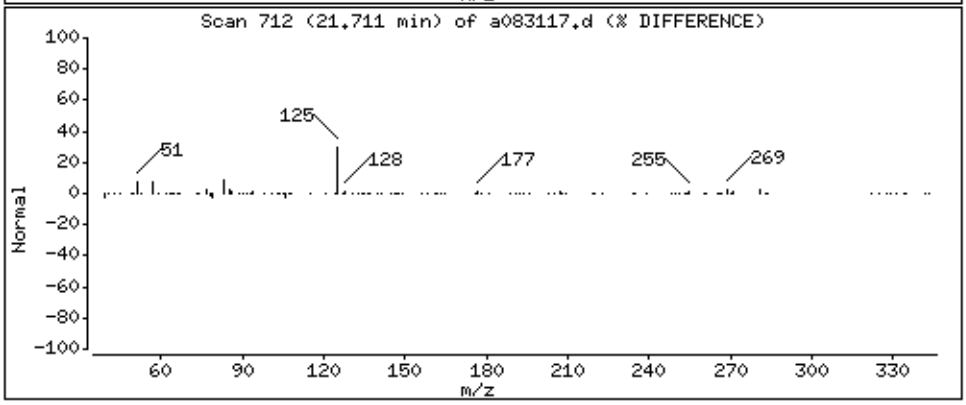
91 Ethyl Benzene

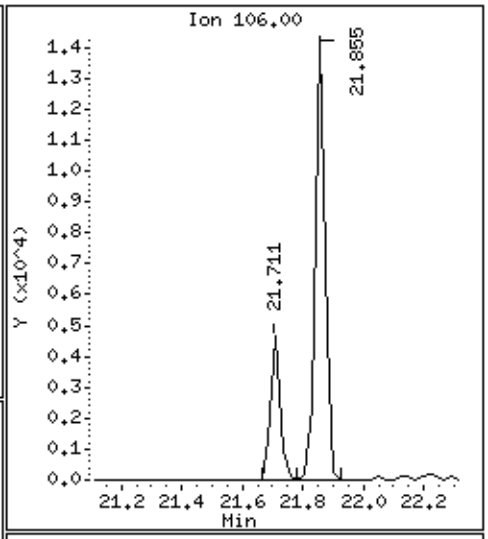
Concentration: 5.142 PPBV

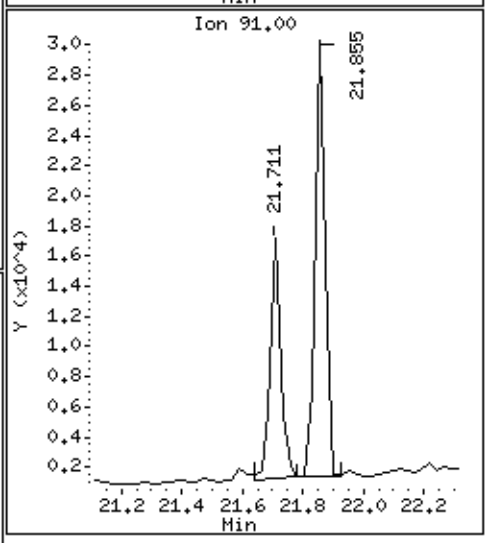


Data File: /chem/msda.i/31Aug2011.b/a083117.d

Date : 31-AUG-2011 20:38

Client ID:

Instrument: msda.i

Sample Info: 12.5mL #34008

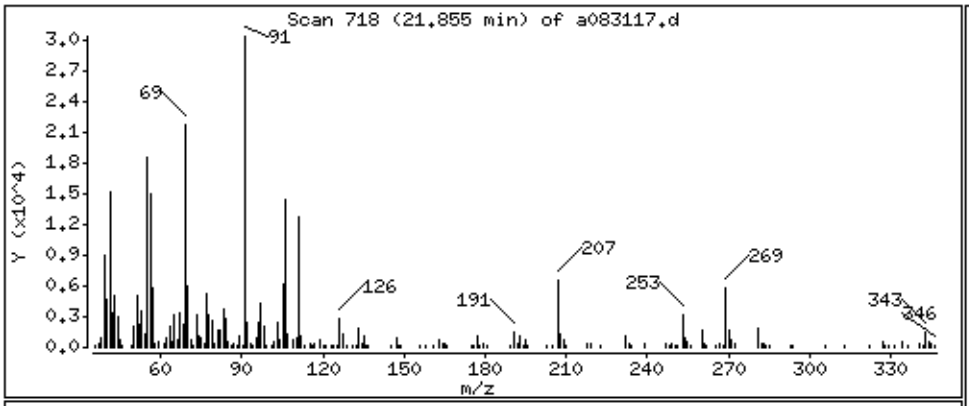
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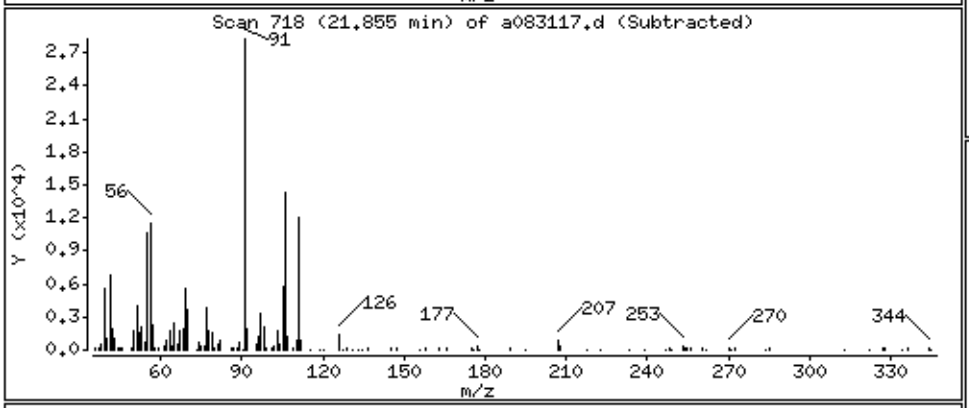
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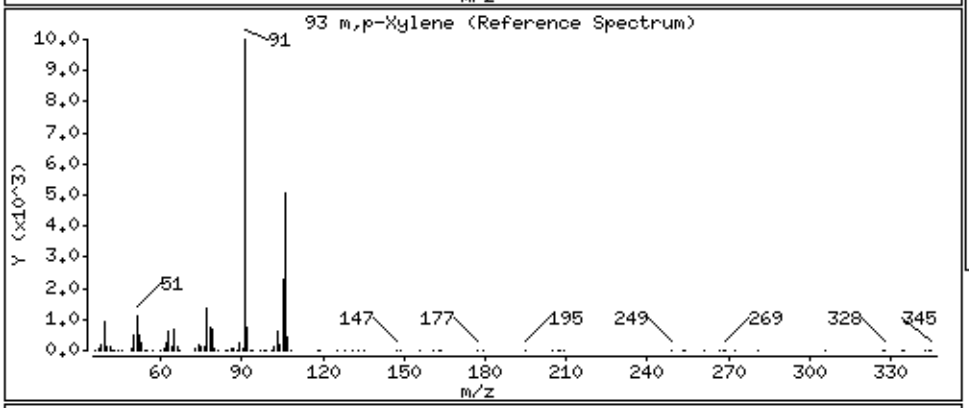
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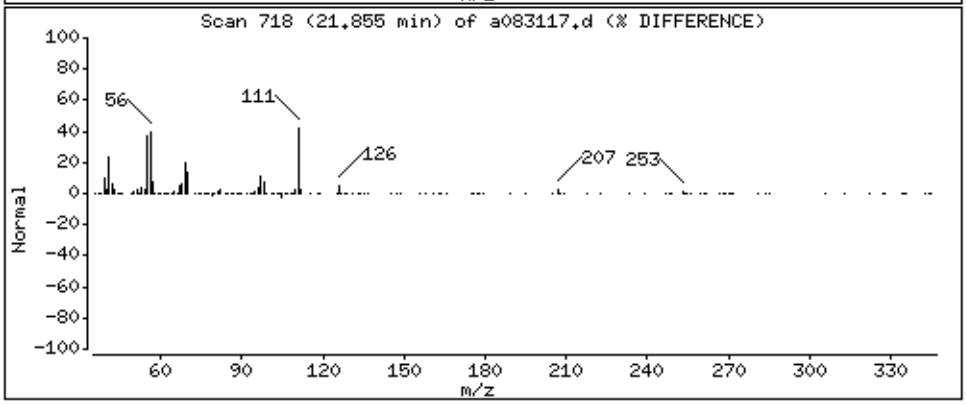
93 m,p-Xylene

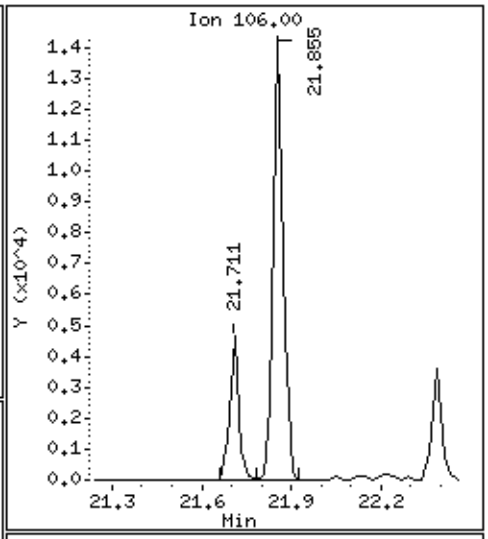
Concentration: 14.664 PPBV

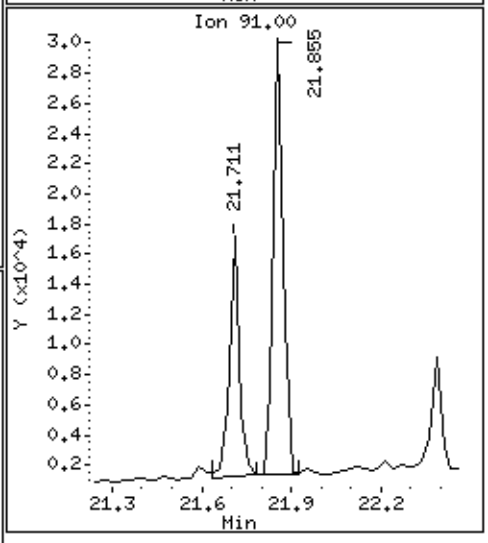


Data File: /chem/msda.i/31Aug2011.b/a083117.d

Date : 31-AUG-2011 20:38

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Instrument: msda.i

Sample Info: 12.5mL #34008

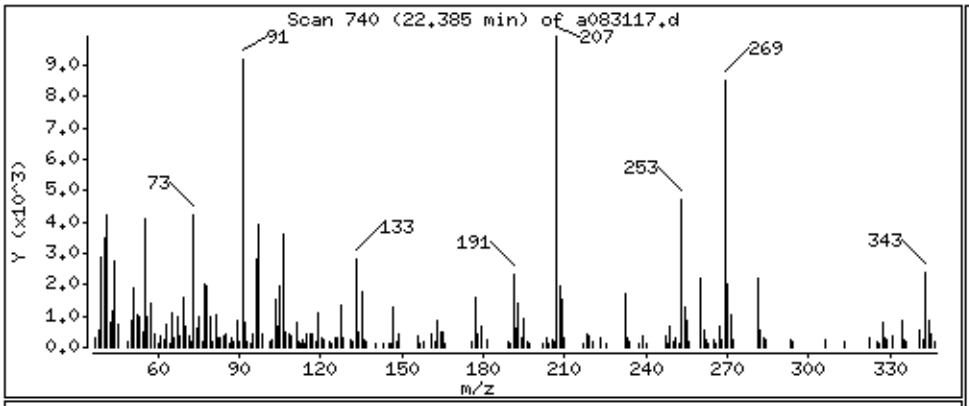
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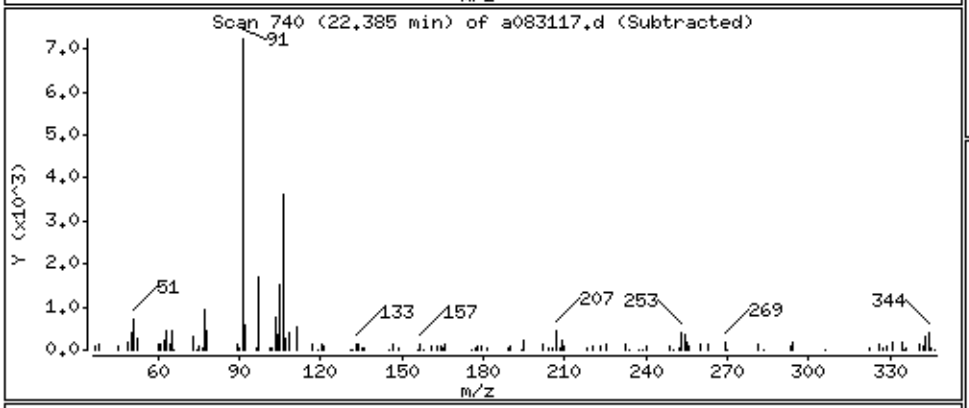
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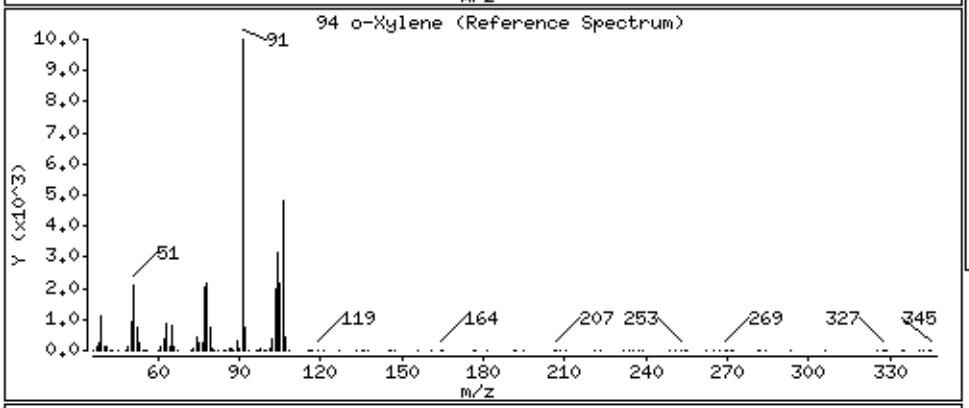
Column diameter: 0.32

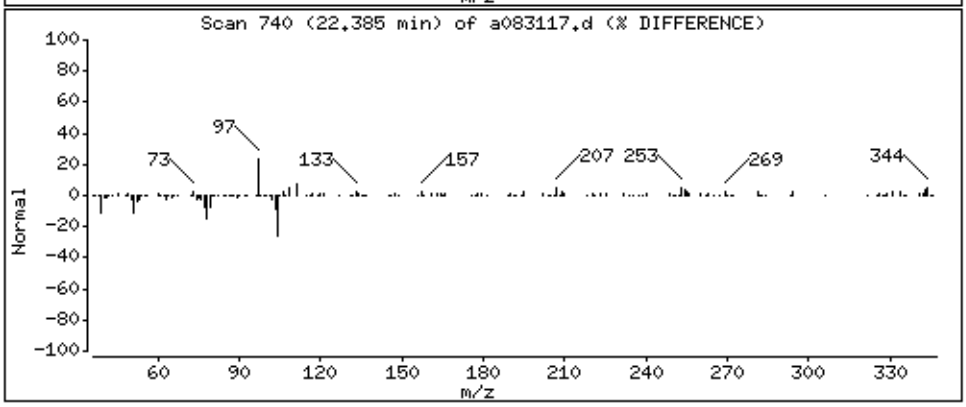
94 o-Xylene

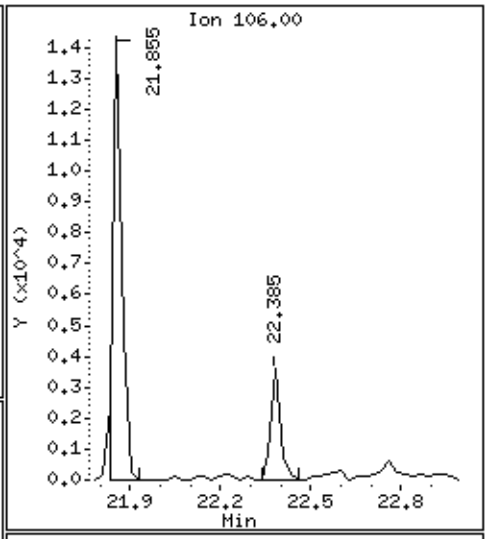
Concentration: 3.743 PPBV

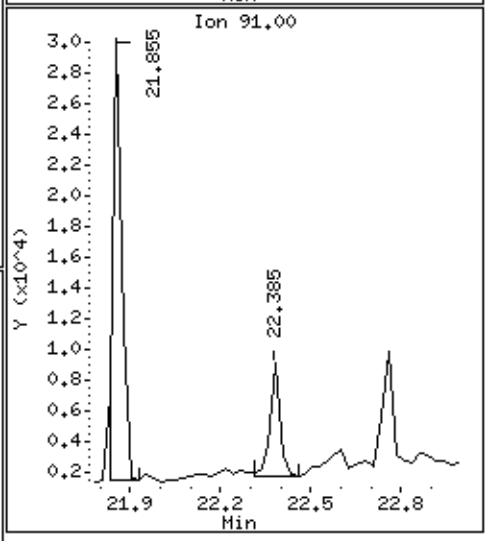


Data File: /chem/msda.i/31Aug2011.b/a083117.d

Date : 31-AUG-2011 20:38

Client ID:

Instrument: msda.i

Sample Info: 12.5mL #34008

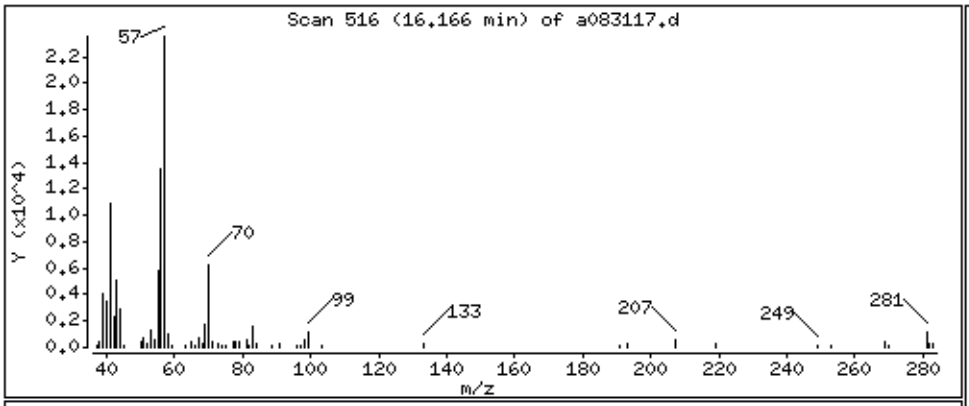
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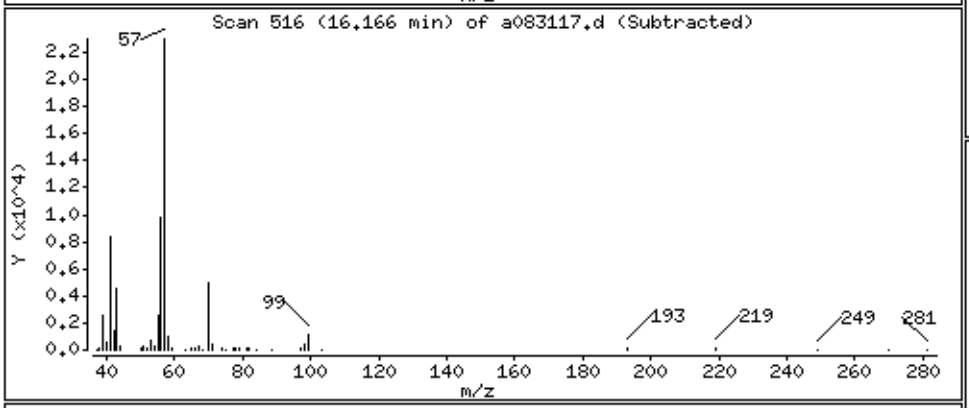
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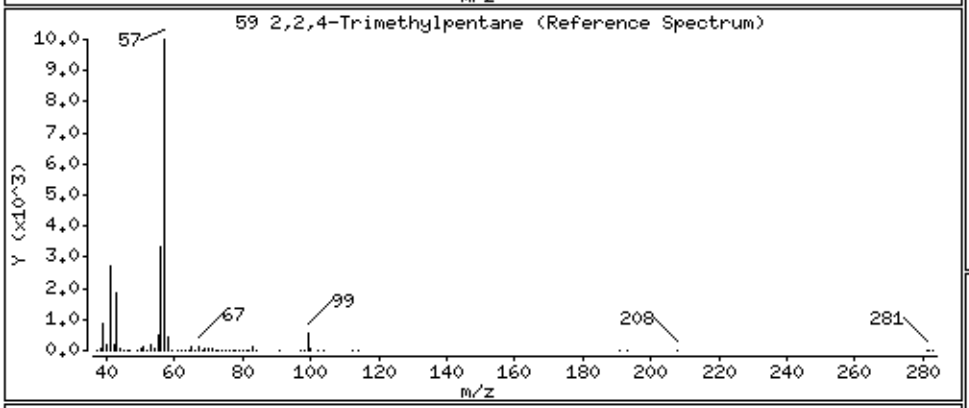
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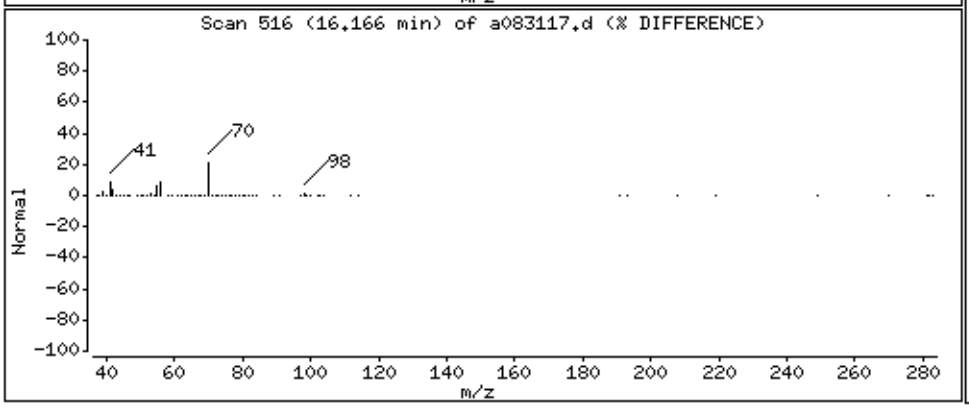
59 2,2,4-Trimethylpentane

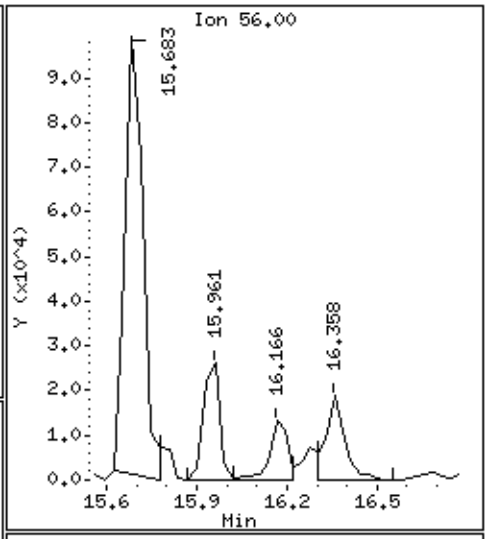
Concentration: 20.064 PPBV

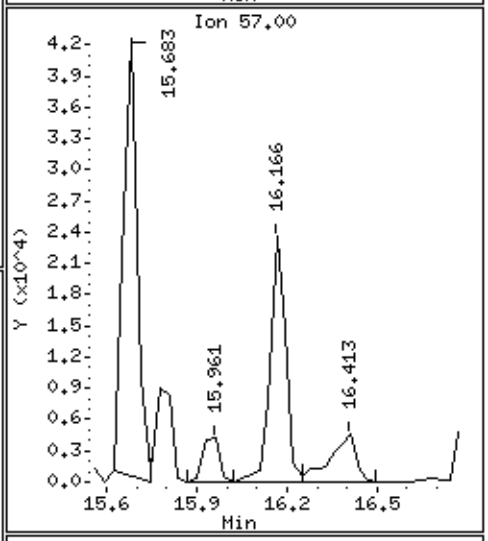


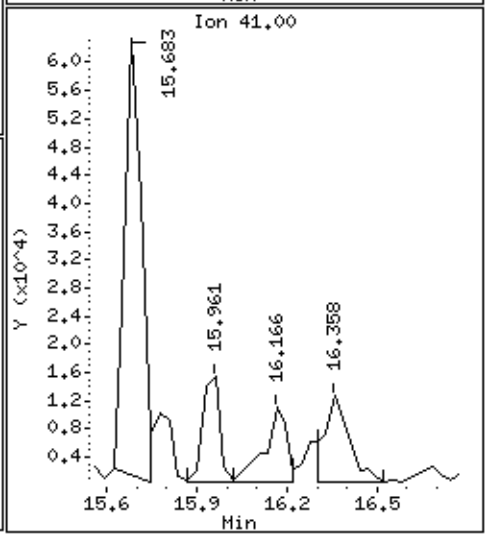



Data File: /chem/msda.i/31Aug2011.b/a083117.d

Date : 31-AUG-2011 20:38

Client ID:

Instrument: msda.i

Sample Info: 12.5mL #34008

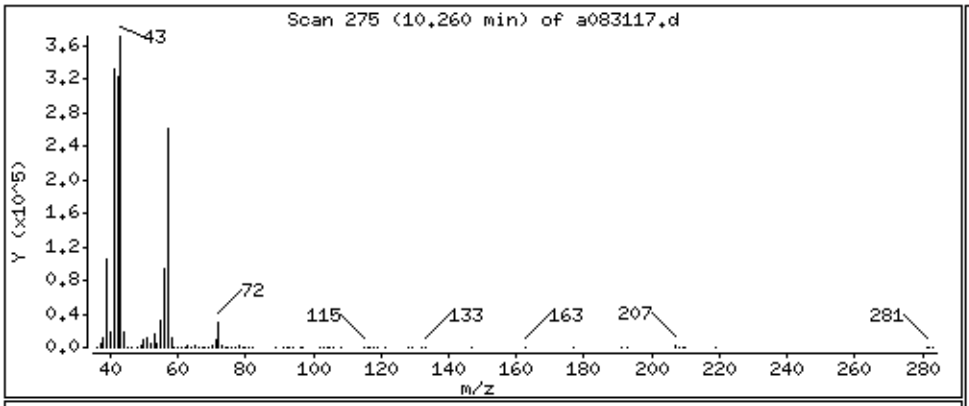
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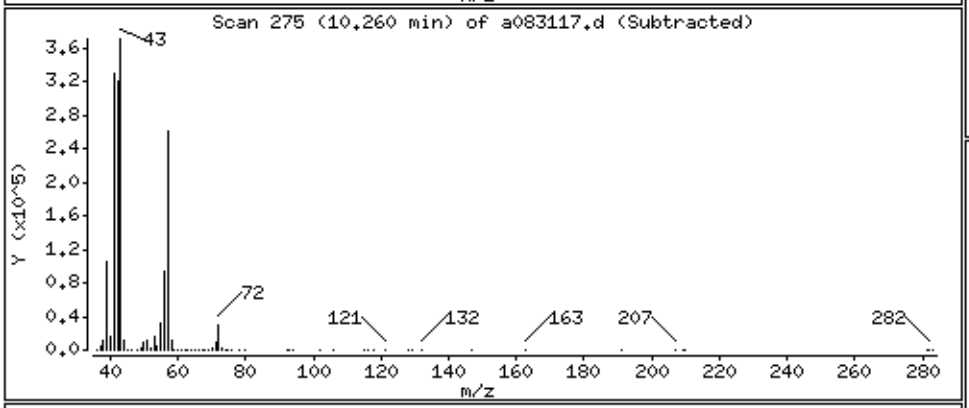
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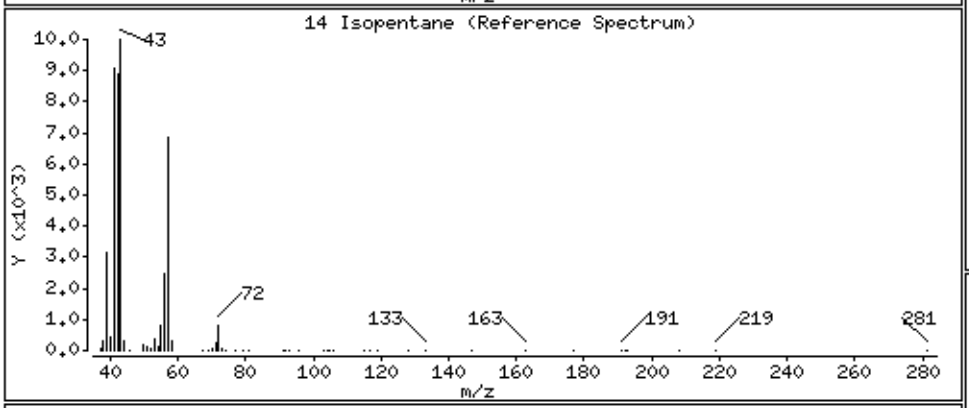
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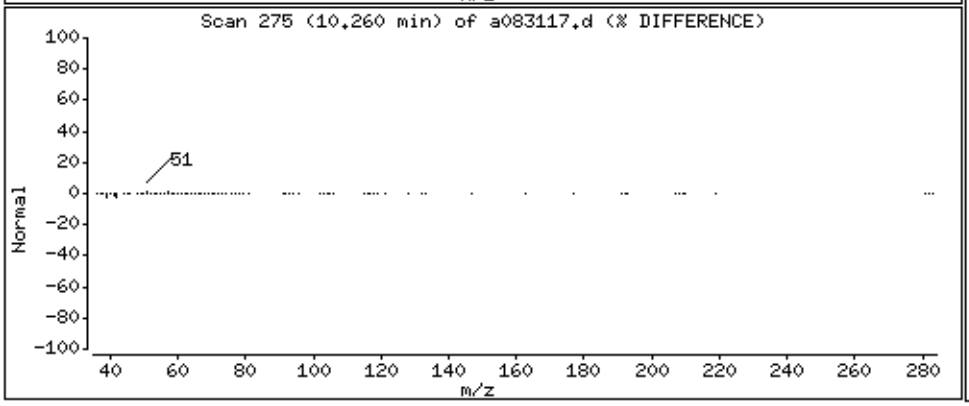
14 Isopentane

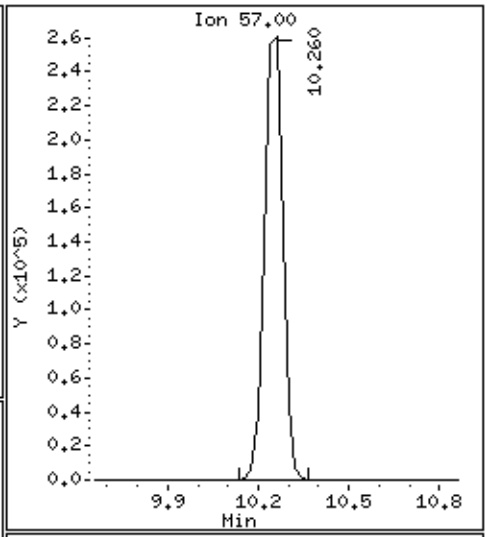
Concentration: 924.76 PPBV

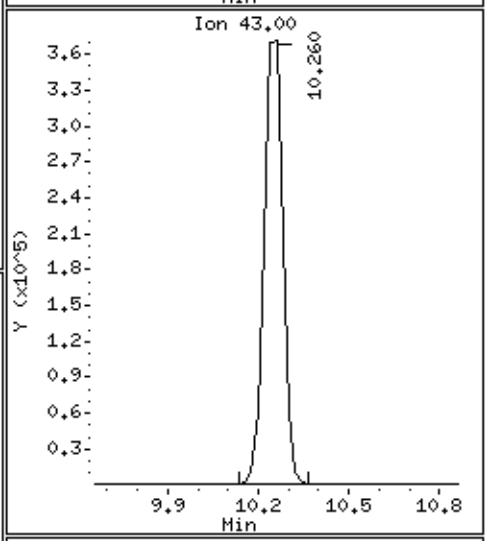


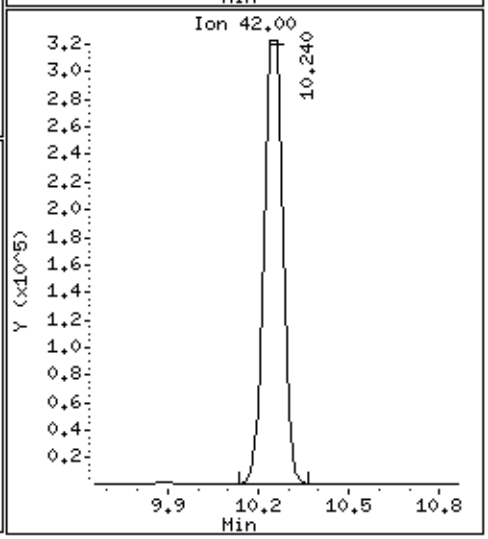



Data File: /chem/msda.i/31Aug2011.b/a083117.d

Date : 31-AUG-2011 20:38

Client ID:

Instrument: msda.i

Sample Info: 12.5mL #34008

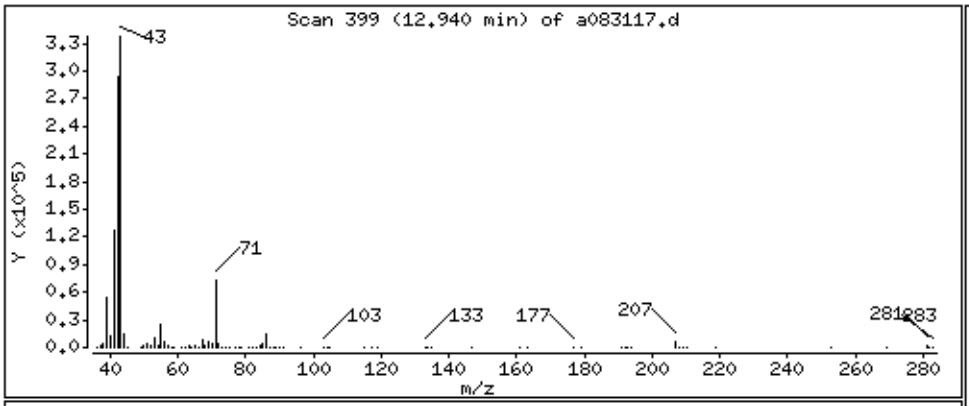
Operator: jc

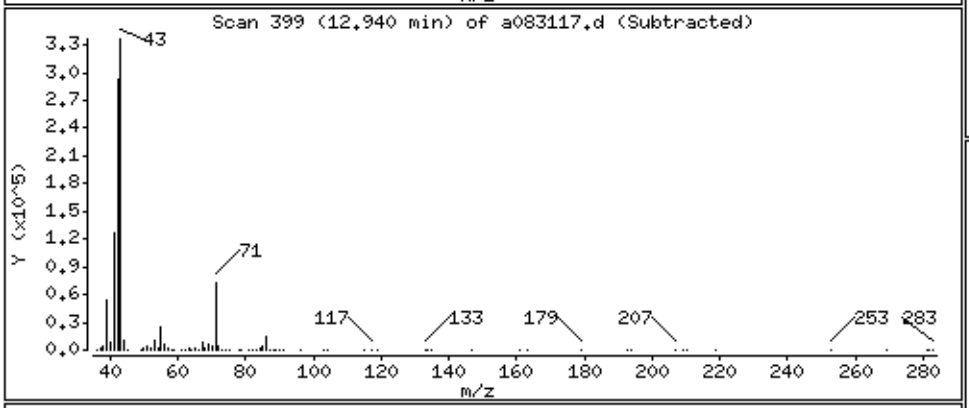
Column phase: RTx-624

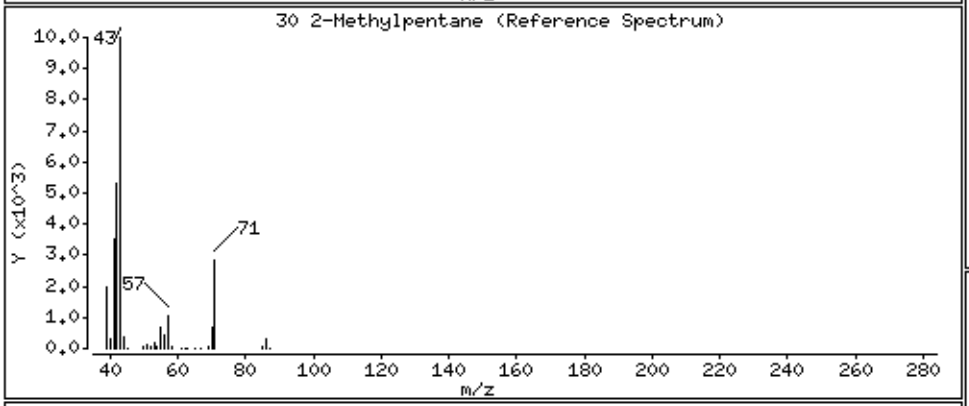
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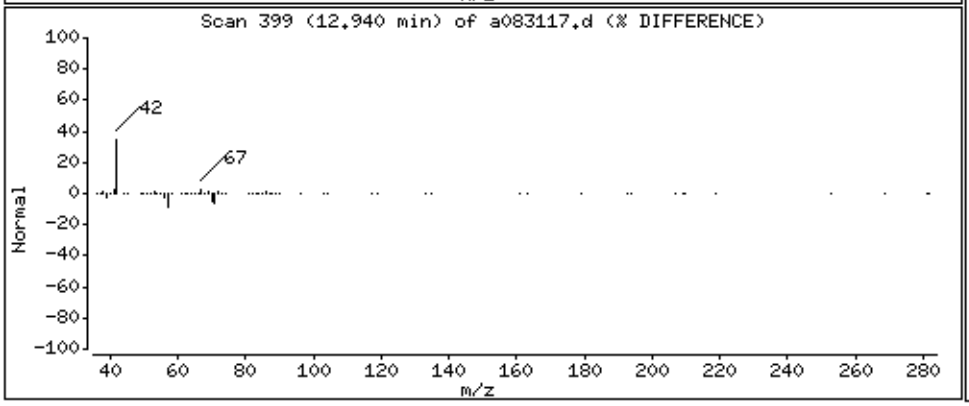
30 2-Methylpentane

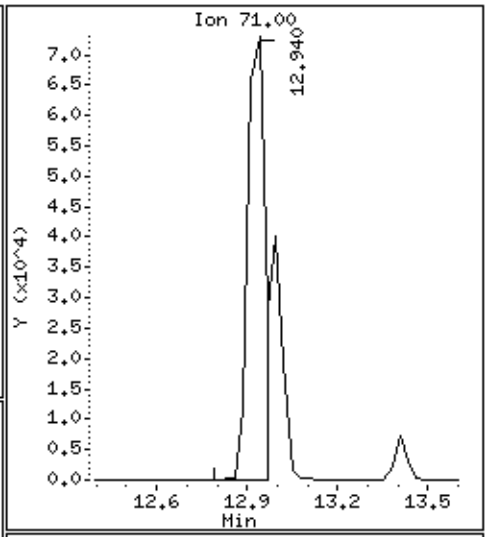
Concentration: 380.69 PPBV

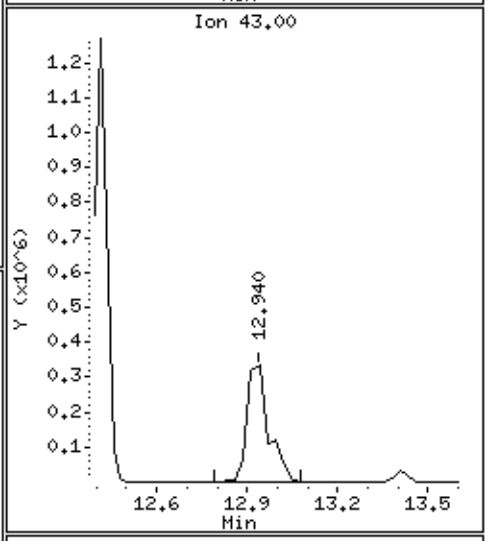


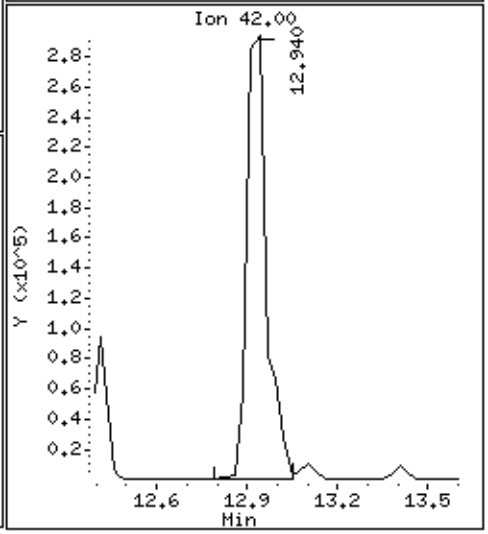



Data File: /chem/msda.i/31Aug2011.b/a083117.d

Date : 31-AUG-2011 20:38

Client ID:

Instrument: msda.i

Sample Info: 12.5mL #34008

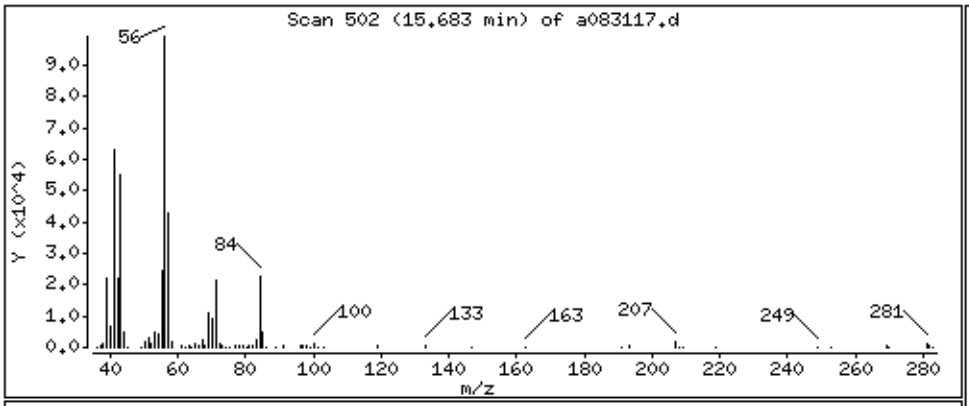
Operator: jc

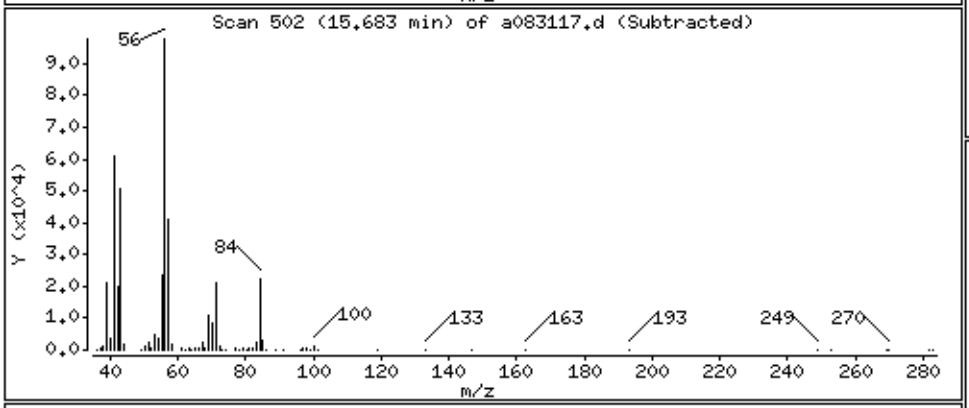
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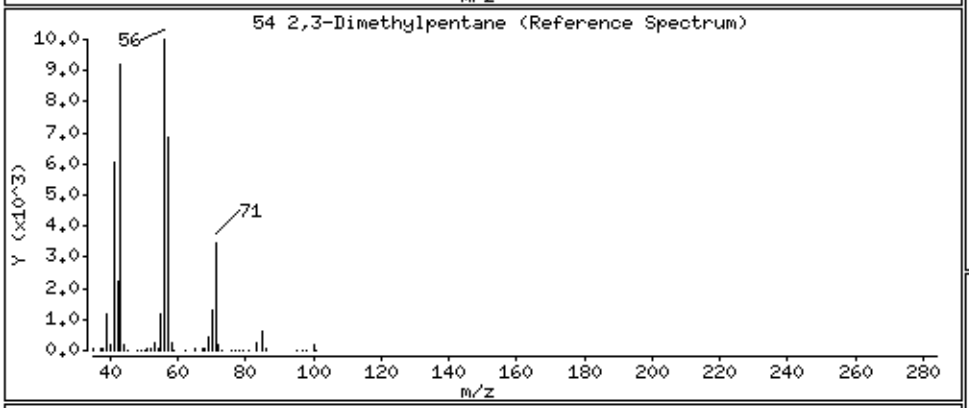
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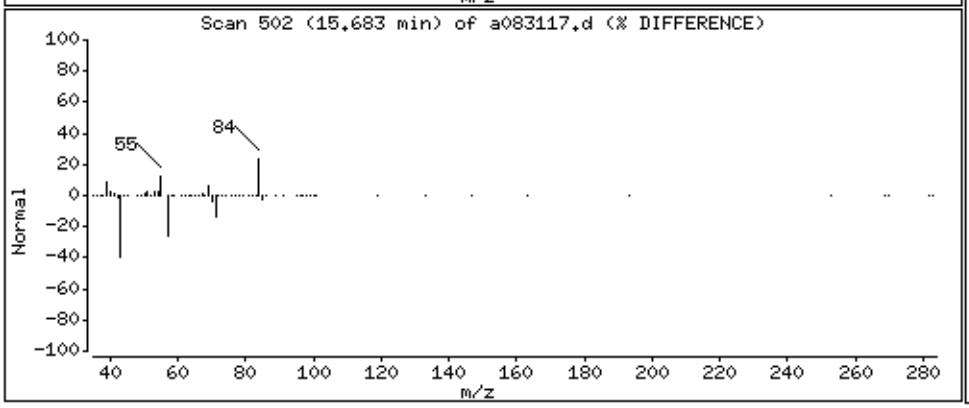
54 2,3-Dimethylpentane

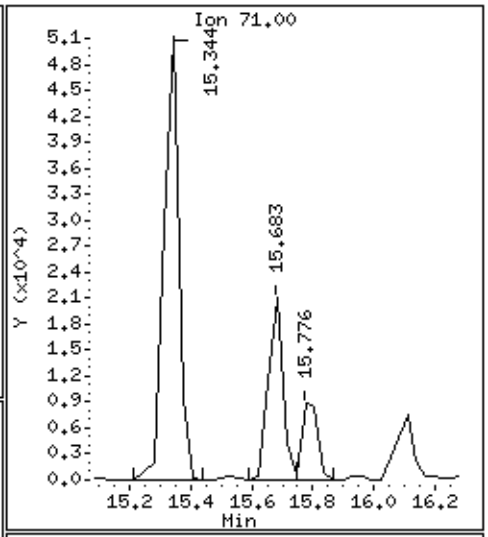
Concentration: 77.958 PPBV

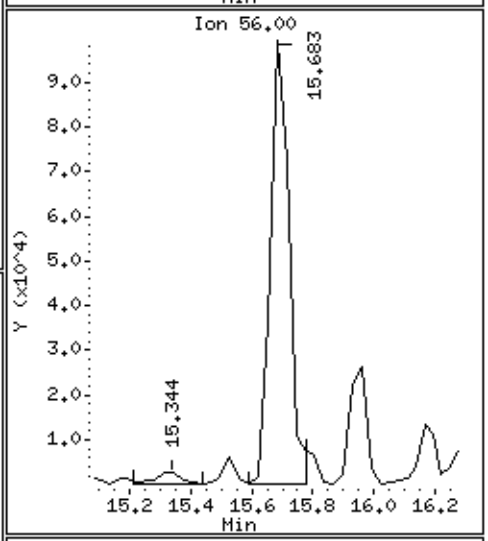


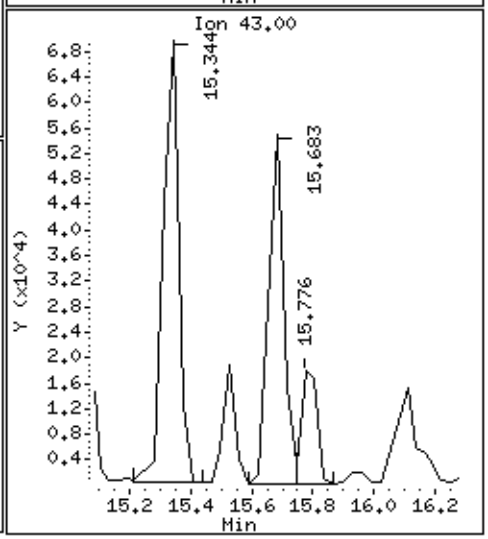



Data File: /chem/msda.i/31Aug2011.b/a083117.d

Date : 31-AUG-2011 20:38

Client ID:

Instrument: msda.i

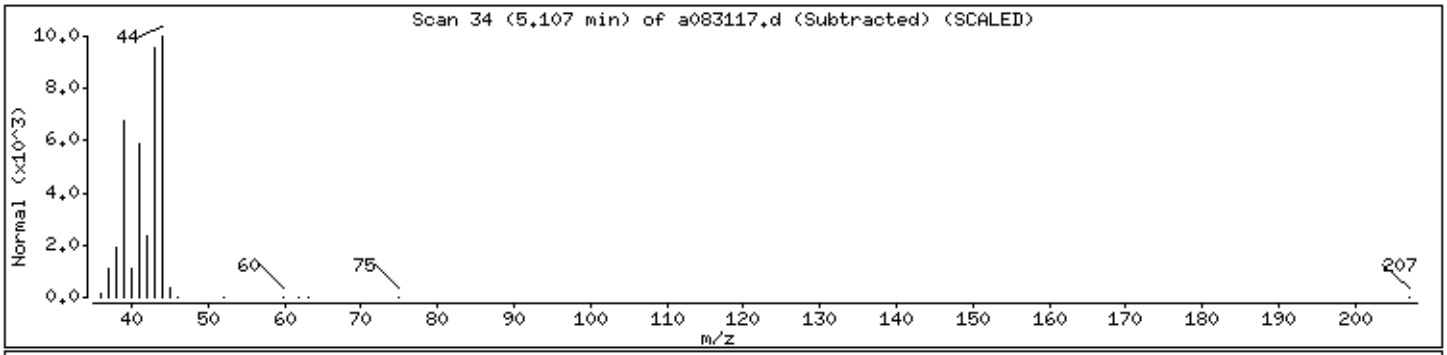
Sample Info: 12.5mL #34008

Operator: jc

Column phase: RTx-624

Column diameter: 0.32

| Library Search Compound Match | CAS Number | Library | Entry | Quality | Formula | Weight |
|---|---|---|---|---|---|---|
| Unknown | | | 0 | 0 | | 0 |



Data File: /chem/msda.i/31Aug2011.b/a083117.d

Date : 31-AUG-2011 20:38

Client ID:

Instrument: msda.i

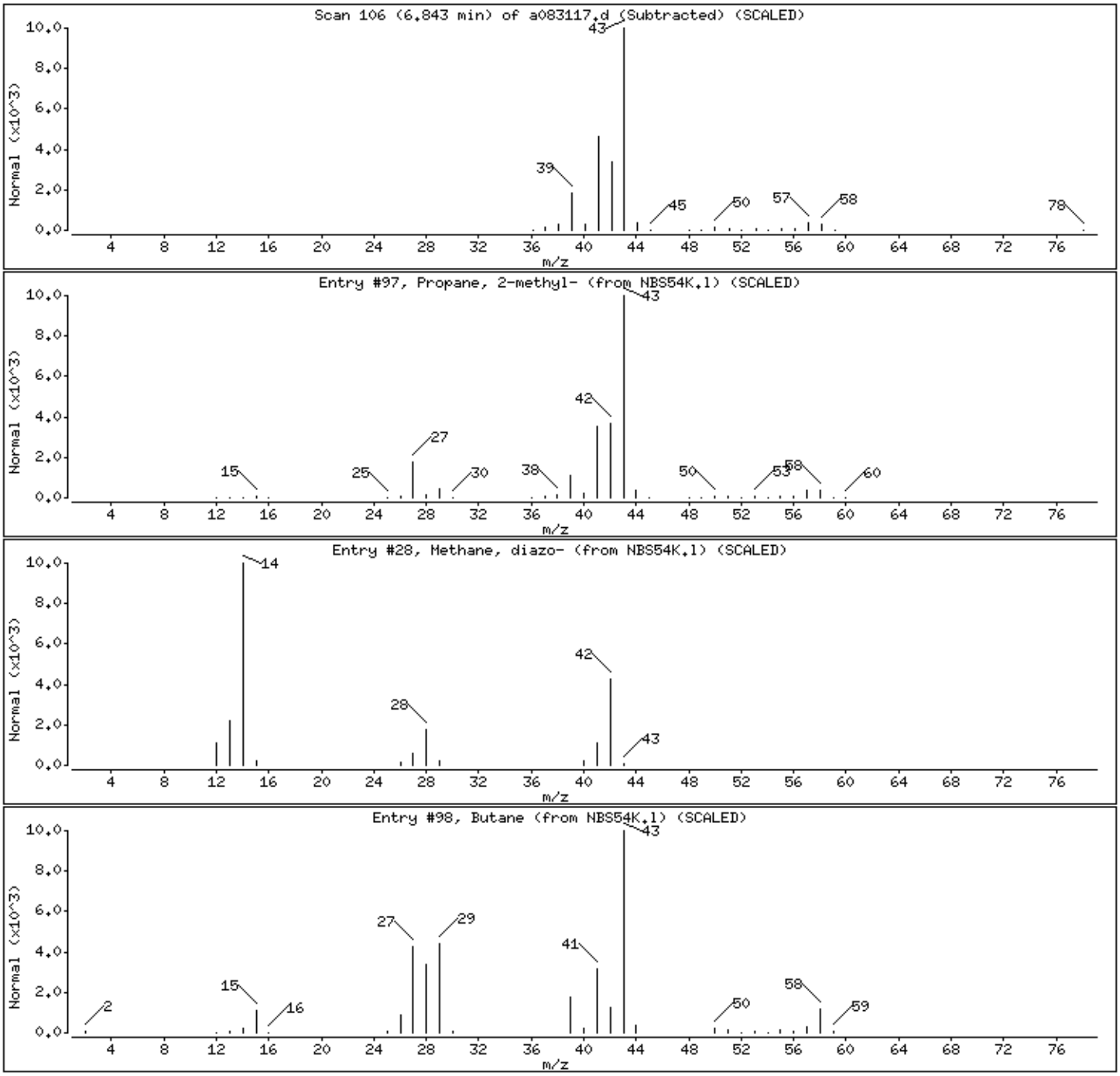
Sample Info: 12.5mL #34008

Operator: jc

Column phase: RTx-624

Column diameter: 0.32

| Library Search Compound Match | CAS Number | Library | Entry | Quality | Formula | Weight |
|---|---|---|---|---|---|---|
| Propane, 2-methyl- | 75-28-5 | NBS54K.1 | 97 | 59 | C4H10 | 58 |
| Methane, diazo- | 334-88-3 | NBS54K.1 | 28 | 3 | CH2N2 | 42 |
| Butane | 106-97-8 | NBS54K.1 | 98 | 2 | C4H10 | 58 |



Data File: /chem/msda.i/31Aug2011.b/a083117.d

Date : 31-AUG-2011 20:38

Client ID:

Instrument: msda.i

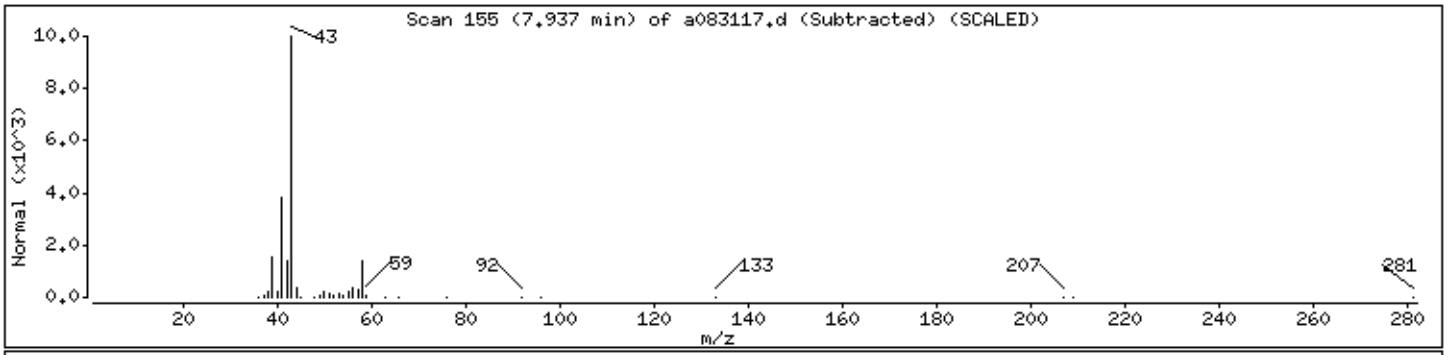
Sample Info: 12.5mL #34008

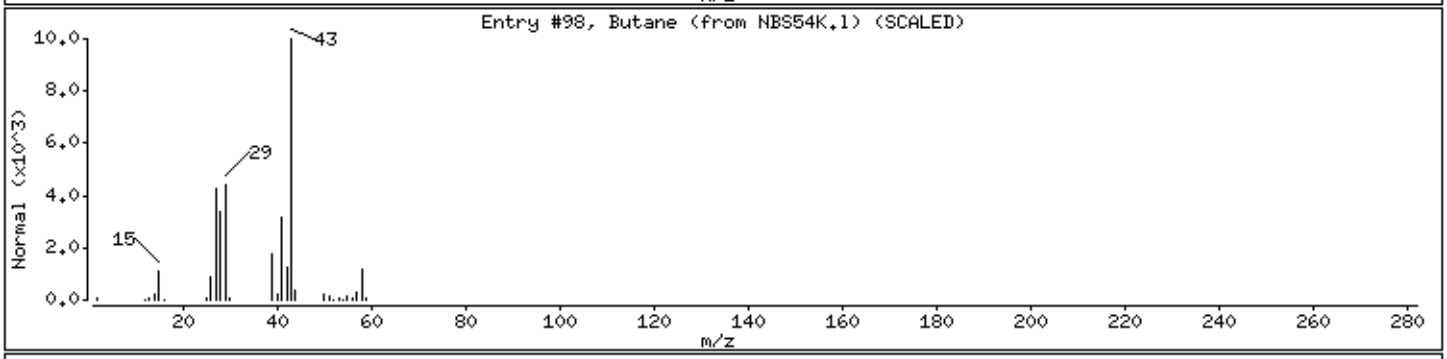
Operator: jc

Column phase: RTx-624

Column diameter: 0.32

| Library Search Compound Match | CAS Number | Library | Entry | Quality | Formula | Weight |
|---|---|---|---|---|---|---|
| Butane | 106-97-8 | NBS54K.l | 98 | 72 | C4H10 | 58 |



Data File: /chem/msda.i/31Aug2011.b/a083117.d

Date : 31-AUG-2011 20:38

Client ID:

Instrument: msda.i

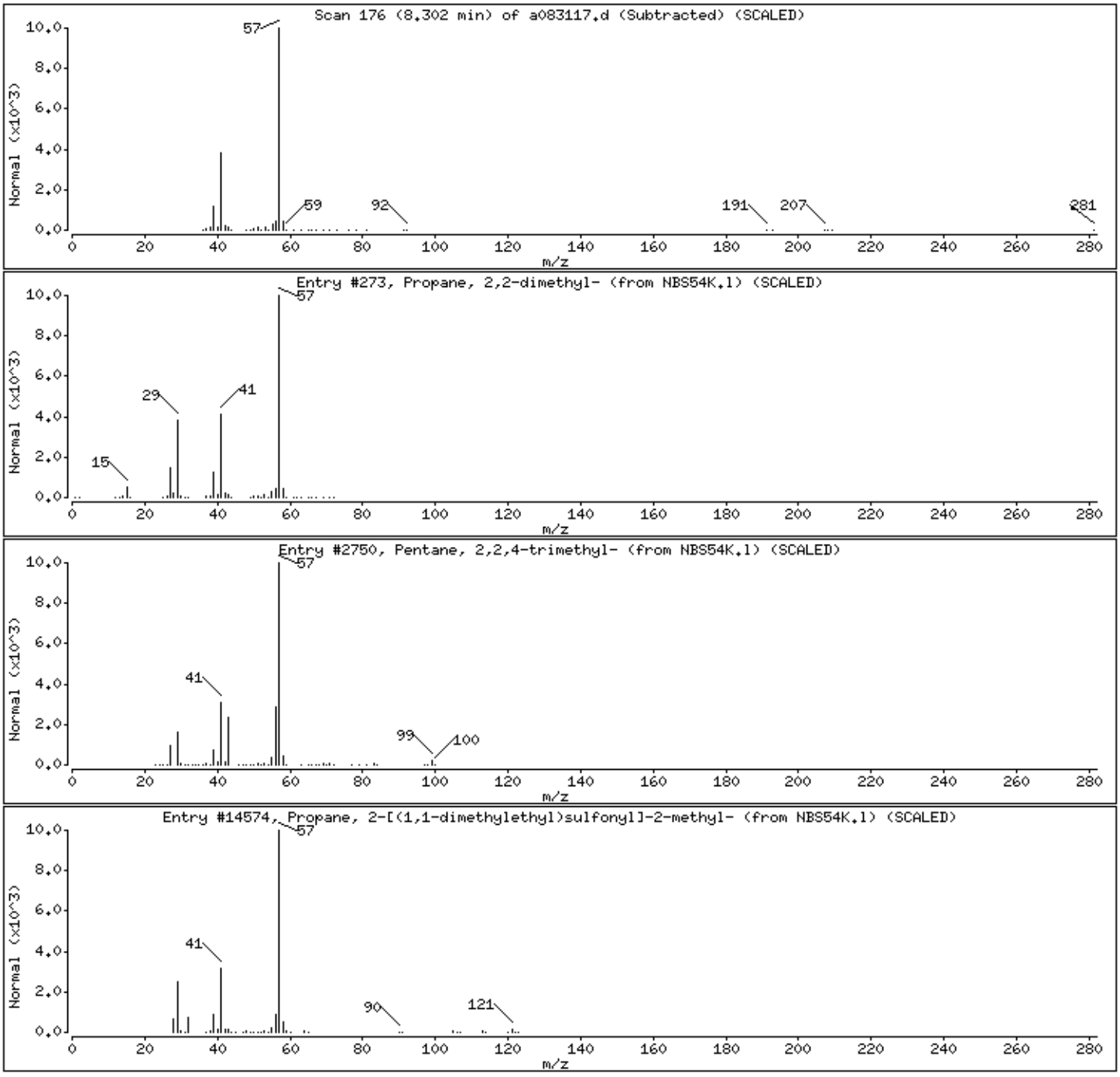
Sample Info: 12.5mL #34008

Operator: jc

Column phase: RTx-624

Column diameter: 0.32

| Library Search Compound Match | CAS Number | Library | Entry | Quality | Formula | Weight |
|---|---|---|---|---|---|---|
| Propane, 2,2-dimethyl- | 463-82-1 | NBS54K.l | 273 | 72 | C5H12 | 72 |
| Pentane, 2,2,4-trimethyl- | 540-84-1 | NBS54K.l | 2750 | 38 | C8H18 | 114 |
| Propane, 2-[(1,1-dimethylethyl)sulfonyl] | 1886-75-5 | NBS54K.l | 14574 | 36 | C8H18O2S | 178 |



Data File: /chem/msda.i/31Aug2011.b/a083117.d

Date : 31-AUG-2011 20:38

Client ID:

Instrument: msda.i

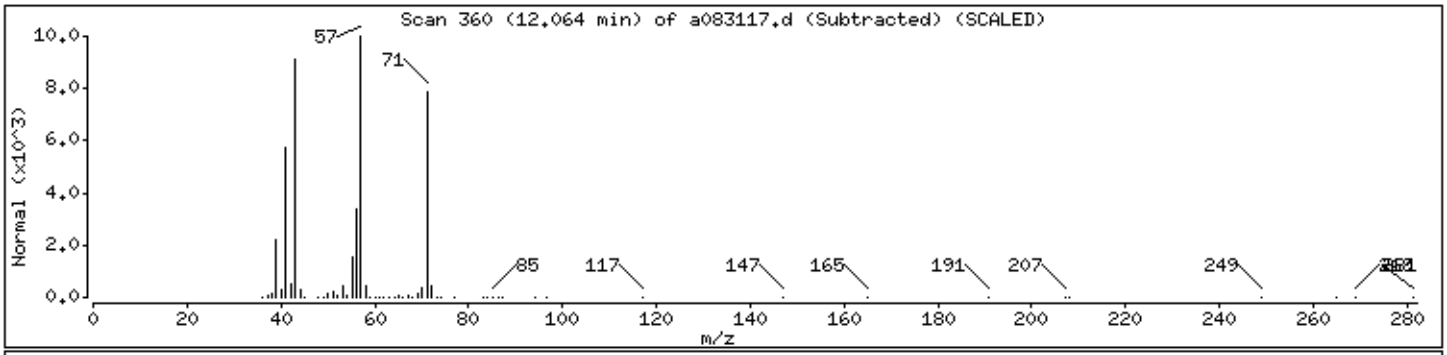
Sample Info: 12.5mL #34008

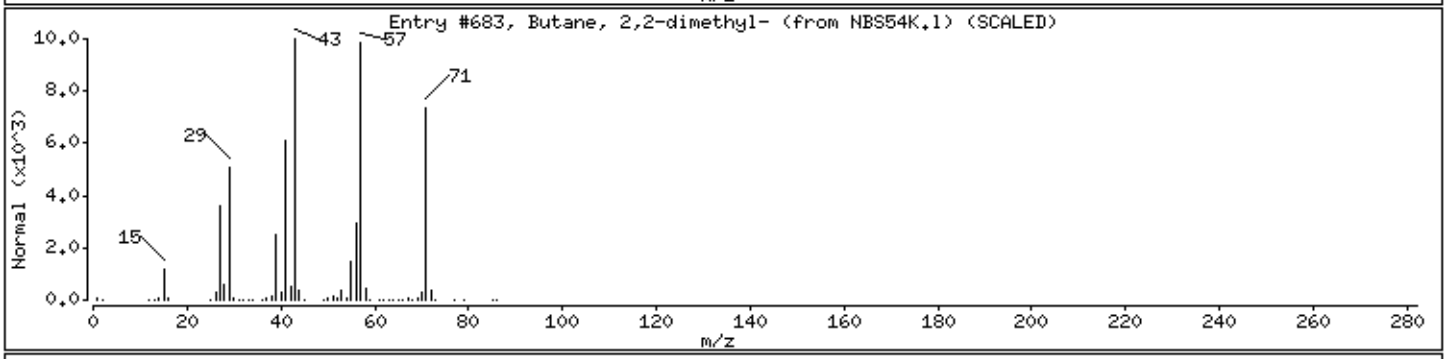
Operator: jc

Column phase: RTx-624

Column diameter: 0.32

| Library Search Compound Match | CAS Number | Library | Entry | Quality | Formula | Weight |
|---|---|---|---|---|---|---|
| Butane, 2,2-dimethyl- | 75-83-2 | NBS54K.l | 683 | 83 | C6H14 | 86 |



Data File: /chem/msda.i/31Aug2011.b/a083117.d

Date : 31-AUG-2011 20:38

Client ID:

Instrument: msda.i

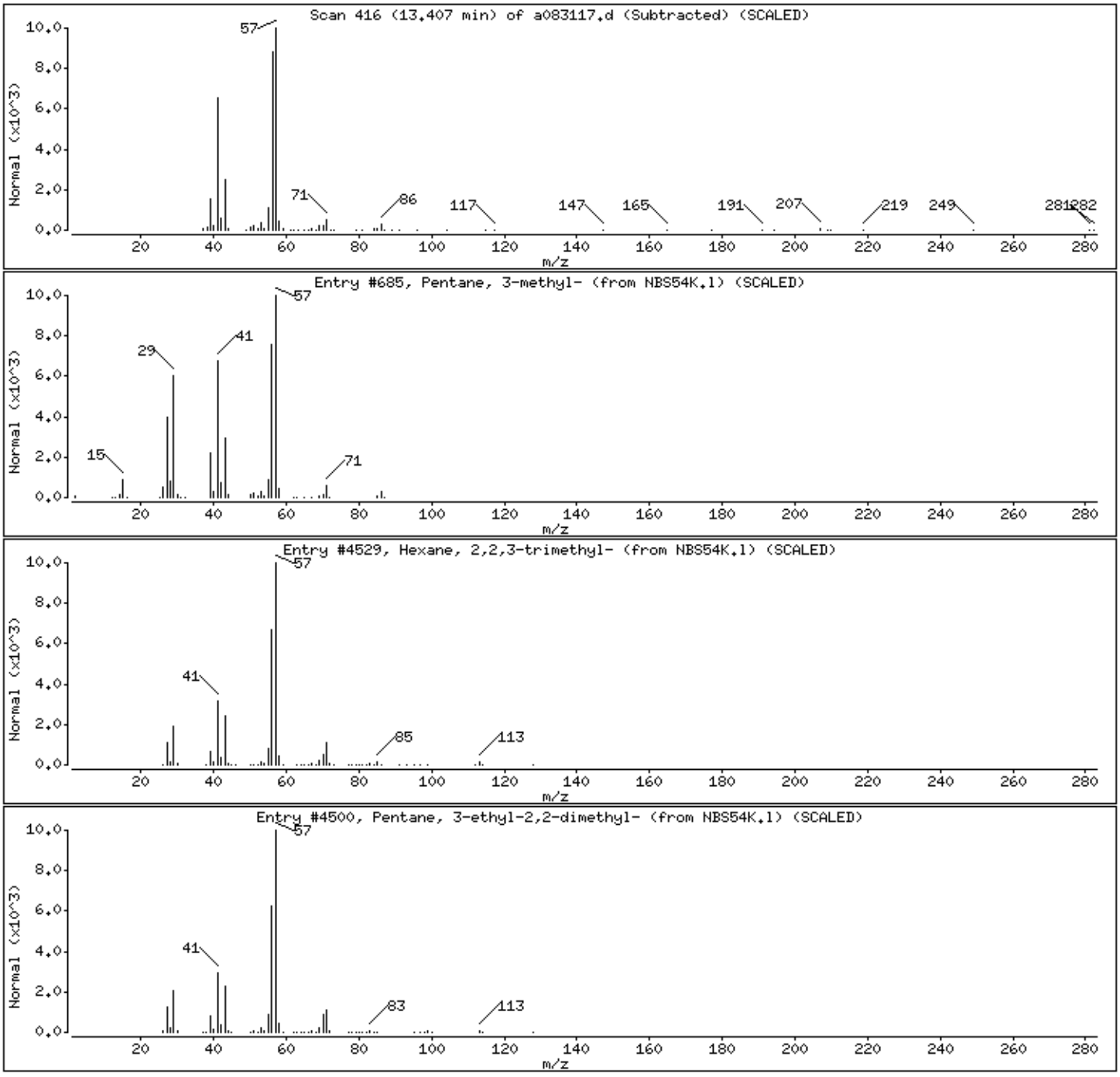
Sample Info: 12.5mL #34008

Operator: jc

Column phase: RTx-624

Column diameter: 0.32

| Library Search Compound Match | CAS Number | Library | Entry | Quality | Formula | Weight |
|---|---|---|---|---|---|---|
| Pentane, 3-methyl- | 96-14-0 | NBS54K.l | 685 | 90 | C6H14 | 86 |
| Hexane, 2,2,3-trimethyl- | 16747-25-4 | NBS54K.l | 4529 | 74 | C9H20 | 128 |
| Pentane, 3-ethyl-2,2-dimethyl- | 16747-32-3 | NBS54K.l | 4500 | 72 | C9H20 | 128 |



Data File: /chem/msda.i/31Aug2011.b/a083117.d

Date : 31-AUG-2011 20:38

Client ID:

Instrument: msda.i

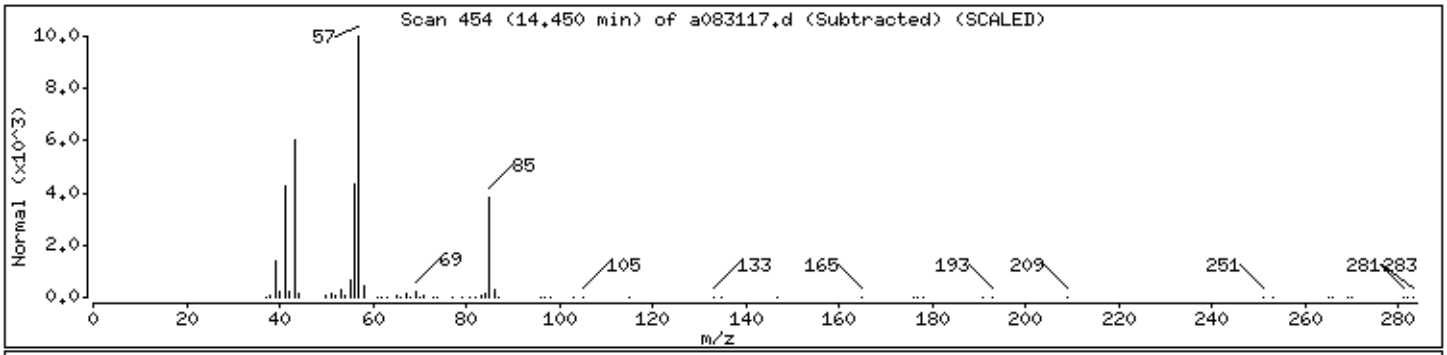
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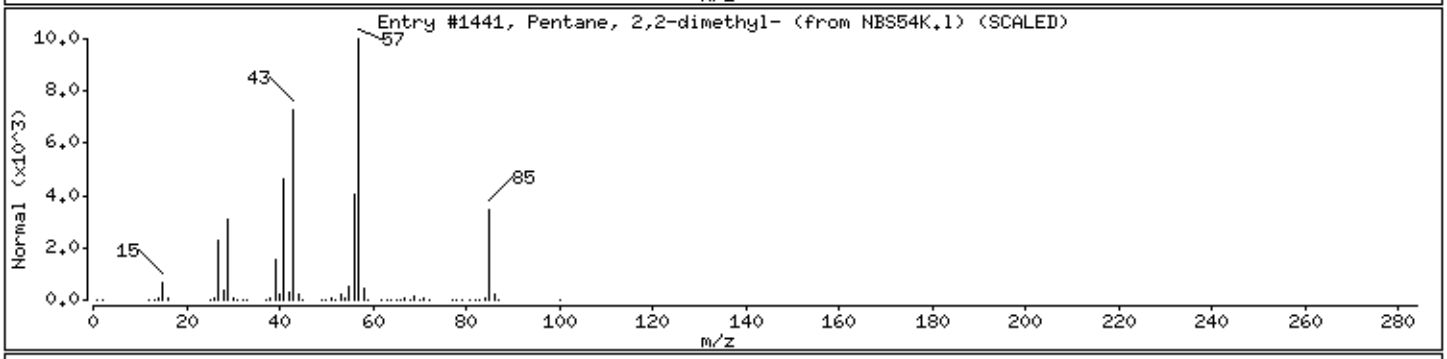
Operator: jc

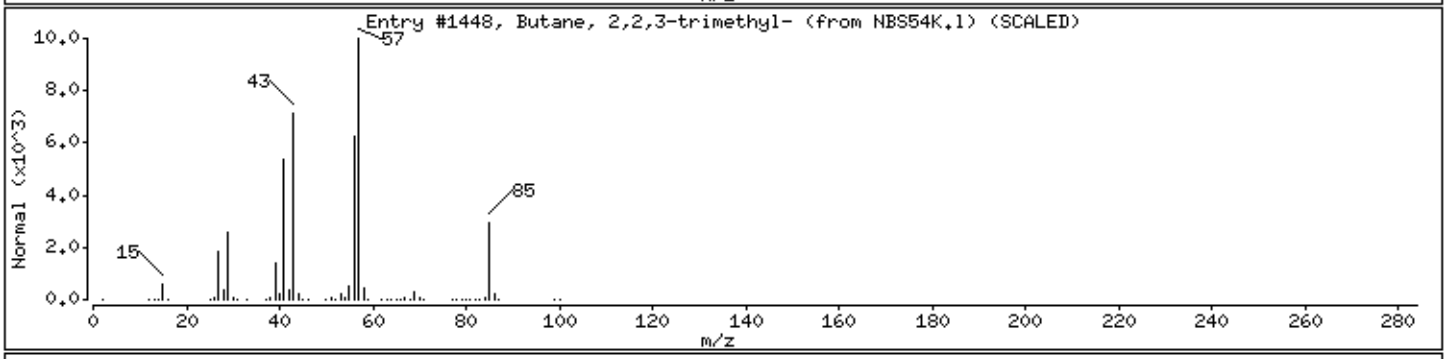
Column phase: RTx-624

Column diameter: 0.32

| Library Search Compound Match | CAS Number | Library | Entry | Quality | Formula | Weight |
|---|---|---|---|---|---|---|
| Pentane, 2,2-dimethyl- | 590-35-2 | NBS54K.l | 1441 | 83 | C7H16 | 100 |
| Butane, 2,2,3-trimethyl- | 464-06-2 | NBS54K.l | 1448 | 64 | C7H16 | 100 |



Data File: /chem/msda.i/31Aug2011.b/a083117.d

Date : 31-AUG-2011 20:38

Client ID:

Instrument: msda.i

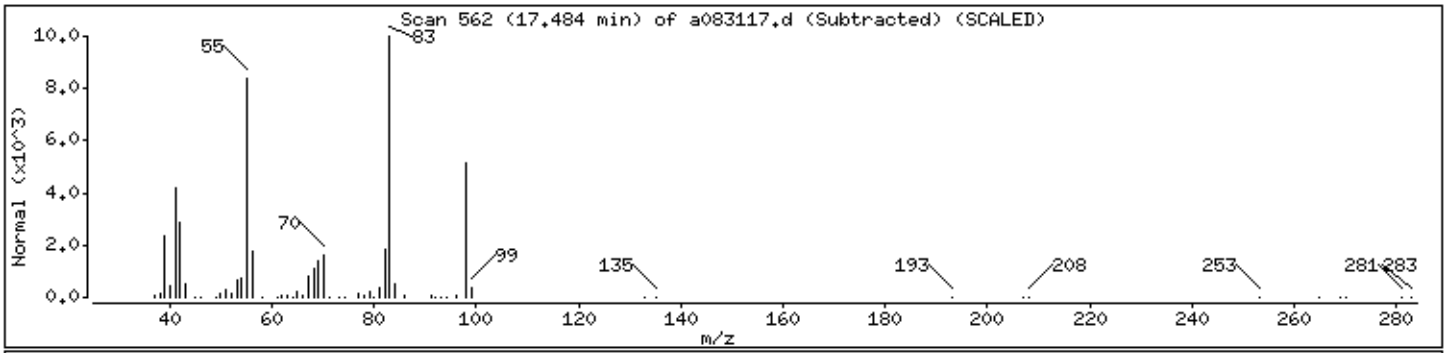
Sample Info: 12.5mL #34008

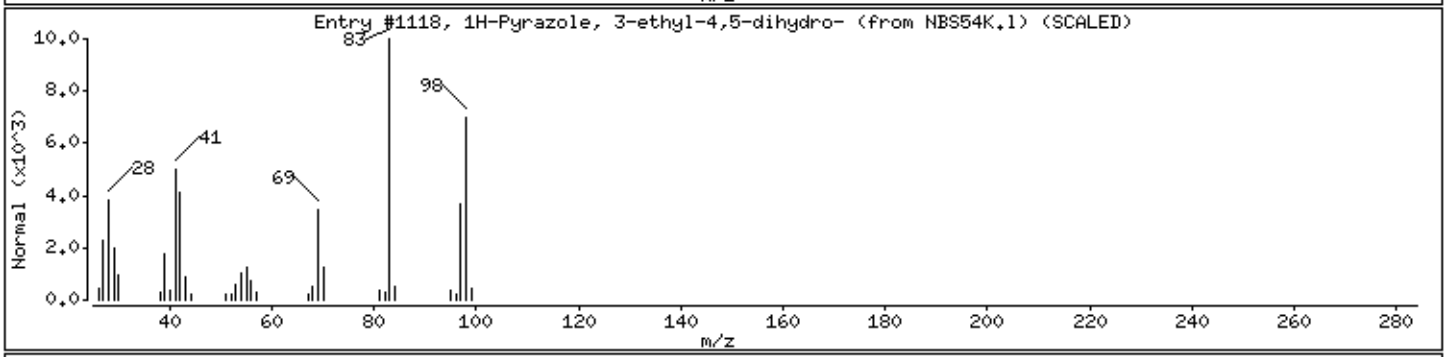
Operator: jc

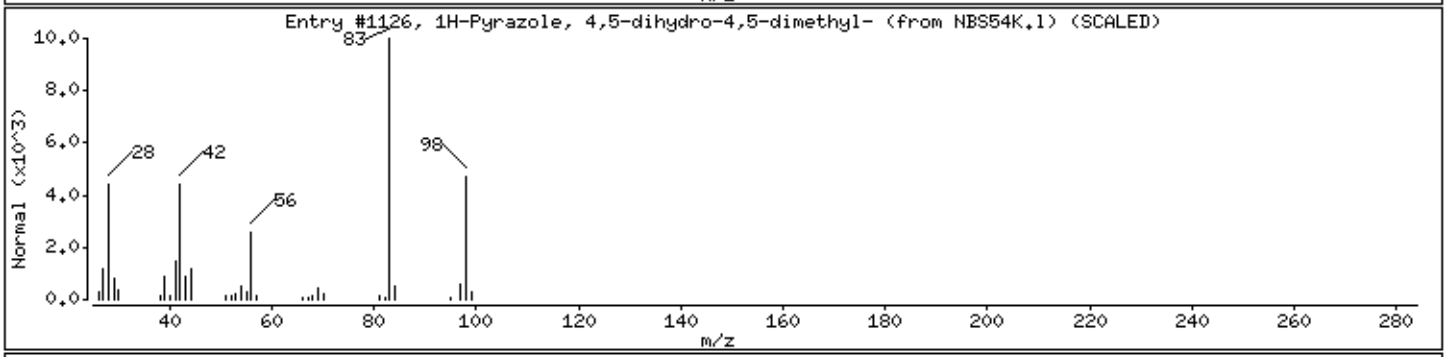
Column phase: RTx-624

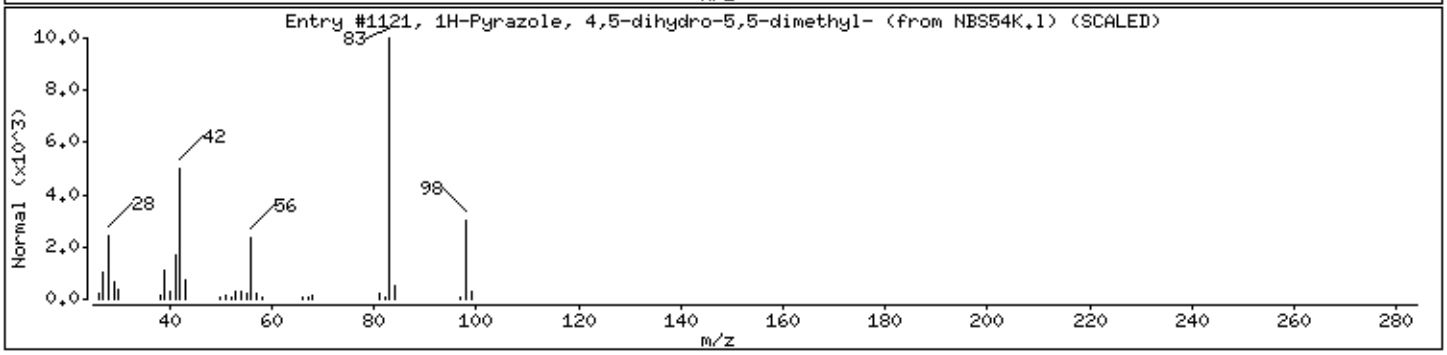
Column diameter: 0.32

| Library Search Compound Match | CAS Number | Library | Entry | Quality | Formula | Weight |
|---|---|---|---|---|---|---|
| 1H-Pyrazole, 3-ethyl-4,5-dihydro- | 5920-29-6 | NBS54K.l | 1118 | 64 | C5H10N2 | 98 |
| 1H-Pyrazole, 4,5-dihydro-4,5-dimethyl- | 28019-94-5 | NBS54K.l | 1126 | 58 | C5H10N2 | 98 |
| 1H-Pyrazole, 4,5-dihydro-5,5-dimethyl- | 4320-85-8 | NBS54K.l | 1121 | 53 | C5H10N2 | 98 |



Data File: /chem/msda.i/31Aug2011.b/a083117.d

Date : 31-AUG-2011 20:38

Client ID:

Instrument: msda.i

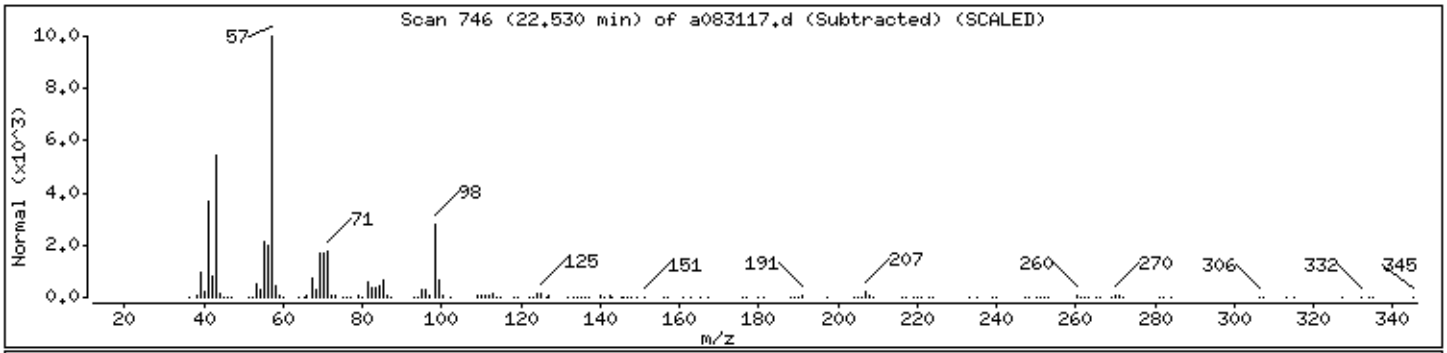
Sample Info: 12.5mL #34008

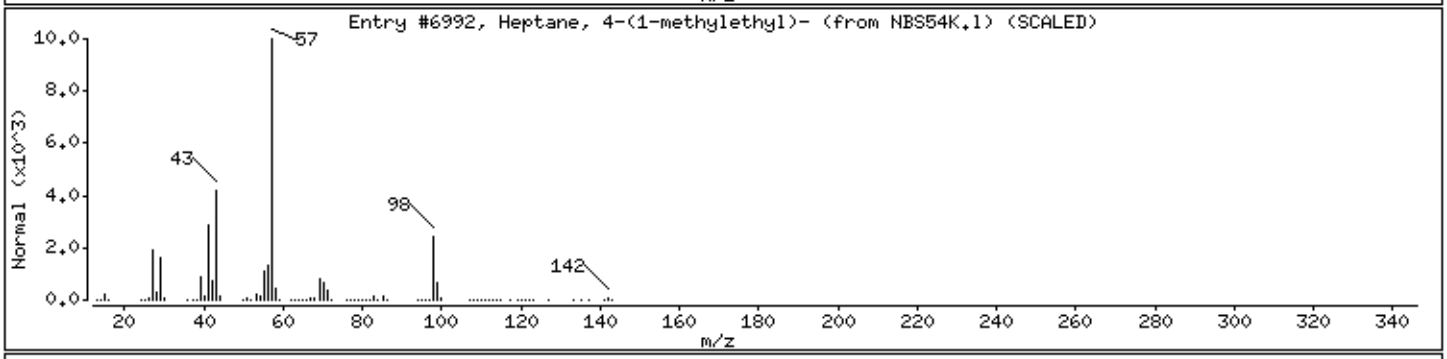
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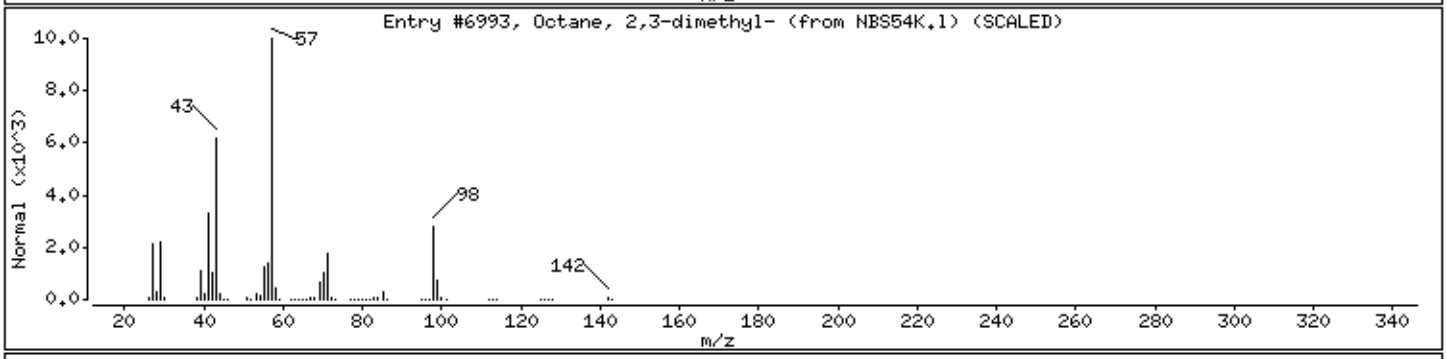
Column phase: RTx-624

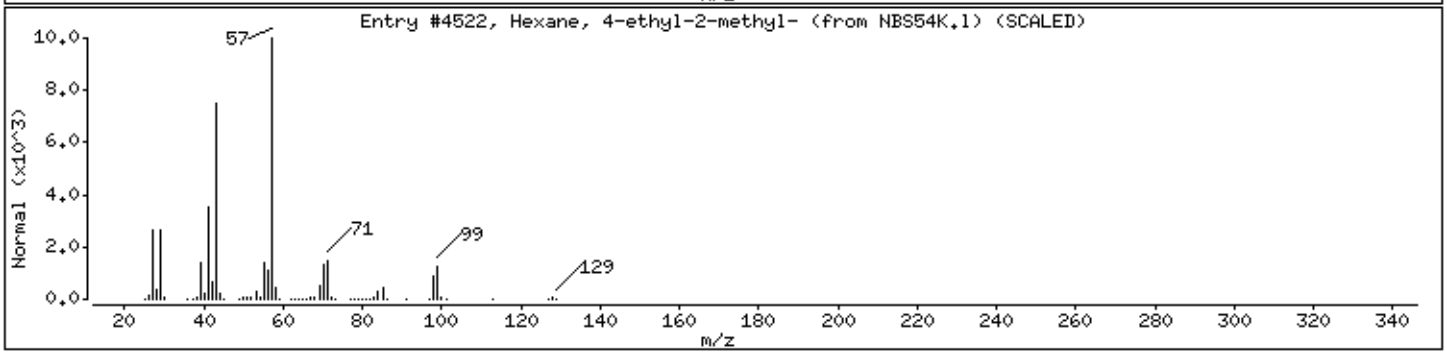
Column diameter: 0.32

| Library Search Compound Match | CAS Number | Library | Entry | Quality | Formula | Weight |
|---|---|---|---|---|---|---|
| Heptane, 4-(1-methylethyl)- | 52896-87-4 | NBS54K.l | 6992 | 72 | C10H22 | 142 |
| Octane, 2,3-dimethyl- | 7146-60-3 | NBS54K.l | 6993 | 64 | C10H22 | 142 |
| Hexane, 4-ethyl-2-methyl- | 3074-75-7 | NBS54K.l | 4522 | 53 | C9H20 | 128 |



Data File: /chem/msda.i/31Aug2011.b/a083117.d

Date : 31-AUG-2011 20:38

Client ID:

Instrument: msda.i

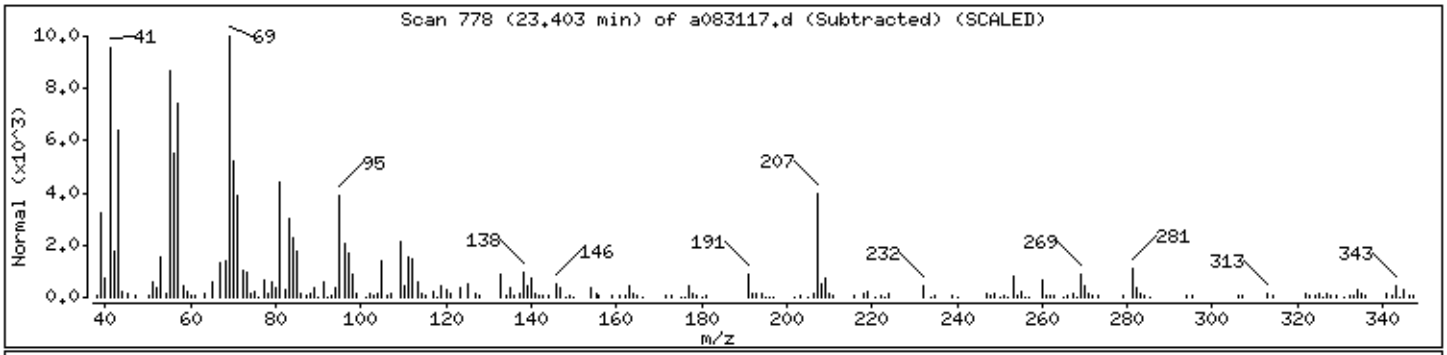
Sample Info: 12.5mL #34008

Operator: jc

Column phase: RTx-624

Column diameter: 0.32

| Library Search Compound Match | CAS Number | Library | Entry | Quality | Formula | Weight |
|---|---|---|---|---|---|---|
| Unknown | | | 0 | 0 | | 0 |



Air Toxics LTD.
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# Summary of Detected Compounds
# MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

**Client Sample ID: SG-11**

**Lab ID#: 1108582-08A**

| Compound | Rpt. Limit (ppbv) | Amount (ppbv) | Rpt. Limit (ug/m3) | Amount (ug/m3) |
|---|---|---|---|---|
| Freon 12 | 0.34 | 0.54 | 1.7 | 2.7 |
| Chloromethane | 0.34 | 0.44 | 0.69 | 0.92 |
| Freon 11 | 0.34 | 0.39 | 1.9 | 2.2 |
| Ethanol | 1.7 | 6.0 J | 3.2 | 11 J |
| Acetone | 1.7 | 450 E | 4.0 | 1100 E |
| 2-Propanol | 1.7 | 2.7 | 4.1 | 6.7 |
| Carbon Disulfide | 1.7 | 6.5 | 5.2 | 20 |
| Hexane | 0.34 | 1.1 | 1.2 | 3.9 |
| 2-Butanone (Methyl Ethyl Ketone) | 1.7 | 10 | 5.0 | 30 |
| Chloroform | 0.34 | 19 | 1.6 | 92 |
| 1,1,1-Trichloroethane | 0.34 | 2.8 | 1.8 | 15 |
| Cyclohexane | 0.34 | 0.99 | 1.2 | 3.4 |
| Benzene | 0.34 | 9.4 | 1.1 | 30 |
| Heptane | 0.34 | 1.2 | 1.4 | 4.9 |
| Trichloroethene | 0.34 | 0.50 | 1.8 | 2.7 |
| Toluene | 0.34 | 31 | 1.3 | 120 |
| Tetrachloroethene | 0.34 | 22 | 2.3 | 150 |
| 2-Hexanone | 1.7 | 2.5 | 6.9 | 10 |
| Chlorobenzene | 0.34 | 0.84 | 1.5 | 3.9 |
| Ethyl Benzene | 0.34 | 17 | 1.4 | 74 |
| m,p-Xylene | 0.34 | 53 | 1.4 | 230 |
| o-Xylene | 0.34 | 16 | 1.4 | 71 |
| Cumene | 0.34 | 0.66 | 1.6 | 3.2 |
| Propylbenzene | 0.34 | 0.69 | 1.6 | 3.4 |
| 4-Ethyltoluene | 0.34 | 2.7 | 1.6 | 13 |
| 1,3,5-Trimethylbenzene | 0.34 | 2.0 | 1.6 | 9.8 |
| 1,2,4-Trimethylbenzene | 0.34 | 3.9 | 1.6 | 19 |
| 2-Methylpentane | 1.7 | 1.8 | 5.9 | 6.3 |

**TENTATIVELY IDENTIFIED COMPOUNDS**

| Compound | CAS Number | Match Quality | Amount (ppbv) |
|---|---|---|---|
| 2-Butene, (Z)- | 590-18-1 | 80% | 26 NJ |

Air Toxics LTD.
Laboratory Services Since 1989

# Summary of Detected Compounds
# MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

**Client Sample ID: SG-11**

**Lab ID#: 1108582-08A**

**TENTATIVELY IDENTIFIED COMPOUNDS**

| Compound | CAS Number | Match Quality | Amount (ppbv) |
|---|---|---|---|
| Cyclohexane, 1,3-dimethyl-, cis- | 638-04-0 | 94% | 33 NJ |
| Cyclohexane, 1,4-dimethyl-, cis- | 624-29-3 | 91% | 23 NJ |
| Cyclohexane, ethyl- | 1678-91-7 | 91% | 37 NJ |
| Unknown | NA | NA | 25 J |
| Unknown | NA | NA | 24 J |
| Octane, 2,7-dimethyl- | 1072-16-8 | 59% | 24 NJ |
| Cyclohexane, 1,3,5-trimethyl-, (1.alpha. | 1795-26-2 | 87% | 26 NJ |
| Heptane, 3-ethyl- | 15869-80-4 | 36% | 22 NJ |
| 2-Heptanone | 110-43-0 | 91% | 17 NJ |

Air Toxics LTD.
Laboratory Services Since 1989

**Client Sample ID: SG-11**

**Lab ID#: 1108582-08A**

**MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN**

| | | | |
|---|---|---|---|
| **File Name:** | **a083118** | **Date of Collection:** | **8/26/11 10:45:00 AM** |
| **Dil. Factor:** | **3.36** | **Date of Analysis:** | **8/31/11 09:18 PM** |

| Compound | Rpt. Limit (ppbv) | Amount (ppbv) | Rpt. Limit (ug/m3) | Amount (ug/m3) |
|---|---|---|---|---|
| Freon 12 | 0.34 | 0.54 | 1.7 | 2.7 |
| Freon 114 | 0.34 | Not Detected | 2.3 | Not Detected |
| Chloromethane | 0.34 | 0.44 | 0.69 | 0.92 |
| Vinyl Chloride | 0.34 | Not Detected | 0.86 | Not Detected |
| 1,3-Butadiene | 0.34 | Not Detected | 0.74 | Not Detected |
| Bromomethane | 0.34 | Not Detected | 1.3 | Not Detected |
| Chloroethane | 1.7 | Not Detected | 4.4 | Not Detected |
| Freon 11 | 0.34 | 0.39 | 1.9 | 2.2 |
| Ethanol | 1.7 | 6.0 J | 3.2 | 11 J |
| Freon 113 | 0.34 | Not Detected | 2.6 | Not Detected |
| 1,1-Dichloroethene | 0.34 | Not Detected | 1.3 | Not Detected |
| Acetone | 1.7 | 450 E | 4.0 | 1100 E |
| 2-Propanol | 1.7 | 2.7 | 4.1 | 6.7 |
| Carbon Disulfide | 1.7 | 6.5 | 5.2 | 20 |
| 3-Chloropropene | 1.7 | Not Detected | 5.2 | Not Detected |
| Methylene Chloride | 0.67 | Not Detected | 2.3 | Not Detected |
| Methyl tert-butyl ether | 0.34 | Not Detected | 1.2 | Not Detected |
| trans-1,2-Dichloroethene | 0.34 | Not Detected | 1.3 | Not Detected |
| Hexane | 0.34 | 1.1 | 1.2 | 3.9 |
| 1,1-Dichloroethane | 0.34 | Not Detected | 1.4 | Not Detected |
| 2-Butanone (Methyl Ethyl Ketone) | 1.7 | 10 | 5.0 | 30 |
| cis-1,2-Dichloroethene | 0.34 | Not Detected | 1.3 | Not Detected |
| Tetrahydrofuran | 1.7 | Not Detected | 5.0 | Not Detected |
| Chloroform | 0.34 | 19 | 1.6 | 92 |
| 1,1,1-Trichloroethane | 0.34 | 2.8 | 1.8 | 15 |
| Cyclohexane | 0.34 | 0.99 | 1.2 | 3.4 |
| Carbon Tetrachloride | 0.34 | Not Detected | 2.1 | Not Detected |
| 2,2,4-Trimethylpentane | 1.7 | Not Detected | 7.8 | Not Detected |
| Benzene | 0.34 | 9.4 | 1.1 | 30 |
| 1,2-Dichloroethane | 0.34 | Not Detected | 1.4 | Not Detected |
| Heptane | 0.34 | 1.2 | 1.4 | 4.9 |
| Trichloroethene | 0.34 | 0.50 | 1.8 | 2.7 |
| 1,2-Dichloropropane | 0.34 | Not Detected | 1.6 | Not Detected |
| 1,4-Dioxane | 0.34 | Not Detected | 1.2 | Not Detected |
| Bromodichloromethane | 0.34 | Not Detected | 2.2 | Not Detected |
| cis-1,3-Dichloropropene | 0.34 | Not Detected | 1.5 | Not Detected |
| 4-Methyl-2-pentanone | 0.34 | Not Detected | 1.4 | Not Detected |
| Toluene | 0.34 | 31 | 1.3 | 120 |
| trans-1,3-Dichloropropene | 0.34 | Not Detected | 1.5 | Not Detected |
| 1,1,2-Trichloroethane | 0.34 | Not Detected | 1.8 | Not Detected |
| Tetrachloroethene | 0.34 | 22 | 2.3 | 150 |

Air Toxics LTD.
Laboratory Services Since 1989

**Client Sample ID: SG-11**

**Lab ID#: 1108582-08A**

**MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN**

| | | | |
|---|---|---|---|
| **File Name:** | **a083118** | **Date of Collection:** | **8/26/11 10:45:00 AM** |
| **Dil. Factor:** | **3.36** | **Date of Analysis:** | **8/31/11 09:18 PM** |

| Compound | Rpt. Limit (ppbv) | Amount (ppbv) | Rpt. Limit (ug/m3) | Amount (ug/m3) |
|---|---|---|---|---|
| 2-Hexanone | 1.7 | 2.5 | 6.9 | 10 |
| Dibromochloromethane | 0.34 | Not Detected | 2.9 | Not Detected |
| 1,2-Dibromoethane (EDB) | 0.34 | Not Detected | 2.6 | Not Detected |
| Chlorobenzene | 0.34 | 0.84 | 1.5 | 3.9 |
| Ethyl Benzene | 0.34 | 17 | 1.4 | 74 |
| m,p-Xylene | 0.34 | 53 | 1.4 | 230 |
| o-Xylene | 0.34 | 16 | 1.4 | 71 |
| Styrene | 0.34 | Not Detected | 1.4 | Not Detected |
| Bromoform | 0.34 | Not Detected | 3.5 | Not Detected |
| Cumene | 0.34 | 0.66 | 1.6 | 3.2 |
| 1,1,2,2-Tetrachloroethane | 0.34 | Not Detected | 2.3 | Not Detected |
| Propylbenzene | 0.34 | 0.69 | 1.6 | 3.4 |
| 4-Ethyltoluene | 0.34 | 2.7 | 1.6 | 13 |
| 1,3,5-Trimethylbenzene | 0.34 | 2.0 | 1.6 | 9.8 |
| 1,2,4-Trimethylbenzene | 0.34 | 3.9 | 1.6 | 19 |
| 1,3-Dichlorobenzene | 0.34 | Not Detected | 2.0 | Not Detected |
| 1,4-Dichlorobenzene | 0.34 | Not Detected | 2.0 | Not Detected |
| alpha-Chlorotoluene | 0.34 | Not Detected | 1.7 | Not Detected |
| 1,2-Dichlorobenzene | 0.34 | Not Detected | 2.0 | Not Detected |
| 1,2,4-Trichlorobenzene | 1.7 | Not Detected | 12 | Not Detected |
| Hexachlorobutadiene | 1.7 | Not Detected | 18 | Not Detected |
| 2,3-Dimethylpentane | 1.7 | Not Detected | 6.9 | Not Detected |
| 2-Methylpentane | 1.7 | 1.8 | 5.9 | 6.3 |
| Indene | 1.7 | Not Detected | 8.0 | Not Detected |
| Indan | 1.7 | Not Detected | 8.1 | Not Detected |
| Isopentane | 1.7 | Not Detected | 5.0 | Not Detected |
| Naphthalene | 1.7 | Not Detected | 8.8 | Not Detected |
| Thiophene | 1.7 | Not Detected | 5.8 | Not Detected |

J = Estimated value due to bias in the CCV.
E = Exceeds instrument calibration range.

**TENTATIVELY IDENTIFIED COMPOUNDS**

| Compound | CAS Number | Match Quality | Amount ((ppbv)) |
|---|---|---|---|
| 2-Butene, (Z)- | 590-18-1 | 80% | 26 NJ |
| Cyclohexane, 1,3-dimethyl-, cis- | 638-04-0 | 94% | 33 NJ |
| Cyclohexane, 1,4-dimethyl-, cis- | 624-29-3 | 91% | 23 NJ |
| Cyclohexane, ethyl- | 1678-91-7 | 91% | 37 NJ |
| Unknown | NA | NA | 25 J |
| Unknown | NA | NA | 24 J |
| Octane, 2,7-dimethyl- | 1072-16-8 | 59% | 24 NJ |

Air Toxics LTD.
Laboratory Services Since 1989

**Client Sample ID: SG-11**

**Lab ID#: 1108582-08A**

**MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN**

| | | | |
|---|---|---|---|
| **File Name:** | **a083118** | **Date of Collection: 8/26/11 10:45:00 AM** | |
| **Dil. Factor:** | **3.36** | **Date of Analysis: 8/31/11 09:18 PM** | |

**TENTATIVELY IDENTIFIED COMPOUNDS**

| Compound | CAS Number | Match Quality | Amount ((ppbv)) |
|---|---|---|---|
| Cyclohexane, 1,3,5-trimethyl-, (1.alpha. | 1795-26-2 | 87% | 26 NJ |
| Heptane, 3-ethyl- | 15869-80-4 | 36% | 22 NJ |
| 2-Heptanone | 110-43-0 | 91% | 17 NJ |

NJ =The identification is based on presumptive evidence; estimated value.

**Container Type: 6 Liter Summa Special (100% Certified)**

| Surrogates | %Recovery | Method Limits |
|---|---|---|
| 1,2-Dichloroethane-d4 | 109 | 70-130 |
| Toluene-d8 | 104 | 70-130 |
| 4-Bromofluorobenzene | 108 | 70-130 |

Air Toxics Ltd.

AMBIENT AIR METHOD TO14/TO15

Data file : /chem/msda.i/31Aug2011.b/a083118.d
Lab Smp Id: 1108582-08A
Inj Date : 31-AUG-2011 21:18
Operator : jc Inst ID: msda.i
Smp Info : 125mL #95611
Misc Info : 6.0"Hg-5psi
Comment :
Method : /chem/msda.i/31Aug2011.b/a11l0818b.m
Meth Date : 13-Sep-2011 12:21 ejakob Quant Type: ISTD
Cal Date : 31-AUG-2011 11:39 Cal File: a083106.d
Als bottle: 28
Dil Factor: 3.36000
Integrator: HP RTE Compound Sublist: Par16136.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

| | | | | CONCENTRATIONS ON-COL | CONCENTRATIONS FINAL | | |
|---|---|---|---|---|---|---|---|
| RT | EXP RT (REL RT) | MASS | RESPONSE | ( PPBV) | ( PPBV) | TARGET RANGE | RATIO |
| * 52 Bromochloromethane | | | | | CAS #: 74-97-5 | | |
| 15.406 | 15.406 (1.000) | 130 | 167338 | 10.0000 | | 80.00- 120.00 | 100.00 |
| 15.406 | 15.406 (1.000) | 128 | 131659 | | | 0.00- 30.00 | 78.68 |
| 15.406 | 15.406 (1.000) | 49 | 349762 | | | 0.00- 30.00 | 209.02 |
| * 66 1,4-Difluorobenzene | | | | | CAS #: 540-36-3 | | |
| 16.825 | 16.825 (1.000) | 114 | 841192 | 10.0000 | | 80.00- 120.00 | 100.00 |
| 16.825 | 16.825 (1.000) | 88 | 145223 | | | 0.00- 30.00 | 17.26 |
| * 88 Chlorobenzene-d5 | | | | | CAS #: 3114-55-4 | | |
| 21.614 | 21.614 (1.000) | 117 | 666991 | 10.0000 | | 80.00- 120.00 | 100.00 |
| 21.614 | 21.614 (1.000) | 82 | 582246 | | | 0.00- 30.00 | 87.29 |
| $ 61 1,2-Dichloroethane-d4 | | | | | CAS #: 17060-07-0 | | |
| 16.249 | 16.248 (1.055) | 65 | 329423 | 10.9399 | 10.940 | 80.00- 120.00 | 100.00 |
| 16.249 | 16.248 (1.055) | 67 | 174061 | | | 21.17- 81.17 | 52.84 |
| $ 80 Toluene-d8 | | | | | CAS #: 2037-26-5 | | |
| 19.389 | 19.411 (1.152) | 98 | 846590 | 10.3526 | 10.353 | 80.00- 120.00 | 100.00 |
| 19.412 | 19.411 (1.154) | 70 | 164151 | | | 0.00- 41.96 | 19.39 |

| RT | EXP RT (REL RT) | MASS | RESPONSE | CONCENTRATIONS ON-COL ( PPBV) | FINAL ( PPBV) | TARGET RANGE | RATIO |
|---|---|---|---|---|---|---|---|
| $ 80 Toluene-d8 (continued) | | | | | | | |
| 19.389 | 19.411 (1.152) | 100 | 569356 | | | 36.91- 96.91 | 67.25 |
| $ 100 Bromofluorobenzene | | | | | CAS #: 460-00-4 | | |
| 23.068 | 23.068 (1.067) | 174 | 373618 | 10.7547 | 10.755 | 80.00- 120.00 | 100.00 |
| 23.068 | 23.068 (1.067) | 95 | 539784 | | | 114.98- 174.98 | 144.47 |
| 23.068 | 23.068 (1.067) | 176 | 359510 | | | 67.23- 127.23 | 96.22 |
| 4 Dichlorodifluoromethane/Fr12 | | | | | CAS #: 75-71-8 | | |
| 5.348 | 5.613 (0.347) | 85 | 17741 | 0.16137 | 0.5422 | 80.00- 120.00 | 100.00 |
| 5.348 | 5.613 (0.347) | 87 | 6358 | | | 2.29- 62.29 | 35.84 |
| 7 Chloromethane | | | | | CAS #: 74-87-3 | | |
| 7.132 | 7.276 (0.463) | 50 | 5338 | 0.13212 | 0.4439 | 80.00- 120.00 | 100.00 |
| 7.156 | 7.276 (0.464) | 52 | 1867 | | | 2.29- 62.29 | 34.98 |
| 16 Trichlorofluoromethane/Fr11 | | | | | CAS #: 75-69-4 | | |
| 10.841 | 10.841 (0.704) | 101 | 10222 | 0.11689 | 0.3928 | 80.00- 120.00 | 100.00 |
| 10.841 | 10.841 (0.704) | 103 | 6600 | | | 34.85- 94.85 | 64.57 |
| 20 Ethanol | | | | | CAS #: 64-17-5 | | |
| 11.690 | 11.690 (0.759) | 45 | 10749 | 1.77301 | 5.957 | 80.00- 120.00 | 100.00 |
| 11.690 | 11.690 (0.759) | 43 | 9062 | | | 0.00- 57.08 | 84.31 |
| 11.690 | 11.690 (0.759) | 46 | 3211 | | | 10.87- 70.87 | 29.87 |
| 26 Carbon Disulfide | | | | | CAS #: 75-15-0 | | |
| 12.499 | 12.499 (0.811) | 76 | 173355 | 1.94105 | 6.522 | 80.00- 120.00 | 100.00 |
| 24 Acetone | | | | | CAS #: 67-64-1 | | |
| 12.416 | 12.416 (0.806) | 58 | 2929358 | 134.585 | 452.21 | 80.00- 120.00 | 100.00(A) |
| 12.416 | 12.416 (0.806) | 43 | 9340541 | | | 283.54- 343.54 | 318.86 |
| 27 2-Propanol | | | | | CAS #: 67-63-0 | | |
| 12.727 | 12.727 (0.826) | 45 | 81768 | 0.81368 | 2.734 | 80.00- 120.00 | 100.00 |
| 12.727 | 12.727 (0.826) | 43 | 23188 | | | 0.00- 49.76 | 28.36 |
| 12.727 | 12.727 (0.826) | 59 | 4541 | | | 0.00- 34.09 | 5.55 |
| 40 Hexane | | | | | CAS #: 110-54-3 | | |
| 13.819 | 13.819 (0.897) | 57 | 27542 | 0.32889 | 1.105 | 80.00- 120.00 | 100.00 |
| 13.819 | 13.819 (0.897) | 43 | 17955 | | | 33.38- 93.38 | 65.19 |
| 13.819 | 13.819 (0.897) | 86 | 4469 | | | 0.00- 46.43 | 16.23 |
| 48 2-Butanone | | | | | CAS #: 78-93-3 | | |
| 15.065 | 15.065 (0.978) | 72 | 75911 | 3.04330 | 10.225 | 80.00- 120.00 | 100.00 |
| 15.065 | 15.065 (0.978) | 43 | 384089 | | | 298.82- 358.82 | 505.97 |
| 15.065 | 15.065 (0.978) | 57 | 26155 | | | 0.00- 56.09 | 34.45 |

| RT | EXP RT (REL RT) | MASS | RESPONSE | CONCENTRATIONS ON-COL ( PPBV) | CONCENTRATIONS FINAL ( PPBV) | TARGET RANGE | RATIO |
|---|---|---|---|---|---|---|---|
| 53 Chloroform | | | | | CAS #: 67-66-3 | | |
| 15.467 | 15.467 (1.004) | 83 | 535026 | 5.62224 | 18.891 | 80.00- 120.00 | 100.00 |
| 15.467 | 15.467 (1.004) | 85 | 354276 | | | 34.45- 94.45 | 66.22 |
| 55 Cyclohexane | | | | | CAS #: 110-82-7 | | |
| 15.714 | 15.714 (1.020) | 84 | 20548 | 0.29423 | 0.9886 | 80.00- 120.00 | 100.00 |
| 15.714 | 15.714 (1.020) | 56 | 37912 | | | 97.99- 157.99 | 184.50 |
| 15.714 | 15.714 (1.020) | 41 | 23783 | | | 37.94- 97.94 | 115.74 |
| 56 1,1,1-Trichloroethane | | | | | CAS #: 71-55-6 | | |
| 15.714 | 15.714 (1.020) | 97 | 85863 | 0.84454 | 2.838 | 80.00- 120.00 | 100.00 |
| 15.714 | 15.714 (1.020) | 99 | 54509 | | | 34.37- 94.37 | 63.48 |
| 60 Benzene | | | | | CAS #: 71-43-2 | | |
| 16.249 | 16.248 (0.966) | 78 | 439831 | 2.81514 | 9.459 | 80.00- 120.00 | 100.00 |
| 16.249 | 16.248 (0.966) | 77 | 101703 | | | 0.00- 53.14 | 23.12 |
| 64 Heptane | | | | | CAS #: 142-82-5 | | |
| 16.413 | 16.413 (0.976) | 57 | 18540 | 0.35605 | 1.196 | 80.00- 120.00 | 100.00 |
| 16.413 | 16.413 (0.976) | 100 | 4676 | | | 11.16- 71.16 | 25.22 |
| 16.413 | 16.413 (0.976) | 43 | 34211 | | | 158.27- 218.27 | 184.53 |
| 67 Trichloroethene | | | | | CAS #: 79-01-6 | | |
| 17.237 | 17.237 (1.024) | 130 | 9878 | 0.14806 | 0.4975 | 80.00- 120.00 | 100.00 |
| 17.237 | 17.237 (1.024) | 95 | 11808 | | | 75.28- 135.28 | 119.54 |
| 17.237 | 17.237 (1.024) | 97 | 7178 | | | 37.01- 97.01 | 72.67 |
| 81 Toluene | | | | | CAS #: 108-88-3 | | |
| 19.524 | 19.524 (1.160) | 91 | 1650884 | 9.23915 | 31.044 | 80.00- 120.00 | 100.00 |
| 19.524 | 19.524 (1.160) | 92 | 979687 | | | 30.18- 90.18 | 59.34 |
| 84 Tetrachloroethene | | | | | CAS #: 127-18-4 | | |
| 20.365 | 20.365 (0.942) | 166 | 479598 | 6.65821 | 22.372 | 80.00- 120.00 | 100.00 |
| 20.333 | 20.365 (0.941) | 129 | 381121 | | | 48.84- 108.84 | 79.47 |
| 20.333 | 20.365 (0.941) | 131 | 356779 | | | 46.09- 106.09 | 74.39 |
| 85 2-Hexanone | | | | | CAS #: 591-78-6 | | |
| 20.495 | 20.495 (0.948) | 58 | 46553 | 0.74336 | 2.498 | 80.00- 120.00 | 100.00 |
| 20.495 | 20.495 (0.948) | 43 | 70619 | | | 132.91- 192.91 | 151.70 |
| 20.495 | 20.495 (0.948) | 100 | 9599 | | | 0.00- 49.97 | 20.62 |
| 89 Chlorobenzene | | | | | CAS #: 108-90-7 | | |
| 21.638 | 21.638 (1.001) | 112 | 31861 | 0.25130 | 0.8444 | 80.00- 120.00 | 100.00 |
| 21.638 | 21.638 (1.001) | 114 | 1039 | | | 2.00- 62.00 | 3.26 |
| 21.711 | 21.638 (1.004) | 77 | 126121 | | | 33.87- 93.87 | 395.85 |

| RT | EXP RT (REL RT) | MASS | RESPONSE | CONCENTRATIONS ON-COL ( PPBV) | CONCENTRATIONS FINAL ( PPBV) | TARGET RANGE | RATIO |
|---|---|---|---|---|---|---|---|
| 91 Ethyl Benzene | | | | | CAS #: 100-41-4 | | |
| 21.711 | 21.711 (1.004) | 106 | 328333 | 5.04747 | 16.959 | 80.00- 120.00 | 100.00 |
| 21.711 | 21.711 (1.004) | 91 | 1061751 | | | 291.22- 351.22 | 323.38 |
| 93 m,p-Xylene | | | | | CAS #: 108-38-3 | | |
| 21.855 | 21.855 (1.011) | 106 | 1127223 | 15.8477 | 53.248 | 80.00- 120.00 | 100.00 |
| 21.855 | 21.855 (1.011) | 91 | 2297229 | | | 173.15- 233.15 | 203.80 |
| 94 o-Xylene | | | | | CAS #: 95-47-6 | | |
| 22.385 | 22.385 (1.036) | 106 | 331260 | 4.84053 | 16.264 | 80.00- 120.00 | 100.00 |
| 22.385 | 22.385 (1.036) | 91 | 717939 | | | 185.20- 245.20 | 216.73 |
| 98 Cumene | | | | | CAS #: 98-82-8 | | |
| 22.810 | 22.810 (1.055) | 105 | 40397 | 0.19663 | 0.6607 | 80.00- 120.00 | 100.00 |
| 22.810 | 22.810 (1.055) | 120 | 8209 | | | 0.00- 56.13 | 20.32 |
| 104 Propylbenzene | | | | | CAS #: 103-65-1 | | |
| 23.274 | 23.274 (1.077) | 91 | 43640 | 0.20528 | 0.6898 | 80.00- 120.00 | 100.00 |
| 23.274 | 23.274 (1.077) | 120 | 10075 | | | 0.00- 52.40 | 23.09 |
| 107 4-Ethyltoluene | | | | | CAS #: 622-96-8 | | |
| 23.378 | 23.403 (1.082) | 105 | 157155 | 0.81001 | 2.722 | 80.00- 120.00 | 100.00 |
| 23.378 | 23.403 (1.082) | 120 | 45248 | | | 0.31- 60.31 | 28.79 |
| 109 1,3,5-Trimethylbenzene | | | | | CAS #: 108-67-8 | | |
| 23.455 | 23.455 (1.085) | 105 | 91322 | 0.59584 | 2.002 | 80.00- 120.00 | 100.00 |
| 23.455 | 23.455 (1.085) | 120 | 45160 | | | 18.26- 78.26 | 49.45 |
| 112 1,2,4-Trimethylbenzene | | | | | CAS #: 95-63-6 | | |
| 23.893 | 23.893 (1.105) | 105 | 166295 | 1.16252 | 3.906 | 80.00- 120.00 | 100.00 |
| 23.893 | 23.893 (1.105) | 120 | 74043 | | | 15.25- 75.25 | 44.53 |
| 30 2-Methylpentane | | | | | CAS #: 107-83-5 | | |
| 12.995 | 12.995 (0.844) | 71 | 14877 | 0.53301 | 1.791 | 80.00- 120.00 | 100.00 |
| 12.995 | 12.995 (0.844) | 43 | 53417 | | | 0.00- 30.00 | 359.06 |
| 12.995 | 12.995 (0.844) | 42 | 26121 | | | 0.00- 30.00 | 175.58 |

## QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.

Air Toxics Ltd.

AMBIENT AIR METHOD TO14/TO15

Data file : /chem/msda.i/31Aug2011.b/a083118.d
Lab Smp Id: 1108582-08A
Inj Date : 31-AUG-2011 21:18
Operator : jc Inst ID: msda.i
Smp Info : 125mL #95611
Misc Info : 6.0"Hg-5psi
Comment :
Method : /chem/msda.i/31Aug2011.b/a11l0818b.m
Meth Date : 13-Sep-2011 12:21 ejakob Quant Type: ISTD
Cal Date : 31-AUG-2011 11:39 Cal File: a083106.d
Als bottle: 28
Dil Factor: 3.36000
Integrator: HP RTE Compound Sublist: Par16136.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

| ISTD | RT | AREA | AMOUNT |
|---|---|---|---|
| * 52 Bromochloromethane | 15.406 | 2562090 | 10.000 |
| * 88 Chlorobenzene-d5 | 21.614 | 5851687 | 10.000 |

| | CONCENTRATIONS | | | QUANT | | | |
|---|---|---|---|---|---|---|---|
| RT | AREA | ON-COL( PPBV) | FINAL( PPBV) | QUAL | LIBRARY | LIB ENTRY | CPND # |
| 2-Butene, (Z)- | | | | CAS #: 590-18-1 | | | |
| 7.798 | 2009652 | 7.84379814 | 26.355 | 80 | NBS54K.l | 78 | 52(L) |
| Cyclohexane, 1,3-dimethyl-, cis- | | | | CAS #: 638-04-0 | | | |
| 19.232 | 5771270 | 9.86257413 | 33.138 | 94 | NBS54K.l | 2399 | 88(L) |
| Cyclohexane, 1,4-dimethyl-, cis- | | | | CAS #: 624-29-3 | | | |
| 20.008 | 4072844 | 6.96011781 | 23.386 | 91 | NBS54K.l | 2417 | 88(L) |
| Cyclohexane, ethyl- | | | | CAS #: 1678-91-7 | | | |
| 20.723 | 6519600 | 11.1414015 | 37.435 | 91 | NBS54K.l | 2390 | 88 |

| RT | AREA | ON-COL( PPBV) | FINAL( PPBV) | QUAL | LIBRARY | LIB ENTRY | CPND # |
|---|---|---|---|---|---|---|---|
| Unknown | | | | | CAS #: | | |
| 20.788 | 4335400 | 7.40880246 | 24.894 | 0 | | 0 | 88 |
| Unknown | | | | | CAS #: | | |
| 20.918 | 4275739 | 7.30684838 | 24.551 | 0 | | 0 | 88(M) |
| Octane, 2,7-dimethyl- | | | | | CAS #: 1072-16-8 | | |
| 20.983 | 4144915 | 7.08328145 | 23.800 | 59 | NBS54K.l | 6986 | 88(ML) |
| Cyclohexane, 1,3,5-trimethyl-, (1.alpha. | | | | | CAS #: 1795-26-2 | | |
| 21.113 | 4549411 | 7.77452835 | 26.122 | 87 | NBS54K.l | 4106 | 88(M) |
| Heptane, 3-ethyl- | | | | | CAS #: 15869-80-4 | | |
| 21.178 | 3884343 | 6.63798841 | 22.304 | 36 | NBS54K.l | 4505 | 88(ML) |
| 2-Heptanone | | | | | CAS #: 110-43-0 | | |
| 22.482 | 2954906 | 5.04966395 | 16.967 | 91 | NBS54K.l | 2687 | 88 |

## QC Flag Legend

M - Compound response manually integrated.
L - Operator selected an alternate library search match.

Report Date: 13-Sep-2011 12:50

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msda.i
Lab File ID: a083118.d
Lab Smp Id: 1108582-08A
Analysis Type: VOA
Quant Type: ISTD
Operator: jc
Method File: /chem/msda.i/31Aug2011.b/a11l0818b.m
Misc Info: 6.0"Hg-5psi

Calibration Date: 31-AUG-2011
Calibration Time: 08:01
Level: LOW
Sample Type: AIR

| | | AREA LIMIT | | | |
|---|---|---|---|---|---|
| COMPOUND | STANDARD | LOWER | UPPER | SAMPLE | %DIFF |
| 52 Bromochloromethan | 206450 | 123870 | 289030 | 167338 | -18.95 |
| 66 1,4-Difluorobenze | 897592 | 538555 | 1256629 | 841192 | -6.28 |
| 88 Chlorobenzene-d5 | 792197 | 475318 | 1109076 | 666991 | -15.80 |

| | | RT LIMIT | | | |
|---|---|---|---|---|---|
| COMPOUND | STANDARD | LOWER | UPPER | SAMPLE | %DIFF |
| 52 Bromochloromethan | 15.41 | 15.08 | 15.74 | 15.41 | 0.00 |
| 66 1,4-Difluorobenze | 16.82 | 16.50 | 17.15 | 16.83 | 0.00 |
| 88 Chlorobenzene-d5 | 21.61 | 21.28 | 21.94 | 21.61 | 0.00 |

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Air Toxics Ltd.

RECOVERY REPORT

Client Name: Client SDG: 31Aug2011
Sample Matrix: GAS Fraction: VOA
Lab Smp Id: 1108582-08A
Level: LOW Operator: jc
Data Type: MS DATA SampleType: SAMPLE
SpikeList File: AT09.spk Quant Type: ISTD
Sublist File: Par16136.sub
Method File: /chem/msda.i/31Aug2011.b/a11l0818b.m
Misc Info: 6.0"Hg-5psi

| SURROGATE COMPOUND | CONC ADDED PPBV | CONC RECOVERED PPBV | % RECOVERED | LIMITS |
|---|---|---|---|---|
| $ 61 1,2-Dichloroethane | 10.000 | 10.940 | 109.40 | 70-130 |
| $ 80 Toluene-d8 | 10.000 | 10.353 | 103.53 | 70-130 |
| $ 100 Bromofluorobenzene | 10.000 | 10.755 | 107.55 | 70-130 |

¥B

Data File: /chem/msda.i/31Aug2011.b/a083118.d



Date : 31-AUG-2011 21:18

Client ID:

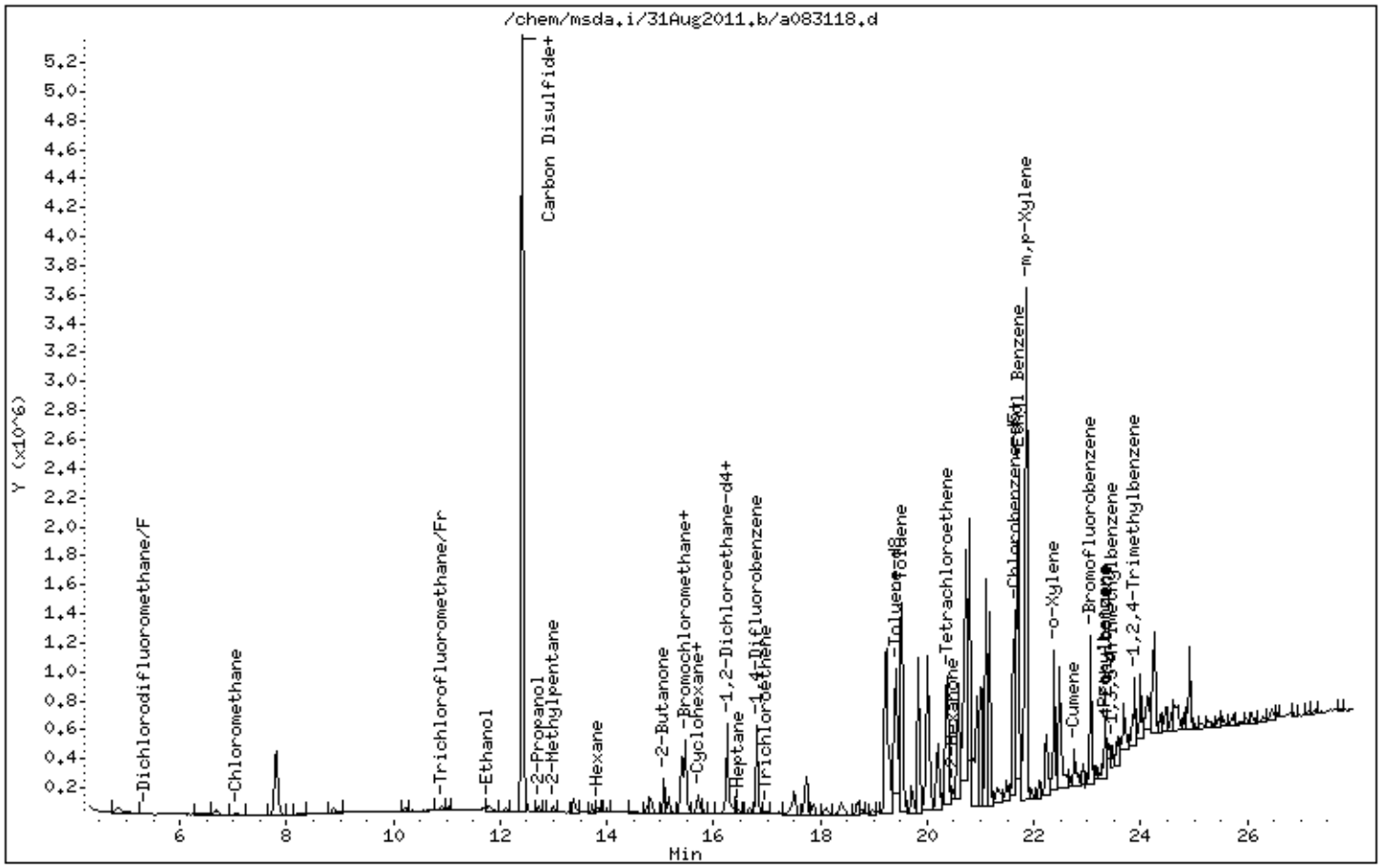
Instrument: msda.i

Sample Info: 125mL #95611

Operator: jc

Column phase: RTx-624

Column diameter: 0.32



Data File: /chem/msda.i/31Aug2011.b/a083118.d

Date : 31-AUG-2011 21:18

Client ID:

Instrument: msda.i

Sample Info: 125mL #95611

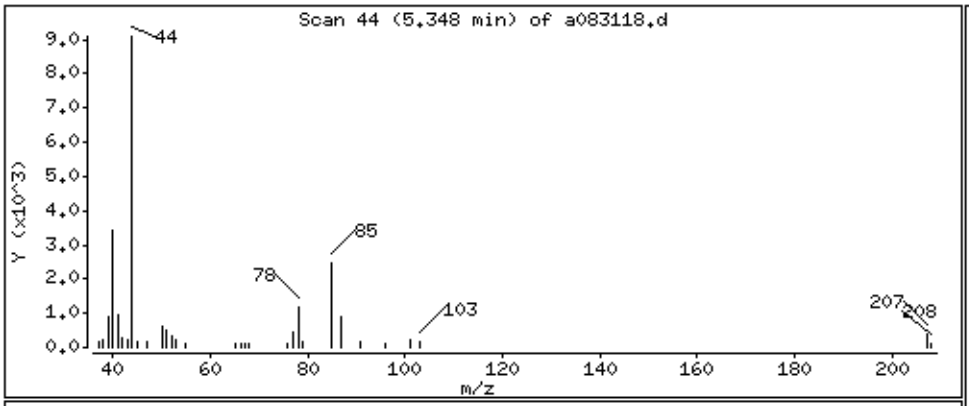
Operator: jc

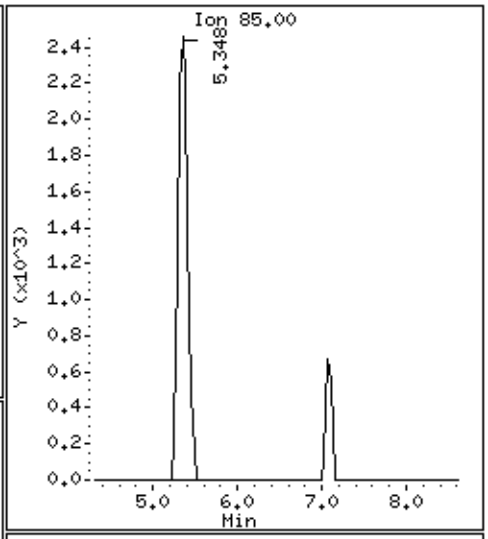
Column phase: RTx-624

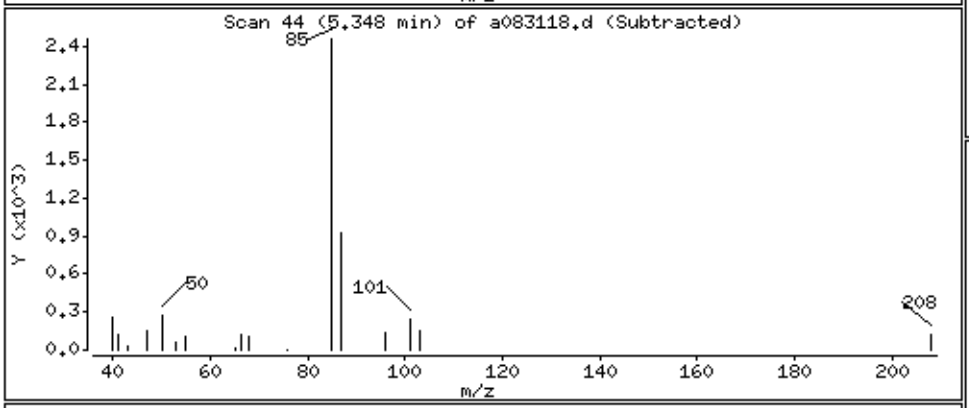
Column diameter: 0.32

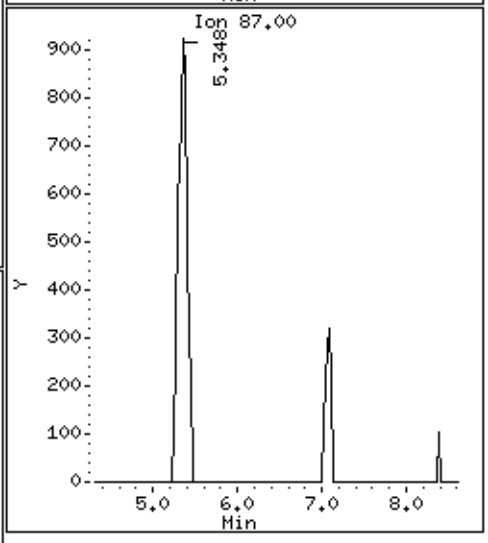
4 Dichlorodifluoromethane/Fr12

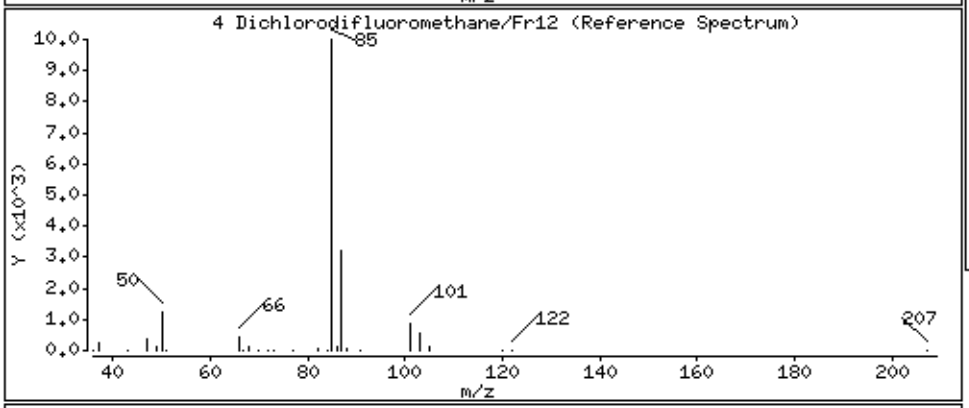
Concentration: 0.5422 PPBV

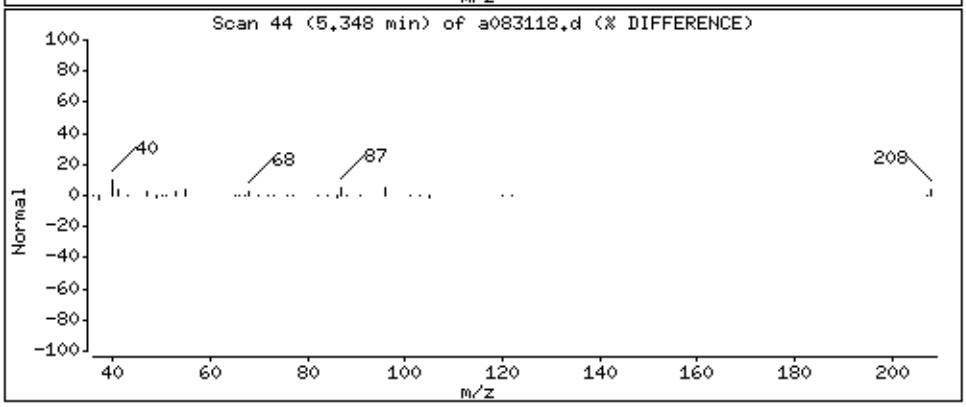


Data File: /chem/msda.i/31Aug2011.b/a083118.d

Date : 31-AUG-2011 21:18

Client ID:

Instrument: msda.i

Sample Info: 125mL #95611

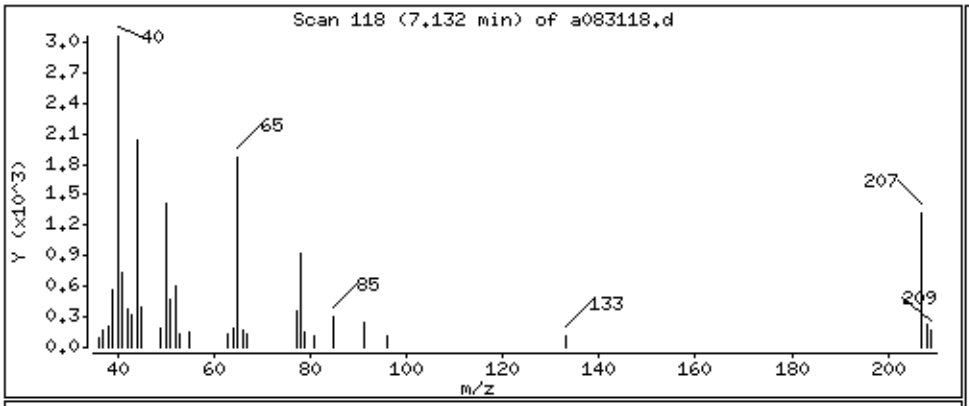
Operator: jc

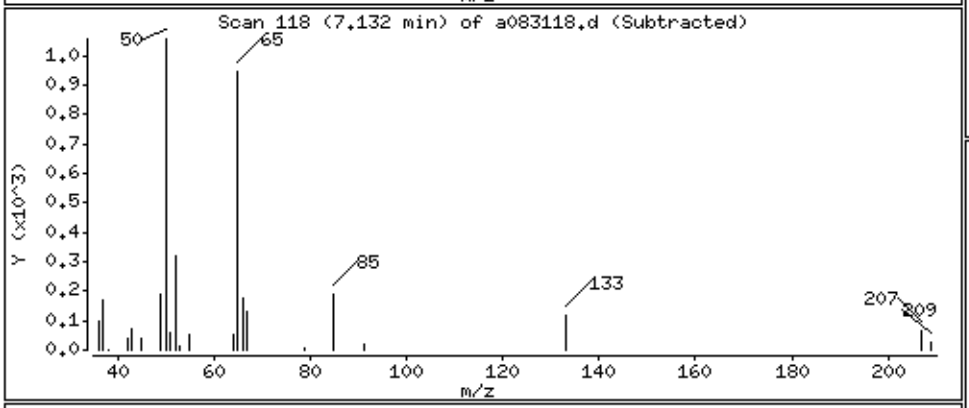
Column phase: RTx-624

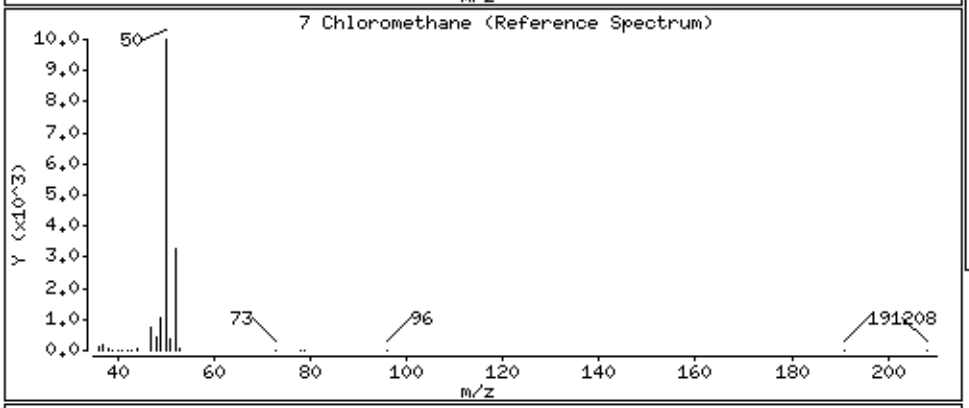
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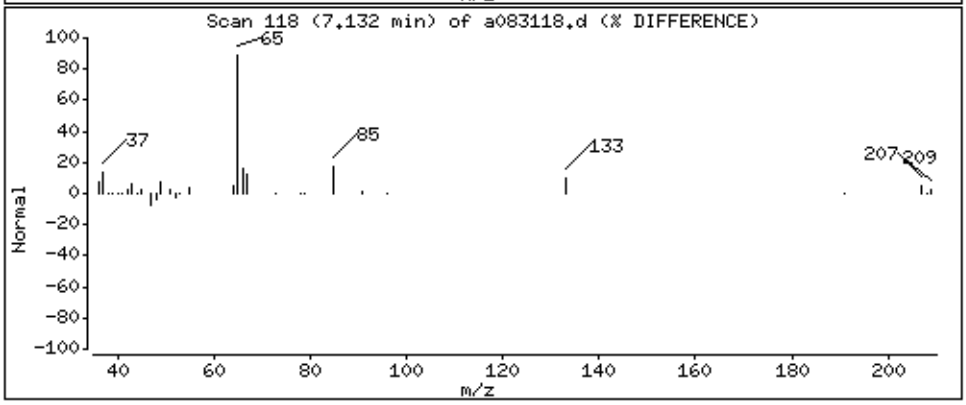
7 Chloromethane

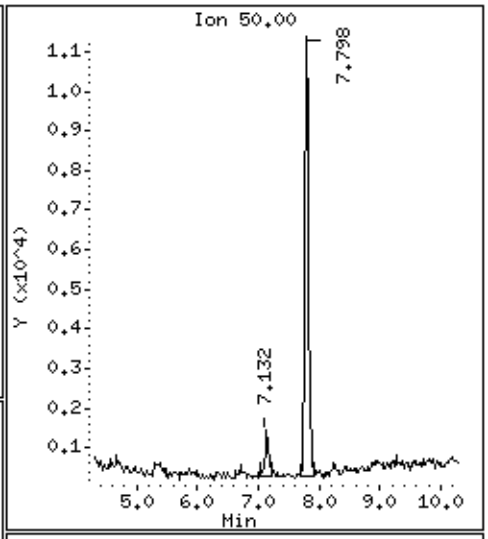
Concentration: 0.4439 PPBV

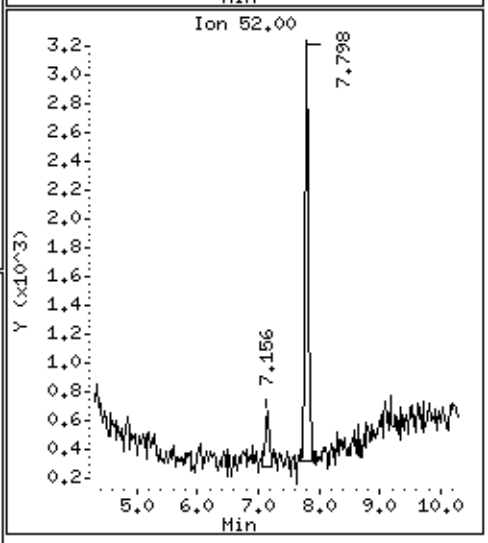


Data File: /chem/msda.i/31Aug2011.b/a083118.d

Date : 31-AUG-2011 21:18

Client ID:

Instrument: msda.i

Sample Info: 125mL #95611

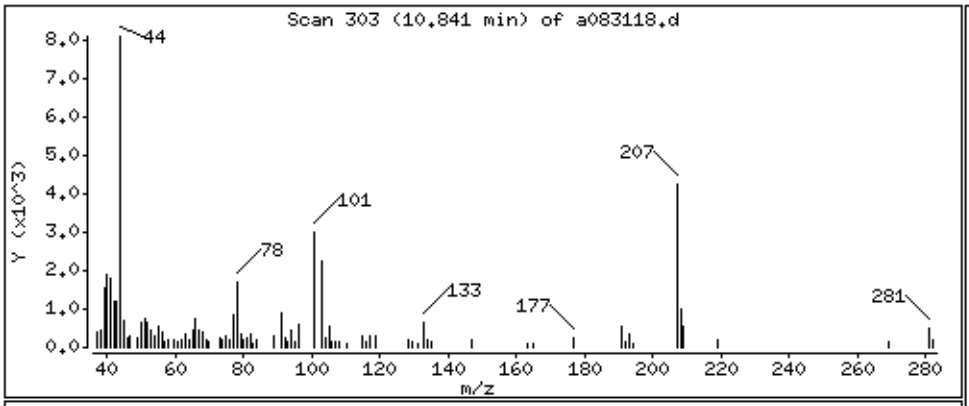
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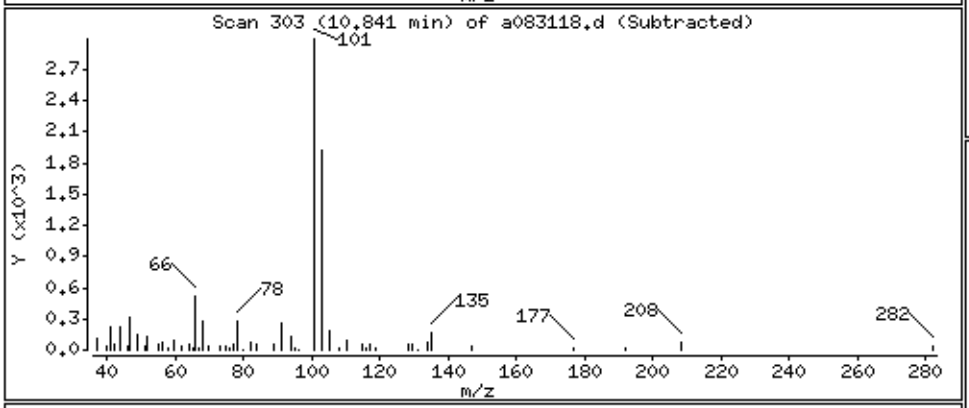
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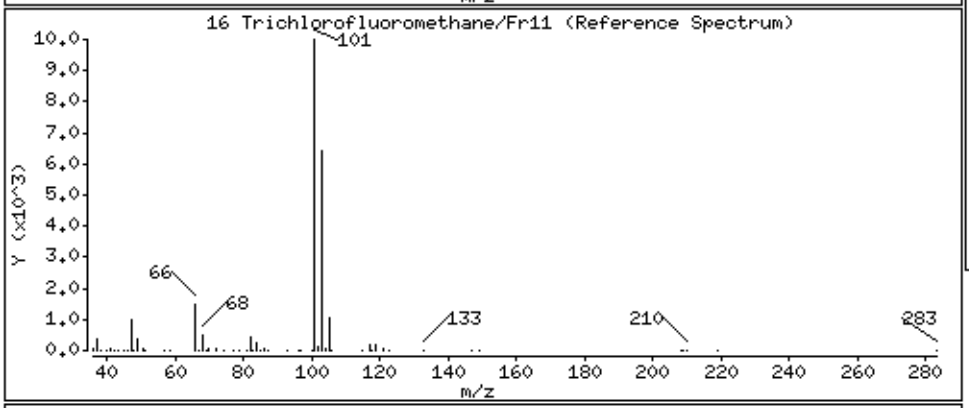
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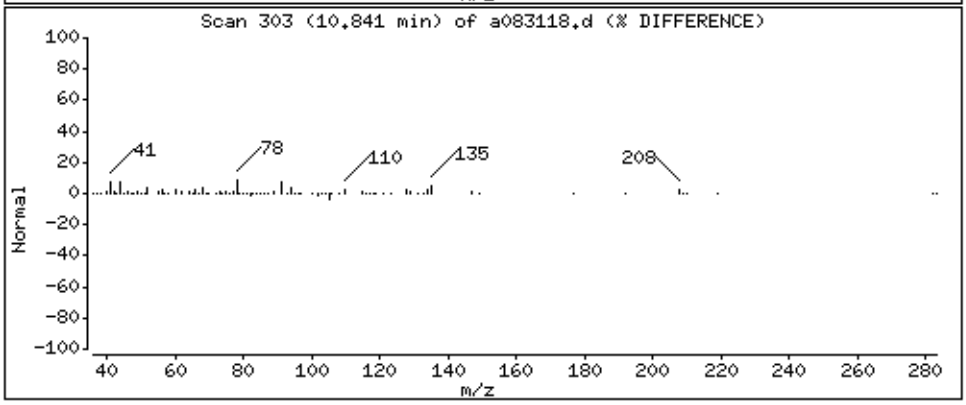
16 Trichlorofluoromethane/Fr11

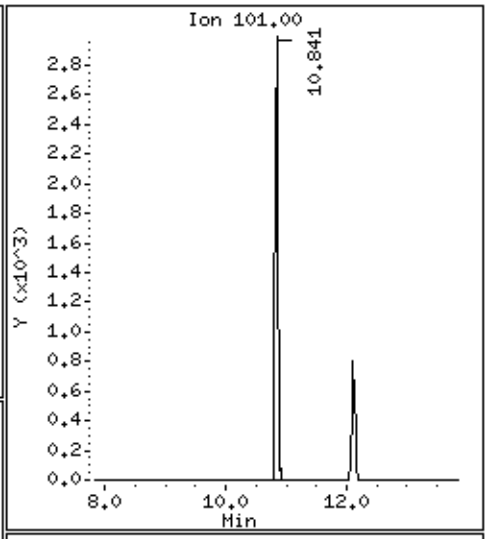
Concentration: 0.3928 PPBV

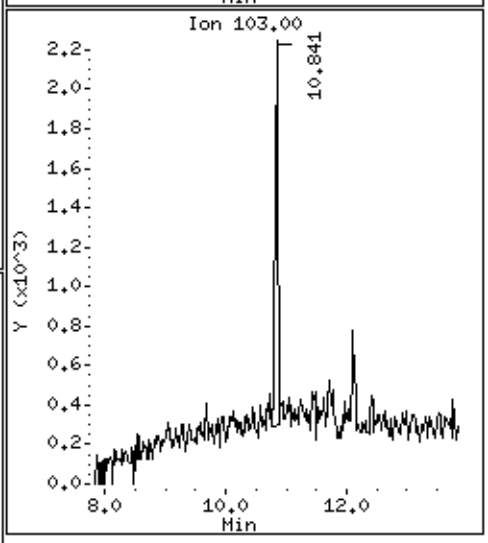


Data File: /chem/msda.i/31Aug2011.b/a083118.d

Date : 31-AUG-2011 21:18

Client ID:

Instrument: msda.i

Sample Info: 125mL #95611

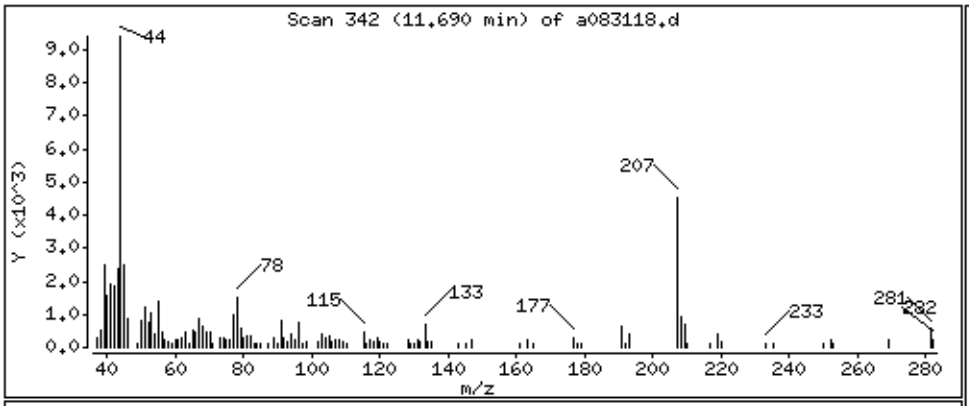
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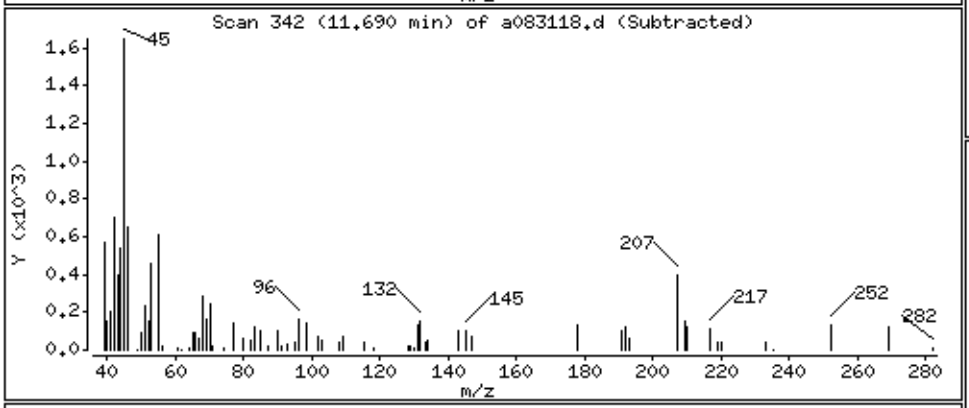
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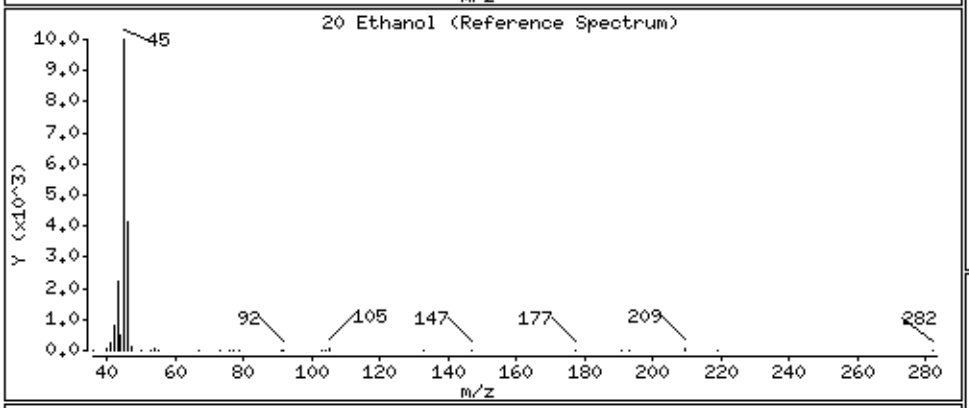
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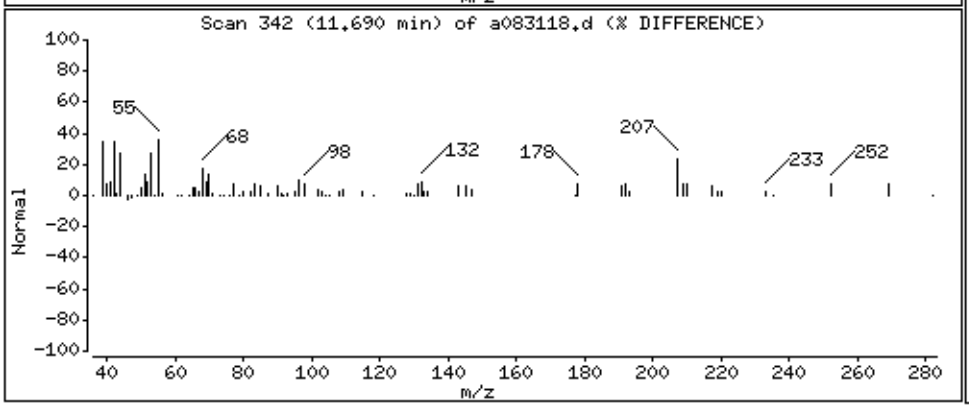
20 Ethanol

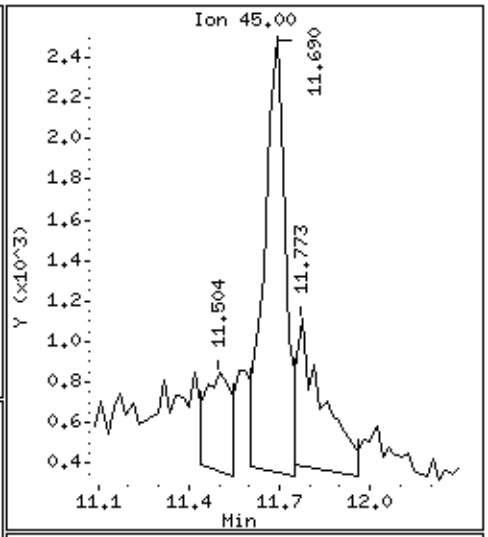
Concentration: 5.957 PPBV

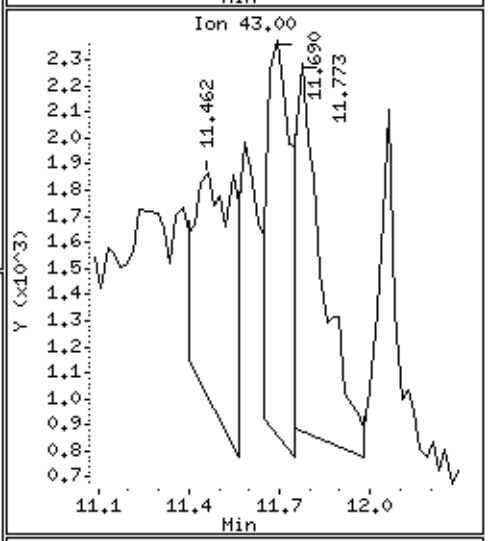


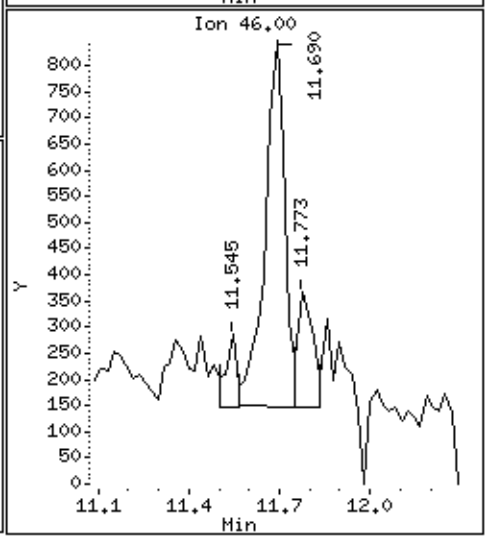



Data File: /chem/msda.i/31Aug2011.b/a083118.d

Date : 31-AUG-2011 21:18

Client ID:

Instrument: msda.i

Sample Info: 125mL #95611

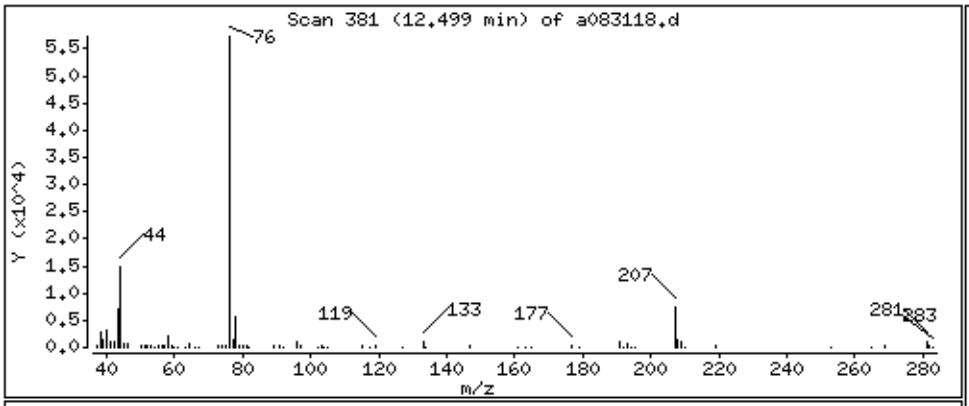
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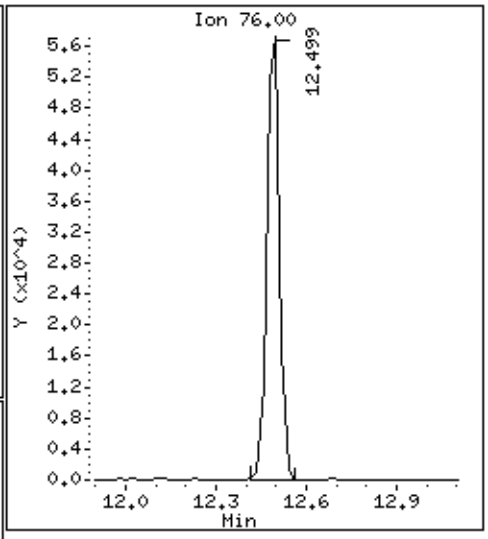
Column phase: RTx-624

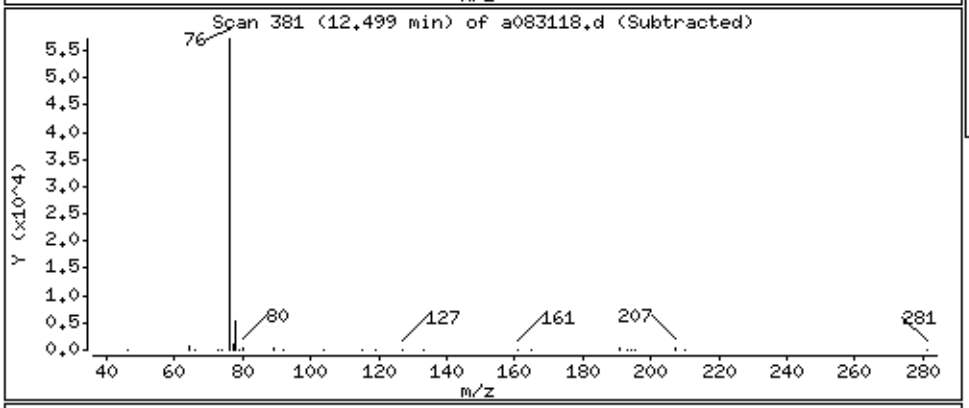
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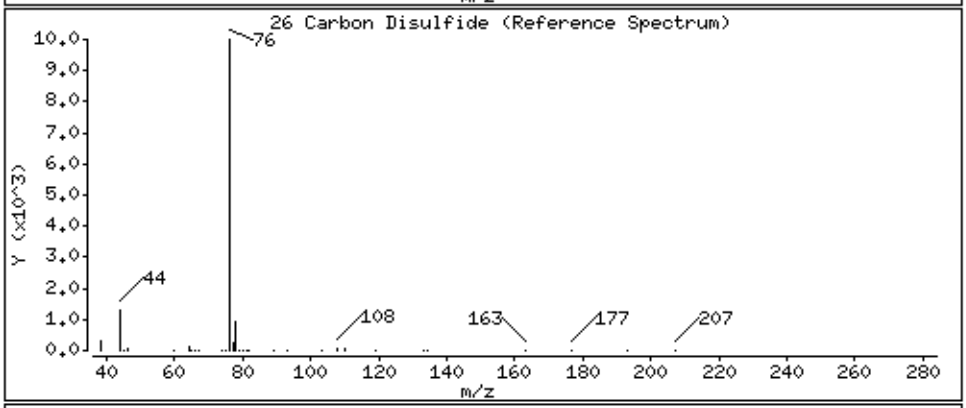
26 Carbon Disulfide

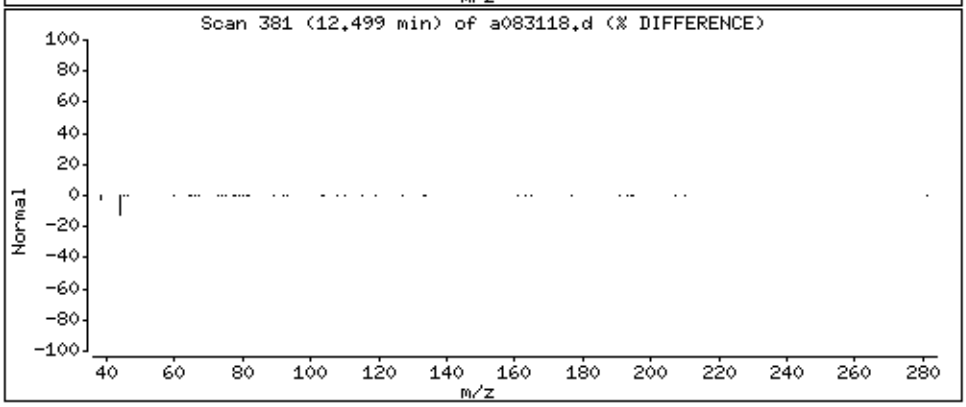
Concentration: 6.522 PPBV



Data File: /chem/msda.i/31Aug2011.b/a083118.d

Date : 31-AUG-2011 21:18

Client ID:

Instrument: msda.i

Sample Info: 125mL #95611

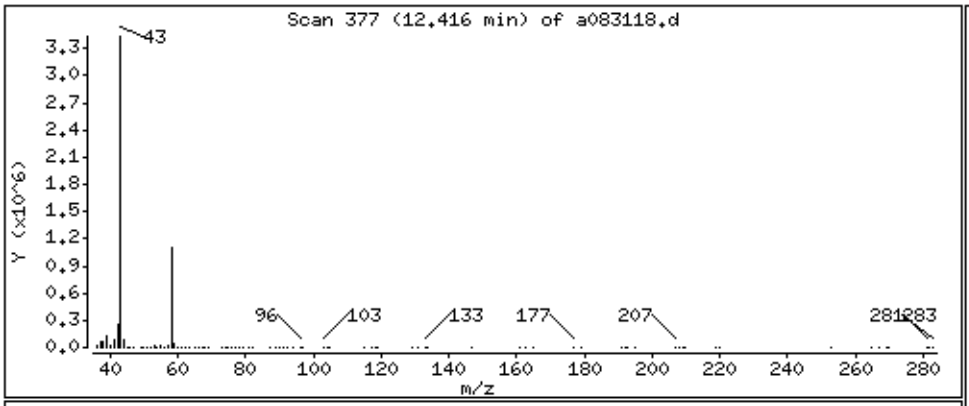
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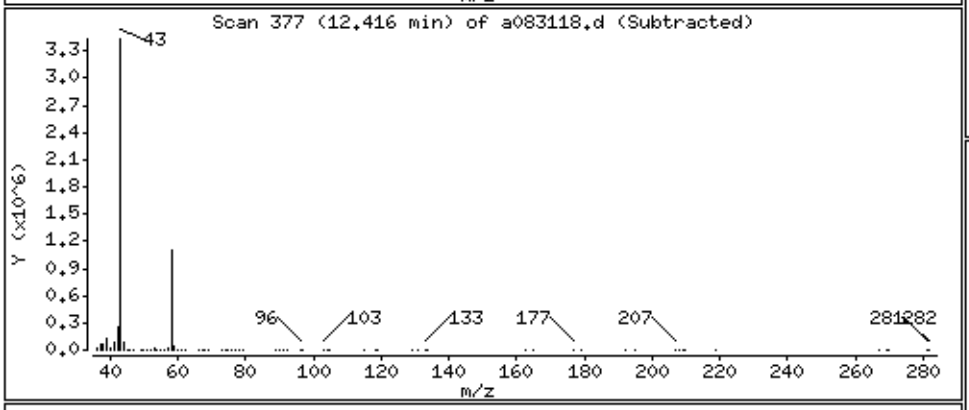
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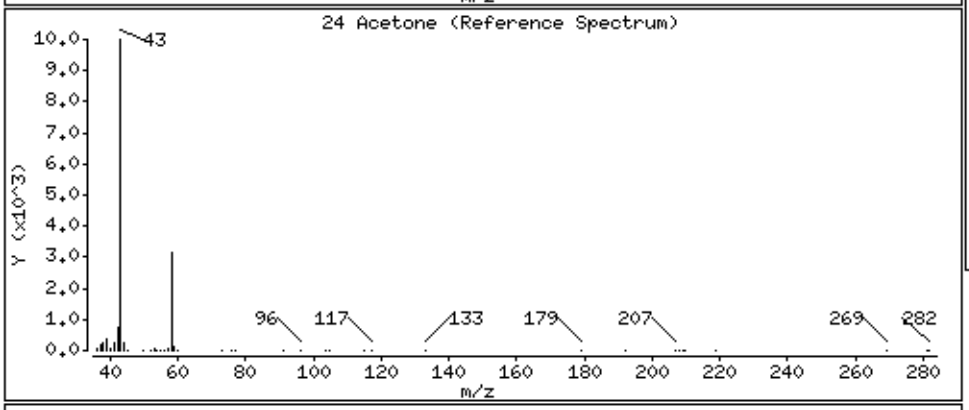
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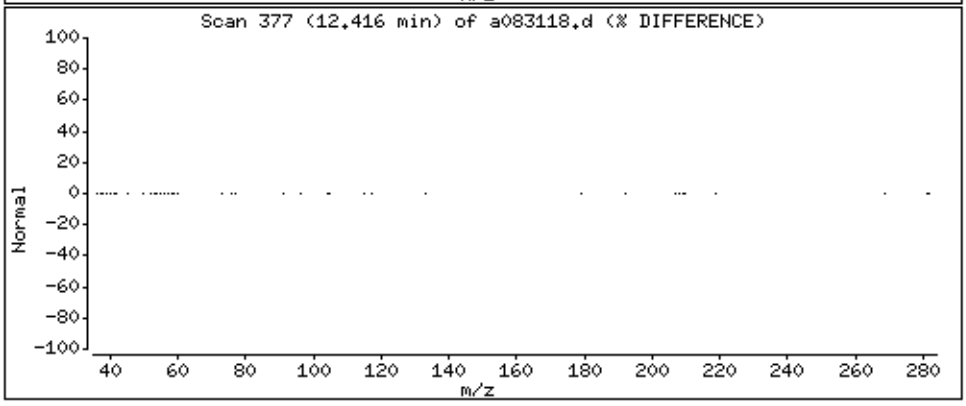
24 Acetone

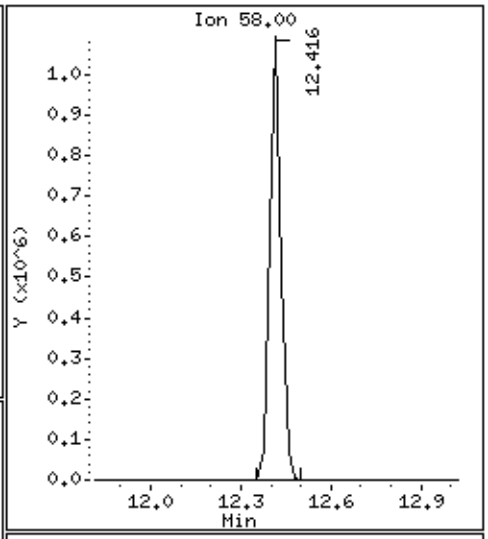
Concentration: 452.21 PPBV

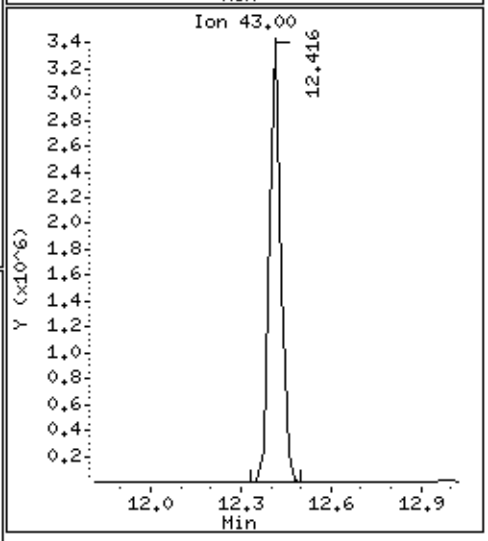


Data File: /chem/msda.i/31Aug2011.b/a083118.d

Date : 31-AUG-2011 21:18

Client ID:

Instrument: msda.i

Sample Info: 125mL #95611

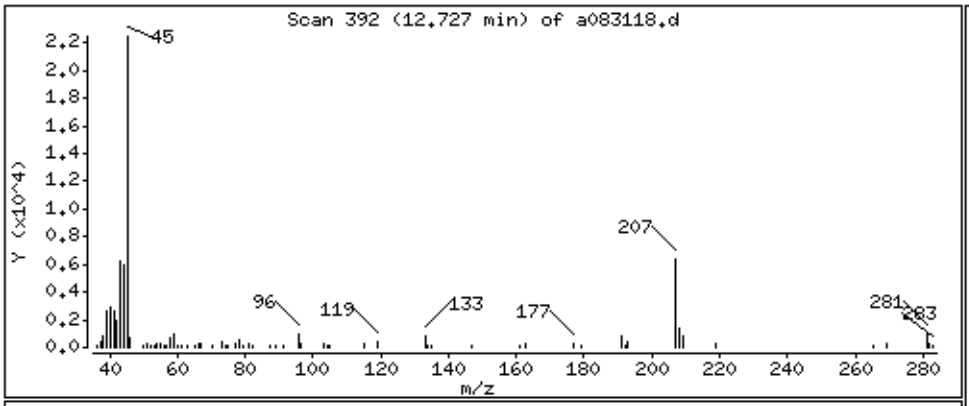
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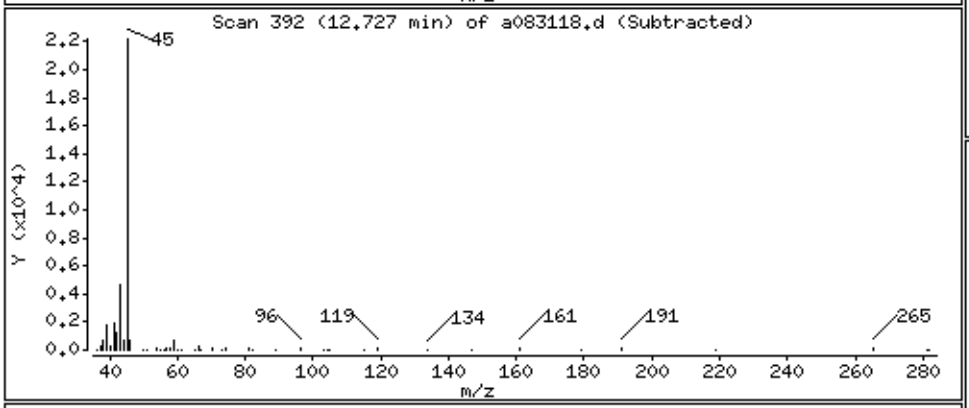
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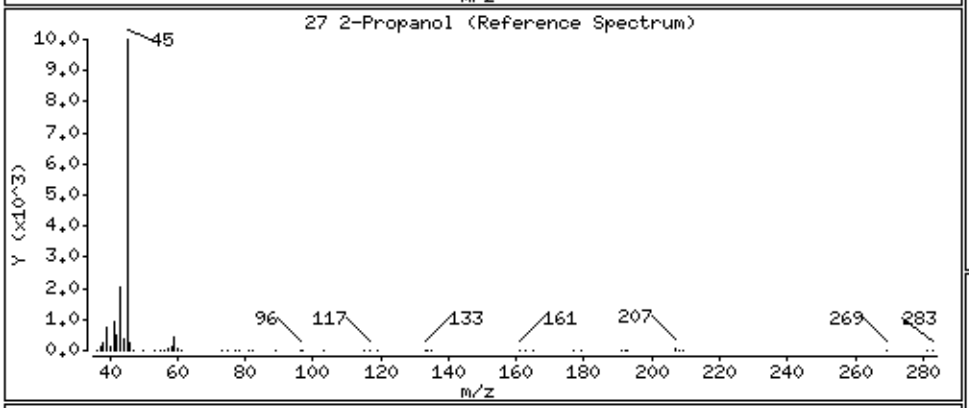
Column diameter: 0.32

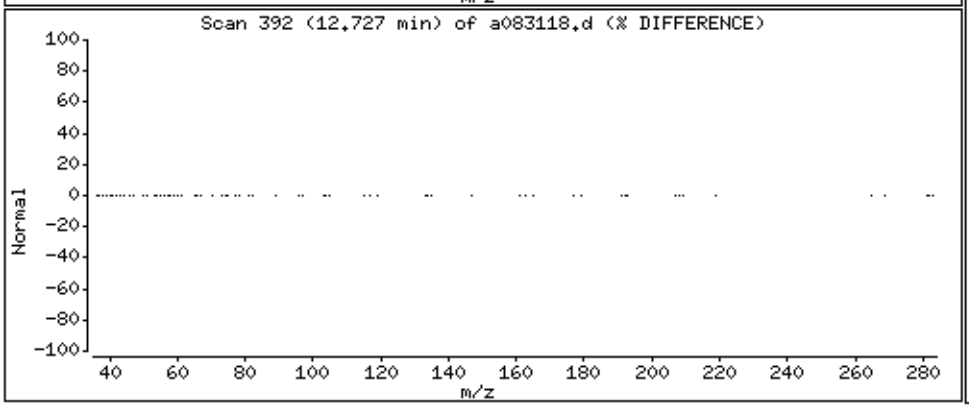
27 2-Propanol

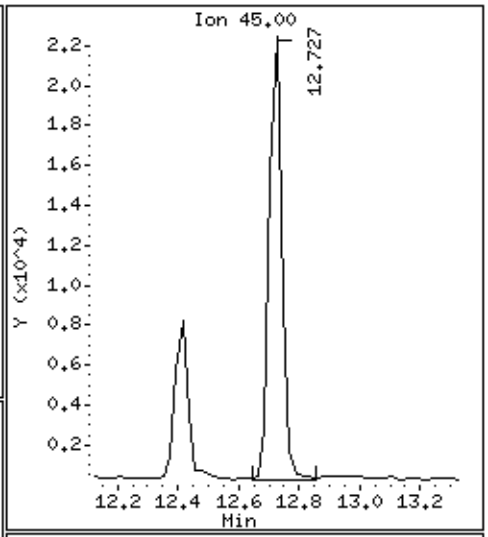
Concentration: 2.734 PPBV

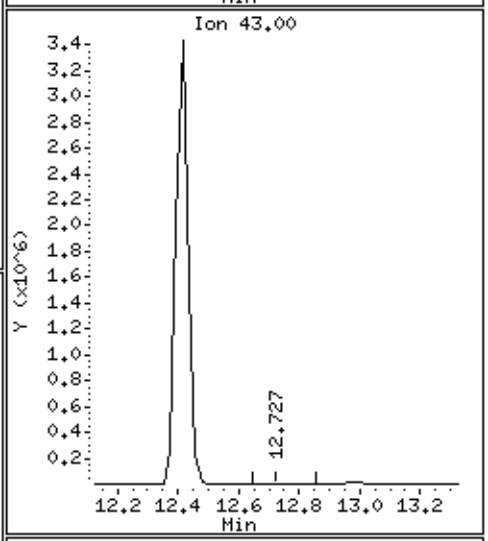


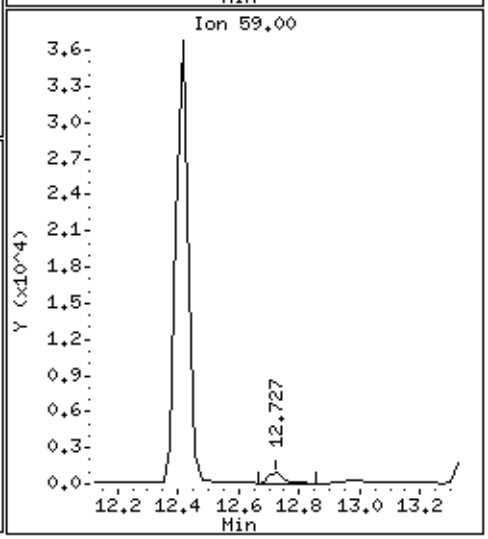



Data File: /chem/msda.i/31Aug2011.b/a083118.d

Date : 31-AUG-2011 21:18

Client ID:

Instrument: msda.i

Sample Info: 125mL #95611

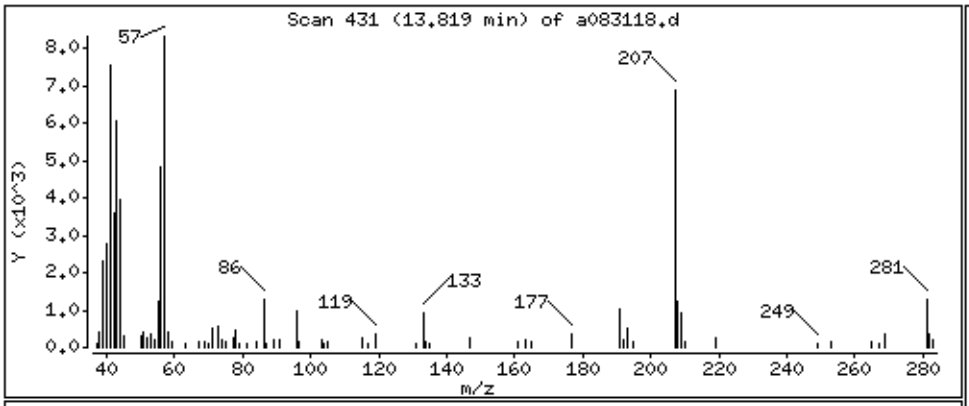
Operator: jc

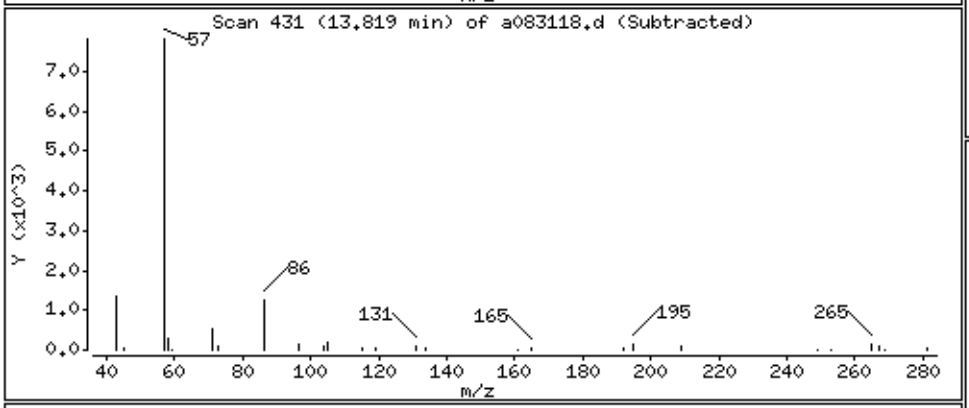
Column phase: RTx-624

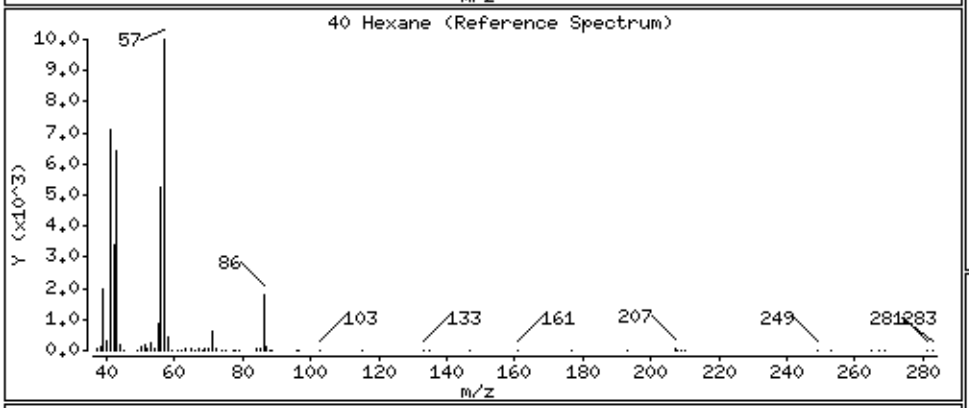
Column diameter: 0.32

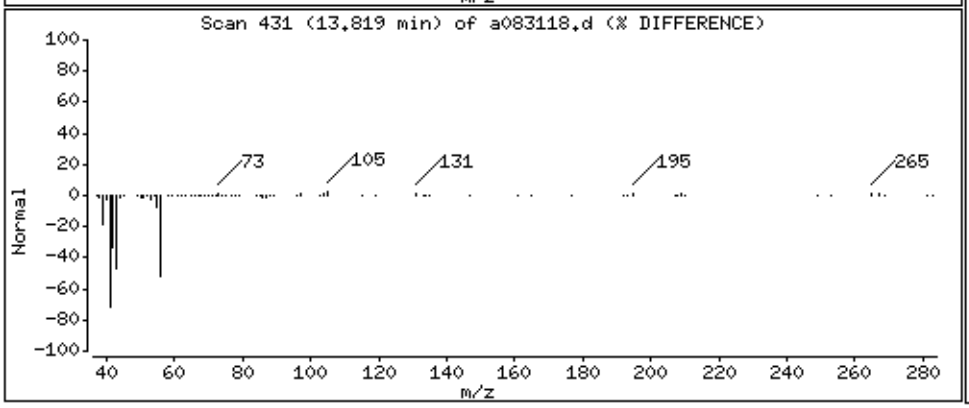
40 Hexane

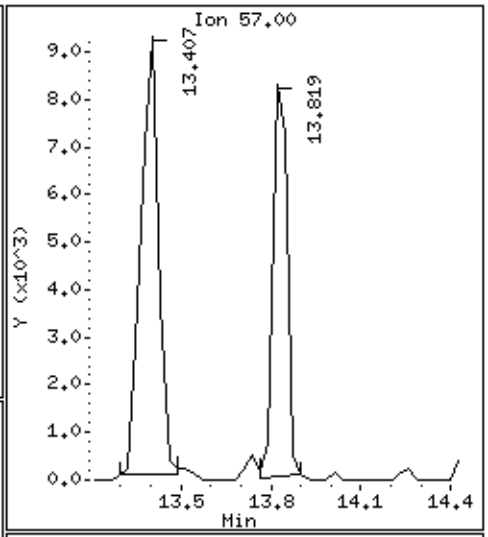
Concentration: 1.105 PPBV

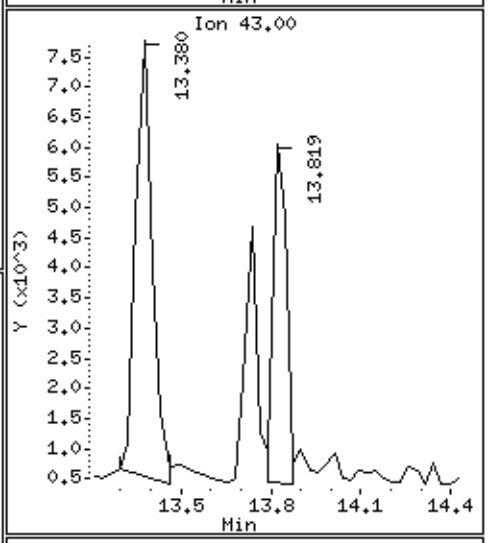


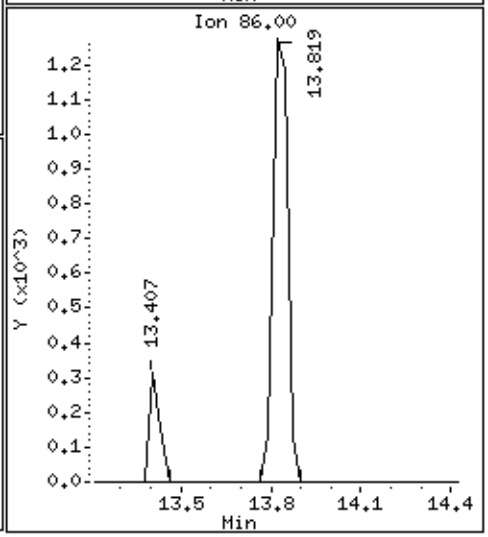



Data File: /chem/msda.i/31Aug2011.b/a083118.d

Date : 31-AUG-2011 21:18

Client ID:

Instrument: msda.i

Sample Info: 125mL #95611

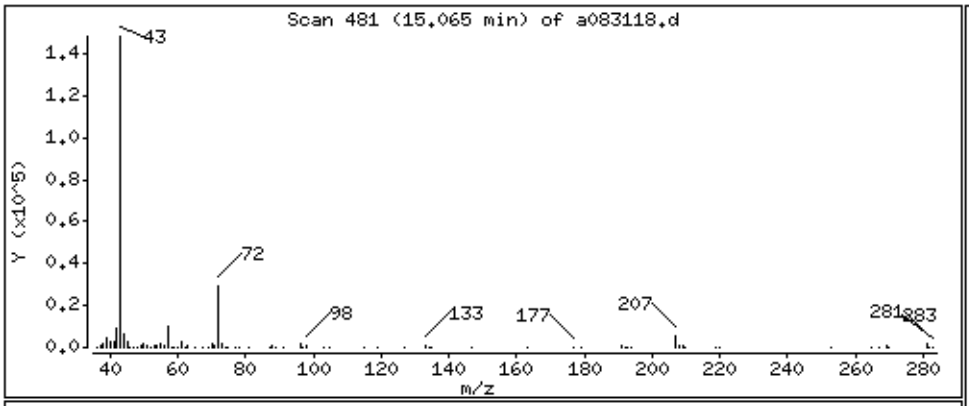
Operator: jc

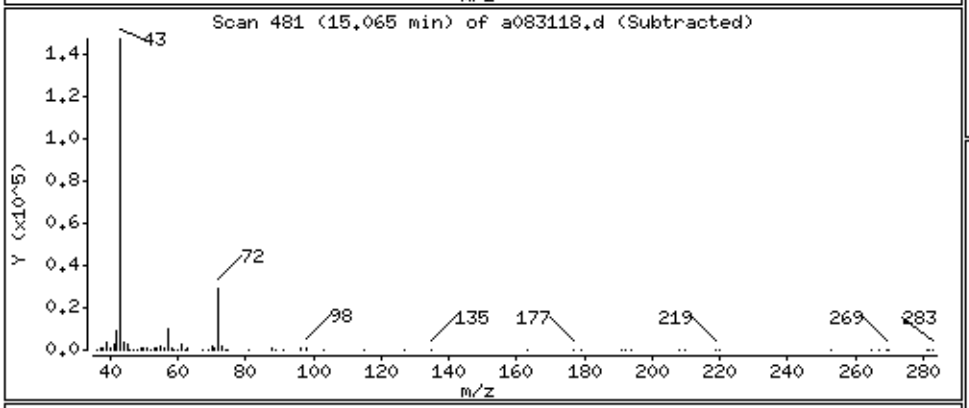
Column phase: RTx-624

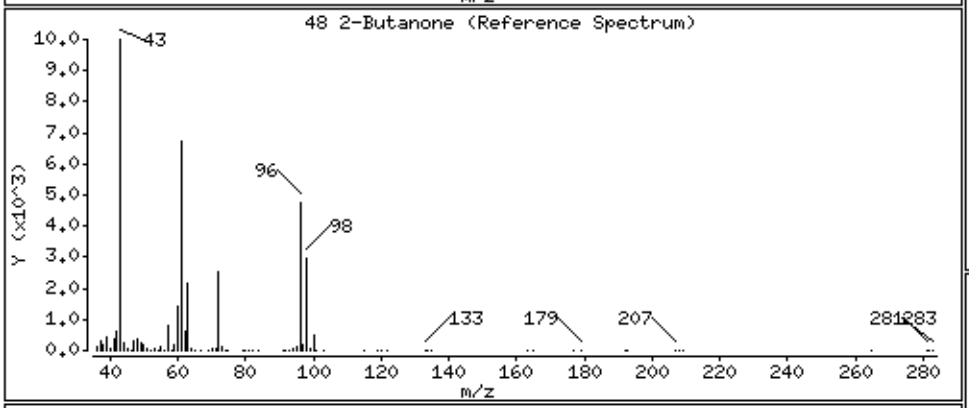
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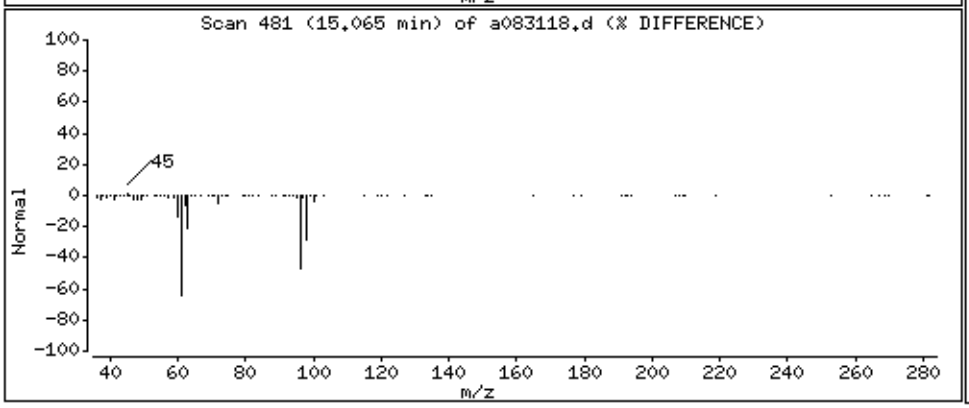
48 2-Butanone

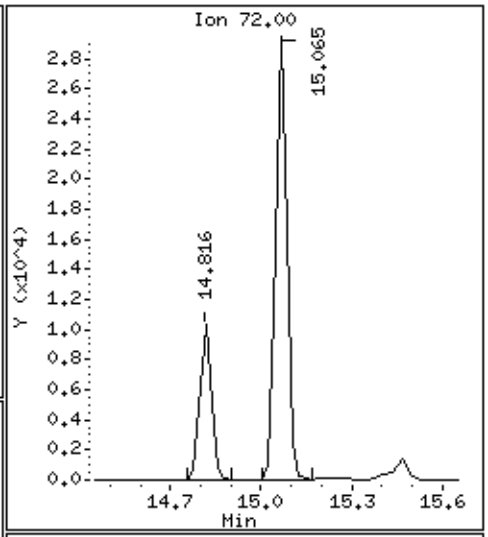
Concentration: 10.225 PPBV

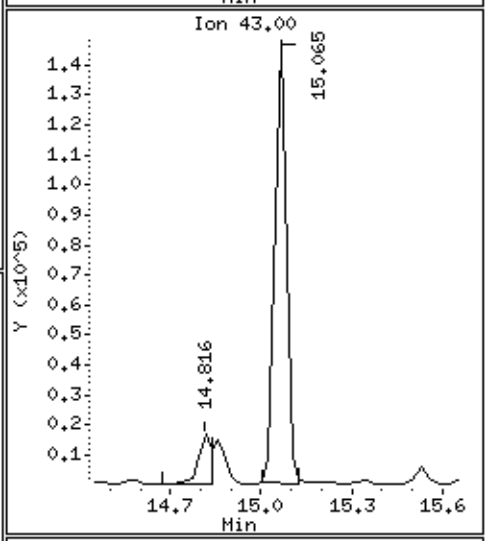


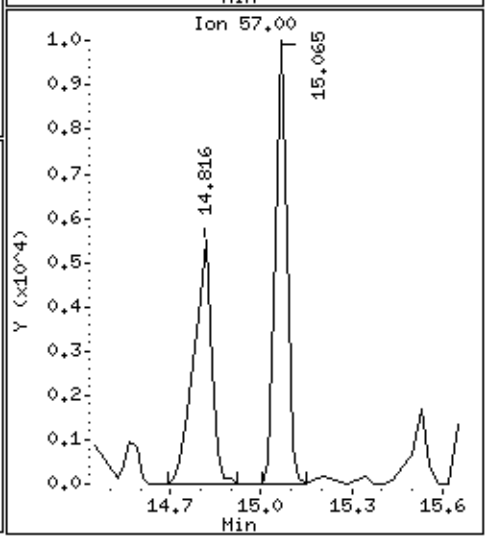



Data File: /chem/msda.i/31Aug2011.b/a083118.d

Date : 31-AUG-2011 21:18

Client ID:

Instrument: msda.i

Sample Info: 125mL #95611

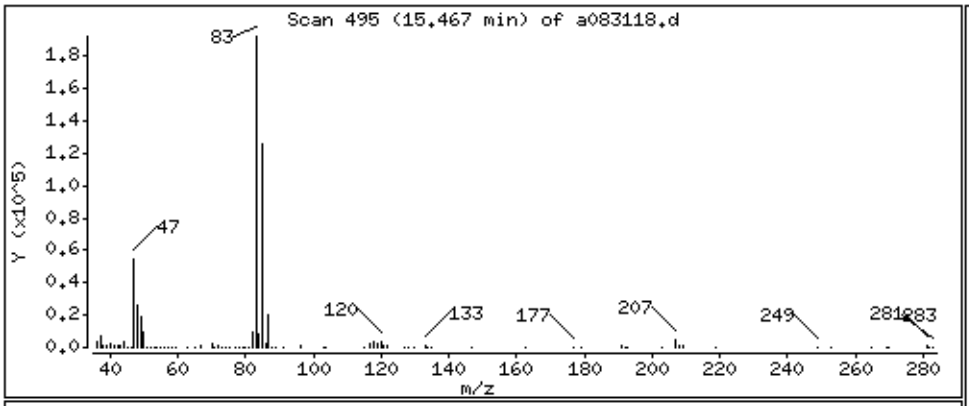
Operator: jc

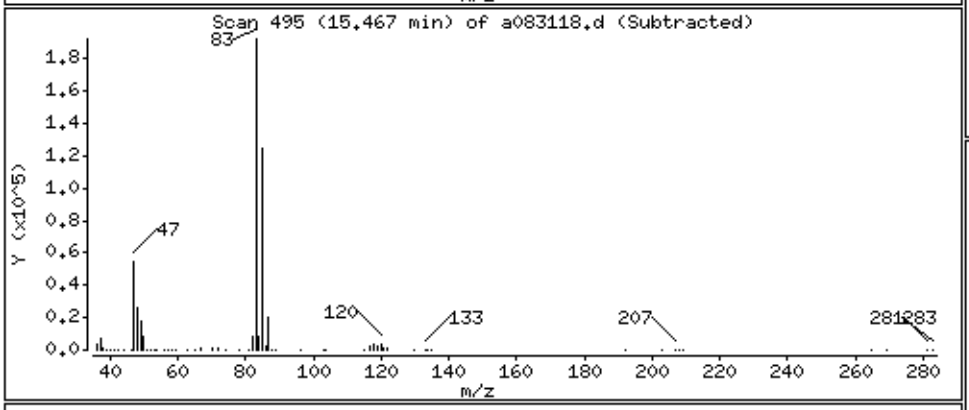
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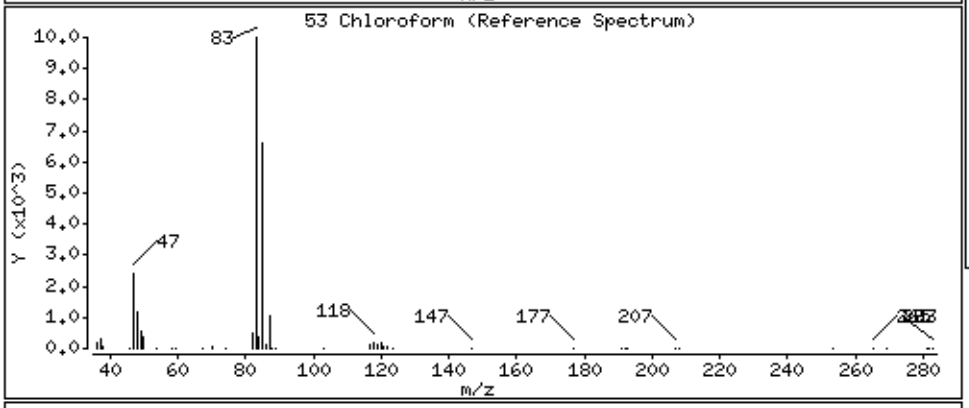
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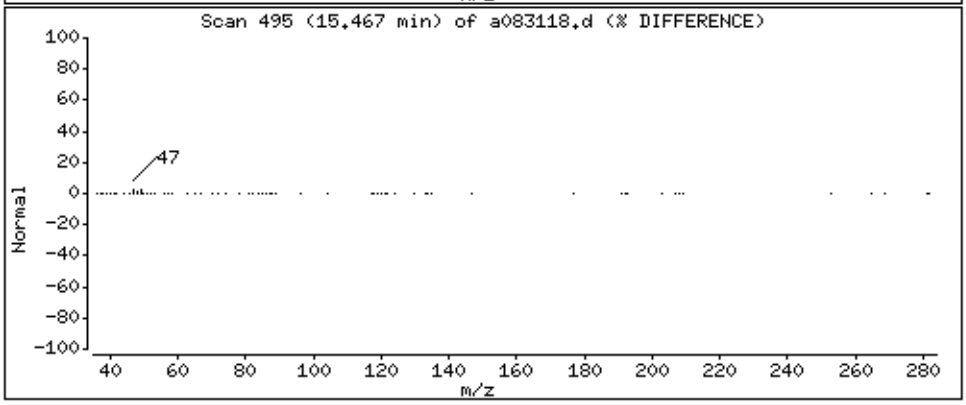
53 Chloroform

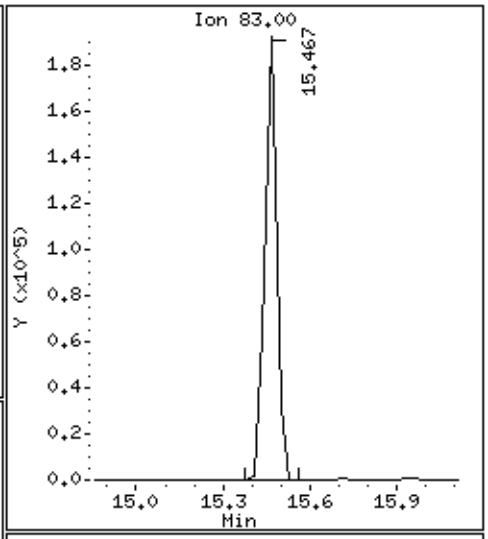
Concentration: 18.891 PPBV

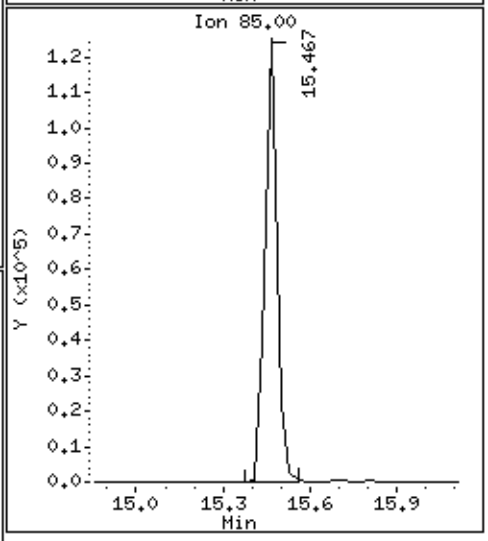


Data File: /chem/msda.i/31Aug2011.b/a083118.d

Date : 31-AUG-2011 21:18

Client ID:

Instrument: msda.i

Sample Info: 125mL #95611

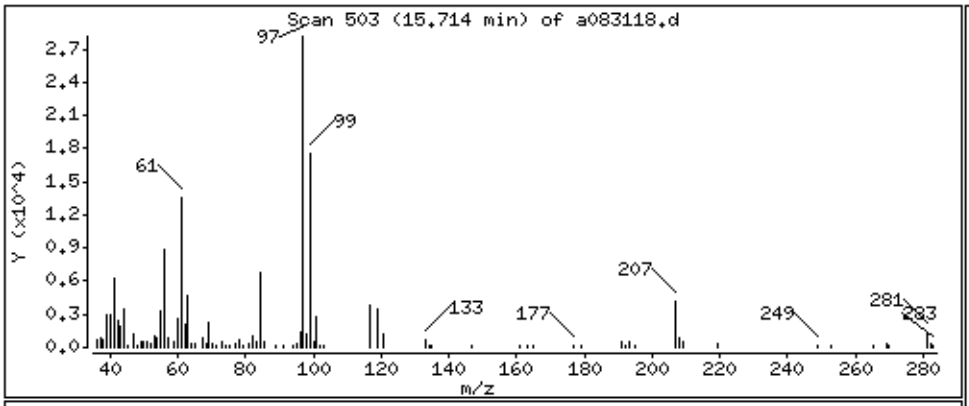
Operator: jc

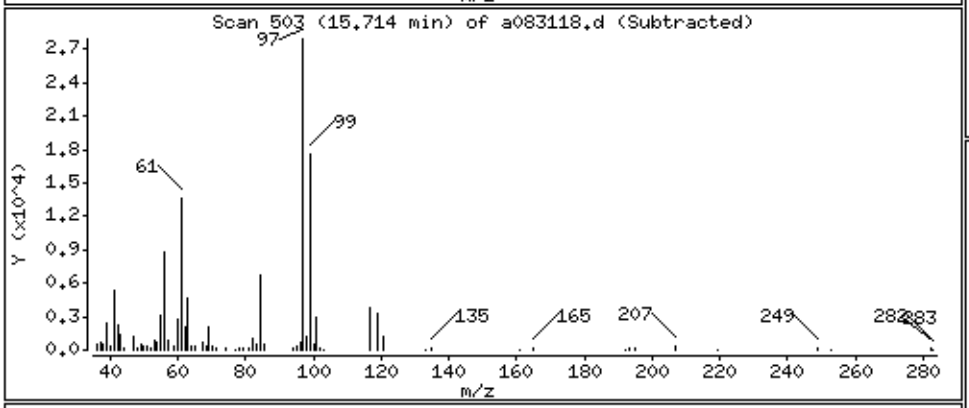
Column phase: RTx-624

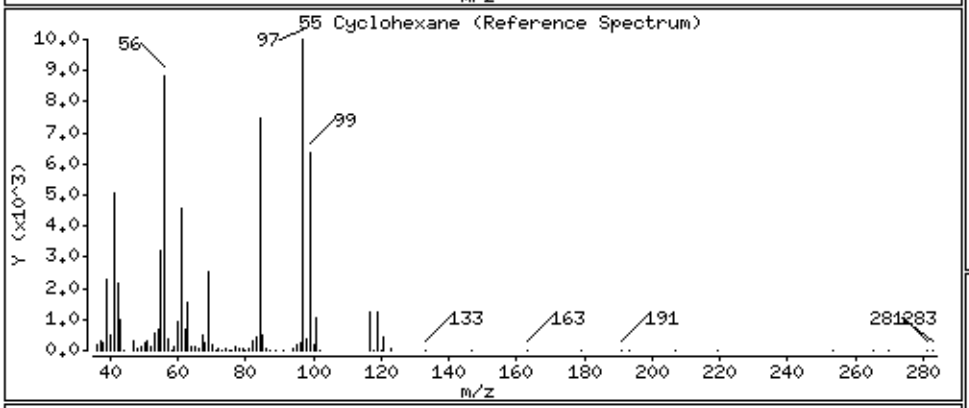
Column diameter: 0.32

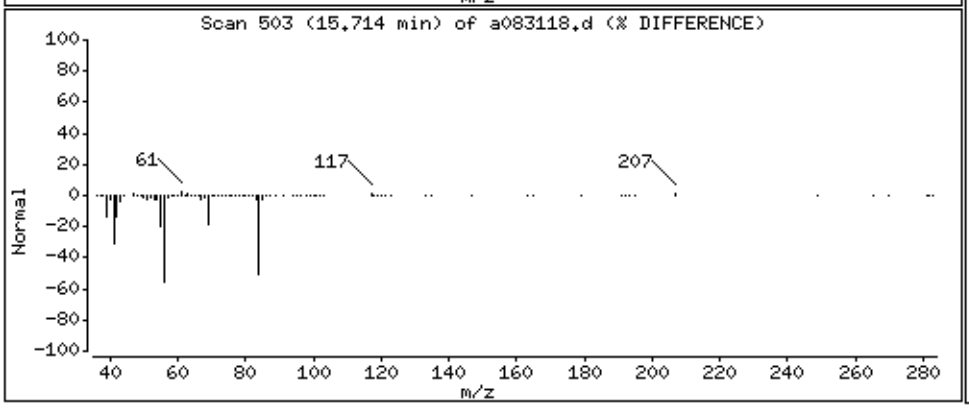
55 Cyclohexane

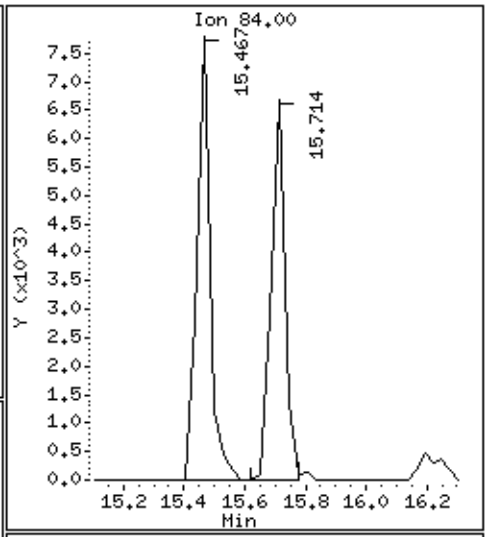
Concentration: 0.9886 PPBV

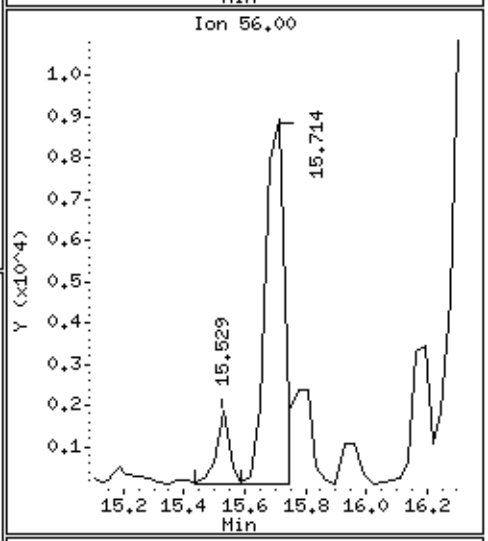


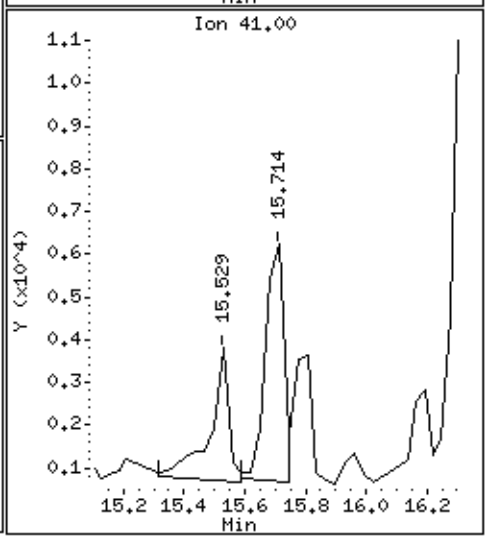



Data File: /chem/msda.i/31Aug2011.b/a083118.d

Date : 31-AUG-2011 21:18

Client ID:

Instrument: msda.i

Sample Info: 125mL #95611

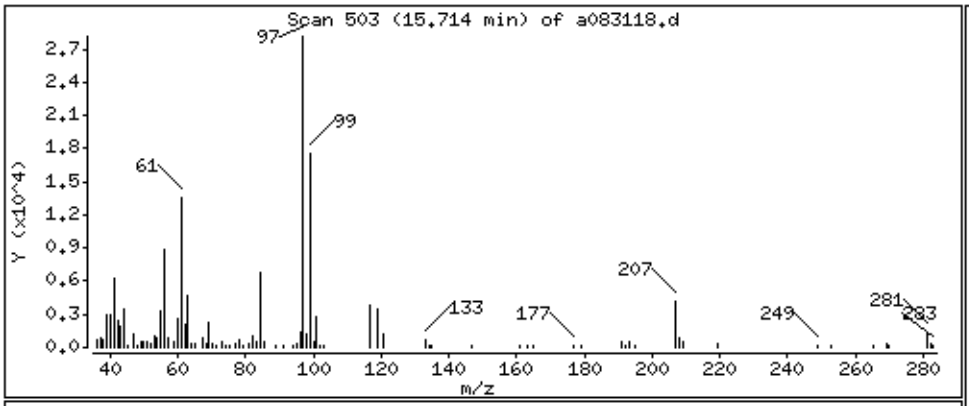
Operator: jc

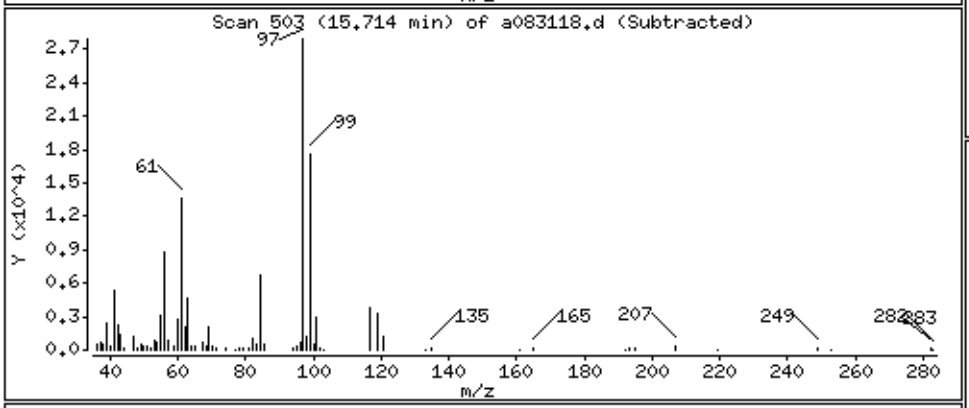
Column phase: RTx-624

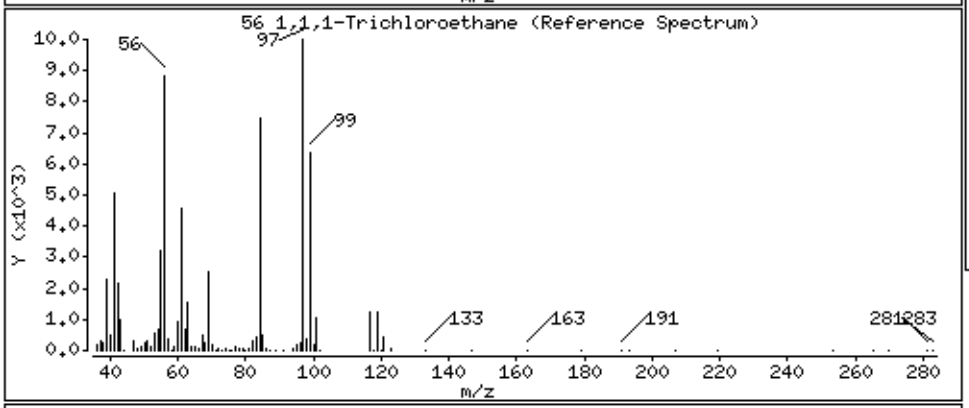
Column diameter: 0.32

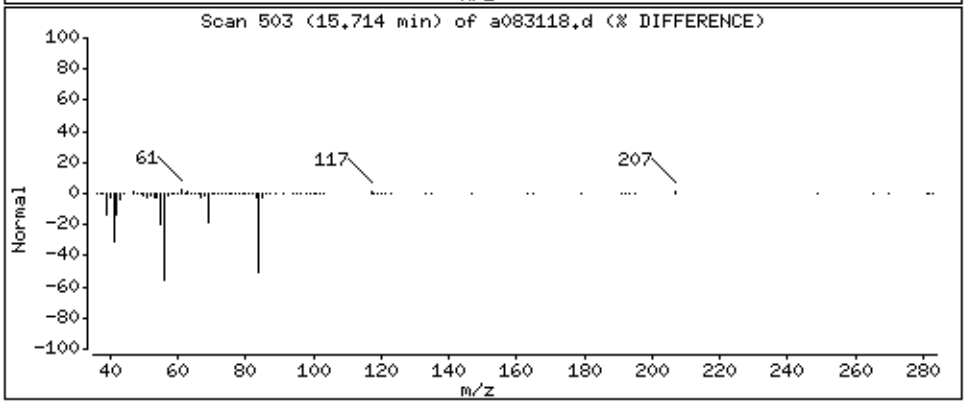
56 1,1,1-Trichloroethane

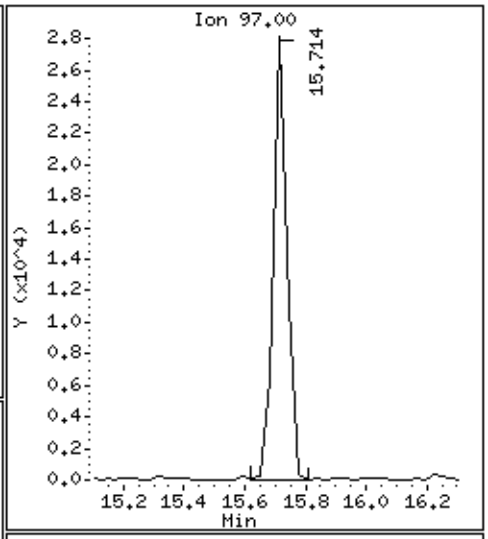
Concentration: 2.838 PPBV

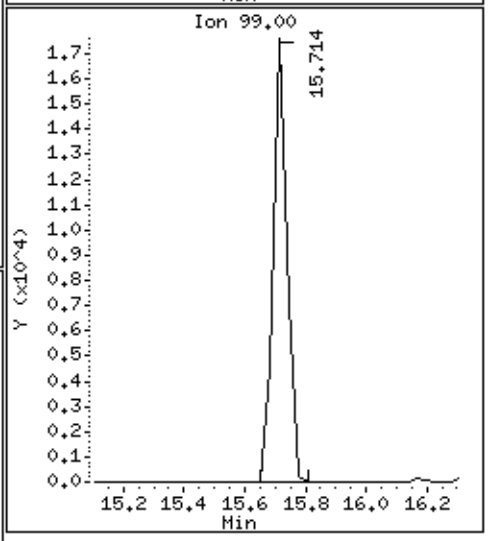


Data File: /chem/msda.i/31Aug2011.b/a083118.d

Date : 31-AUG-2011 21:18

Client ID:

Instrument: msda.i

Sample Info: 125mL #95611

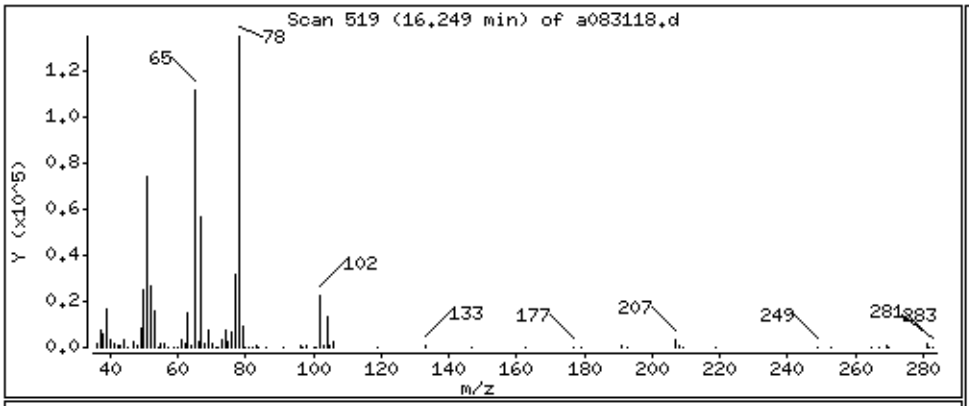
Operator: jc

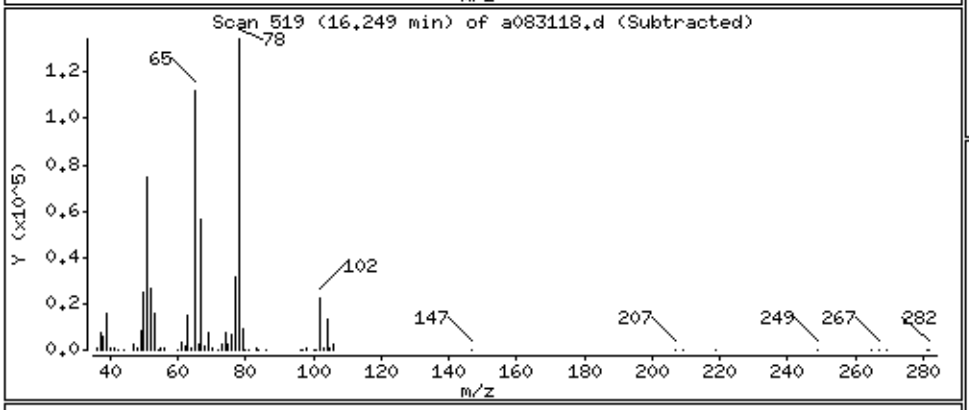
Column phase: RTx-624

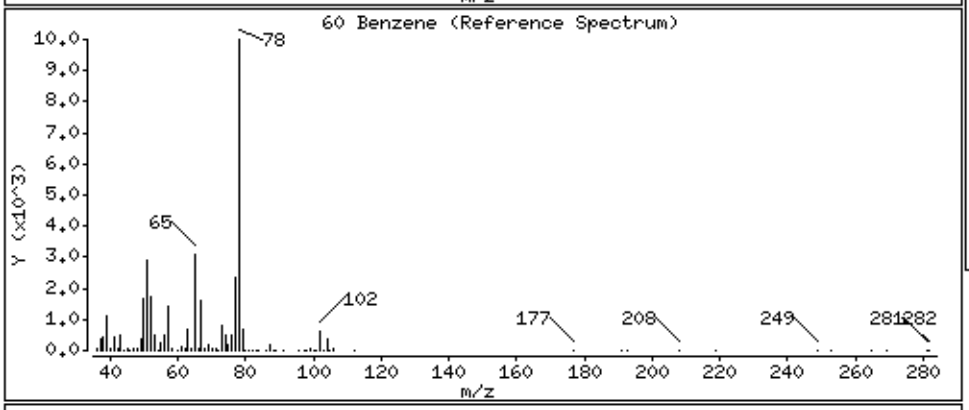
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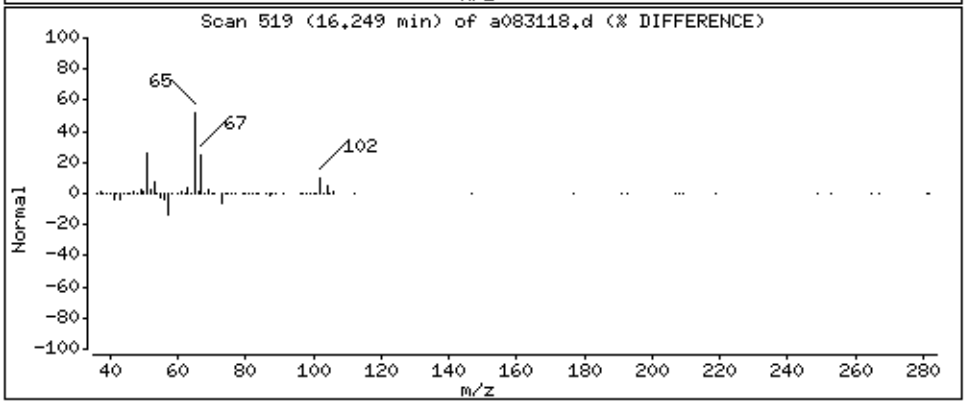
60 Benzene

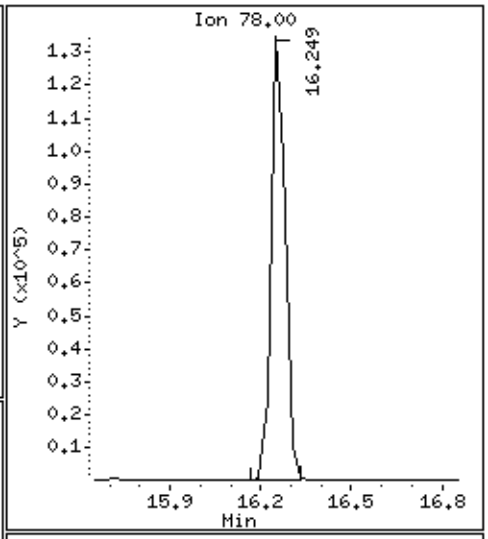
Concentration: 9.459 PPBV

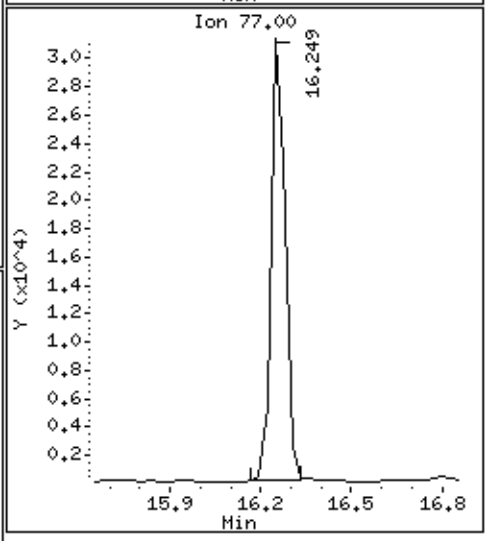


Data File: /chem/msda.i/31Aug2011.b/a083118.d

Date : 31-AUG-2011 21:18

Client ID:

Instrument: msda.i

Sample Info: 125mL #95611

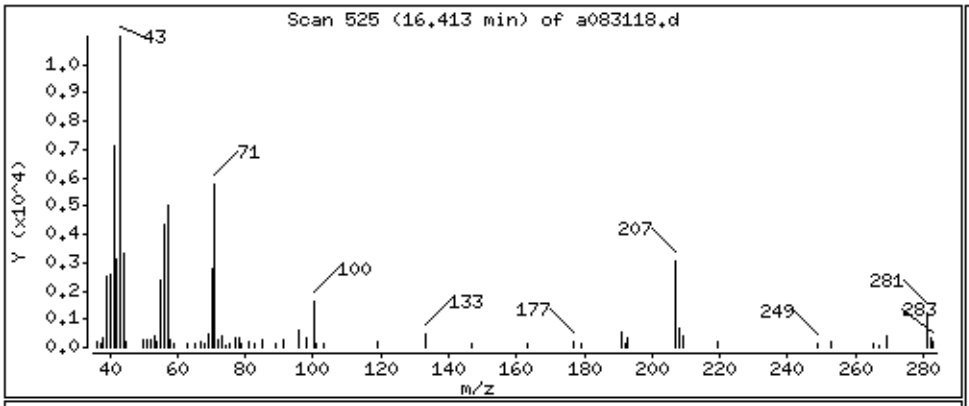
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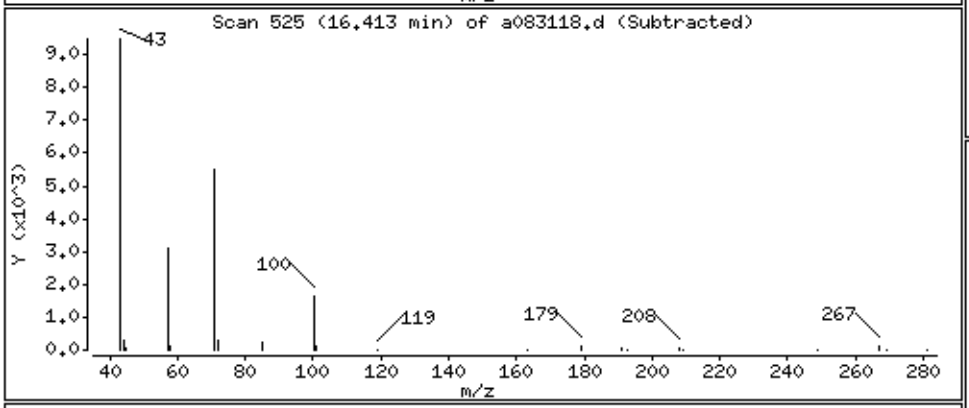
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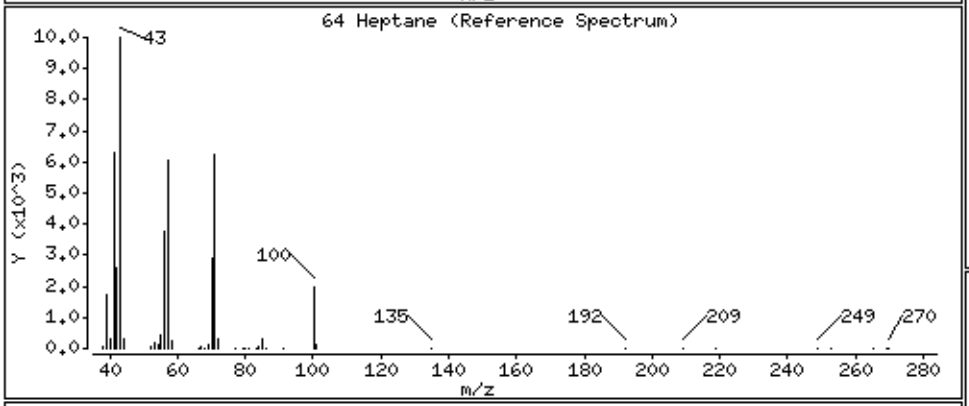
Column diameter: 0.32

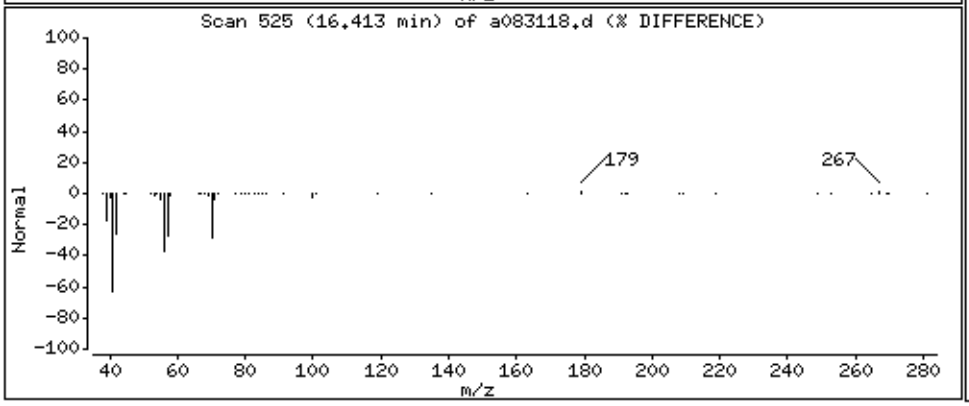
64 Heptane

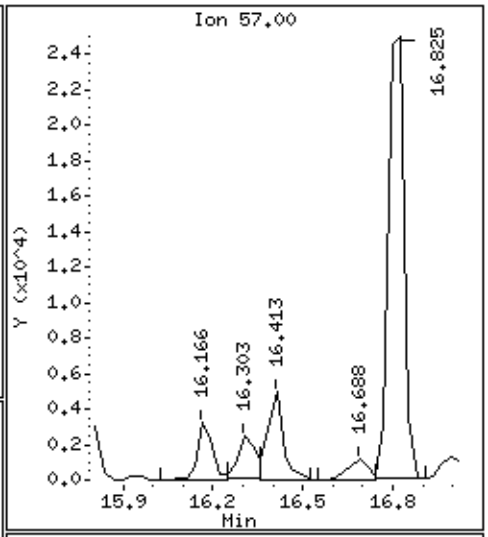
Concentration: 1.196 PPBV

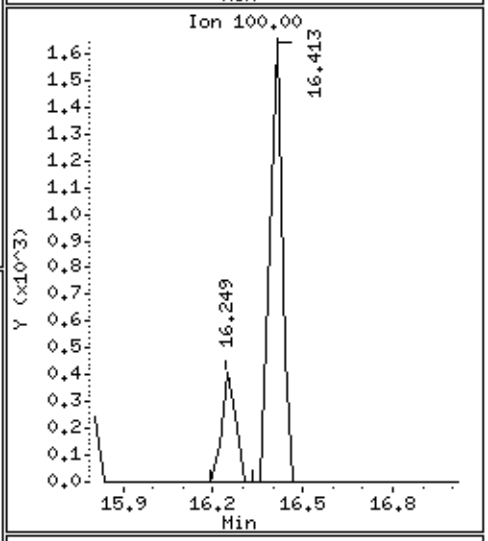


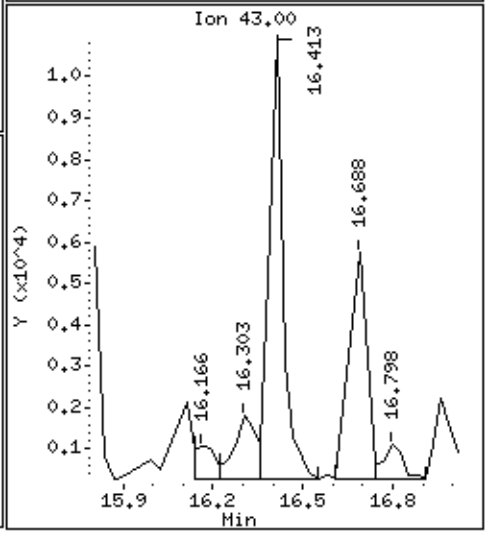



Data File: /chem/msda.i/31Aug2011.b/a083118.d

Date : 31-AUG-2011 21:18

Client ID:

Instrument: msda.i

Sample Info: 125mL #95611

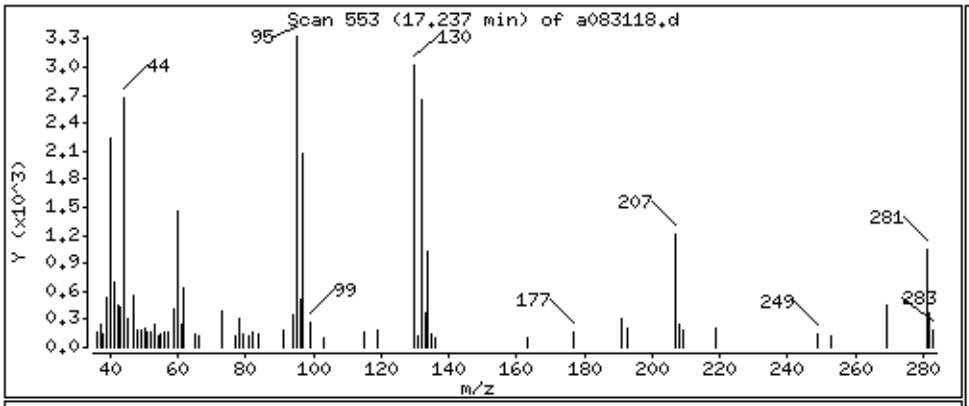
Operator: jc

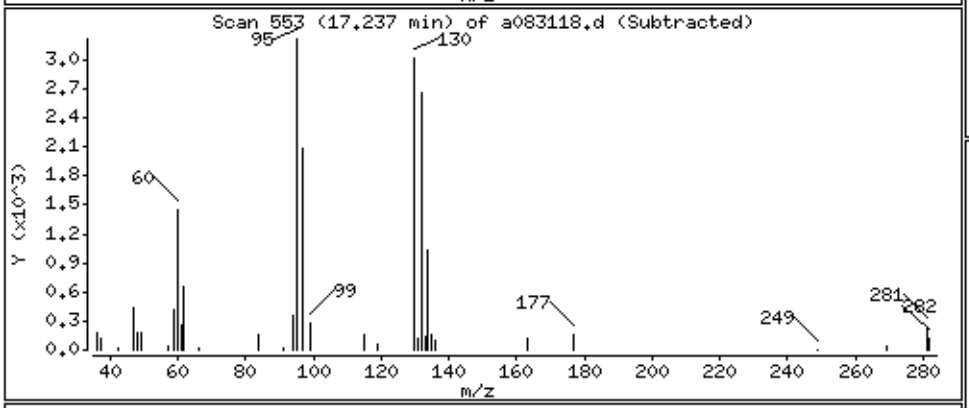
Column phase: RTx-624

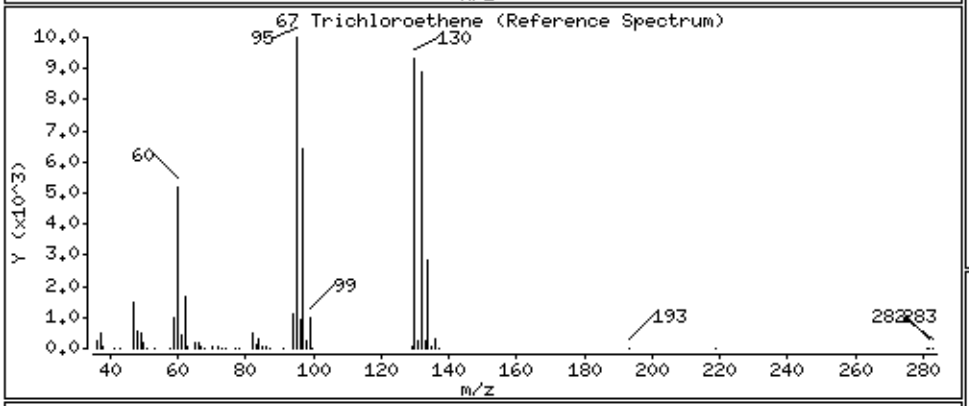
Column diameter: 0.32

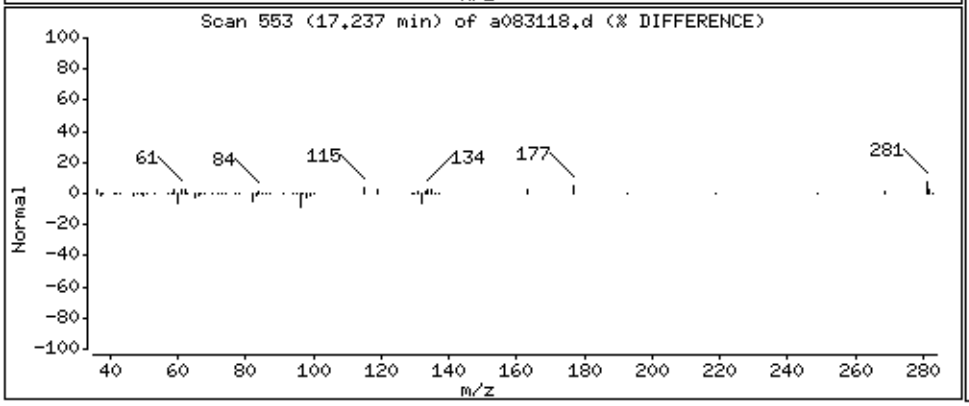
67 Trichloroethene

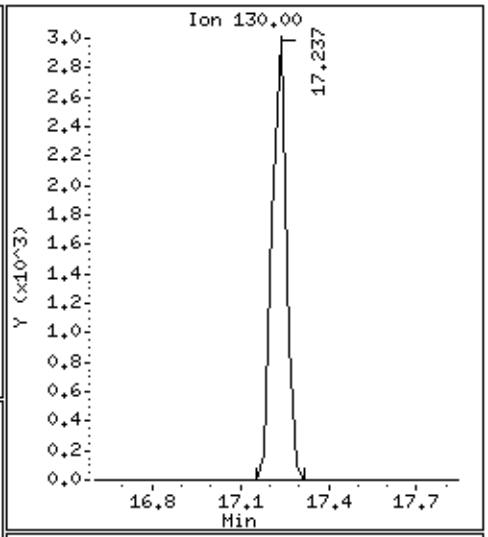
Concentration: 0.4975 PPBV

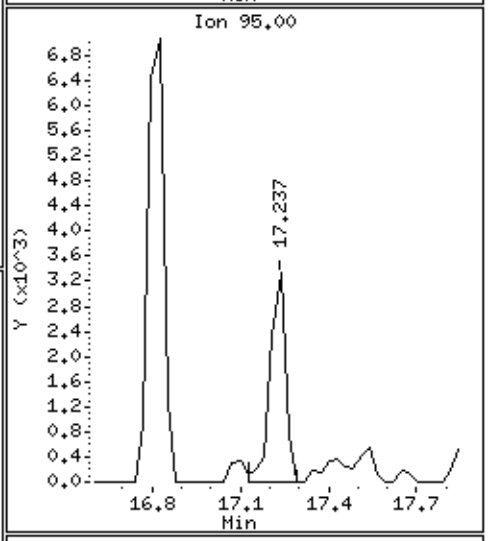


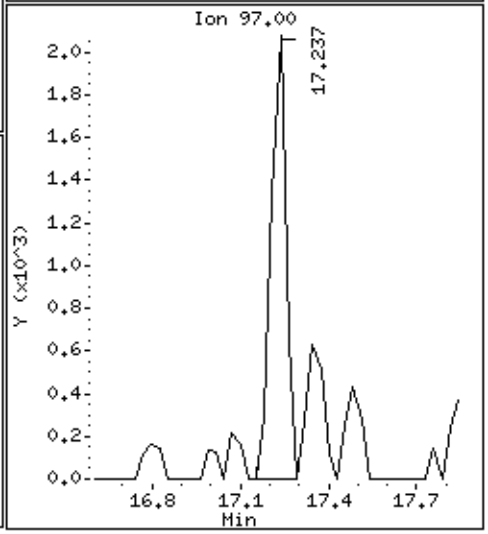



Data File: /chem/msda.i/31Aug2011.b/a083118.d

Date : 31-AUG-2011 21:18

Client ID:

Instrument: msda.i

Sample Info: 125mL #95611

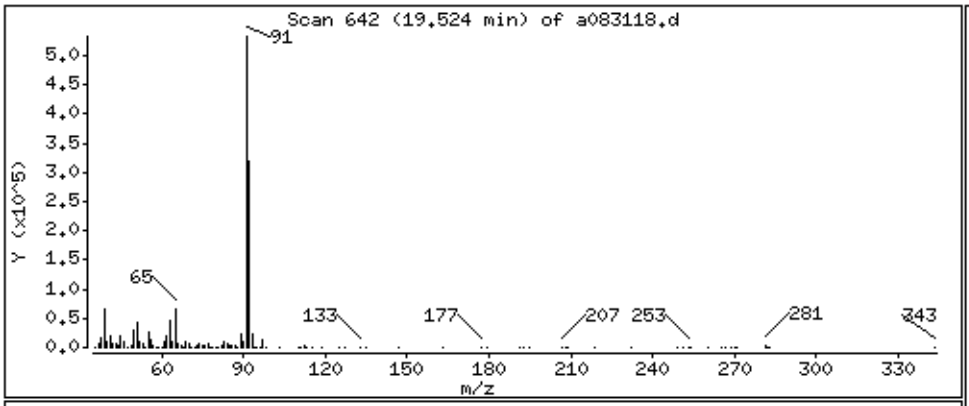
Operator: jc

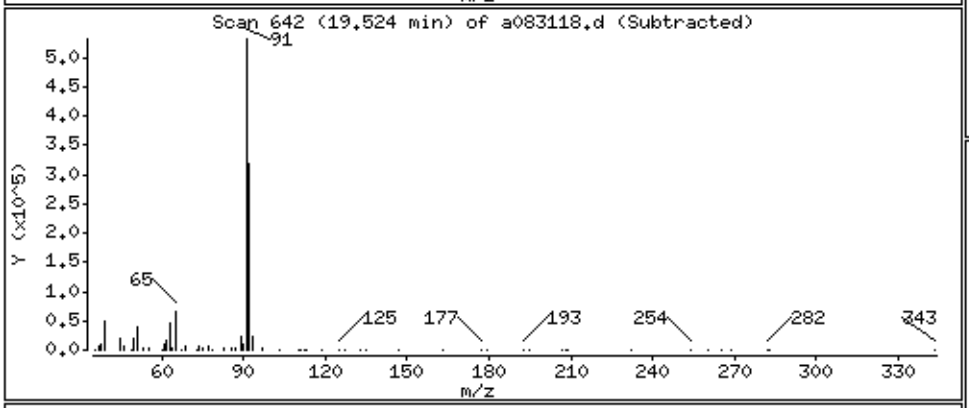
Column phase: RTx-624

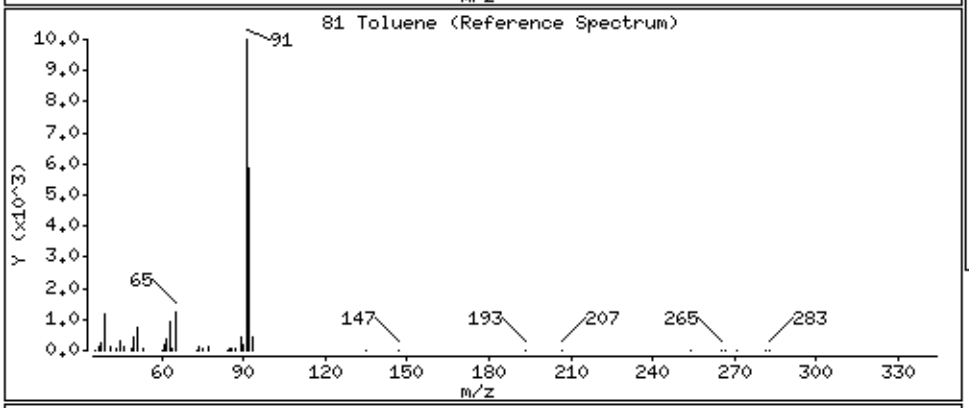
Column diameter: 0.32

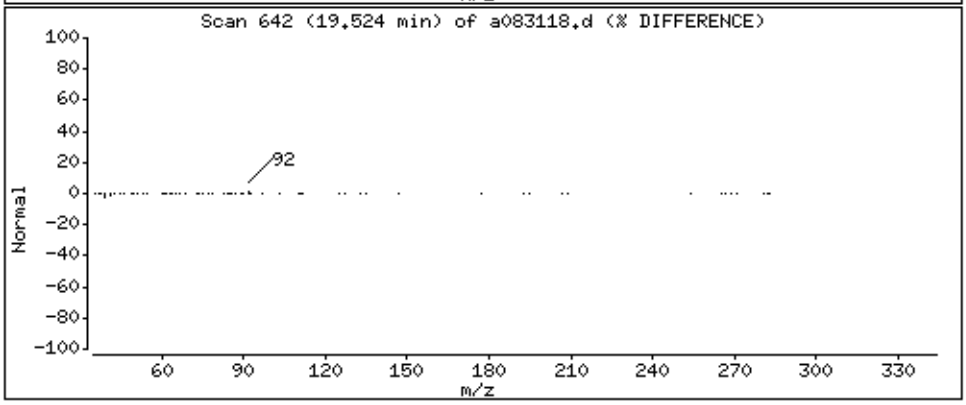
81 Toluene

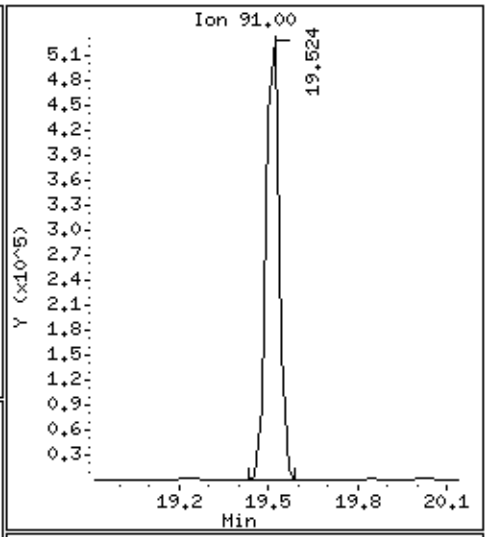
Concentration: 31.044 PPBV

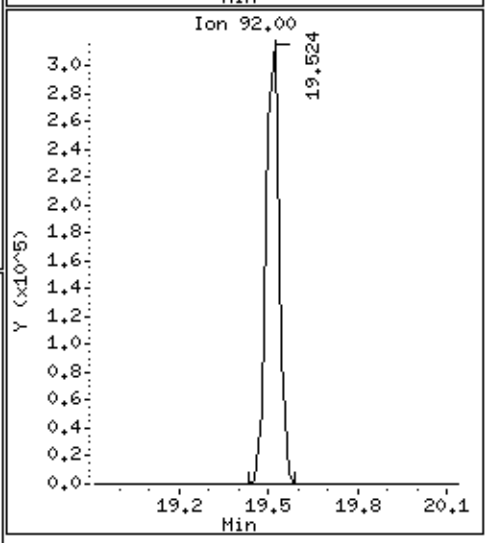


Data File: /chem/msda.i/31Aug2011.b/a083118.d

Date : 31-AUG-2011 21:18

Client ID:

Instrument: msda.i

Sample Info: 125mL #95611

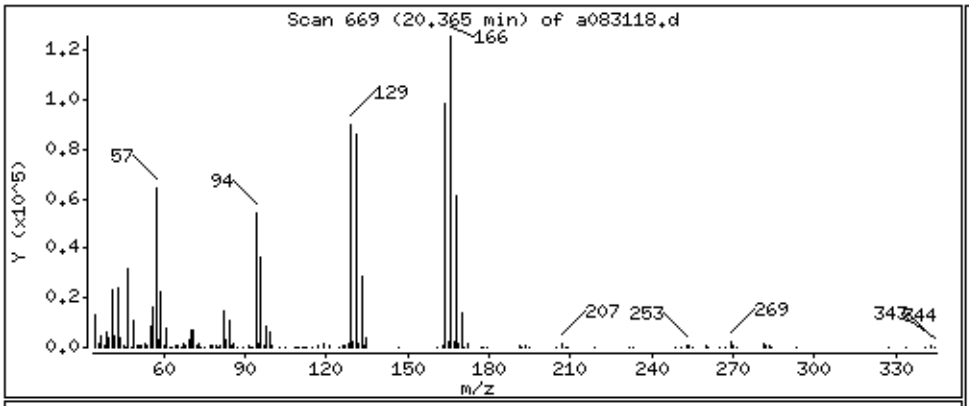
Operator: jc

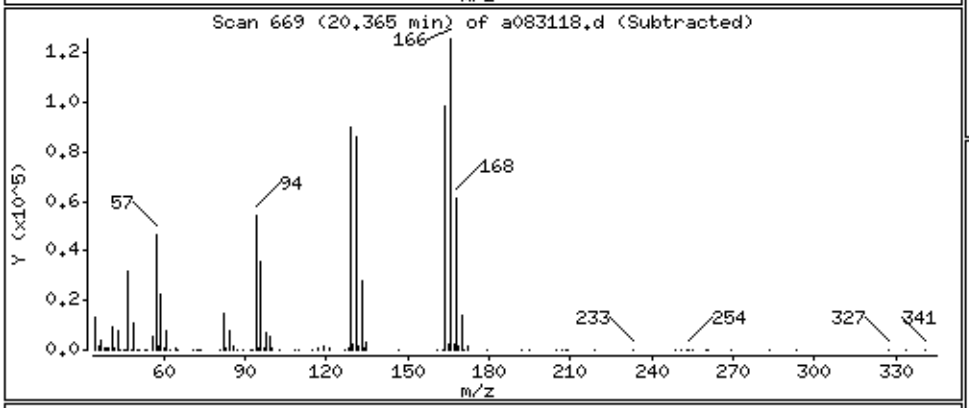
Column phase: RTx-624

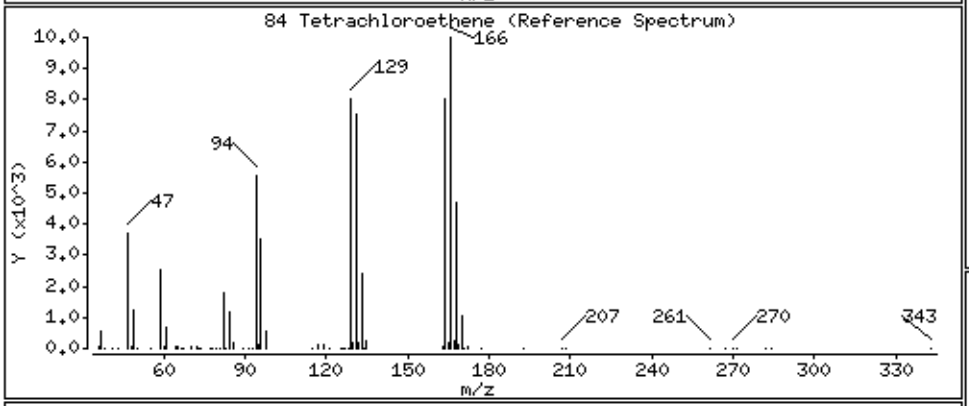
Column diameter: 0.32

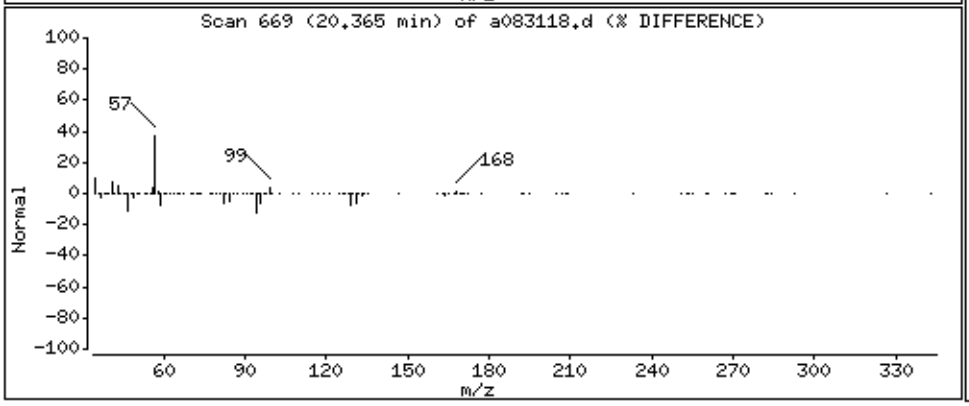
84 Tetrachloroethene

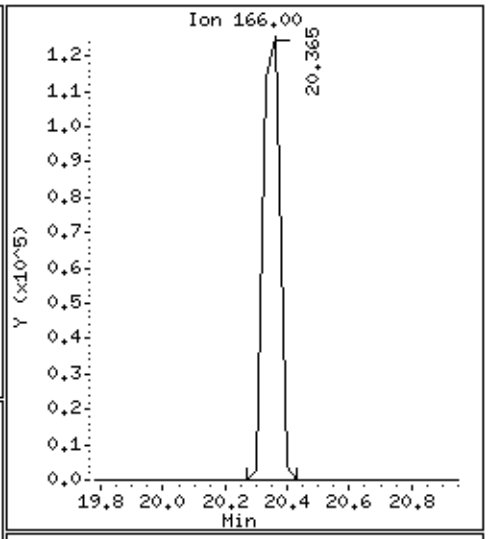
Concentration: 22.372 PPBV

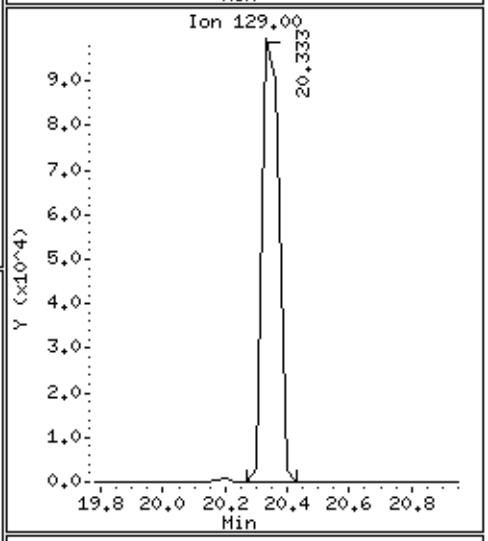


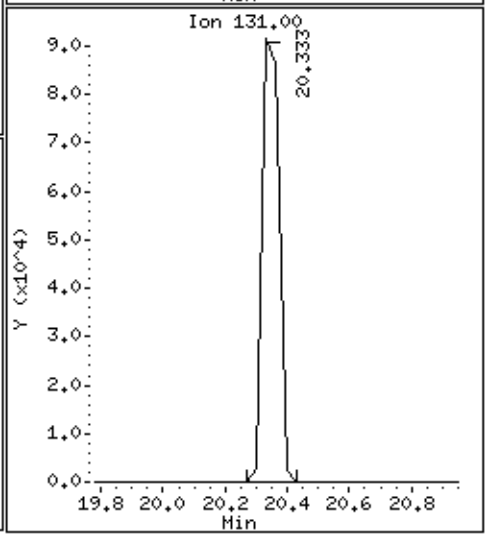



Data File: /chem/msda.i/31Aug2011.b/a083118.d

Date : 31-AUG-2011 21:18

Client ID:

Instrument: msda.i

Sample Info: 125mL #95611

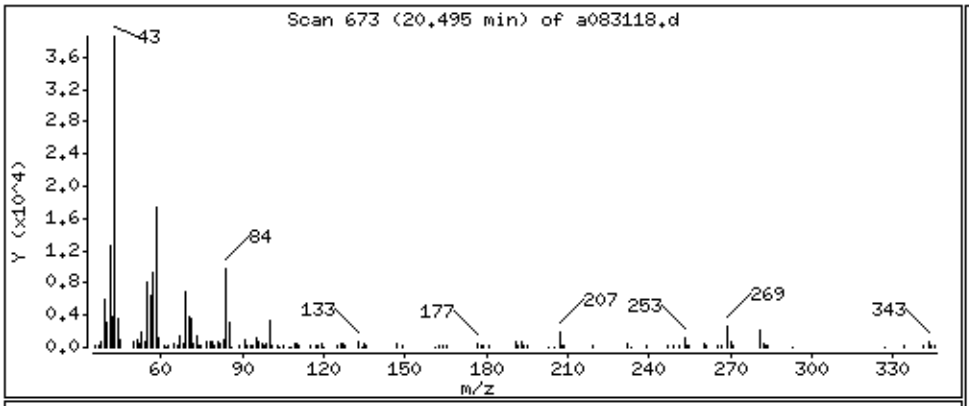
Operator: jc

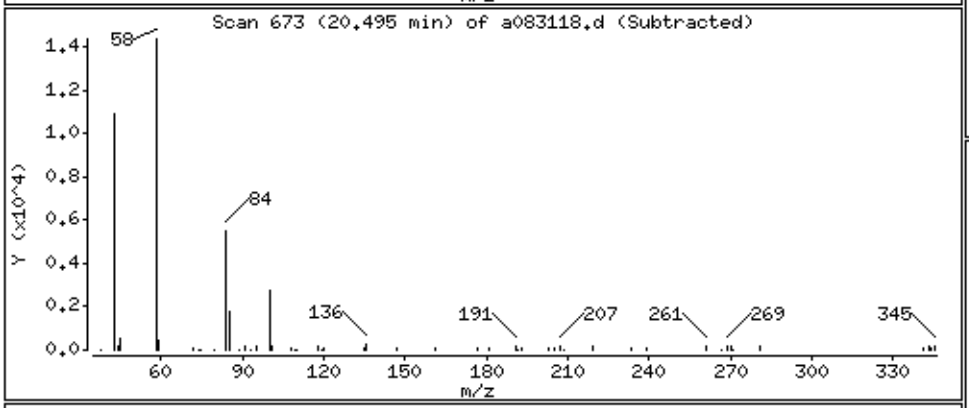
Column phase: RTx-624

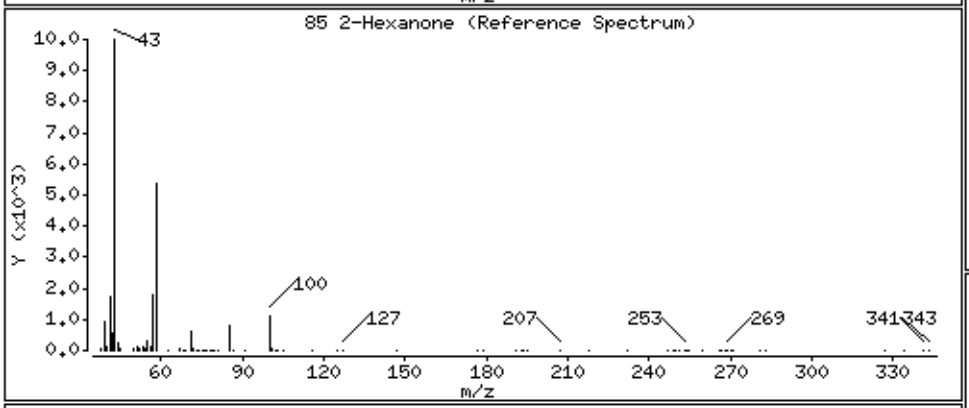
Column diameter: 0.32

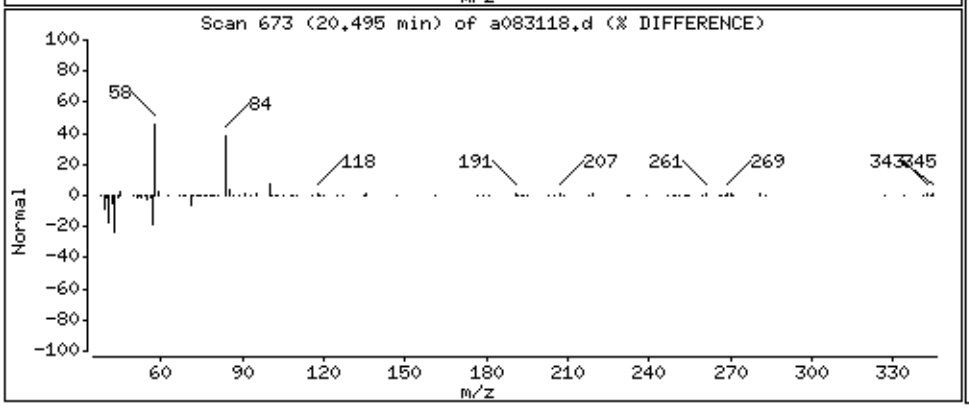
85 2-Hexanone

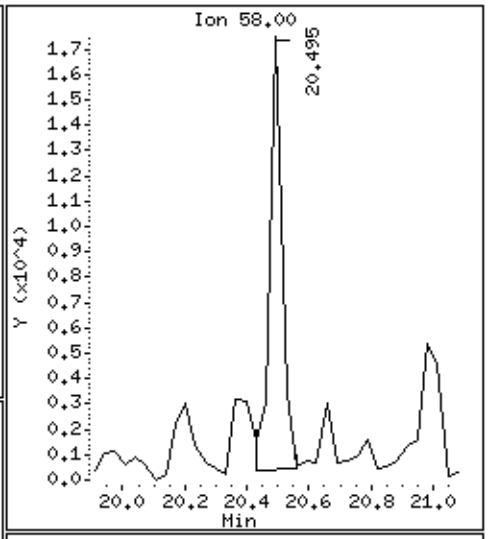
Concentration: 2.498 PPBV

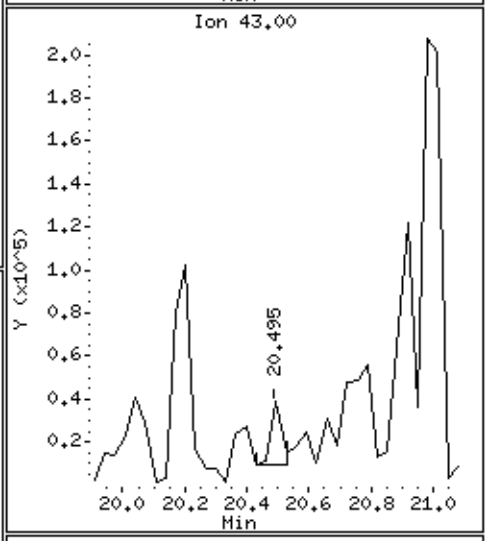


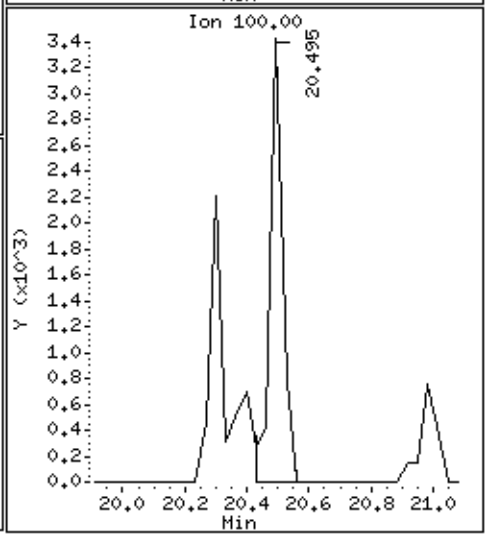



Data File: /chem/msda.i/31Aug2011.b/a083118.d

Date : 31-AUG-2011 21:18

Client ID:

Instrument: msda.i

Sample Info: 125mL #95611

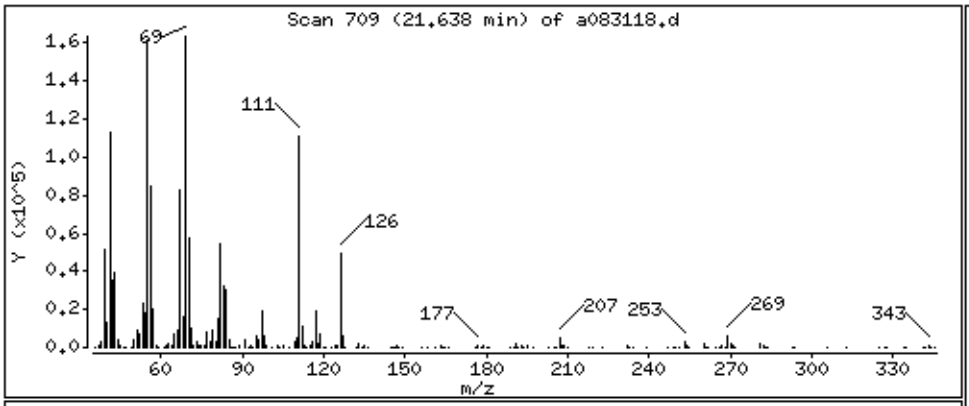
Operator: jc

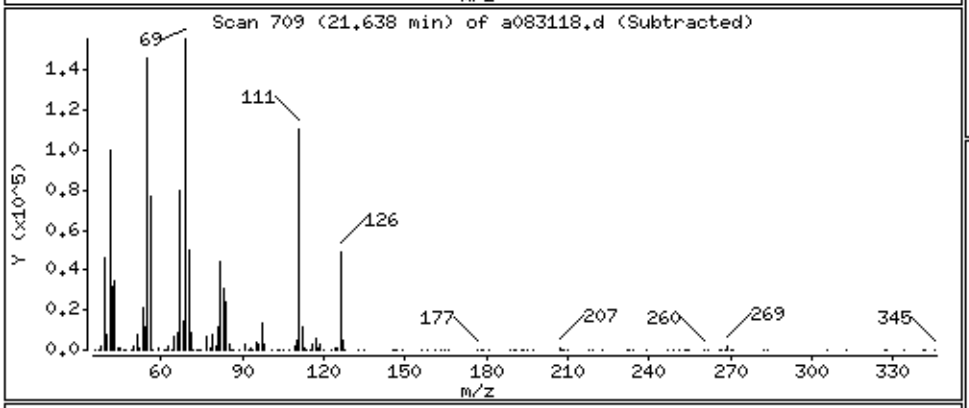
Column phase: RTx-624

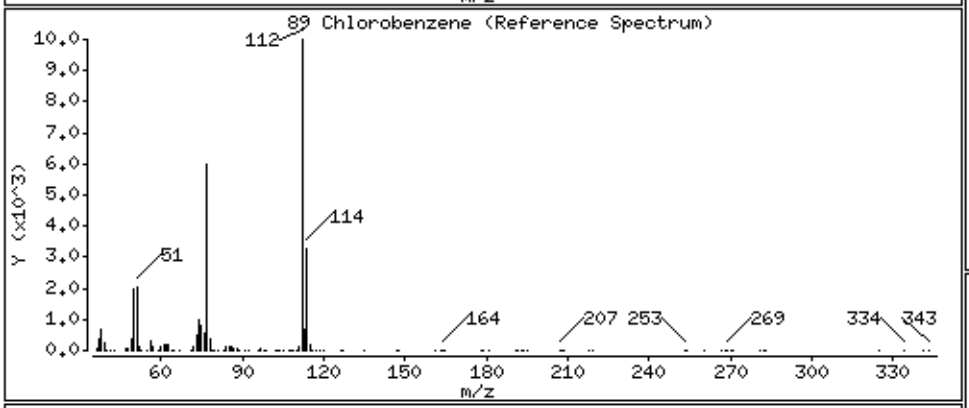
Column diameter: 0.32

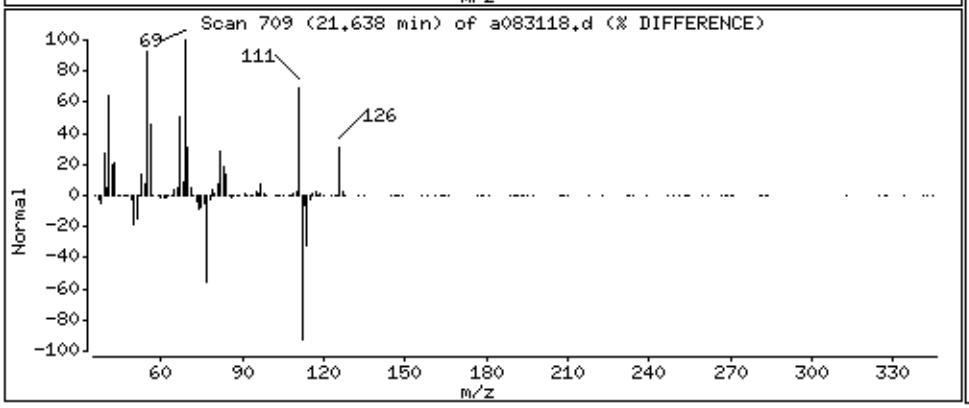
89 Chlorobenzene

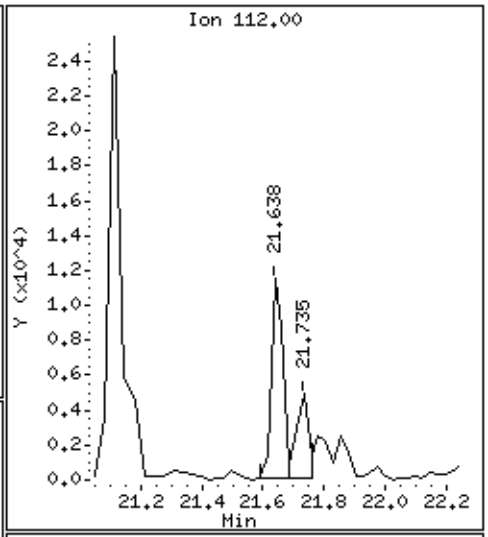
Concentration: 0.8444 PPBV

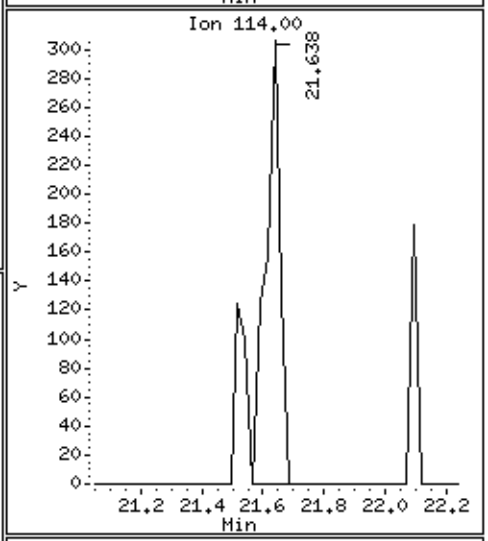


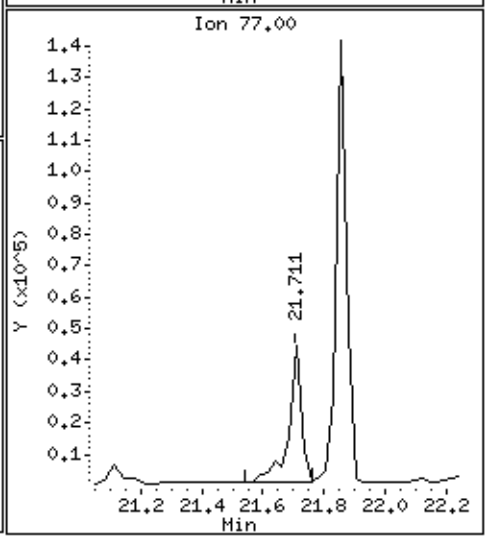



Data File: /chem/msda.i/31Aug2011.b/a083118.d

Date : 31-AUG-2011 21:18

Client ID:

Instrument: msda.i

Sample Info: 125mL #95611

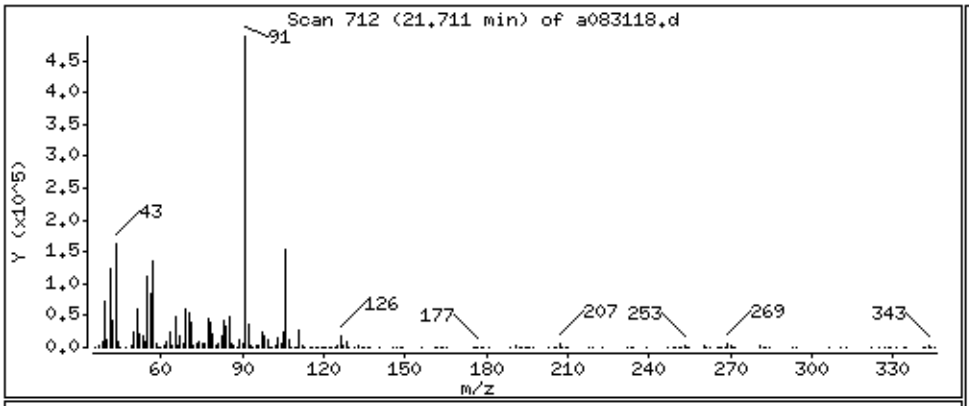
Operator: jc

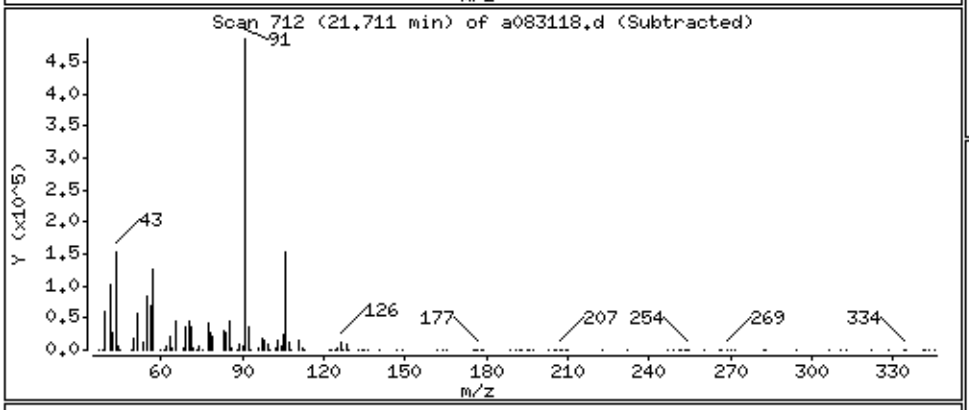
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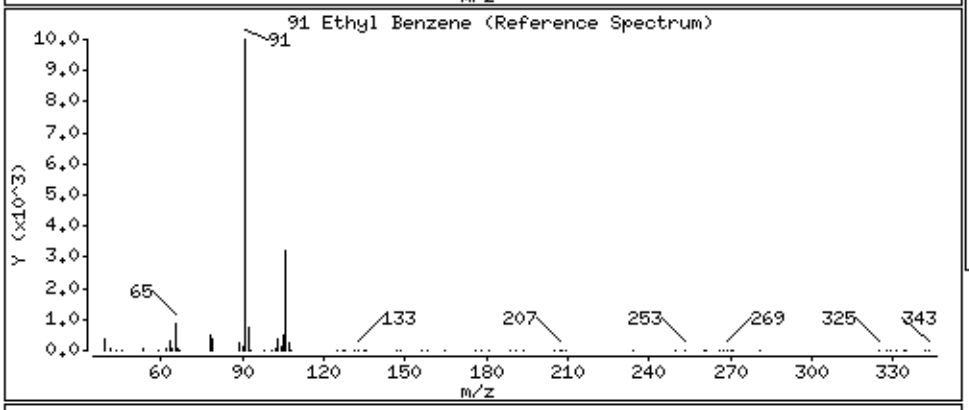
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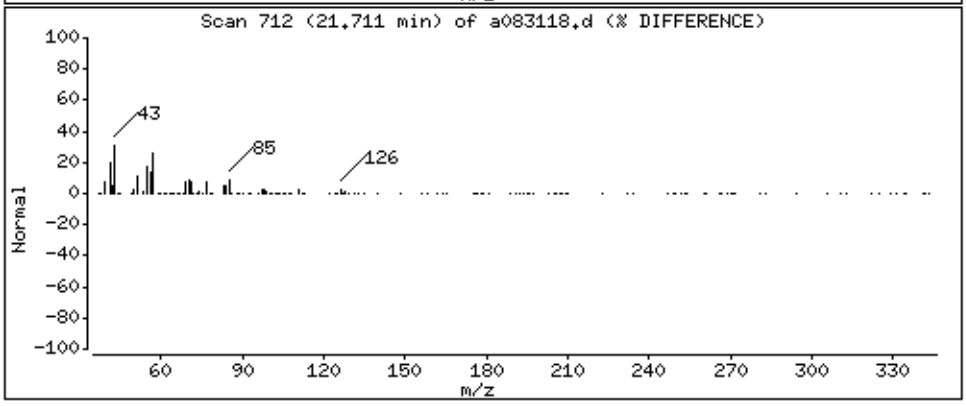
91 Ethyl Benzene

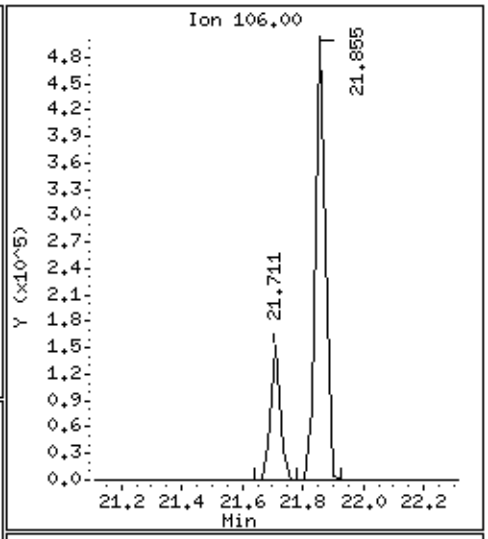
Concentration: 16.959 PPBV

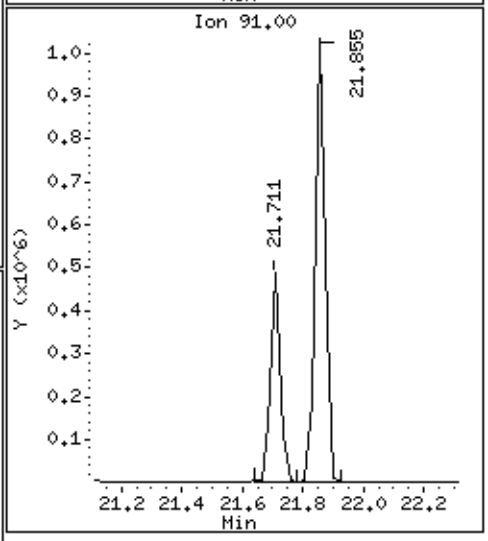


Data File: /chem/msda.i/31Aug2011.b/a083118.d

Date : 31-AUG-2011 21:18

Client ID:

Instrument: msda.i

Sample Info: 125mL #95611

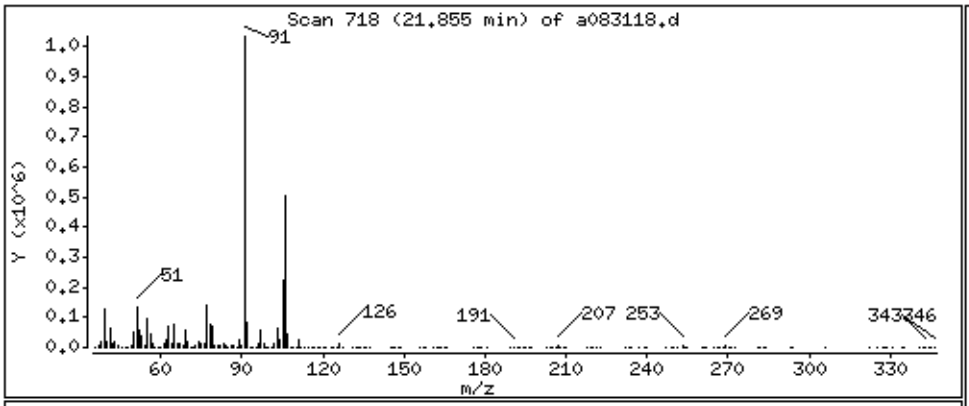
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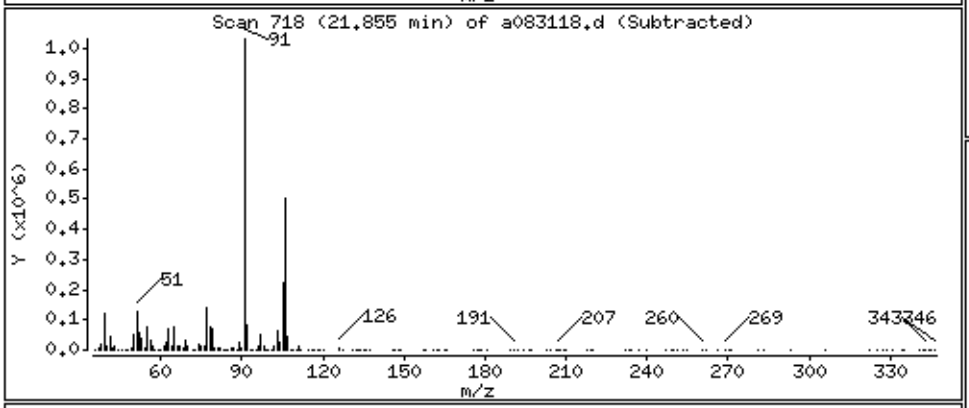
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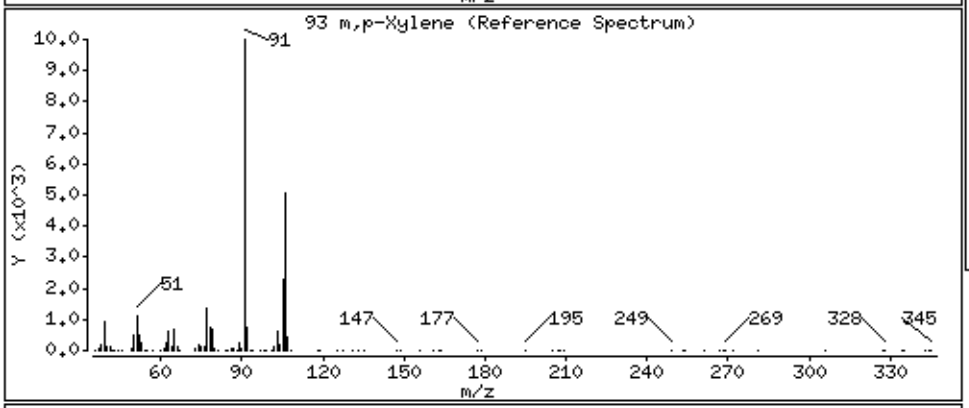
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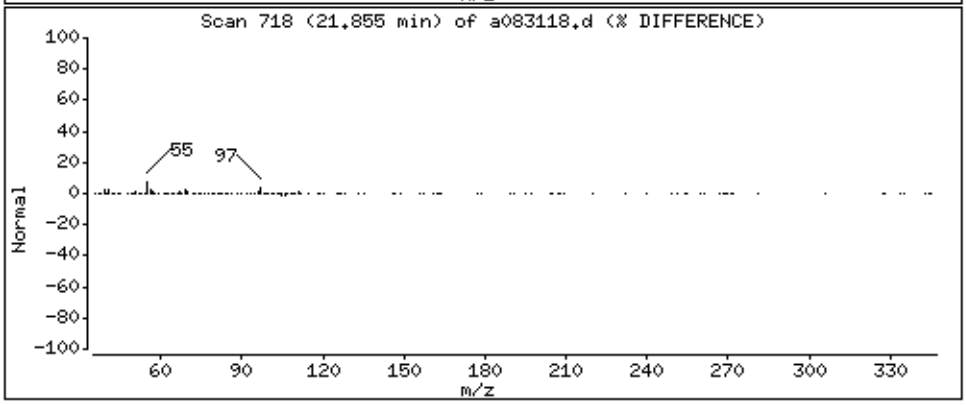
93 m,p-Xylene

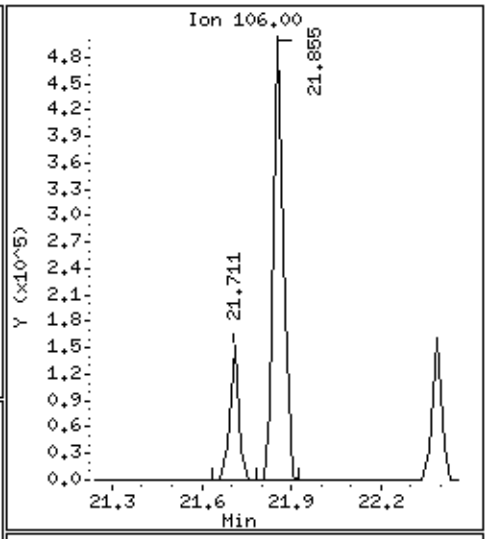
Concentration: 53.248 PPBV

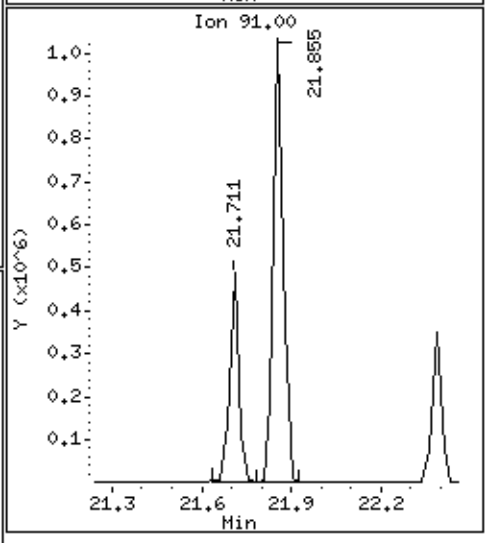


Data File: /chem/msda.i/31Aug2011.b/a083118.d

Date : 31-AUG-2011 21:18

Client ID:

Instrument: msda.i

Sample Info: 125mL #95611

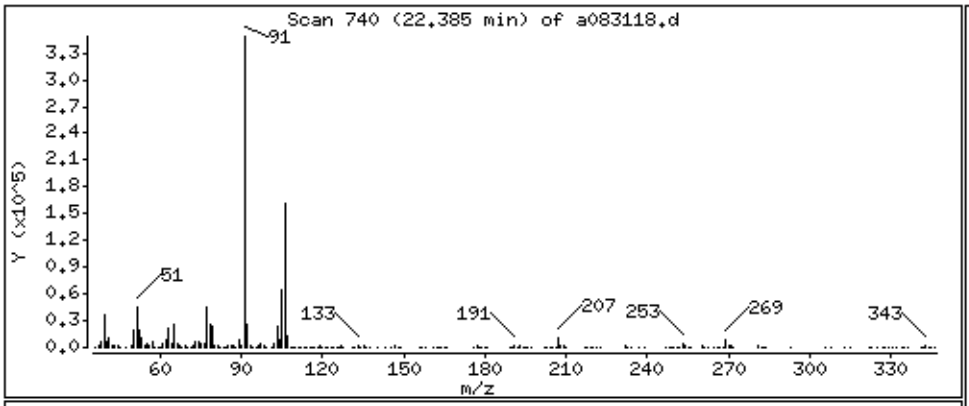
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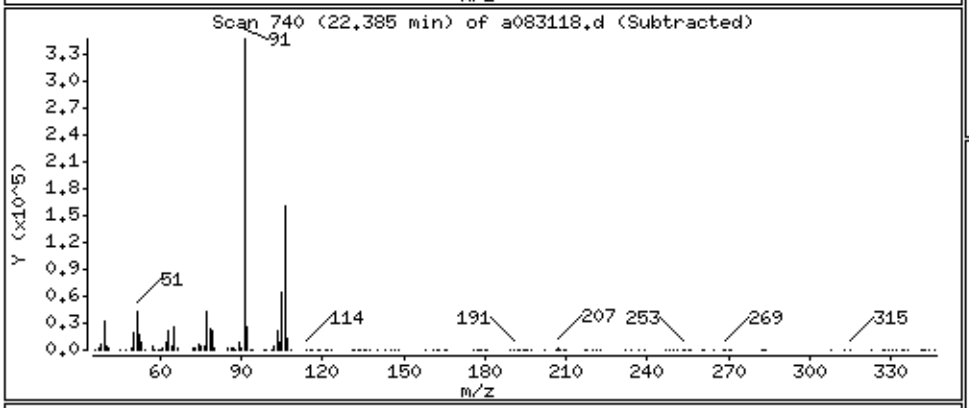
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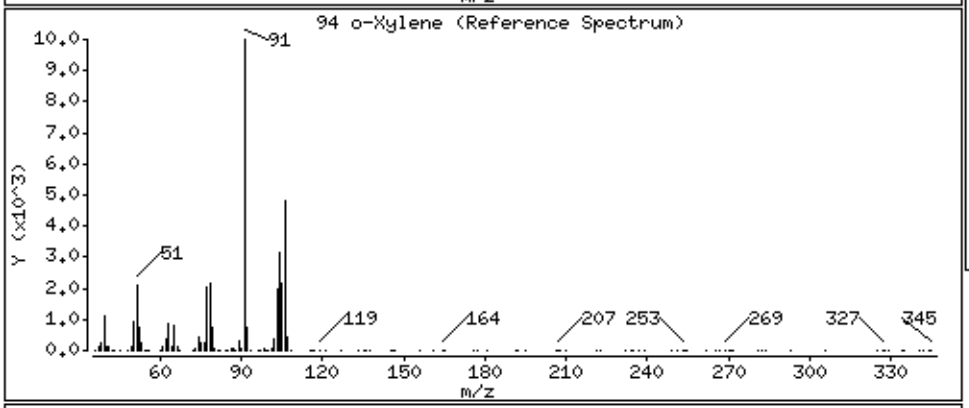
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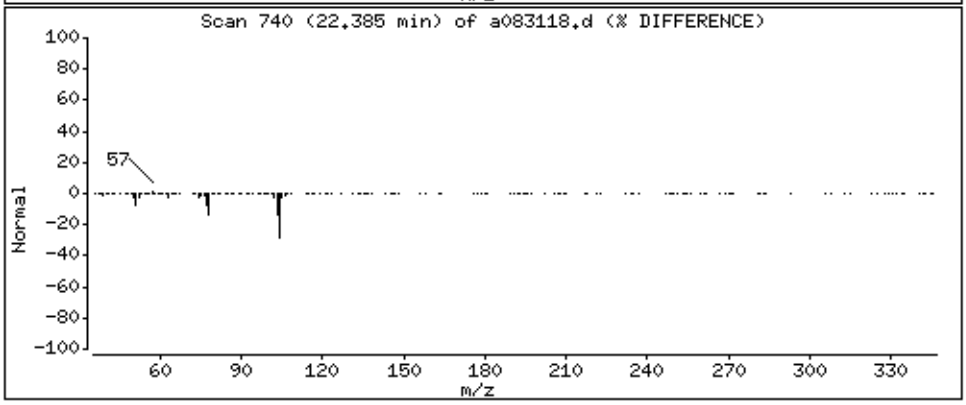
94 o-Xylene

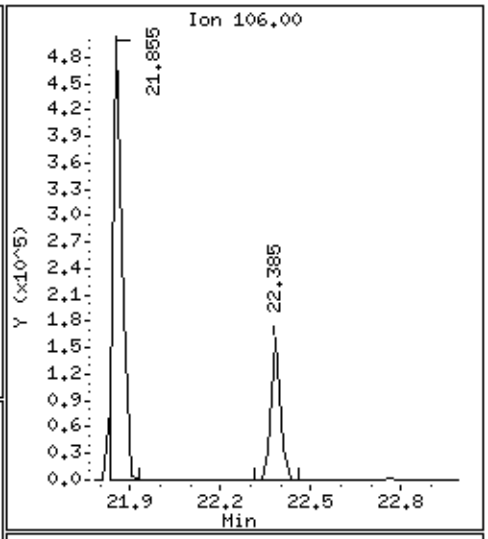
Concentration: 16.264 PPBV

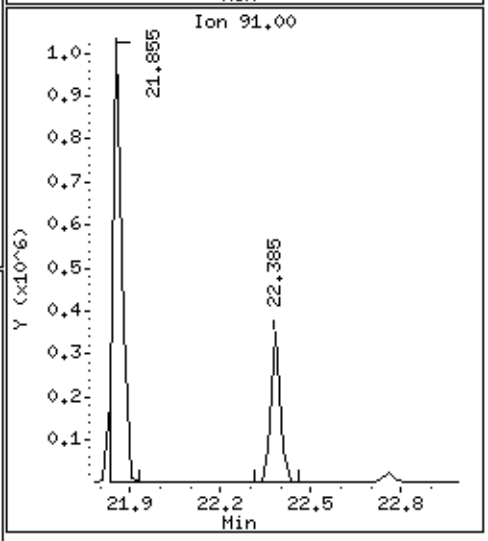


Data File: /chem/msda.i/31Aug2011.b/a083118.d

Date : 31-AUG-2011 21:18

Client ID:

Instrument: msda.i

Sample Info: 125mL #95611

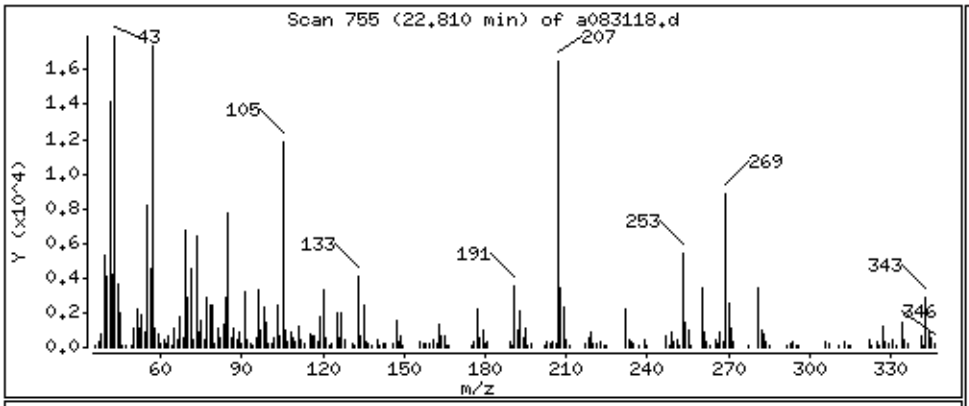
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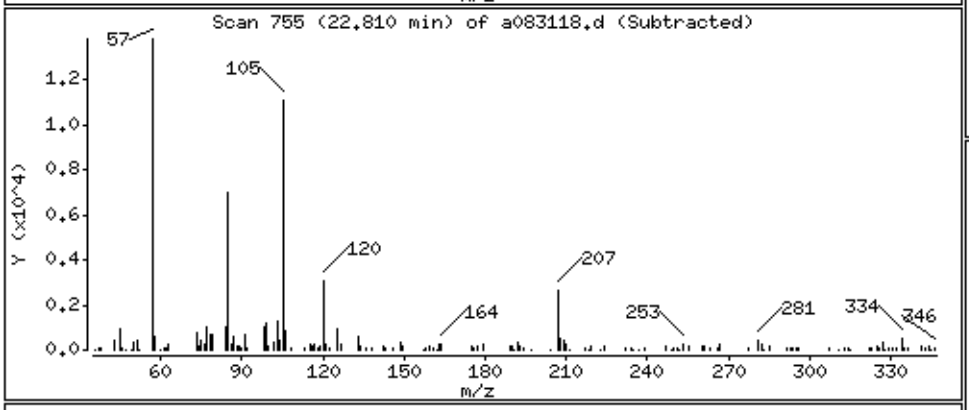
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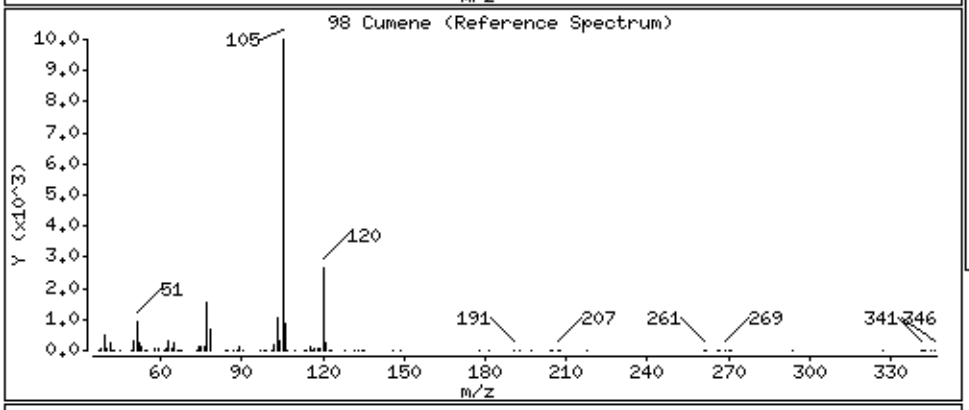
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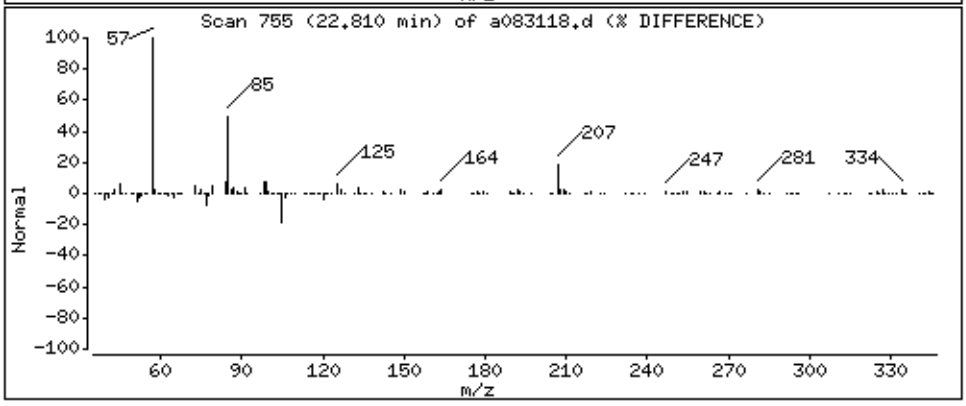
98 Cumene

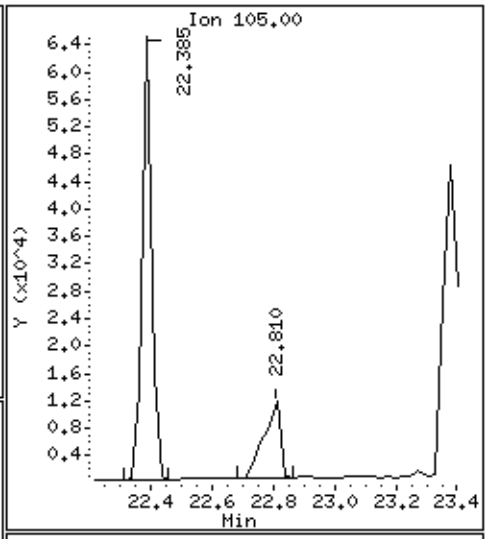
Concentration: 0.6607 PPBV

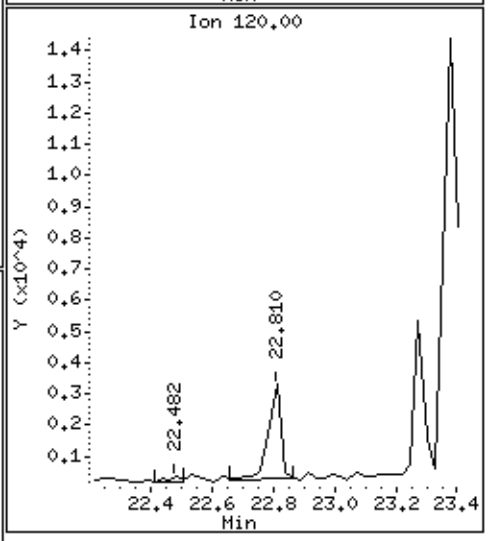


Data File: /chem/msda.i/31Aug2011.b/a083118.d

Date : 31-AUG-2011 21:18

Client ID:

Instrument: msda.i

Sample Info: 125mL #95611

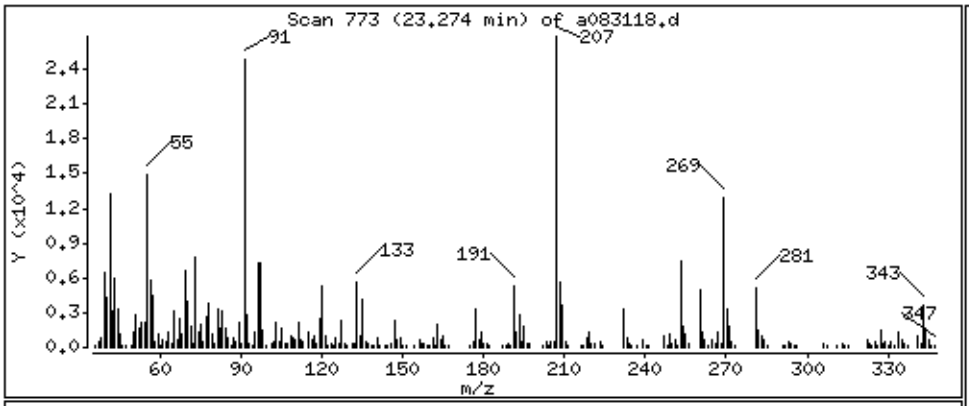
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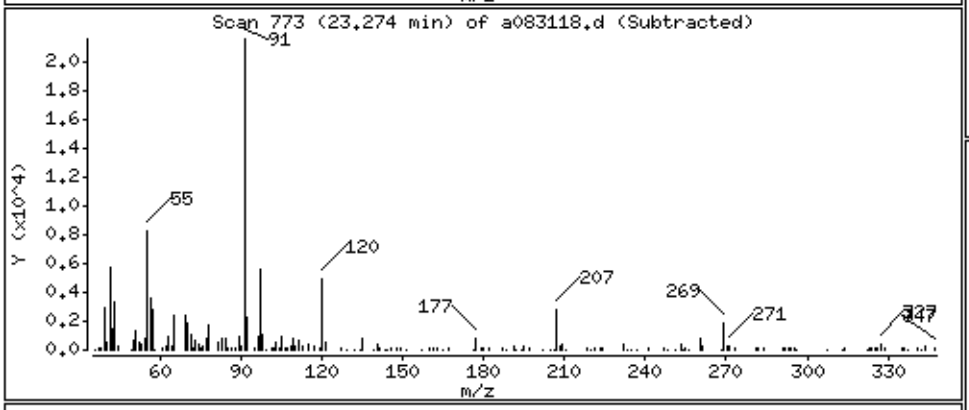
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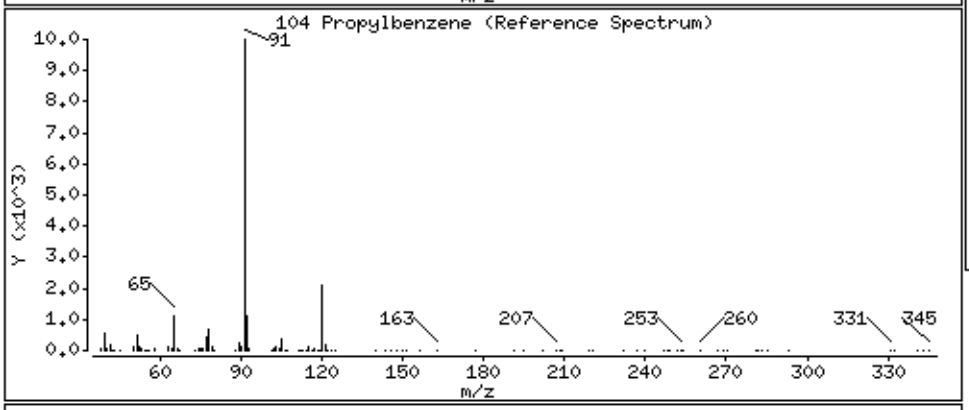
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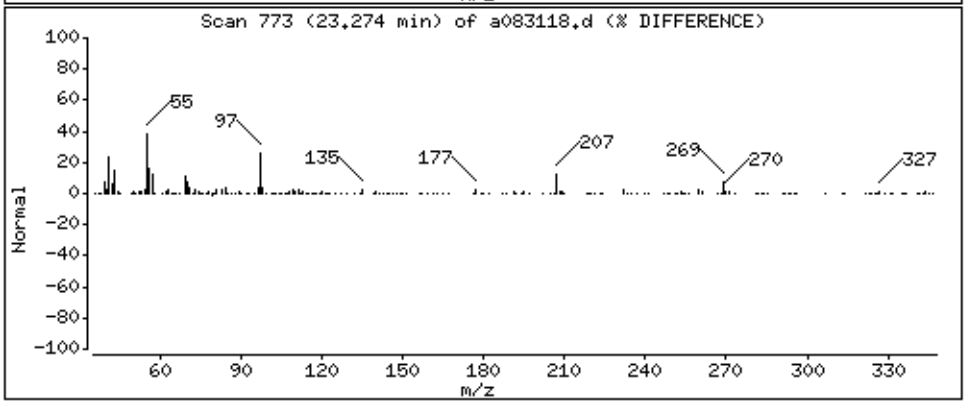
104 Propylbenzene

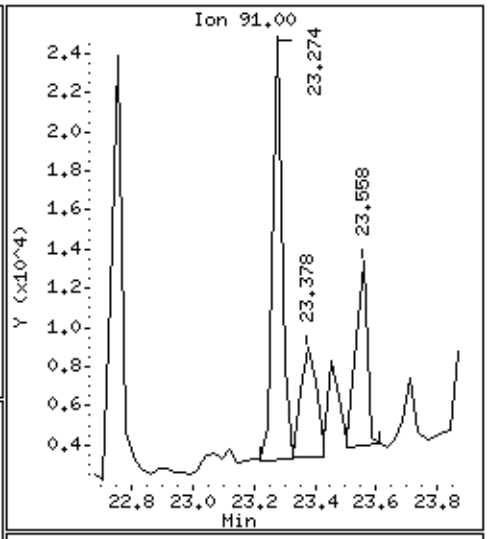
Concentration: 0.6898 PPBV

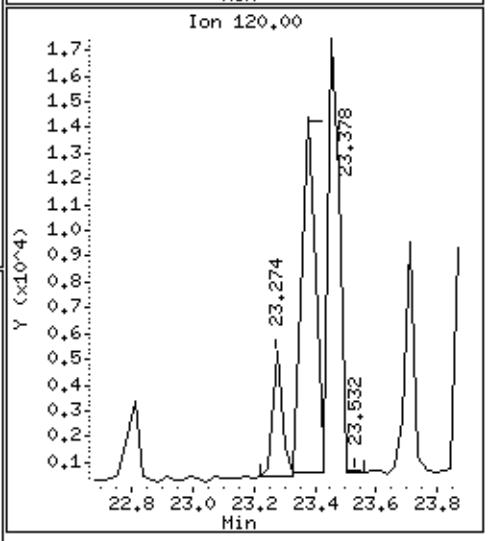


Data File: /chem/msda.i/31Aug2011.b/a083118.d

Date : 31-AUG-2011 21:18

Client ID:

Instrument: msda.i

Sample Info: 125mL #95611

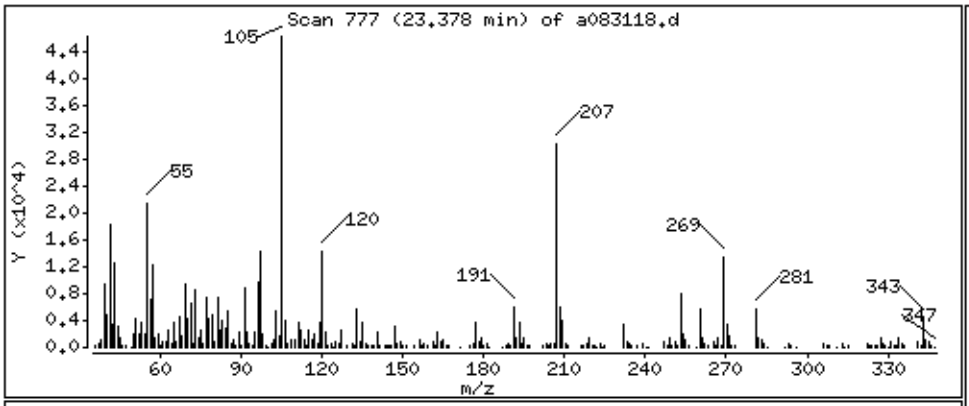
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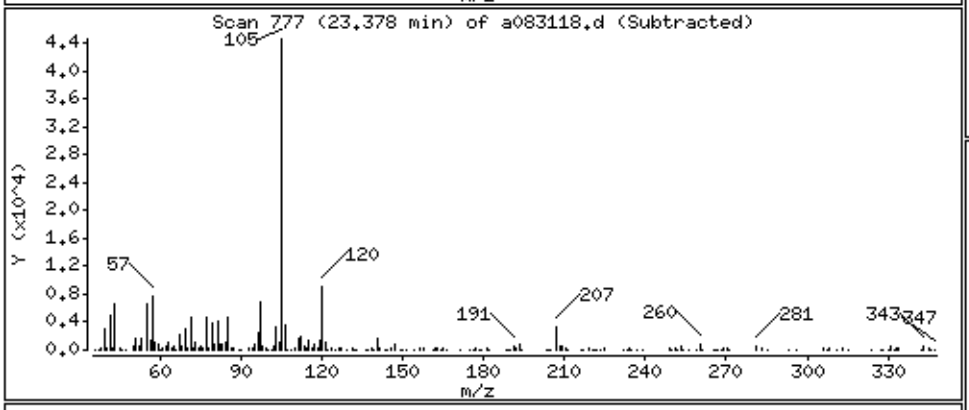
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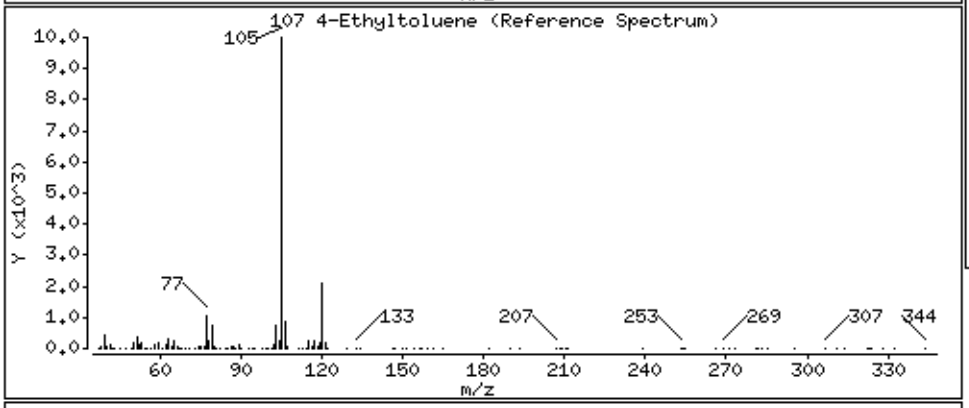
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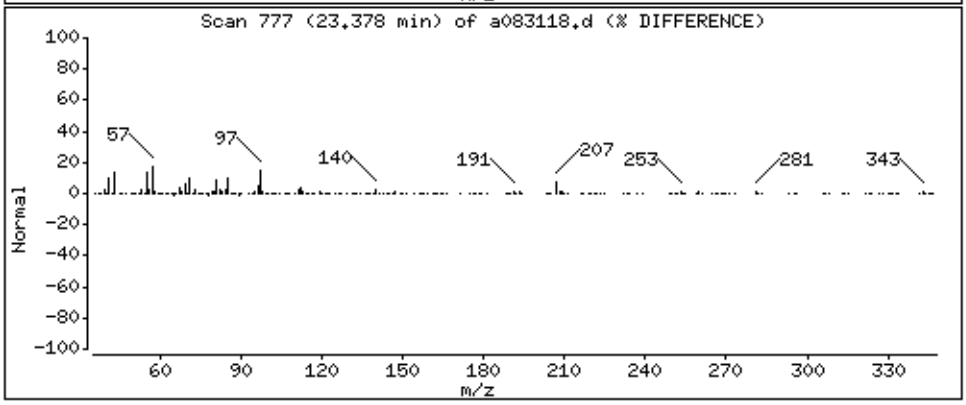
107 4-Ethyltoluene

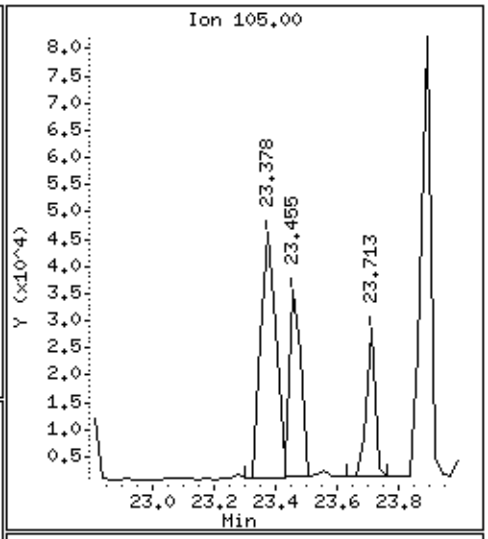
Concentration: 2.722 PPBV

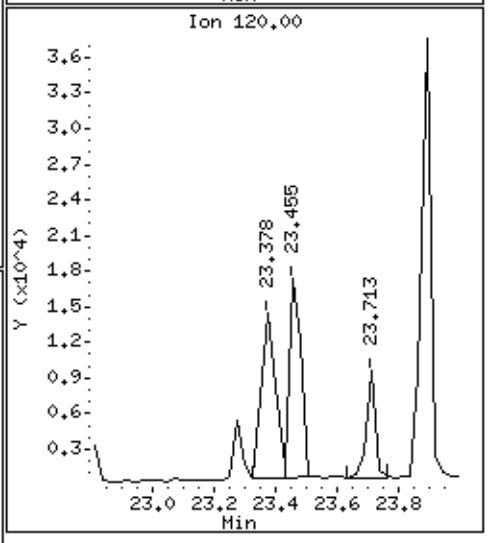


Data File: /chem/msda.i/31Aug2011.b/a083118.d

Date : 31-AUG-2011 21:18

Client ID:

Instrument: msda.i

Sample Info: 125mL #95611

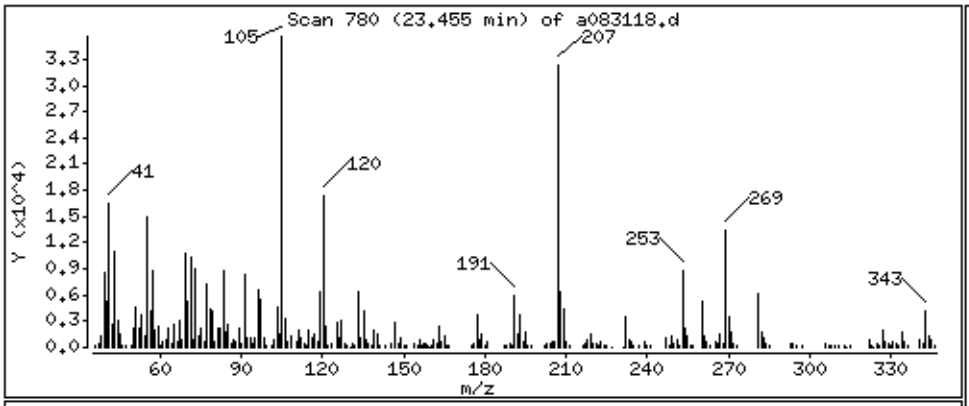
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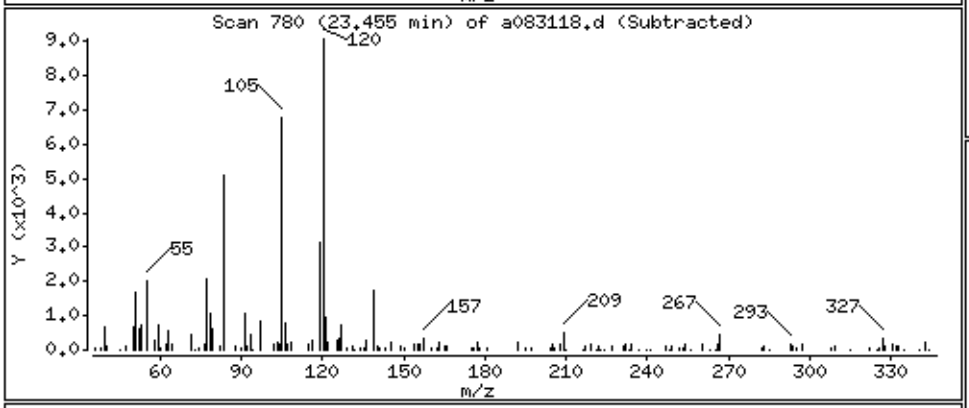
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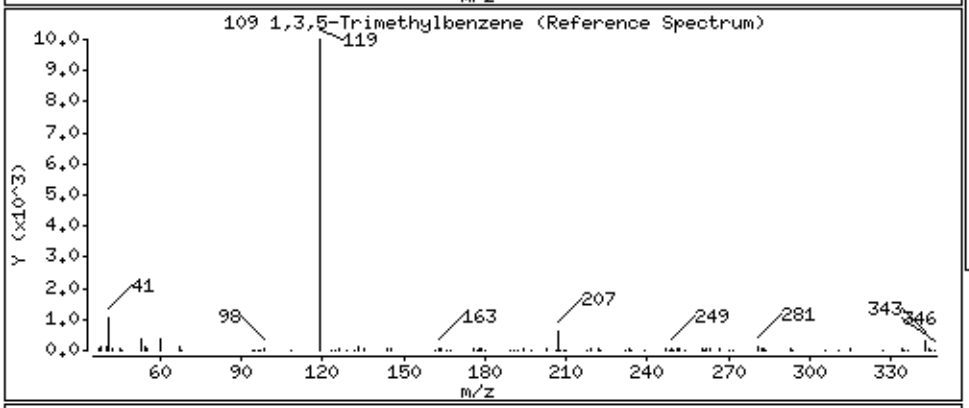
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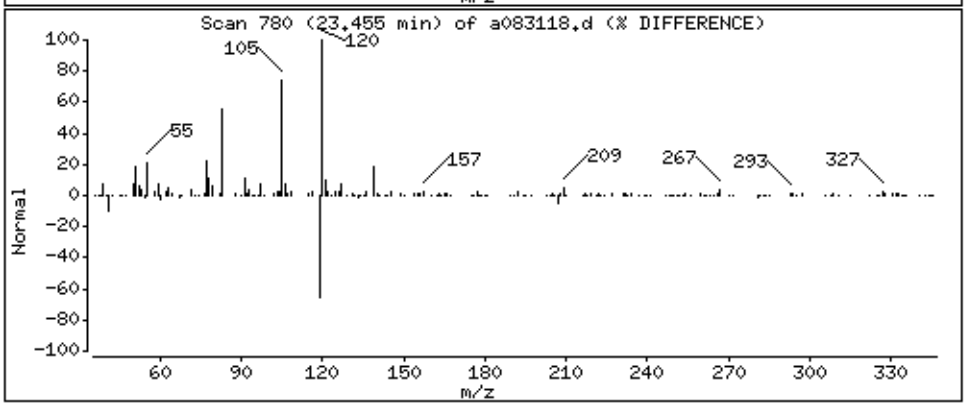
109 1,3,5-Trimethylbenzene

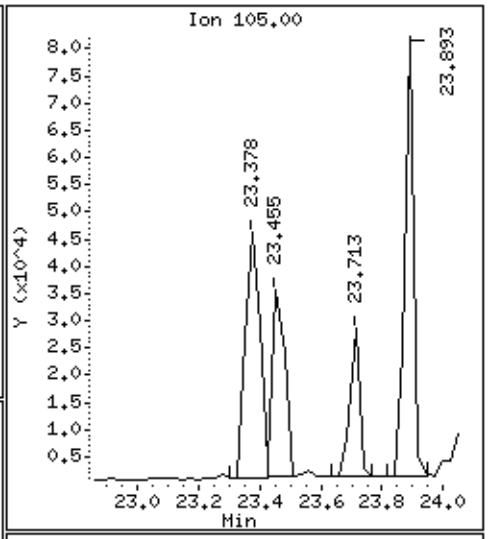
Concentration: 2.002 PPBV

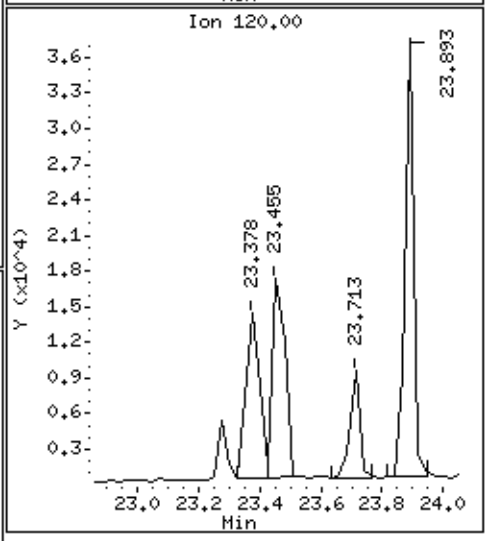


Data File: /chem/msda.i/31Aug2011.b/a083118.d

Date : 31-AUG-2011 21:18

Client ID:

Instrument: msda.i

Sample Info: 125mL #95611

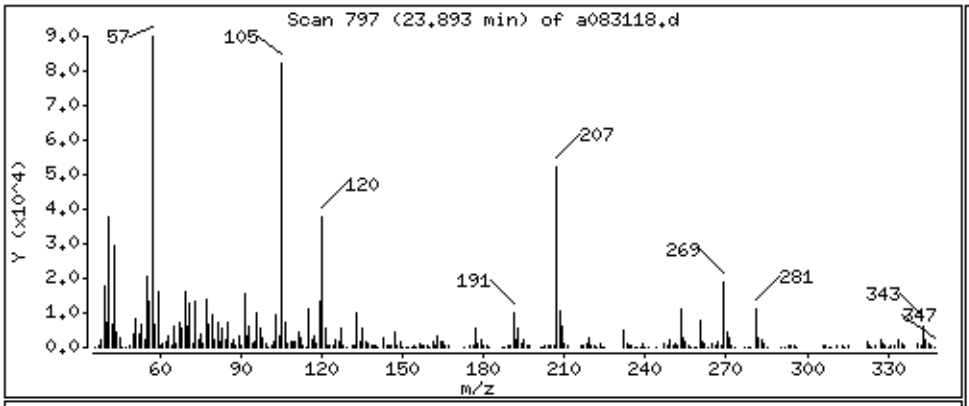
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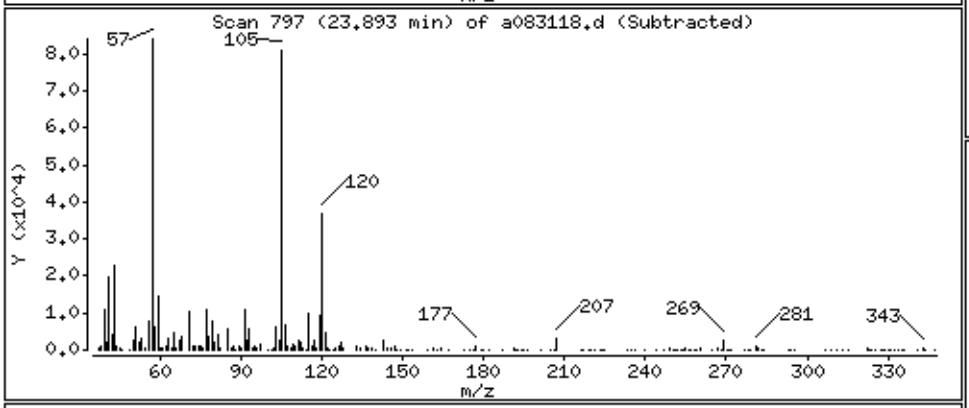
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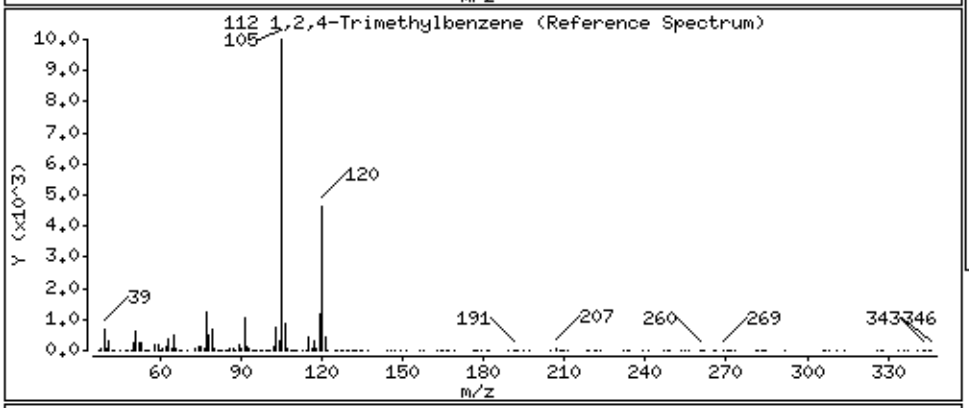
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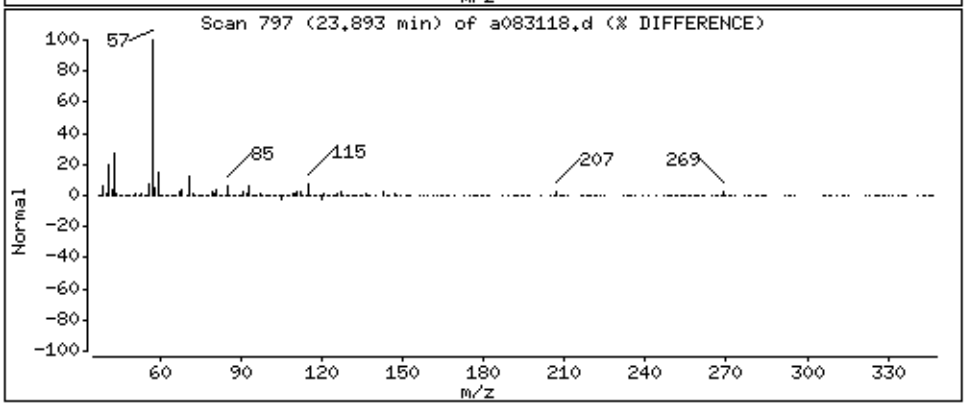
112 1,2,4-Trimethylbenzene

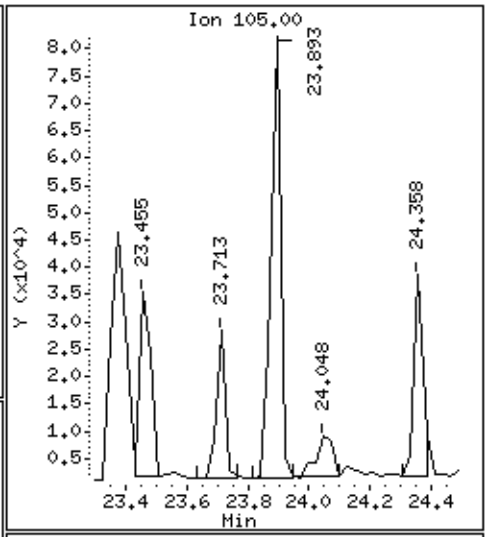
Concentration: 3.906 PPBV

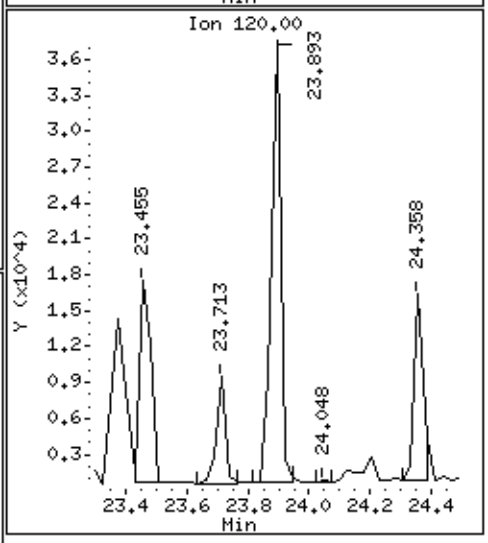


Data File: /chem/msda.i/31Aug2011.b/a083118.d

Date : 31-AUG-2011 21:18

Client ID:

Instrument: msda.i

Sample Info: 125mL #95611

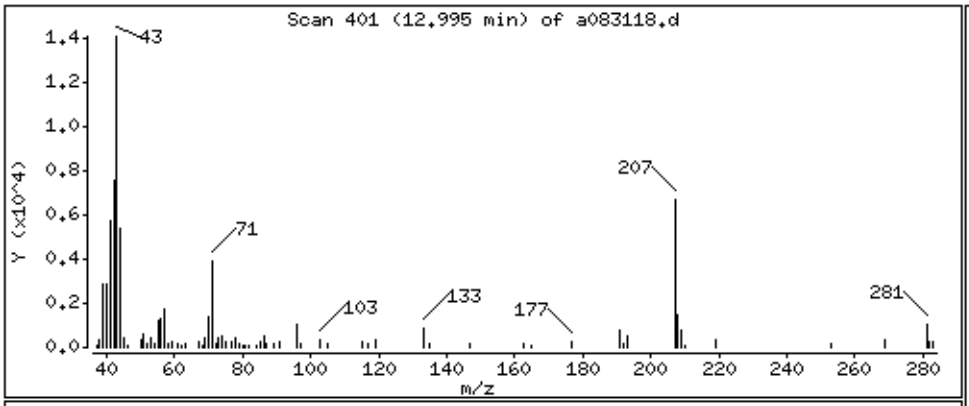
Operator: jc

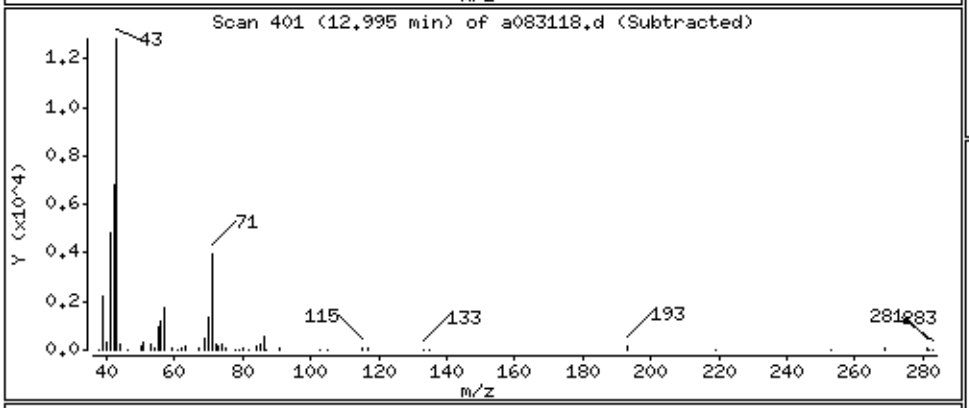
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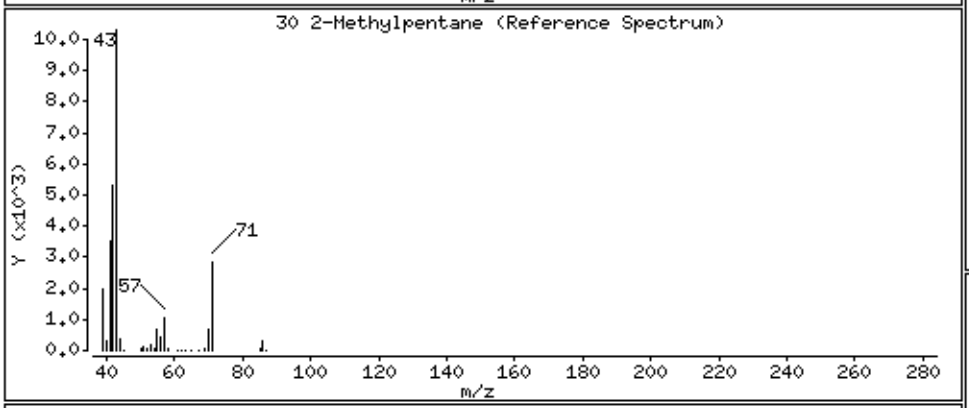
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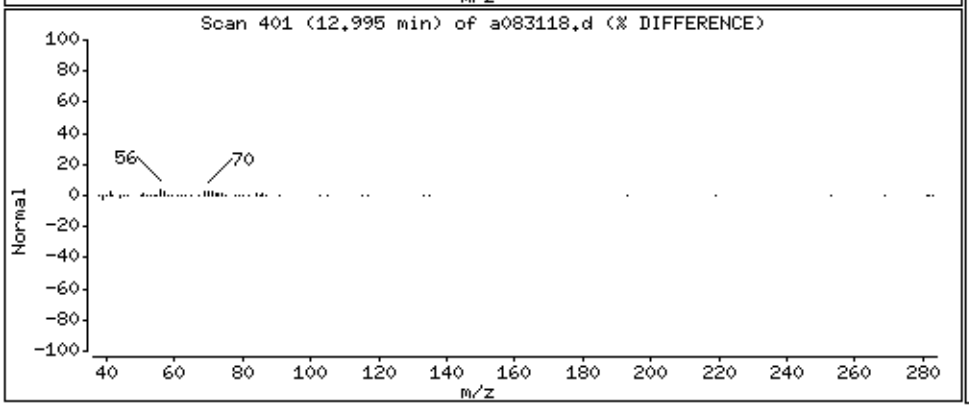
30 2-Methylpentane

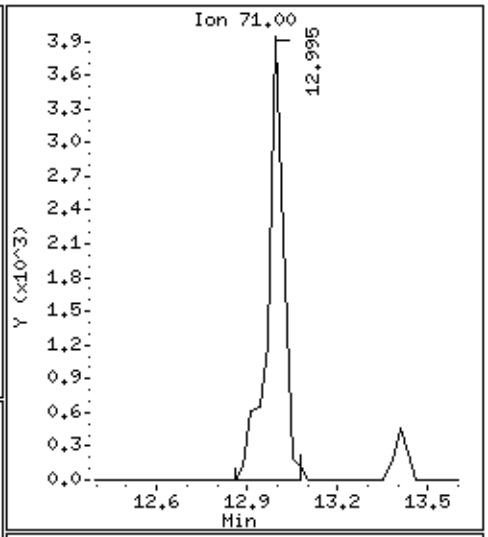
Concentration: 1.791 PPBV

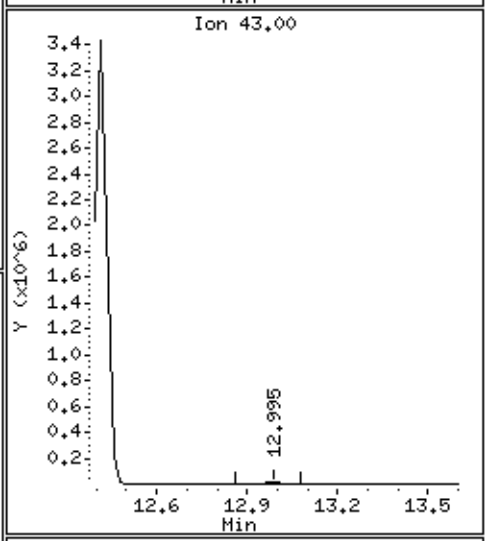


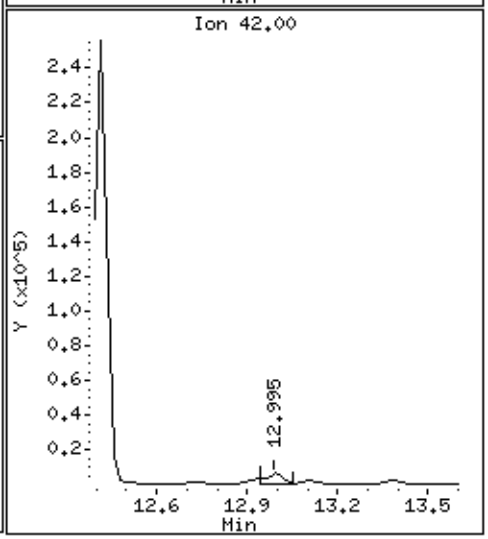



Data File: /chem/msda.i/31Aug2011.b/a083118.d 

Date : 31-AUG-2011 21:18

Client ID:

Instrument: msda.i

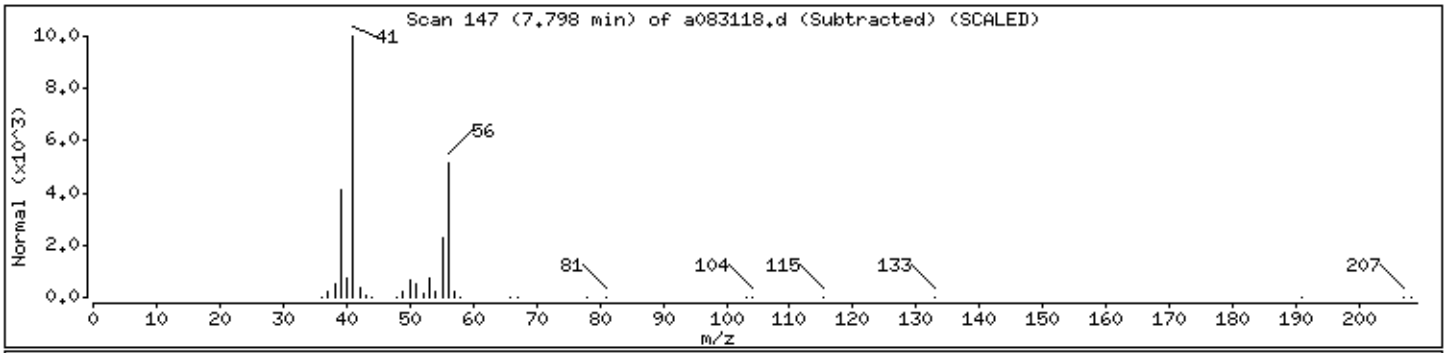
Sample Info: 125mL #95611

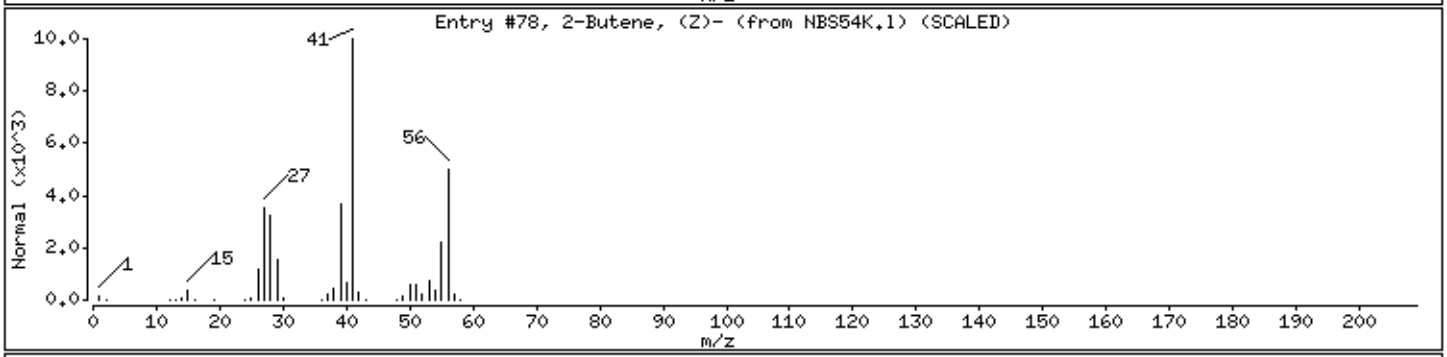
Operator: jc

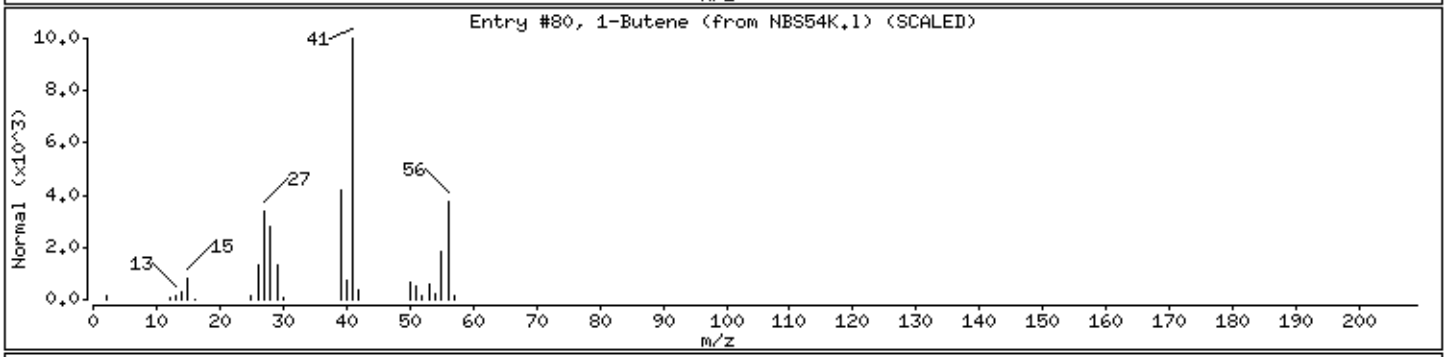
Column phase: RTx-624

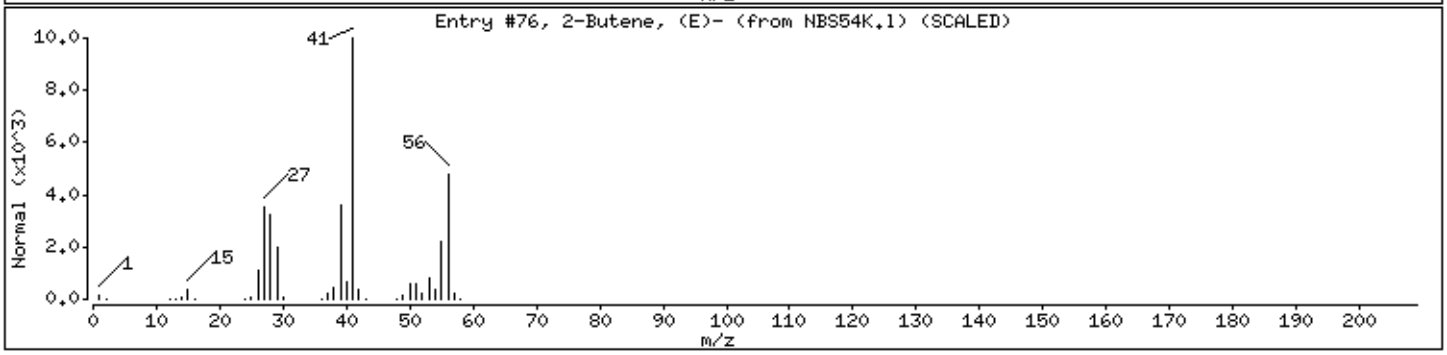
Column diameter: 0.32

| Library Search Compound Match | CAS Number | Library | Entry | Quality | Formula | Weight |
|---|---|---|---|---|---|---|
| 2-Butene, (Z)- | 590-18-1 | NBS54K.l | 78 | 80 | C4H8 | 56 |
| 1-Butene | 106-98-9 | NBS54K.l | 80 | 80 | C4H8 | 56 |
| 2-Butene, (E)- | 624-64-6 | NBS54K.l | 76 | 80 | C4H8 | 56 |



Data File: /chem/msda.i/31Aug2011.b/a083118.d

Date : 31-AUG-2011 21:18

Client ID:

Instrument: msda.i

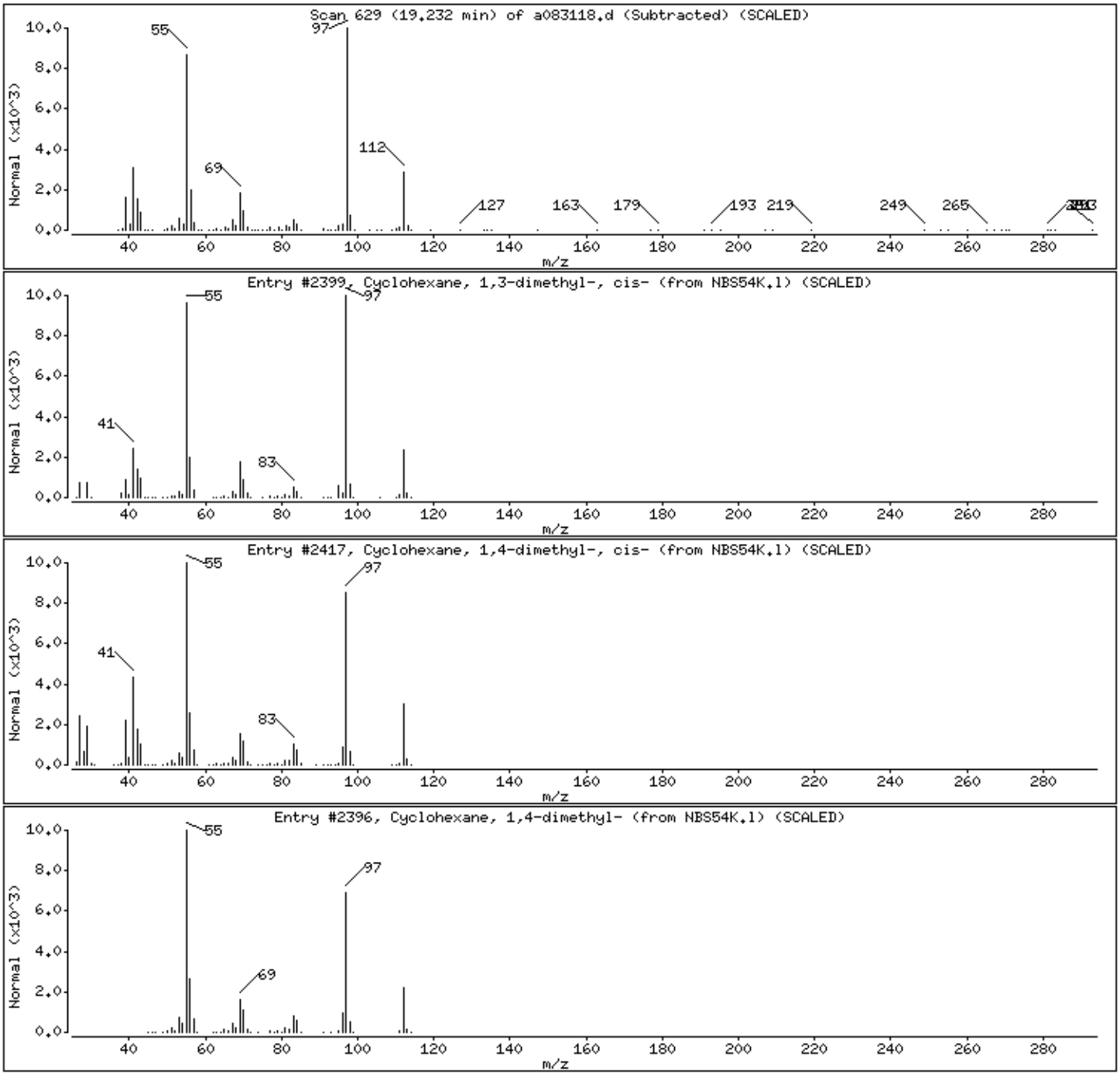
Sample Info: 125mL #95611

Operator: jc

Column phase: RTx-624

Column diameter: 0.32

| Library Search Compound Match | CAS Number | Library | Entry | Quality | Formula | Weight |
|---|---|---|---|---|---|---|
| Cyclohexane, 1,3-dimethyl-, cis- | 638-04-0 | NBS54K.l | 2399 | 94 | C8H16 | 112 |
| Cyclohexane, 1,4-dimethyl-, cis- | 624-29-3 | NBS54K.l | 2417 | 91 | C8H16 | 112 |
| Cyclohexane, 1,4-dimethyl- | 589-90-2 | NBS54K.l | 2396 | 91 | C8H16 | 112 |



Data File: /chem/msda.i/31Aug2011.b/a083118.d

Date : 31-AUG-2011 21:18

Client ID:

Instrument: msda.i

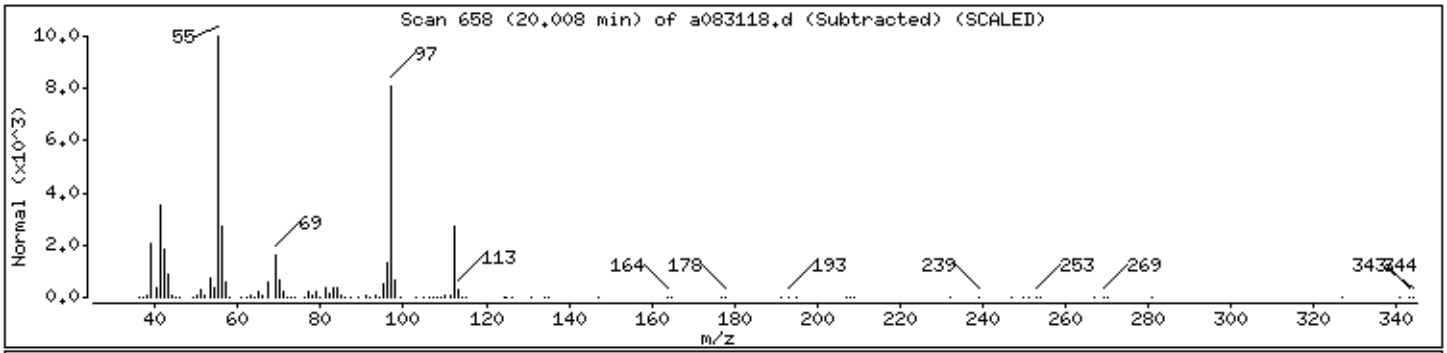
Sample Info: 125mL #95611

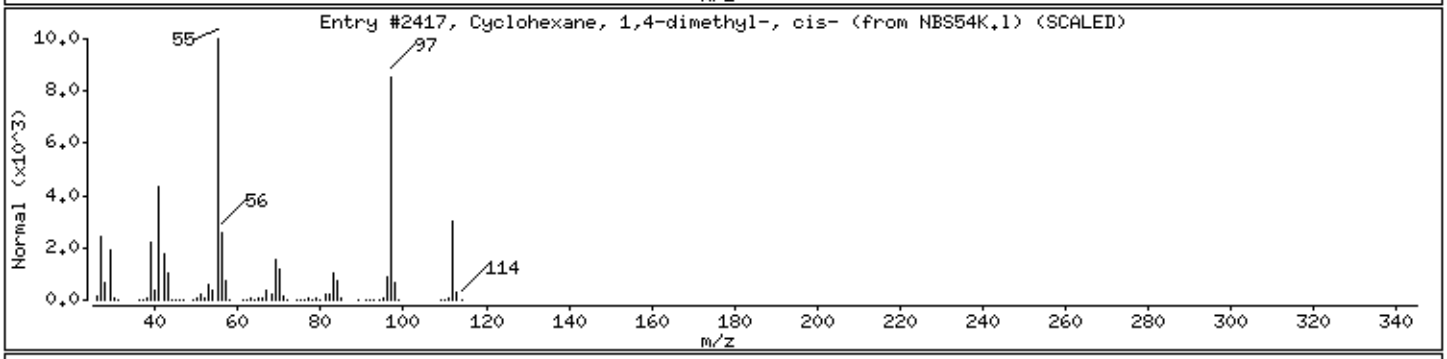
Operator: jc

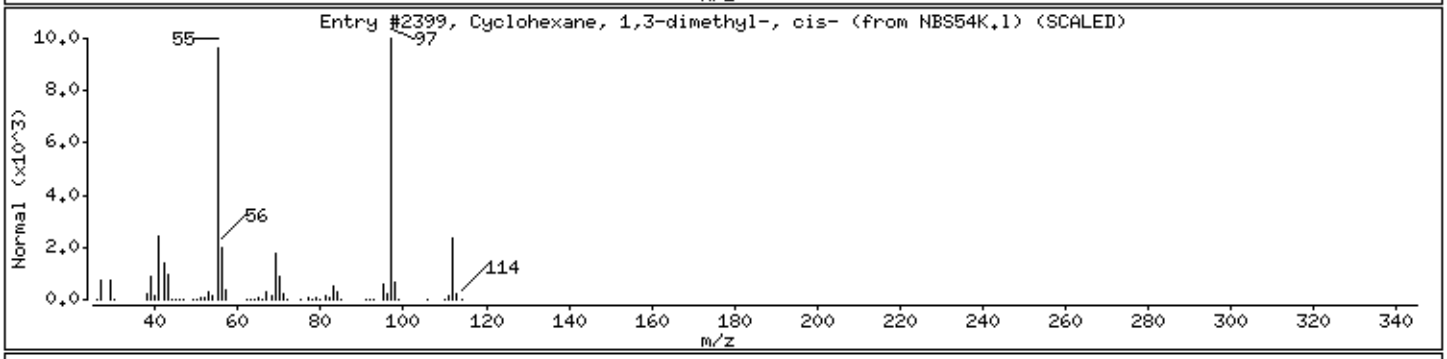
Column phase: RTx-624

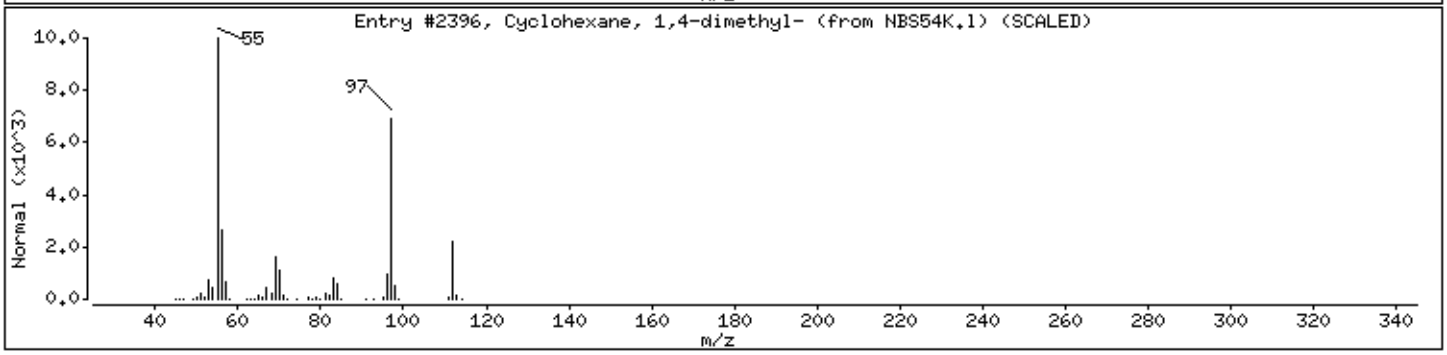
Column diameter: 0.32

| Library Search Compound Match | CAS Number | Library | Entry | Quality | Formula | Weight |
|---|---|---|---|---|---|---|
| Cyclohexane, 1,4-dimethyl-, cis- | 624-29-3 | NBS54K.l | 2417 | 91 | C8H16 | 112 |
| Cyclohexane, 1,3-dimethyl-, cis- | 638-04-0 | NBS54K.l | 2399 | 91 | C8H16 | 112 |
| Cyclohexane, 1,4-dimethyl- | 589-90-2 | NBS54K.l | 2396 | 91 | C8H16 | 112 |



Data File: /chem/msda.i/31Aug2011.b/a083118.d

Date : 31-AUG-2011 21:18

Client ID:

Instrument: msda.i

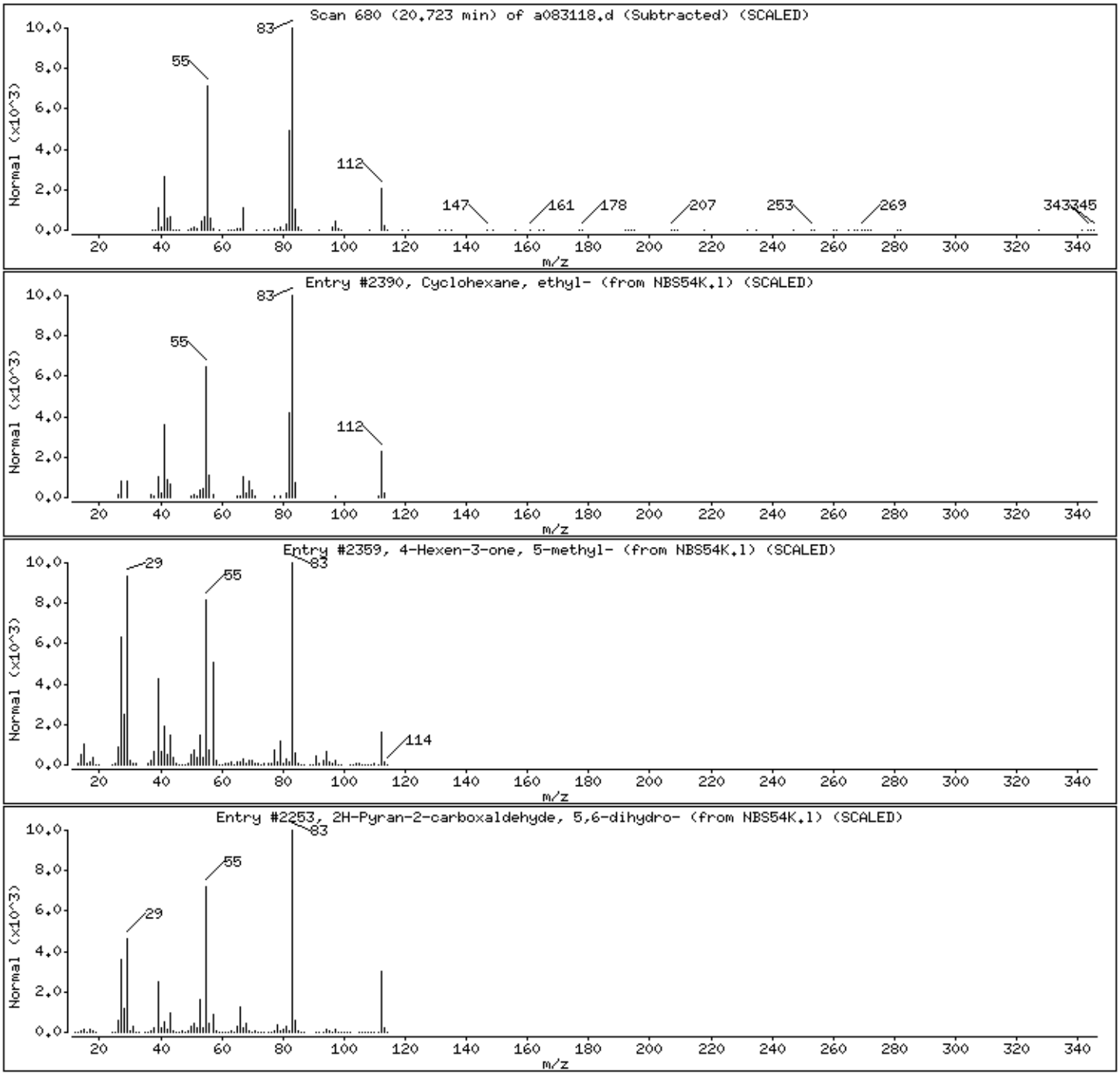
Sample Info: 125mL #95611

Operator: jc

Column phase: RTx-624

Column diameter: 0.32

| Library Search Compound Match | CAS Number | Library | Entry | Quality | Formula | Weight |
|---|---|---|---|---|---|---|
| Cyclohexane, ethyl- | 1678-91-7 | NBS54K.l | 2390 | 91 | C8H16 | 112 |
| 4-Hexen-3-one, 5-methyl- | 13905-10-7 | NBS54K.l | 2359 | 53 | C7H12O | 112 |
| 2H-Pyran-2-carboxaldehyde, 5,6-dihydro- | 53897-26-0 | NBS54K.l | 2253 | 50 | C6H8O2 | 112 |



Data File: /chem/msda.i/31Aug2011.b/a083118.d

Date : 31-AUG-2011 21:18

Client ID:

Instrument: msda.i

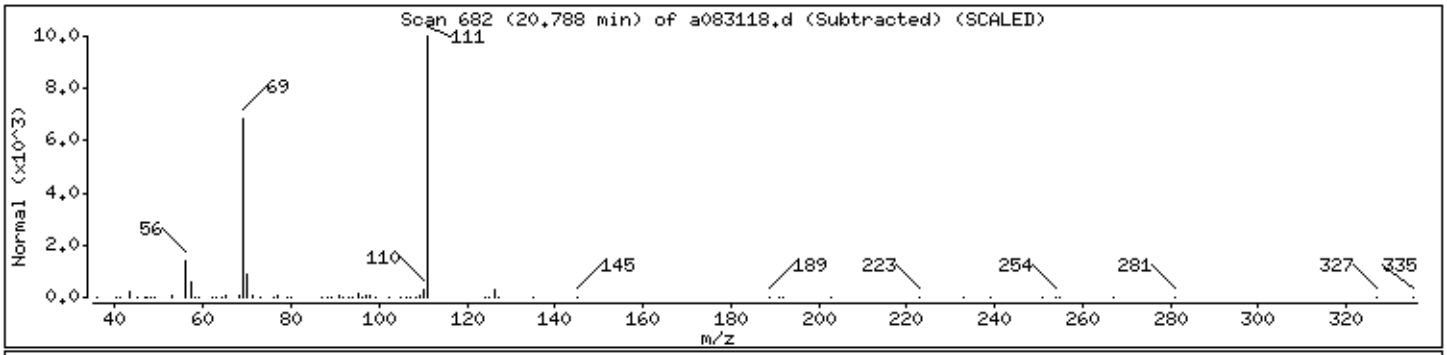
Sample Info: 125mL #95611

Operator: jc

Column phase: RTx-624

Column diameter: 0.32

| Library Search Compound Match | CAS Number | Library | Entry | Quality | Formula | Weight |
|---|---|---|---|---|---|---|
| Unknown | | | 0 | 0 | | 0 |



Data File: /chem/msda.i/31Aug2011.b/a083118.d

Date : 31-AUG-2011 21:18

Client ID:

Instrument: msda.i

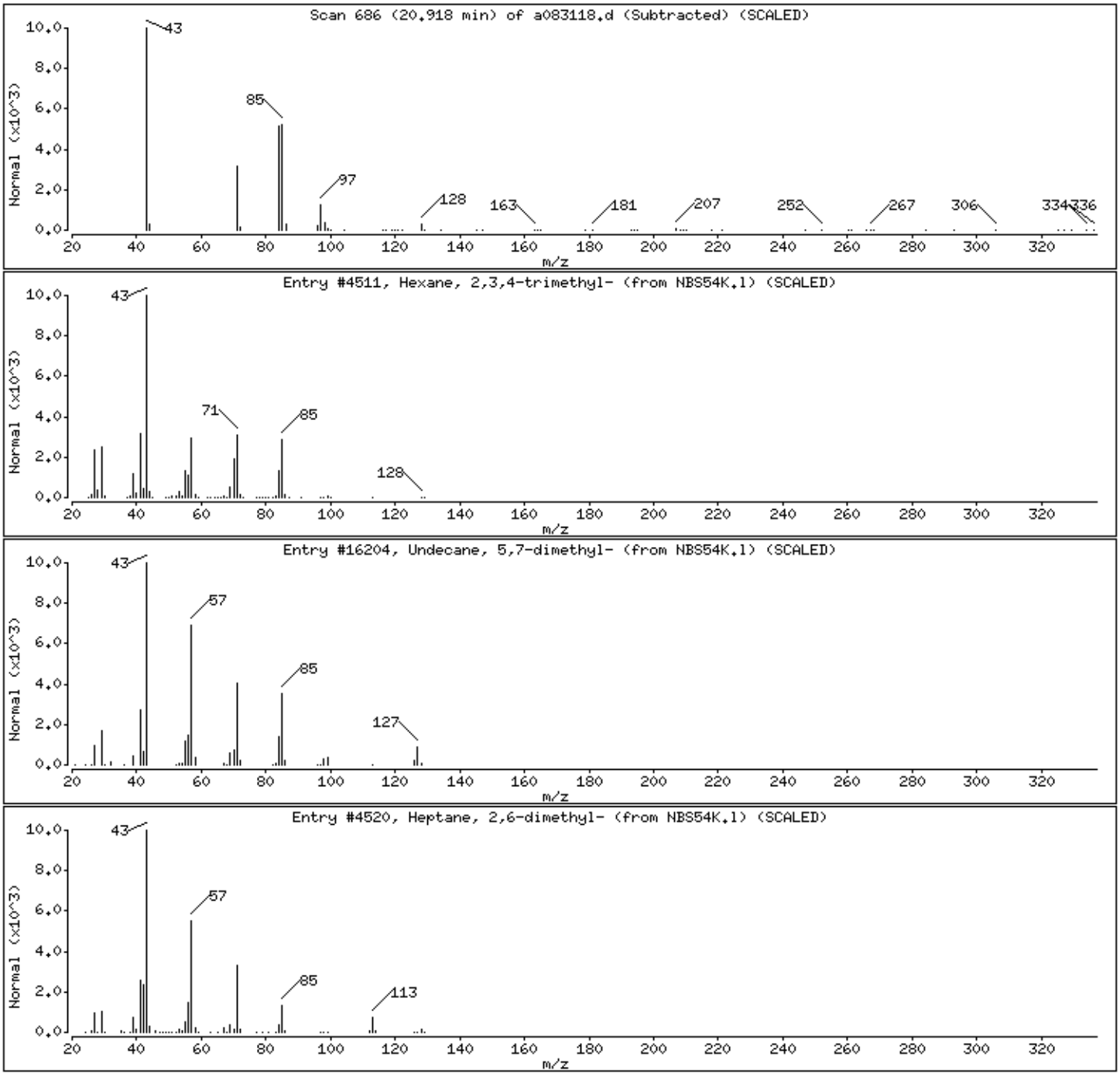
Sample Info: 125mL #95611

Operator: jc

Column phase: RTx-624

Column diameter: 0.32

| Library Search Compound Match | CAS Number | Library | Entry | Quality | Formula | Weight |
|---|---|---|---|---|---|---|
| Unknown | | | | | | |
| Hexane, 2,3,4-trimethyl- | 921-47-1 | NBS54K.l | 4511 | 64 | C9H20 | 128 |
| Undecane, 5,7-dimethyl- | 17312-83-3 | NBS54K.l | 16204 | 64 | C13H28 | 184 |
| Heptane, 2,6-dimethyl- | 1072-05-5 | NBS54K.l | 4520 | 59 | C9H20 | 128 |



Data File: /chem/msda.i/31Aug2011.b/a083118.d

Date : 31-AUG-2011 21:18

Client ID:

Instrument: msda.i

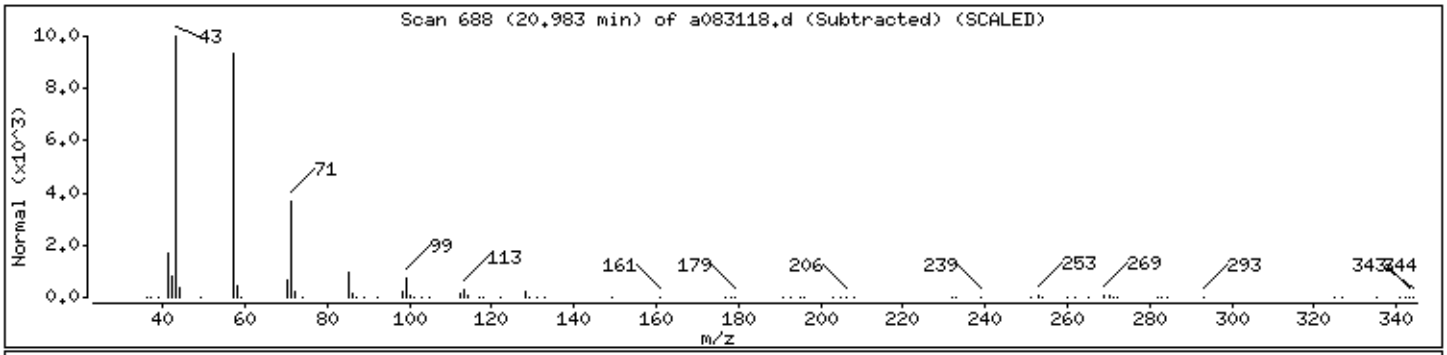
Sample Info: 125mL #95611

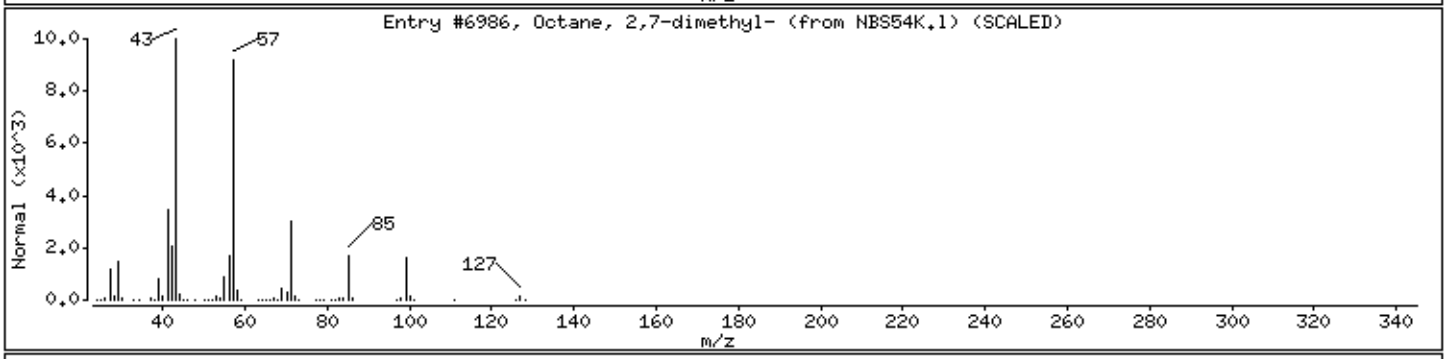
Operator: jc

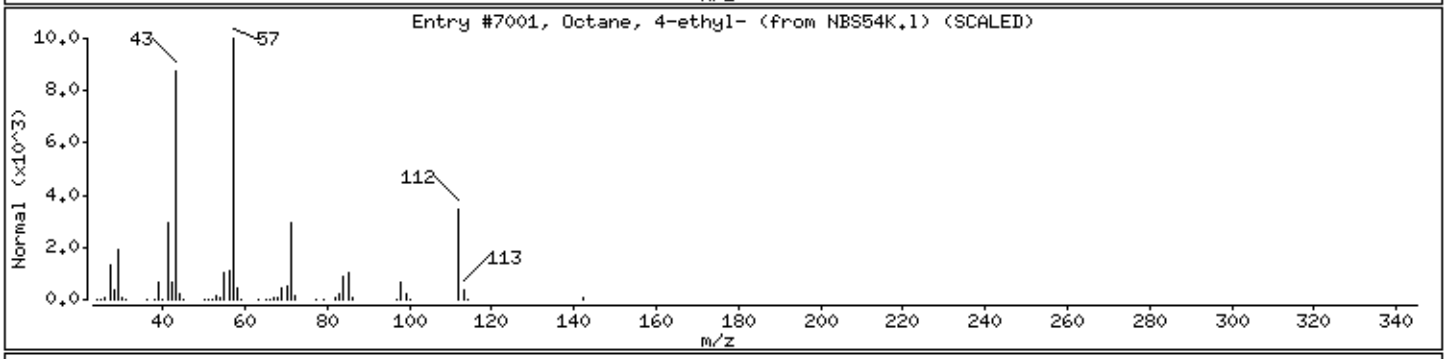
Column phase: RTx-624

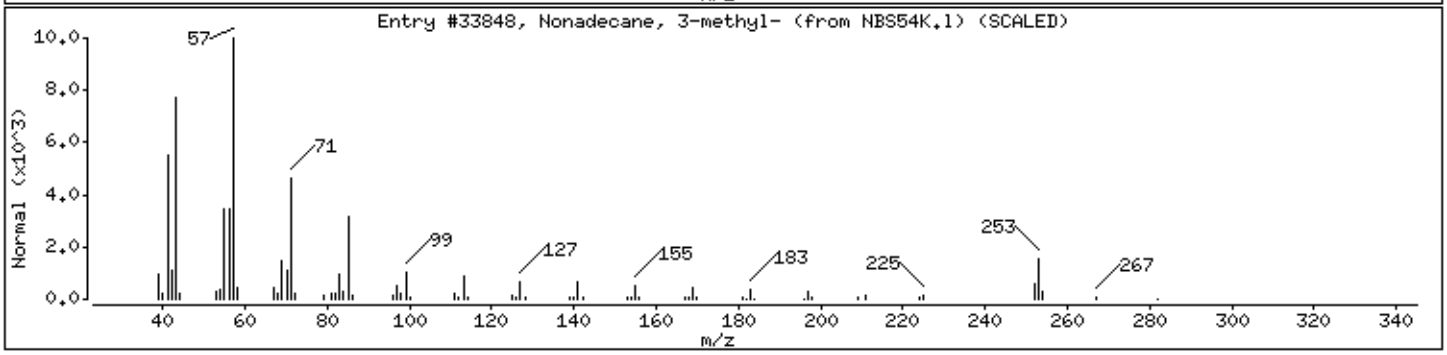
Column diameter: 0.32

| Library Search Compound Match | CAS Number | Library | Entry | Quality | Formula | Weight |
|---|---|---|---|---|---|---|
| Octane, 2,7-dimethyl- | 1072-16-8 | NBS54K.l | 6986 | 59 | C10H22 | 142 |
| Octane, 4-ethyl- | 15869-86-0 | NBS54K.l | 7001 | 56 | C10H22 | 142 |
| Nonadecane, 3-methyl- | 6418-45-7 | NBS54K.l | 33848 | 56 | C20H42 | 282 |



Data File: /chem/msda.i/31Aug2011.b/a083118.d

Date : 31-AUG-2011 21:18

Client ID:

Instrument: msda.i

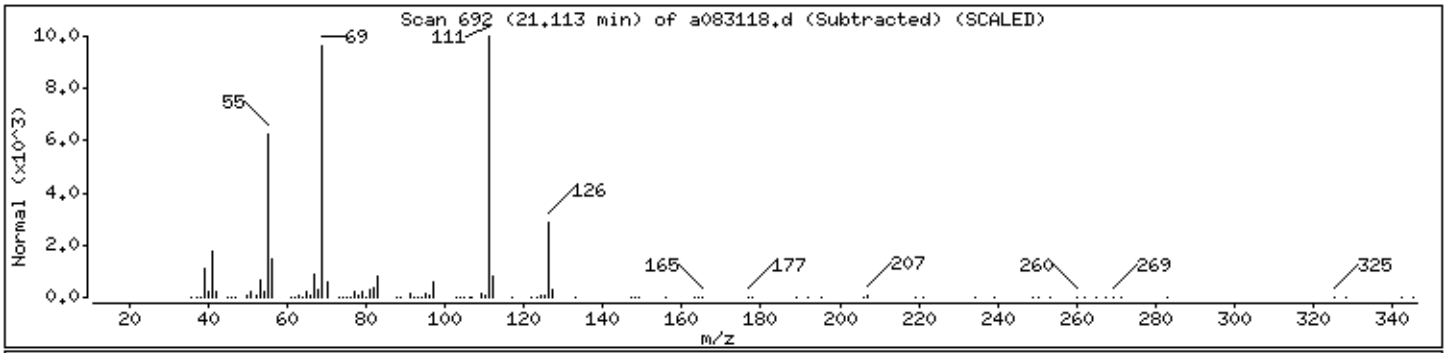
Sample Info: 125mL #95611

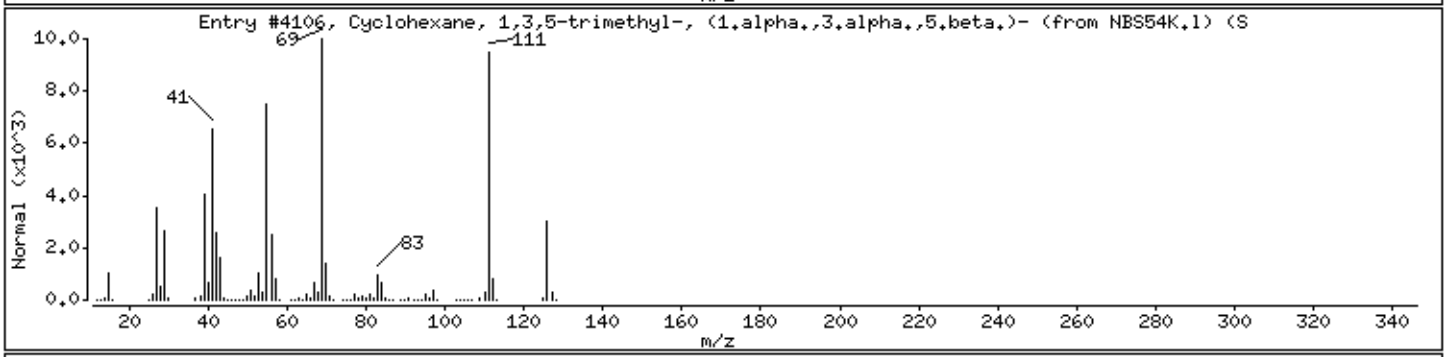
Operator: jc

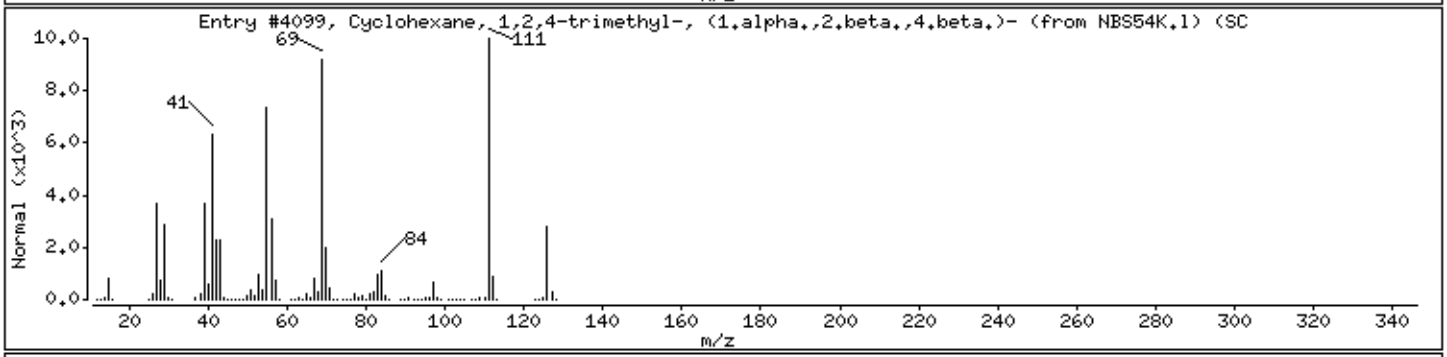
Column phase: RTx-624

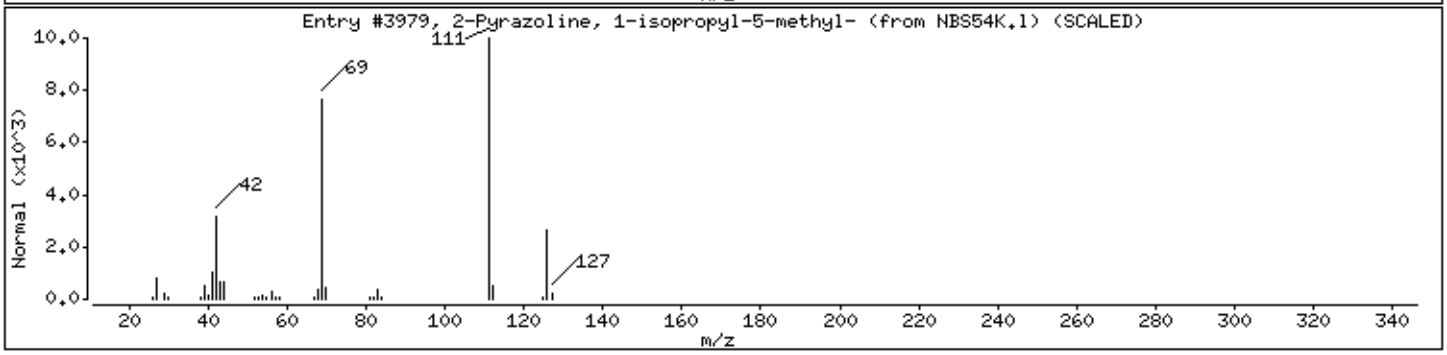
Column diameter: 0.32

| Library Search Compound Match | CAS Number | Library | Entry | Quality | Formula | Weight |
|---|---|---|---|---|---|---|
| Cyclohexane, 1,3,5-trimethyl-, (1.alpha. | 1795-26-2 | NBS54K.l | 4106 | 87 | C9H18 | 126 |
| Cyclohexane, 1,2,4-trimethyl-, (1.alpha. | 7667-60-9 | NBS54K.l | 4099 | 87 | C9H18 | 126 |
| 2-Pyrazoline, 1-isopropyl-5-methyl- | 26964-54-5 | NBS54K.l | 3979 | 80 | C7H14N2 | 126 |



Data File: /chem/msda.i/31Aug2011.b/a083118.d

Date : 31-AUG-2011 21:18

Client ID:

Instrument: msda.i

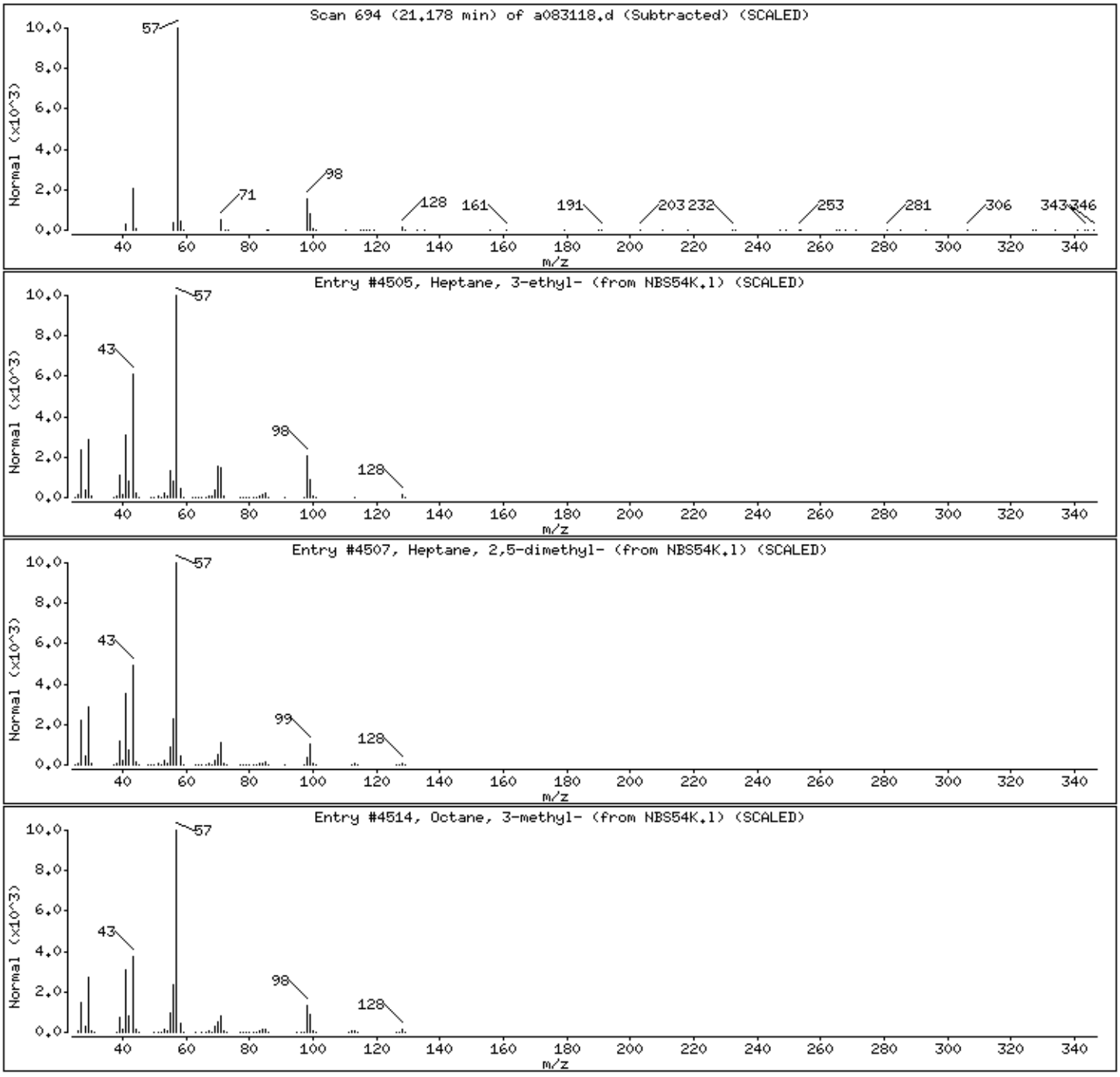
Sample Info: 125mL #95611

Operator: jc

Column phase: RTx-624

Column diameter: 0.32

| Library Search Compound Match | CAS Number | Library | Entry | Quality | Formula | Weight |
|---|---|---|---|---|---|---|
| Heptane, 3-ethyl- | 15869-80-4 | NBS54K.l | 4505 | 36 | C9H20 | 128 |
| Heptane, 2,5-dimethyl- | 2216-30-0 | NBS54K.l | 4507 | 9 | C9H20 | 128 |
| Octane, 3-methyl- | 2216-33-3 | NBS54K.l | 4514 | 9 | C9H20 | 128 |



Data File: /chem/msda.i/31Aug2011.b/a083118.d

Date : 31-AUG-2011 21:18

Client ID:

Instrument: msda.i

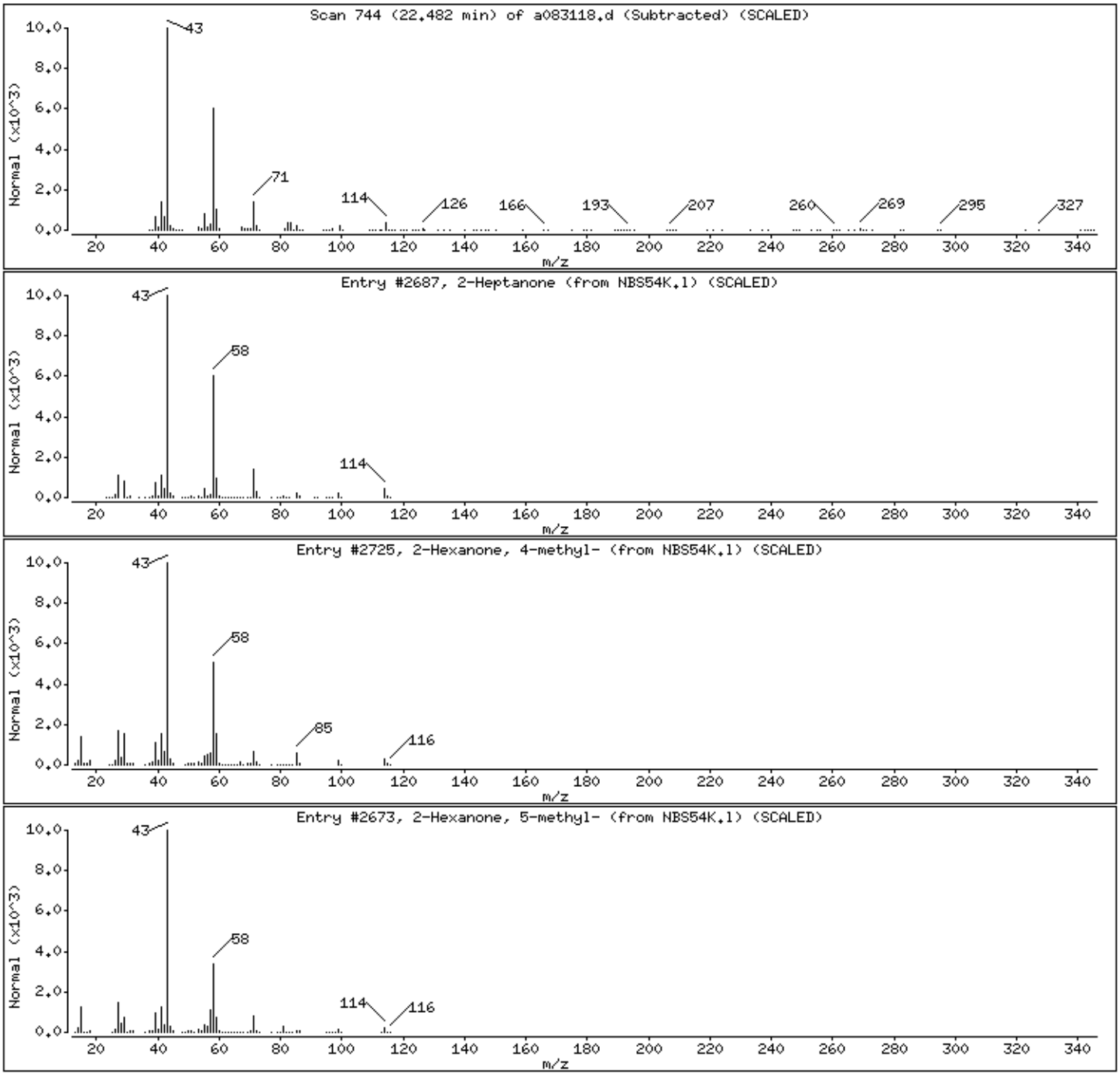
Sample Info: 125mL #95611

Operator: jc

Column phase: RTx-624

Column diameter: 0.32

| Library Search Compound Match | CAS Number | Library | Entry | Quality | Formula | Weight |
|---|---|---|---|---|---|---|
| 2-Heptanone | 110-43-0 | NBS54K.l | 2687 | 91 | C7H140 | 114 |
| 2-Hexanone, 4-methyl- | 105-42-0 | NBS54K.l | 2725 | 72 | C7H140 | 114 |
| 2-Hexanone, 5-methyl- | 110-12-3 | NBS54K.l | 2673 | 53 | C7H140 | 114 |



# QC Results and Raw Data

Air Toxics LTD.
Laboratory Services Since 1989

**Client Sample ID: Lab Blank**

**Lab ID#: 1108582-09A**

**MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN**

| | | | |
|---|---|---|---|
| **File Name:** | **a083109a** | **Date of Collection: NA** | |
| **Dil. Factor:** | **1.00** | **Date of Analysis: 8/31/11 02:00 PM** | |

| Compound | Rpt. Limit (ppbv) | Amount (ppbv) | Rpt. Limit (ug/m3) | Amount (ug/m3) |
|---|---|---|---|---|
| Freon 12 | 0.10 | Not Detected | 0.49 | Not Detected |
| Freon 114 | 0.10 | Not Detected | 0.70 | Not Detected |
| Chloromethane | 0.10 | Not Detected | 0.21 | Not Detected |
| Vinyl Chloride | 0.10 | Not Detected | 0.26 | Not Detected |
| 1,3-Butadiene | 0.10 | Not Detected | 0.22 | Not Detected |
| Bromomethane | 0.10 | Not Detected | 0.39 | Not Detected |
| Chloroethane | 0.50 | Not Detected | 1.3 | Not Detected |
| Freon 11 | 0.10 | Not Detected | 0.56 | Not Detected |
| Ethanol | 0.50 | Not Detected | 0.94 | Not Detected |
| Freon 113 | 0.10 | Not Detected | 0.77 | Not Detected |
| 1,1-Dichloroethene | 0.10 | Not Detected | 0.40 | Not Detected |
| Acetone | 0.50 | Not Detected | 1.2 | Not Detected |
| 2-Propanol | 0.50 | Not Detected | 1.2 | Not Detected |
| Carbon Disulfide | 0.50 | Not Detected | 1.6 | Not Detected |
| 3-Chloropropene | 0.50 | Not Detected | 1.6 | Not Detected |
| Methylene Chloride | 0.20 | Not Detected | 0.69 | Not Detected |
| Methyl tert-butyl ether | 0.10 | Not Detected | 0.36 | Not Detected |
| trans-1,2-Dichloroethene | 0.10 | Not Detected | 0.40 | Not Detected |
| Hexane | 0.10 | Not Detected | 0.35 | Not Detected |
| 1,1-Dichloroethane | 0.10 | Not Detected | 0.40 | Not Detected |
| 2-Butanone (Methyl Ethyl Ketone) | 0.50 | Not Detected | 1.5 | Not Detected |
| cis-1,2-Dichloroethene | 0.10 | Not Detected | 0.40 | Not Detected |
| Tetrahydrofuran | 0.50 | Not Detected | 1.5 | Not Detected |
| Chloroform | 0.10 | Not Detected | 0.49 | Not Detected |
| 1,1,1-Trichloroethane | 0.10 | Not Detected | 0.54 | Not Detected |
| Cyclohexane | 0.10 | Not Detected | 0.34 | Not Detected |
| Carbon Tetrachloride | 0.10 | Not Detected | 0.63 | Not Detected |
| 2,2,4-Trimethylpentane | 0.50 | Not Detected | 2.3 | Not Detected |
| Benzene | 0.10 | Not Detected | 0.32 | Not Detected |
| 1,2-Dichloroethane | 0.10 | Not Detected | 0.40 | Not Detected |
| Heptane | 0.10 | Not Detected | 0.41 | Not Detected |
| Trichloroethene | 0.10 | Not Detected | 0.54 | Not Detected |
| 1,2-Dichloropropane | 0.10 | Not Detected | 0.46 | Not Detected |
| 1,4-Dioxane | 0.10 | Not Detected | 0.36 | Not Detected |
| Bromodichloromethane | 0.10 | Not Detected | 0.67 | Not Detected |
| cis-1,3-Dichloropropene | 0.10 | Not Detected | 0.45 | Not Detected |
| 4-Methyl-2-pentanone | 0.10 | Not Detected | 0.41 | Not Detected |
| Toluene | 0.10 | Not Detected | 0.38 | Not Detected |
| trans-1,3-Dichloropropene | 0.10 | Not Detected | 0.45 | Not Detected |
| 1,1,2-Trichloroethane | 0.10 | Not Detected | 0.54 | Not Detected |
| Tetrachloroethene | 0.10 | Not Detected | 0.68 | Not Detected |

Air Toxics LTD.
Laboratory Services Since 1989

**Client Sample ID: Lab Blank**

**Lab ID#: 1108582-09A**

**MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN**

| | | | |
|---|---|---|---|
| **File Name:** | **a083109a** | **Date of Collection: NA** | |
| **Dil. Factor:** | **1.00** | **Date of Analysis: 8/31/11 02:00 PM** | |

| Compound | Rpt. Limit (ppbv) | Amount (ppbv) | Rpt. Limit (ug/m3) | Amount (ug/m3) |
|---|---|---|---|---|
| 2-Hexanone | 0.50 | Not Detected | 2.0 | Not Detected |
| Dibromochloromethane | 0.10 | Not Detected | 0.85 | Not Detected |
| 1,2-Dibromoethane (EDB) | 0.10 | Not Detected | 0.77 | Not Detected |
| Chlorobenzene | 0.10 | Not Detected | 0.46 | Not Detected |
| Ethyl Benzene | 0.10 | Not Detected | 0.43 | Not Detected |
| m,p-Xylene | 0.10 | Not Detected | 0.43 | Not Detected |
| o-Xylene | 0.10 | Not Detected | 0.43 | Not Detected |
| Styrene | 0.10 | Not Detected | 0.42 | Not Detected |
| Bromoform | 0.10 | Not Detected | 1.0 | Not Detected |
| Cumene | 0.10 | Not Detected | 0.49 | Not Detected |
| 1,1,2,2-Tetrachloroethane | 0.10 | Not Detected | 0.69 | Not Detected |
| Propylbenzene | 0.10 | Not Detected | 0.49 | Not Detected |
| 4-Ethyltoluene | 0.10 | Not Detected | 0.49 | Not Detected |
| 1,3,5-Trimethylbenzene | 0.10 | Not Detected | 0.49 | Not Detected |
| 1,2,4-Trimethylbenzene | 0.10 | Not Detected | 0.49 | Not Detected |
| 1,3-Dichlorobenzene | 0.10 | Not Detected | 0.60 | Not Detected |
| 1,4-Dichlorobenzene | 0.10 | Not Detected | 0.60 | Not Detected |
| alpha-Chlorotoluene | 0.10 | Not Detected | 0.52 | Not Detected |
| 1,2-Dichlorobenzene | 0.10 | Not Detected | 0.60 | Not Detected |
| 1,2,4-Trichlorobenzene | 0.50 | Not Detected | 3.7 | Not Detected |
| Hexachlorobutadiene | 0.50 | Not Detected | 5.3 | Not Detected |
| 2,3-Dimethylpentane | 0.50 | Not Detected | 2.0 | Not Detected |
| 2-Methylpentane | 0.50 | Not Detected | 1.8 | Not Detected |
| Indene | 0.50 | Not Detected | 2.4 | Not Detected |
| Indan | 0.50 | Not Detected | 2.4 | Not Detected |
| Isopentane | 0.50 | Not Detected | 1.5 | Not Detected |
| Naphthalene | 0.50 | Not Detected | 2.6 | Not Detected |
| Thiophene | 0.50 | Not Detected | 1.7 | Not Detected |

**TENTATIVELY IDENTIFIED COMPOUNDS**

| Compound | CAS Number | Match Quality | Amount ((ppbv)) |
|---|---|---|---|
| None Identified | | | |

**Container Type: NA - Not Applicable**

| Surrogates | %Recovery | Method Limits |
|---|---|---|
| 1,2-Dichloroethane-d4 | 96 | 70-130 |
| Toluene-d8 | 101 | 70-130 |
| 4-Bromofluorobenzene | 100 | 70-130 |

Air Toxics Ltd.

AMBIENT AIR METHOD TO14/TO15

Data file : /chem/msda.i/31Aug2011.b/a083109a.d
Lab Smp Id: Lab Blank Client Smp ID: Lab Blank
Inj Date : 31-AUG-2011 14:00
Operator : jc Inst ID: msda.i
Smp Info : 250mL #9936
Misc Info : HUMID
Comment :
Method : /chem/msda.i/31Aug2011.b/a11l0818b.m
Meth Date : 13-Sep-2011 10:16 ejakob Quant Type: ISTD
Cal Date : 31-AUG-2011 11:39 Cal File: a083106.d
Als bottle: 15
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: Par16136.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

| | | | | CONCENTRATIONS ON-COL | FINAL | | |
|---|---|---|---|---|---|---|---|
| RT | EXP RT (REL RT) | MASS | RESPONSE | ( PPBV) | ( PPBV) | TARGET RANGE | RATIO |
| * 52 Bromochloromethane | | | | | CAS #: 74-97-5 | | |
| 15.406 | 15.406 (1.000) | 130 | 195811 | 10.0000 | | 80.00- 120.00 | 100.00 |
| 15.406 | 15.406 (1.000) | 128 | 152545 | | | 0.00- 30.00 | 77.90 |
| 15.406 | 15.406 (1.000) | 49 | 337293 | | | 0.00- 30.00 | 172.25 |
| * 66 1,4-Difluorobenzene | | | | | CAS #: 540-36-3 | | |
| 16.825 | 16.825 (1.000) | 114 | 950844 | 10.0000 | | 80.00- 120.00 | 100.00 |
| 16.798 | 16.825 (1.000) | 88 | 162166 | | | 0.00- 30.00 | 17.05 |
| * 88 Chlorobenzene-d5 | | | | | CAS #: 3114-55-4 | | |
| 21.614 | 21.614 (1.000) | 117 | 836398 | 10.0000 | | 80.00- 120.00 | 100.00 |
| 21.590 | 21.614 (1.000) | 82 | 498828 | | | 0.00- 30.00 | 59.64 |
| $ 61 1,2-Dichloroethane-d4 | | | | | CAS #: 17060-07-0 | | |
| 16.249 | 16.248 (1.055) | 65 | 337466 | 9.57736 | 9.577 | 80.00- 120.00 | 100.00 |
| 16.249 | 16.248 (1.055) | 67 | 173777 | | | 21.17- 81.17 | 51.49 |
| $ 80 Toluene-d8 | | | | | CAS #: 2037-26-5 | | |
| 19.389 | 19.411 (1.152) | 98 | 932288 | 10.0859 | 10.086 | 80.00- 120.00 | 100.00 |
| 19.389 | 19.411 (1.152) | 70 | 111038 | | | 0.00- 41.96 | 11.91 |

| RT | EXP RT (REL RT) | MASS | RESPONSE | CONCENTRATIONS ON-COL ( PPBV) | CONCENTRATIONS FINAL ( PPBV) | TARGET RANGE | RATIO |
|---|---|---|---|---|---|---|---|
| $ 80 Toluene-d8 (continued) | | | | | | | |
| 19.389 | 19.411 (1.152) | 100 | 622946 | | | 36.91- 96.91 | 66.82 |
| $ 100 Bromofluorobenzene | | | | | CAS #: 460-00-4 | | |
| 23.068 | 23.068 (1.067) | 174 | 437474 | 10.0422 | 10.042 | 80.00- 120.00 | 100.00 |
| 23.068 | 23.068 (1.067) | 95 | 626391 | | | 114.98- 174.98 | 143.18 |
| 23.068 | 23.068 (1.067) | 176 | 422708 | | | 67.23- 127.23 | 96.62 |

Air Toxics Ltd.

AMBIENT AIR METHOD TO14/TO15

Data file : /chem/msda.i/31Aug2011.b/a083109a.d
Lab Smp Id: Lab Blank Client Smp ID: Lab Blank
Inj Date : 31-AUG-2011 14:00
Operator : jc Inst ID: msda.i
Smp Info : 250mL #9936
Misc Info : HUMID
Comment :
Method : /chem/msda.i/31Aug2011.b/a11l0818b.m
Meth Date : 13-Sep-2011 10:16 ejakob Quant Type: ISTD
Cal Date : 31-AUG-2011 11:39 Cal File: a083106.d
Als bottle: 15
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: Par16136.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

- NO TENTATIVELY IDENTIFIED COMPOUNDS -

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msda.i
Lab File ID: a083109a.d
Lab Smp Id: Lab Blank
Analysis Type: VOA
Quant Type: ISTD
Operator: jc
Method File: /chem/msda.i/31Aug2011.b/a11l0818b.m
Misc Info: HUMID

Calibration Date: 31-AUG-2011
Calibration Time: 08:01
Client Smp ID: Lab Blank
Level: LOW
Sample Type: AIR

| | | AREA LIMIT | | | |
|---|---|---|---|---|---|
| COMPOUND | STANDARD | LOWER | UPPER | SAMPLE | %DIFF |
| 52 Bromochloromethan | 206450 | 123870 | 289030 | 195811 | -5.15 |
| 66 1,4-Difluorobenze | 897592 | 538555 | 1256629 | 950844 | 5.93 |
| 88 Chlorobenzene-d5 | 792197 | 475318 | 1109076 | 836398 | 5.58 |

| | | RT LIMIT | | | |
|---|---|---|---|---|---|
| COMPOUND | STANDARD | LOWER | UPPER | SAMPLE | %DIFF |
| 52 Bromochloromethan | 15.41 | 15.08 | 15.74 | 15.41 | 0.00 |
| 66 1,4-Difluorobenze | 16.82 | 16.50 | 17.15 | 16.83 | 0.00 |
| 88 Chlorobenzene-d5 | 21.61 | 21.28 | 21.94 | 21.61 | 0.00 |

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Report Date: 13-Sep-2011 10:17

Air Toxics Ltd.

RECOVERY REPORT

Client Name: Client SDG: 31Aug2011
Sample Matrix: GAS Fraction: VOA
Lab Smp Id: Lab Blank Client Smp ID: Lab Blank
Level: LOW Operator: jc
Data Type: MS DATA SampleType: SAMPLE
SpikeList File: AT09.spk Quant Type: ISTD
Sublist File: Par16136.sub
Method File: /chem/msda.i/31Aug2011.b/a11l0818b.m
Misc Info: HUMID

| SURROGATE COMPOUND | CONC ADDED PPBV | CONC RECOVERED PPBV | % RECOVERED | LIMITS |
|---|---|---|---|---|
| $ 61 1,2-Dichloroethane | 10.000 | 9.577 | 95.77 | 70-130 |
| $ 80 Toluene-d8 | 10.000 | 10.086 | 100.86 | 70-130 |
| $ 100 Bromofluorobenzene | 10.000 | 10.042 | 100.42 | 70-130 |

±a

Data File: /chem/msda.i/31Aug2011.b/a083109a.d



Date : 31-AUG-2011 14:00

Client ID: Lab Blank

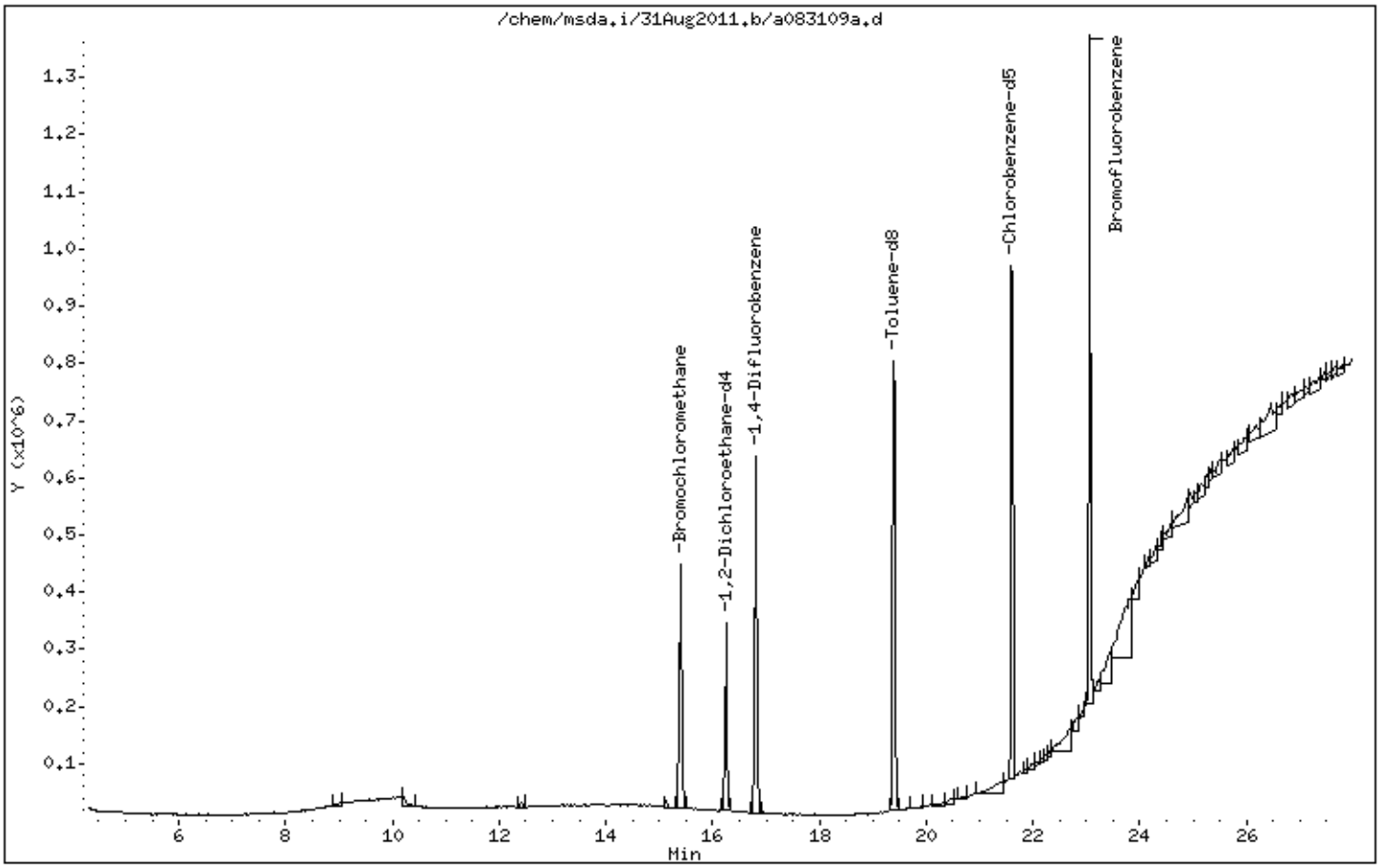
Instrument: msda.i

Sample Info: 250mL #9936

Operator: jc

Column phase: RTx-624

Column diameter: 0.32



Air Toxics LTD.
Laboratory Services Since 1989

**Client Sample ID: Lab Blank**

**Lab ID#: 1108582-09B**

**MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN**

| | | | |
|---|---|---|---|
| **File Name:** | **a090107** | **Date of Collection: NA** | |
| **Dil. Factor:** | **1.00** | **Date of Analysis: 9/1/11 12:52 PM** | |

| Compound | Rpt. Limit (ppbv) | Amount (ppbv) | Rpt. Limit (ug/m3) | Amount (ug/m3) |
|---|---|---|---|---|
| Freon 12 | 0.10 | Not Detected | 0.49 | Not Detected |
| Freon 114 | 0.10 | Not Detected | 0.70 | Not Detected |
| Chloromethane | 0.10 | Not Detected | 0.21 | Not Detected |
| Vinyl Chloride | 0.10 | Not Detected | 0.26 | Not Detected |
| 1,3-Butadiene | 0.10 | Not Detected | 0.22 | Not Detected |
| Bromomethane | 0.10 | Not Detected | 0.39 | Not Detected |
| Chloroethane | 0.50 | Not Detected | 1.3 | Not Detected |
| Freon 11 | 0.10 | Not Detected | 0.56 | Not Detected |
| Ethanol | 0.50 | Not Detected | 0.94 | Not Detected |
| Freon 113 | 0.10 | Not Detected | 0.77 | Not Detected |
| 1,1-Dichloroethene | 0.10 | Not Detected | 0.40 | Not Detected |
| Acetone | 0.50 | Not Detected | 1.2 | Not Detected |
| 2-Propanol | 0.50 | Not Detected | 1.2 | Not Detected |
| Carbon Disulfide | 0.50 | Not Detected | 1.6 | Not Detected |
| 3-Chloropropene | 0.50 | Not Detected | 1.6 | Not Detected |
| Methylene Chloride | 0.20 | Not Detected | 0.69 | Not Detected |
| Methyl tert-butyl ether | 0.10 | Not Detected | 0.36 | Not Detected |
| trans-1,2-Dichloroethene | 0.10 | Not Detected | 0.40 | Not Detected |
| Hexane | 0.10 | Not Detected | 0.35 | Not Detected |
| 1,1-Dichloroethane | 0.10 | Not Detected | 0.40 | Not Detected |
| 2-Butanone (Methyl Ethyl Ketone) | 0.50 | Not Detected | 1.5 | Not Detected |
| cis-1,2-Dichloroethene | 0.10 | Not Detected | 0.40 | Not Detected |
| Tetrahydrofuran | 0.50 | Not Detected | 1.5 | Not Detected |
| Chloroform | 0.10 | Not Detected | 0.49 | Not Detected |
| 1,1,1-Trichloroethane | 0.10 | Not Detected | 0.54 | Not Detected |
| Cyclohexane | 0.10 | Not Detected | 0.34 | Not Detected |
| Carbon Tetrachloride | 0.10 | Not Detected | 0.63 | Not Detected |
| 2,2,4-Trimethylpentane | 0.50 | Not Detected | 2.3 | Not Detected |
| Benzene | 0.10 | Not Detected | 0.32 | Not Detected |
| 1,2-Dichloroethane | 0.10 | Not Detected | 0.40 | Not Detected |
| Heptane | 0.10 | Not Detected | 0.41 | Not Detected |
| Trichloroethene | 0.10 | Not Detected | 0.54 | Not Detected |
| 1,2-Dichloropropane | 0.10 | Not Detected | 0.46 | Not Detected |
| 1,4-Dioxane | 0.10 | Not Detected | 0.36 | Not Detected |
| Bromodichloromethane | 0.10 | Not Detected | 0.67 | Not Detected |
| cis-1,3-Dichloropropene | 0.10 | Not Detected | 0.45 | Not Detected |
| 4-Methyl-2-pentanone | 0.10 | Not Detected | 0.41 | Not Detected |
| Toluene | 0.10 | Not Detected | 0.38 | Not Detected |
| trans-1,3-Dichloropropene | 0.10 | Not Detected | 0.45 | Not Detected |
| 1,1,2-Trichloroethane | 0.10 | Not Detected | 0.54 | Not Detected |
| Tetrachloroethene | 0.10 | Not Detected | 0.68 | Not Detected |

Air Toxics LTD.
Laboratory Services Since 1989

**Client Sample ID: Lab Blank**

**Lab ID#: 1108582-09B**

**MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN**

| | | | |
|---|---|---|---|
| **File Name:** | **a090107** | **Date of Collection: NA** | |
| **Dil. Factor:** | **1.00** | **Date of Analysis: 9/1/11 12:52 PM** | |

| Compound | Rpt. Limit (ppbv) | Amount (ppbv) | Rpt. Limit (ug/m3) | Amount (ug/m3) |
|---|---|---|---|---|
| 2-Hexanone | 0.50 | Not Detected | 2.0 | Not Detected |
| Dibromochloromethane | 0.10 | Not Detected | 0.85 | Not Detected |
| 1,2-Dibromoethane (EDB) | 0.10 | Not Detected | 0.77 | Not Detected |
| Chlorobenzene | 0.10 | Not Detected | 0.46 | Not Detected |
| Ethyl Benzene | 0.10 | Not Detected | 0.43 | Not Detected |
| m,p-Xylene | 0.10 | Not Detected | 0.43 | Not Detected |
| o-Xylene | 0.10 | Not Detected | 0.43 | Not Detected |
| Styrene | 0.10 | Not Detected | 0.42 | Not Detected |
| Bromoform | 0.10 | Not Detected | 1.0 | Not Detected |
| Cumene | 0.10 | Not Detected | 0.49 | Not Detected |
| 1,1,2,2-Tetrachloroethane | 0.10 | Not Detected | 0.69 | Not Detected |
| Propylbenzene | 0.10 | Not Detected | 0.49 | Not Detected |
| 4-Ethyltoluene | 0.10 | Not Detected | 0.49 | Not Detected |
| 1,3,5-Trimethylbenzene | 0.10 | Not Detected | 0.49 | Not Detected |
| 1,2,4-Trimethylbenzene | 0.10 | Not Detected | 0.49 | Not Detected |
| 1,3-Dichlorobenzene | 0.10 | Not Detected | 0.60 | Not Detected |
| 1,4-Dichlorobenzene | 0.10 | Not Detected | 0.60 | Not Detected |
| alpha-Chlorotoluene | 0.10 | Not Detected | 0.52 | Not Detected |
| 1,2-Dichlorobenzene | 0.10 | Not Detected | 0.60 | Not Detected |
| 1,2,4-Trichlorobenzene | 0.50 | Not Detected | 3.7 | Not Detected |
| Hexachlorobutadiene | 0.50 | Not Detected | 5.3 | Not Detected |
| 2,3-Dimethylpentane | 0.50 | Not Detected | 2.0 | Not Detected |
| 2-Methylpentane | 0.50 | Not Detected | 1.8 | Not Detected |
| Indene | 0.50 | Not Detected | 2.4 | Not Detected |
| Indan | 0.50 | Not Detected | 2.4 | Not Detected |
| Isopentane | 0.50 | Not Detected | 1.5 | Not Detected |
| Naphthalene | 0.50 | Not Detected | 2.6 | Not Detected |
| Thiophene | 0.50 | Not Detected | 1.7 | Not Detected |

**TENTATIVELY IDENTIFIED COMPOUNDS**

| Compound | CAS Number | Match Quality | Amount ((ppbv)) |
|---|---|---|---|
| None Identified | | | |

**Container Type: NA - Not Applicable**

| Surrogates | %Recovery | Method Limits |
|---|---|---|
| 1,2-Dichloroethane-d4 | 95 | 70-130 |
| Toluene-d8 | 100 | 70-130 |
| 4-Bromofluorobenzene | 98 | 70-130 |

Air Toxics Ltd.

AMBIENT AIR METHOD TO14/TO15

Data file : /chem/msda.i/01Sep2011.b/a090107.d
Lab Smp Id: lab blank Client Smp ID: lab blank
Inj Date : 01-SEP-2011 12:52
Operator : dfm Inst ID: msda.i
Smp Info : 250mL #9936
Misc Info : humid
Comment :
Method : /chem/msda.i/01Sep2011.b/a11l0818b.m
Meth Date : 01-Sep-2011 11:33 croush Quant Type: ISTD
Cal Date : 31-AUG-2011 12:17 Cal File: a083107.d
Als bottle: 16
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: Par16136.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

| | | | | CONCENTRATIONS ON-COL | FINAL | | |
|---|---|---|---|---|---|---|---|
| RT | EXP RT (REL RT) | MASS | RESPONSE | ( PPBV) | ( PPBV) | TARGET RANGE | RATIO |
| * 52 Bromochloromethane | | | | | | CAS #: 74-97-5 | |
| 15.406 | 15.406 (1.000) | 130 | 196047 | 10.0000 | | 80.00- 120.00 | 100.00 |
| 15.406 | 15.406 (1.000) | 128 | 150461 | | | 0.00- 30.00 | 76.75 |
| 15.406 | 15.406 (1.000) | 49 | 339128 | | | 0.00- 30.00 | 172.98 |
| * 66 1,4-Difluorobenzene | | | | | | CAS #: 540-36-3 | |
| 16.798 | 16.825 (1.000) | 114 | 932869 | 10.0000 | | 80.00- 120.00 | 100.00 |
| 16.798 | 16.798 (1.000) | 88 | 158484 | | | 0.00- 30.00 | 16.99 |
| * 88 Chlorobenzene-d5 | | | | | | CAS #: 3114-55-4 | |
| 21.590 | 21.614 (1.000) | 117 | 818122 | 10.0000 | | 80.00- 120.00 | 100.00 |
| 21.590 | 21.590 (1.000) | 82 | 474953 | | | 0.00- 30.00 | 58.05 |
| $ 61 1,2-Dichloroethane-d4 | | | | | | CAS #: 17060-07-0 | |
| 16.248 | 16.249 (1.055) | 65 | 335116 | 9.49922 | 9.499 | 80.00- 120.00 | 100.00 |
| 16.248 | 16.249 (1.055) | 67 | 171059 | | | 21.17- 81.17 | 51.04 |
| $ 80 Toluene-d8 | | | | | | CAS #: 2037-26-5 | |
| 19.389 | 19.389 (1.154) | 98 | 905260 | 9.98217 | 9.982 | 80.00- 120.00 | 100.00 |
| 19.389 | 19.389 (1.154) | 70 | 107569 | | | 0.00- 41.96 | 11.88 |

| RT | EXP RT (REL RT) | MASS | RESPONSE | CONCENTRATIONS ON-COL ( PPBV) | FINAL ( PPBV) | TARGET RANGE | RATIO |
|---|---|---|---|---|---|---|---|
| $ 80 Toluene-d8 (continued) | | | | | | | |
| 19.389 | 19.389 (1.154) | 100 | 612203 | | | 36.89- 96.89 | 67.63 |
| $ 100 Bromofluorobenzene | | | | | CAS #: 460-00-4 | | |
| 23.068 | 23.068 (1.068) | 174 | 415646 | 9.75432 | 9.754 | 80.00- 120.00 | 100.00 |
| 23.068 | 23.068 (1.068) | 95 | 594219 | | | 114.38- 174.38 | 142.96 |
| 23.068 | 23.068 (1.068) | 176 | 397426 | | | 66.49- 126.49 | 95.62 |

Air Toxics Ltd.

AMBIENT AIR METHOD TO14/TO15

Data file : /chem/msda.i/01Sep2011.b/a090107.d
Lab Smp Id: lab blank Client Smp ID: lab blank
Inj Date : 01-SEP-2011 12:52
Operator : dfm Inst ID: msda.i
Smp Info : 250mL #9936
Misc Info : humid
Comment :
Method : /chem/msda.i/01Sep2011.b/a11l0818b.m
Meth Date : 01-Sep-2011 11:33 croush Quant Type: ISTD
Cal Date : 31-AUG-2011 12:17 Cal File: a083107.d
Als bottle: 16
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: Par16136.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

- NO TENTATIVELY IDENTIFIED COMPOUNDS -

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msda.i
Lab File ID: a090107.d
Lab Smp Id: lab blank
Analysis Type: VOA
Quant Type: ISTD
Operator: dfm
Method File: /chem/msda.i/01Sep2011.b/a11l0818b.m
Misc Info: humid

Calibration Date: 01-SEP-2011
Calibration Time: 08:06
Client Smp ID: lab blank
Level: LOW
Sample Type: AIR

| | | AREA LIMIT | | | |
|---|---|---|---|---|---|
| COMPOUND | STANDARD | LOWER | UPPER | SAMPLE | %DIFF |
| 52 Bromochloromethan | 204525 | 122715 | 286335 | 196047 | -4.15 |
| 66 1,4-Difluorobenze | 937041 | 562225 | 1311857 | 932869 | -0.45 |
| 88 Chlorobenzene-d5 | 804938 | 482963 | 1126913 | 818122 | 1.64 |

| | | RT LIMIT | | | |
|---|---|---|---|---|---|
| COMPOUND | STANDARD | LOWER | UPPER | SAMPLE | %DIFF |
| 52 Bromochloromethan | 15.41 | 15.08 | 15.74 | 15.41 | 0.00 |
| 66 1,4-Difluorobenze | 16.83 | 16.50 | 17.16 | 16.80 | -0.16 |
| 88 Chlorobenzene-d5 | 21.61 | 21.28 | 21.94 | 21.59 | -0.11 |

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Report Date: 01-Sep-2011 14:18

Air Toxics Ltd.

RECOVERY REPORT

Client Name: Client SDG: 01Sep2011
Sample Matrix: GAS Fraction: VOA
Lab Smp Id: lab blank Client Smp ID: lab blank
Level: LOW Operator: dfm
Data Type: MS DATA SampleType: SAMPLE
SpikeList File: AT09.spk Quant Type: ISTD
Sublist File: Par16136.sub
Method File: /chem/msda.i/01Sep2011.b/a11l0818b.m
Misc Info: humid

| SURROGATE COMPOUND | CONC ADDED PPBV | CONC RECOVERED PPBV | % RECOVERED | LIMITS |
|---|---|---|---|---|
| $ 61 1,2-Dichloroethane | 10.000 | 9.499 | 94.99 | 70-130 |
| $ 80 Toluene-d8 | 10.000 | 9.982 | 99.82 | 70-130 |
| $ 100 Bromofluorobenzene | 10.000 | 9.754 | 97.54 | 70-130 |

Mc

Data File: /chem/msda.i/01Sep2011.b/a090107.d



Date : 01-SEP-2011 12:52

Client ID: lab blank

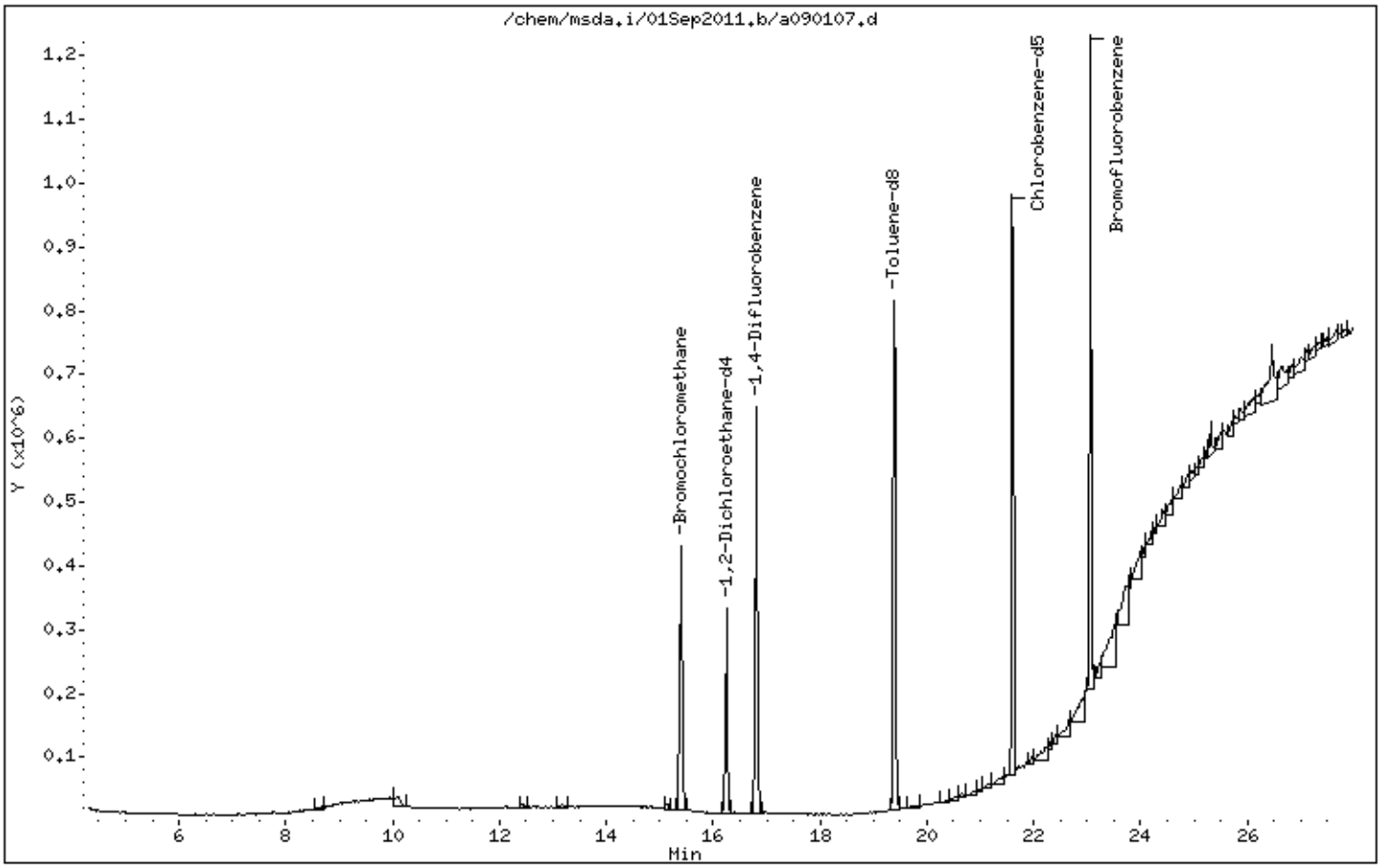
Instrument: msda.i

Sample Info: 250mL #9936

Operator: dfm

Column phase: RTx-624

Column diameter: 0.32



# LEVEL-IV VALIDATABLE

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

SURROGATE RECOVERY FORM

Lab Name: AIR TOXICS LIMITED. SDG No.: 1108582

| | CLIENT SAMPLE NO. | SURROGATE % RECOVERY | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | 1,2-Dichloroethane-d4 | # | Toluene-d8 | # | 4-Bromofluorobenzene | # | | # | TOTAL OUT |
| 01 | SG-6 | 101 | | 98 | | 106 | | | | 0 |
| 02 | SG-7 | 107 | | 101 | | 102 | | | | 0 |
| 03 | SG-10 | 106 | | 104 | | 122 | | | | 0 |
| 04 | SG-8 | 102 | | 102 | | 101 | | | | 0 |
| 05 | SG-9 | 108 | | 102 | | 97 | | | | 0 |
| 06 | SG-1 | 108 | | 101 | | 106 | | | | 0 |
| 07 | SG-2 | 103 | | 100 | | 115 | | | | 0 |
| 08 | SG-11 | 109 | | 104 | | 108 | | | | 0 |
| 09 | Lab Blank | 96 | | 101 | | 100 | | | | 0 |
| 10 | Lab Blank | 95 | | 100 | | 98 | | | | 0 |
| 11 | CCV | 103 | | 101 | | 101 | | | | 0 |
| 12 | CCV | 103 | | 101 | | 102 | | | | 0 |
| 13 | LCS | 102 | | 102 | | 104 | | | | 0 |
| 14 | LCSD | 103 | | 102 | | 104 | | | | 0 |
| 15 | LCS | 99 | | 102 | | 101 | | | | 0 |
| 16 | LCSD | 102 | | 100 | | 104 | | | | 0 |
| 17 | | | | | | | | | | 0 |
| 18 | | | | | | | | | | 0 |
| 19 | | | | | | | | | | 0 |
| 20 | | | | | | | | | | 0 |
| 21 | | | | | | | | | | 0 |
| 22 | | | | | | | | | | 0 |
| 23 | | | | | | | | | | 0 |
| 24 | | | | | | | | | | 0 |

Surrogate Recovery Limits

1,2-Dichloroethane-d4 70 - 130
Toluene-d8 70 - 130
4-Bromofluorobenzene 70 - 130

* Designates values outside of QC limits

# LEVEL-IV VALIDATABLE

Modified EPA Method TO-15 GC/MS Full Scan

INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: AIR TOXICS, LTD | SDG No: 1108582

Lab File ID: a083102.d | Date Analyzed: 08/31/2011

Instrument ID: msda.i | Time Analyzed: 08:01 AM

| | | Chlorobenzene-d5 Area | # | RT | # | 1,4-Difluorobenzene Area | # | RT | # | Bromochloromethane Area | # | RT | # |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 24-HOUR STD | 792197 | | 21.61 | | 897592 | | 16.82 | | 206450 | | 15.41 | |
| | UPPER LIMIT | 1109076 | | 21.94 | | 1256629 | | 17.15 | | 289030 | | 15.74 | |
| | LOWER LIMIT | 475318 | | 21.28 | | 538555 | | 16.50 | | 123870 | | 15.08 | |
| | CLIENT SAMPLE NO | | | | | | | | | | | | |
| 01 | SG-6 | 686313 | | 21.61 | | 974703 | | 16.82 | | 218184 | | 15.41 | |
| 02 | SG-7 | 761722 | | 21.61 | | 878292 | | 16.83 | | 190087 | | 15.41 | |
| 03 | SG-10 | 636715 | | 21.61 | | 819309 | | 16.82 | | 168175 | | 15.41 | |
| 04 | SG-8 | 776378 | | 21.61 | | 902210 | | 16.8 | | 196074 | | 15.41 | |
| 05 | SG-2 | 679017 | | 21.61 | | 901271 | | 16.8 | | 203060 | | 15.41 | |
| 06 | SG-11 | 666991 | | 21.61 | | 841192 | | 16.83 | | 167338 | | 15.41 | |
| 07 | Lab Blank | 836398 | | 21.61 | | 950844 | | 16.83 | | 195811 | | 15.41 | |
| 08 | CCV | 792197 | | 21.61 | | 897592 | | 16.82 | | 206450 | | 15.41 | |
| 09 | LCS | 796029 | | 21.61 | | 899409 | | 16.83 | | 204623 | | 15.41 | |
| 10 | LCSD | 799461 | | 21.61 | | 913120 | | 16.83 | | 204663 | | 15.41 | |
| 11 | | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | | |
| 13 | | | | | | | | | | | | | |
| 14 | | | | | | | | | | | | | |
| 15 | | | | | | | | | | | | | |
| 16 | | | | | | | | | | | | | |
| 17 | | | | | | | | | | | | | |
| 18 | | | | | | | | | | | | | |
| 19 | | | | | | | | | | | | | |
| 20 | | | | | | | | | | | | | |
| 21 | | | | | | | | | | | | | |
| 22 | | | | | | | | | | | | | |

'Area Upper Limit=+40% of internal standard area'

'Area Lower Limit=-40% of internal standard area'

RT Upper Limit=+0.33 minutes of internal standard RT

RT Lower Limit=-0.33 minutes of internal standard RT

* Designates values outside of QC limits

# LEVEL-IV VALIDATABLE

Modified EPA Method TO-15 GC/MS Full Scan

INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: AIR TOXICS, LTD | SDG No: 1108582

Lab File ID: a090102.d | Date Analyzed: 09/01/2011

Instrument ID: msda.i | Time Analyzed: 08:06 AM

| | | Chlorobenzene-d5 Area | # | RT | # | 1,4-Difluorobenzene Area | # | RT | # | Bromochloromethane Area | # | RT | # |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 24-HOUR STD | 804938 | | 21.61 | | 937041 | | 16.83 | | 204525 | | 15.41 | |
| | UPPER LIMIT | 1126913 | | 21.94 | | 1311857 | | 17.16 | | 286335 | | 15.74 | |
| | LOWER LIMIT | 482963 | | 21.28 | | 562225 | | 16.50 | | 122715 | | 15.08 | |
| | CLIENT SAMPLE NO | | | | | | | | | | | | |
| 01 | SG-9 | 766273 | | 21.61 | | 892310 | | 16.82 | | 188175 | | 15.41 | |
| 02 | SG-1 | 668465 | | 21.61 | | 870181 | | 16.82 | | 182488 | | 15.41 | |
| 03 | Lab Blank | 818122 | | 21.59 | | 932869 | | 16.8 | | 196047 | | 15.41 | |
| 04 | CCV | 804938 | | 21.61 | | 937041 | | 16.83 | | 204525 | | 15.41 | |
| 05 | LCS | 786303 | | 21.61 | | 887512 | | 16.82 | | 196821 | | 15.41 | |
| 06 | LCSD | 794279 | | 21.61 | | 922556 | | 16.82 | | 198744 | | 15.41 | |
| 07 | | | | | | | | | | | | | |
| 08 | | | | | | | | | | | | | |
| 09 | | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | | |
| 13 | | | | | | | | | | | | | |
| 14 | | | | | | | | | | | | | |
| 15 | | | | | | | | | | | | | |
| 16 | | | | | | | | | | | | | |
| 17 | | | | | | | | | | | | | |
| 18 | | | | | | | | | | | | | |
| 19 | | | | | | | | | | | | | |
| 20 | | | | | | | | | | | | | |
| 21 | | | | | | | | | | | | | |
| 22 | | | | | | | | | | | | | |

'Area Upper Limit=+40% of internal standard area'

'Area Lower Limit=-40% of internal standard area'

RT Upper Limit=+0.33 minutes of internal standard RT

RT Lower Limit=-0.33 minutes of internal standard RT

* Designates values outside of QC limits

# SAMPLE RESULTS/SAMPLE RESULTS DUPLICATE

Lab Name: Air Toxics Ltd.
Lab File ID: a083104.d & a083103.d
Lab Sample ID: &
Dilution: 1.00 & 1.00
Client Sample ID: LCS & LCSD
Date Analyzed: 8/31/11 & 8/31/11

| CAS Number | Compound | Original Amount | Original Flags | Duplicate Amount | Duplicate Flags | RPD | Result Less Than 5X RL |
|---|---|---|---|---|---|---|---|
| 71-55-6 | 1,1,1-Trichloroethane | 85 | | 87 | | 2.3 | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 94 | | 96 | | 2.1 | |
| 79-00-5 | 1,1,2-Trichloroethane | 85 | | 87 | | 2.3 | |
| 75-34-3 | 1,1-Dichloroethane | 94 | | 96 | | 2.1 | |
| 75-35-4 | 1,1-Dichloroethene | 95 | | 97 | | 2.1 | |
| 120-82-1 | 1,2,4-Trichlorobenzene | 102 | | 121 | | 17 | |
| 95-63-6 | 1,2,4-Trimethylbenzene | 85 | | 85 | | 0 | |
| 106-93-4 | 1,2-Dibromoethane (EDB) | 89 | | 91 | | 2.2 | |
| 95-50-1 | 1,2-Dichlorobenzene | 85 | | 85 | | 0 | |
| 107-06-2 | 1,2-Dichloroethane | 95 | | 96 | | 1.0 | |
| 78-87-5 | 1,2-Dichloropropane | 94 | | 94 | | 0 | |
| 108-67-8 | 1,3,5-Trimethylbenzene | 93 | | 92 | | 1.1 | |
| 106-99-0 | 1,3-Butadiene | 90 | | 92 | | 2.2 | |
| 541-73-1 | 1,3-Dichlorobenzene | 83 | | 83 | | 0 | |
| 106-46-7 | 1,4-Dichlorobenzene | 86 | | 86 | | 0 | |
| 123-91-1 | 1,4-Dioxane | 91 | | 94 | | 3.2 | |
| 540-84-1 | 2,2,4-Trimethylpentane | 98 | | 101 | | 3.0 | |
| 565-59-3 | 2,3-Dimethylpentane | ND | | ND | | 0 | |
| 78-93-3 | 2-Butanone (Methyl Ethyl Ketone) | 84 | | 86 | | 2.4 | |
| 591-78-6 | 2-Hexanone | 96 | | 98 | | 2.1 | |
| 107-83-5 | 2-Methylpentane | ND | | ND | | 0 | |
| 67-63-0 | 2-Propanol | 86 | | 89 | | 3.4 | |
| 107-05-1 | 3-Chloropropene | 126 | | 137 | | 8.4 | |
| 622-96-8 | 4-Ethyltoluene | 80 | | 80 | | 0 | |
| 108-10-1 | 4-Methyl-2-pentanone | 97 | | 98 | | 1.0 | |
| 67-64-1 | Acetone | 95 | | 96 | | 1.0 | |
| 100-44-7 | alpha-Chlorotoluene | 89 | | 90 | | 1.1 | |
| 71-43-2 | Benzene | 93 | | 94 | | 1.1 | |
| 75-27-4 | Bromodichloromethane | 92 | | 94 | | 2.2 | |
| 75-25-2 | Bromoform | 93 | | 96 | | 3.2 | |
| 74-83-9 | Bromomethane | 87 | | 89 | | 2.3 | |
| 75-15-0 | Carbon Disulfide | 111 | | 113 | | 1.8 | |
| 56-23-5 | Carbon Tetrachloride | 67 | | 69 | | 2.9 | |
| 108-90-7 | Chlorobenzene | 90 | | 92 | | 2.2 | |
| 75-00-3 | Chloroethane | 88 | | 90 | | 2.2 | |
| 67-66-3 | Chloroform | 86 | | 89 | | 3.4 | |
| 74-87-3 | Chloromethane | 98 | | 98 | | 0 | |
| 156-59-2 | cis-1,2-Dichloroethene | 85 | | 88 | | 3.5 | |
| 10061-01-5 | cis-1,3-Dichloropropene | 90 | | 92 | | 2.2 | |
| 98-82-8 | Cumene | 91 | | 91 | | 0 | |
| 110-82-7 | Cyclohexane | 84 | | 86 | | 2.4 | |
| 124-48-1 | Dibromochloromethane | 89 | | 91 | | 2.2 | |
| 64-17-5 | Ethanol | 262 | | 272 | | 3.7 | |
| 100-41-4 | Ethyl Benzene | 88 | | 90 | | 2.2 | |
| 75-69-4 | Freon 11 | 105 | | 108 | | 2.8 | |

Note: The results appearing in the Amount columns are the raw, unrounded numbers acquired from the instrument.

# SAMPLE RESULTS/SAMPLE RESULTS DUPLICATE

Lab Name: Air Toxics Ltd.

Lab File ID: a083104.d & a083103.d

Lab Sample ID: &

Dilution: 1.00 & 1.00

Client Sample ID: LCS & LCSD

Date Analyzed: 8/31/11 & 8/31/11

| CAS Number | Compound | Original Amount | Original Flags | Duplicate Amount | Duplicate Flags | RPD | Result Less Than 5X RL |
|---|---|---|---|---|---|---|---|
| 76-13-1 | Freon 113 | 98 | | 100 | | 2.0 | |
| 76-14-2 | Freon 114 | 87 | | 88 | | 1.1 | |
| 75-71-8 | Freon 12 | 90 | | 92 | | 2.2 | |
| 142-82-5 | Heptane | 97 | | 99 | | 2.0 | |
| 87-68-3 | Hexachlorobutadiene | 108 | | 125 | | 14 | |
| 110-54-3 | Hexane | 87 | | 88 | | 1.1 | |
| 496-11-7 | Indan | ND | | ND | | 0 | |
| 95-13-6 | Indene | ND | | ND | | 0 | |
| 78-78-4 | Isopentane | 88 | | 90 | | 2.2 | |
| 108-38-3 | m,p-Xylene | 90 | | 91 | | 1.1 | |
| 1634-04-4 | Methyl tert-butyl ether | 86 | | 89 | | 3.4 | |
| 75-09-2 | Methylene Chloride | 81 | | 83 | | 2.4 | |
| 91-20-3 | Naphthalene | 116 | | 142 | | 20 | |
| 95-47-6 | o-Xylene | 92 | | 93 | | 1.1 | |
| 103-65-1 | Propylbenzene | 94 | | 93 | | 1.1 | |
| 100-42-5 | Styrene | 87 | | 88 | | 1.1 | |
| 127-18-4 | Tetrachloroethene | 88 | | 91 | | 3.4 | |
| 109-99-9 | Tetrahydrofuran | 97 | | 99 | | 2.0 | |
| 110-02-1 | Thiophene | ND | | ND | | 0 | |
| 108-88-3 | Toluene | 90 | | 91 | | 1.1 | |
| 156-60-5 | trans-1,2-Dichloroethene | 97 | | 96 | | 1.0 | |
| 10061-02-6 | trans-1,3-Dichloropropene | 89 | | 92 | | 3.3 | |
| 79-01-6 | Trichloroethene | 92 | | 93 | | 1.1 | |
| 75-01-4 | Vinyl Chloride | 93 | | 94 | | 1.1 | |

Note: The results appearing in the Amount columns are the raw, unrounded numbers acquired from the instrument.

# SAMPLE RESULTS/SAMPLE RESULTS DUPLICATE

Lab Name: Air Toxics Ltd.

Lab File ID: a090104.d & a090103.d

Lab Sample ID: &

Dilution: 1.00 & 1.00

Client Sample ID: LCS & LCSD

Date Analyzed: 9/1/11 & 9/1/11

| CAS Number | Compound | Original Amount | Original Flags | Duplicate Amount | Duplicate Flags | RPD | Result Less Than 5X RL |
|---|---|---|---|---|---|---|---|
| 71-55-6 | 1,1,1-Trichloroethane | 85 | | 86 | | 1.2 | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 92 | | 93 | | 1.1 | |
| 79-00-5 | 1,1,2-Trichloroethane | 84 | | 85 | | 1.2 | |
| 75-34-3 | 1,1-Dichloroethane | 95 | | 93 | | 2.1 | |
| 75-35-4 | 1,1-Dichloroethene | 95 | | 94 | | 1.0 | |
| 120-82-1 | 1,2,4-Trichlorobenzene | 114 | | 105 | | 8.2 | |
| 95-63-6 | 1,2,4-Trimethylbenzene | 81 | | 84 | | 3.6 | |
| 106-93-4 | 1,2-Dibromoethane (EDB) | 88 | | 88 | | 0 | |
| 95-50-1 | 1,2-Dichlorobenzene | 81 | | 83 | | 2.4 | |
| 107-06-2 | 1,2-Dichloroethane | 93 | | 90 | | 3.3 | |
| 78-87-5 | 1,2-Dichloropropane | 93 | | 91 | | 2.2 | |
| 108-67-8 | 1,3,5-Trimethylbenzene | 86 | | 91 | | 5.6 | |
| 106-99-0 | 1,3-Butadiene | 92 | | 88 | | 4.4 | |
| 541-73-1 | 1,3-Dichlorobenzene | 80 | | 81 | | 1.2 | |
| 106-46-7 | 1,4-Dichlorobenzene | 83 | | 85 | | 2.4 | |
| 123-91-1 | 1,4-Dioxane | 90 | | 85 | | 5.7 | |
| 540-84-1 | 2,2,4-Trimethylpentane | 101 | | 102 | | 0.98 | |
| 565-59-3 | 2,3-Dimethylpentane | ND | | ND | | 0 | |
| 78-93-3 | 2-Butanone (Methyl Ethyl Ketone) | 85 | | 83 | | 2.4 | |
| 591-78-6 | 2-Hexanone | 94 | | 95 | | 1.0 | |
| 107-83-5 | 2-Methylpentane | ND | | ND | | 0 | |
| 67-63-0 | 2-Propanol | 89 | | 88 | | 1.1 | |
| 107-05-1 | 3-Chloropropene | 130 | | 131 | | 0.77 | |
| 622-96-8 | 4-Ethyltoluene | 76 | | 78 | | 2.6 | |
| 108-10-1 | 4-Methyl-2-pentanone | 96 | | 93 | | 3.2 | |
| 67-64-1 | Acetone | 96 | | 94 | | 2.1 | |
| 100-44-7 | alpha-Chlorotoluene | 85 | | 88 | | 3.5 | |
| 71-43-2 | Benzene | 92 | | 90 | | 2.2 | |
| 75-27-4 | Bromodichloromethane | 91 | | 89 | | 2.2 | |
| 75-25-2 | Bromoform | 93 | | 92 | | 1.1 | |
| 74-83-9 | Bromomethane | 84 | | 85 | | 1.2 | |
| 75-15-0 | Carbon Disulfide | 112 | | 109 | | 2.7 | |
| 56-23-5 | Carbon Tetrachloride | 67 | | 68 | | 1.5 | |
| 108-90-7 | Chlorobenzene | 89 | | 90 | | 1.1 | |
| 75-00-3 | Chloroethane | 87 | | 85 | | 2.3 | |
| 67-66-3 | Chloroform | 87 | | 86 | | 1.2 | |
| 74-87-3 | Chloromethane | 98 | | 94 | | 4.2 | |
| 156-59-2 | cis-1,2-Dichloroethene | 86 | | 84 | | 2.4 | |
| 10061-01-5 | cis-1,3-Dichloropropene | 89 | | 88 | | 1.1 | |
| 98-82-8 | Cumene | 89 | | 89 | | 0 | |
| 110-82-7 | Cyclohexane | 85 | | 86 | | 1.2 | |
| 124-48-1 | Dibromochloromethane | 88 | | 88 | | 0 | |
| 64-17-5 | Ethanol | 270 | | 270 | | 0 | |
| 100-41-4 | Ethyl Benzene | 87 | | 88 | | 1.1 | |
| 75-69-4 | Freon 11 | 107 | | 104 | | 2.8 | |

Note: The results appearing in the Amount columns are the raw, unrounded numbers acquired from the instrument.

# SAMPLE RESULTS/SAMPLE RESULTS DUPLICATE

Lab Name: Air Toxics Ltd.

Lab File ID: a090104.d & a090103.d

Lab Sample ID: &

Dilution: 1.00 & 1.00

Client Sample ID: LCS & LCSD

Date Analyzed: 9/1/11 & 9/1/11

| CAS Number | Compound | Original Amount | Original Flags | Duplicate Amount | Duplicate Flags | RPD | Result Less Than 5X RL |
|---|---|---|---|---|---|---|---|
| 76-13-1 | Freon 113 | 98 | | 98 | | 0 | |
| 76-14-2 | Freon 114 | 88 | | 85 | | 3.5 | |
| 75-71-8 | Freon 12 | 92 | | 88 | | 4.4 | |
| 142-82-5 | Heptane | 98 | | 95 | | 3.1 | |
| 87-68-3 | Hexachlorobutadiene | 116 | | 109 | | 6.2 | |
| 110-54-3 | Hexane | 88 | | 90 | | 2.2 | |
| 496-11-7 | Indan | ND | | ND | | 0 | |
| 95-13-6 | Indene | ND | | ND | | 0 | |
| 78-78-4 | Isopentane | 86 | | 85 | | 1.2 | |
| 108-38-3 | m,p-Xylene | 89 | | 89 | | 0 | |
| 1634-04-4 | Methyl tert-butyl ether | 88 | | 89 | | 1.1 | |
| 75-09-2 | Methylene Chloride | 82 | | 82 | | 0 | |
| 91-20-3 | Naphthalene | 132 | | 118 | | 11 | |
| 95-47-6 | o-Xylene | 91 | | 90 | | 1.1 | |
| 103-65-1 | Propylbenzene | 89 | | 91 | | 2.2 | |
| 100-42-5 | Styrene | 84 | | 86 | | 2.4 | |
| 127-18-4 | Tetrachloroethene | 87 | | 88 | | 1.1 | |
| 109-99-9 | Tetrahydrofuran | 98 | | 98 | | 0 | |
| 110-02-1 | Thiophene | ND | | ND | | 0 | |
| 108-88-3 | Toluene | 90 | | 88 | | 2.2 | |
| 156-60-5 | trans-1,2-Dichloroethene | 96 | | 95 | | 1.0 | |
| 10061-02-6 | trans-1,3-Dichloropropene | 88 | | 91 | | 3.4 | |
| 79-01-6 | Trichloroethene | 92 | | 90 | | 2.2 | |
| 75-01-4 | Vinyl Chloride | 94 | | 91 | | 3.2 | |

Note: The results appearing in the Amount columns are the raw, unrounded numbers acquired from the instrument.

# Air Toxics Ltd.

## INITIAL CALIBRATION DATA

Start Cal Date : 18-AUG-2011 14:46
End Cal Date : 31-AUG-2011 12:17
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/msda.i/31Aug2011.b/a11l0818b.m
Cal Date : 01-Sep-2011 08:57 croush
Curve Type : Average

Calibration File Names:
Level 4: /chem/msda.i/18Aug2011.b/a081805.d
Level 5: /chem/msda.i/18Aug2011.b/a081806.d
Level 6: /chem/msda.i/31Aug2011.b/a083105.d
Level 7: /chem/msda.i/31Aug2011.b/a083107.d
Level 8: /chem/msda.i/18Aug2011.b/a081809.d
Level 9: /chem/msda.i/18Aug2011.b/a081810.d
Level 10: /chem/msda.i/18Aug2011.b/a081811.d
Level 11: /chem/msda.i/19Aug2011.b/a081906.d
Level 12: /chem/msda.i/31Aug2011.b/a083106.d
Level 13: /chem/msda.i/19Aug2011.b/a081909.d

| Compound | 0.05000 Level 4 | 0.10000 Level 5 | 0.50000 Level 6 | 2.000 Level 7 | 5.000 Level 8 | 10.000 Level 9 | ___ RRF | % RSD |
|---|---|---|---|---|---|---|---|---|
| | 20.000 Level 10 | 40.000 Level 11 | 2.500 Level 12 | 1.500 Level 13 | | | | |
| 1 Freon134a | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | | |
| | +++++ | +++++ | +++++ | +++++ | | | +++++ | +++++ |
| 2 Propylene | +++++ | +++++ | 2.85713 | 2.18448 | 2.03621 | 1.97695 | | |
| | 1.89567 | 1.90193 | +++++ | +++++ | | | 2.14206 | 17.089 |
| 3 Freon 152A | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | | |
| | +++++ | +++++ | +++++ | +++++ | | | +++++ | +++++ |
| 4 Dichlorodifluoromethane/Fr12 | 6.67315 | 7.86694 | 6.64547 | 6.62525 | 6.46773 | 6.23384 | | |
| | 6.03446 | 6.01244 | +++++ | +++++ | | | 6.56991 | 8.954 |
| 199 Fr21 | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | | |
| | +++++ | +++++ | +++++ | +++++ | | | +++++ | +++++ |
| 5 Freon 22 | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | | |
| | +++++ | +++++ | +++++ | +++++ | | | +++++ | +++++ |

# Air Toxics Ltd.

## INITIAL CALIBRATION DATA

Start Cal Date : 18-AUG-2011 14:46
End Cal Date : 31-AUG-2011 12:17
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/msda.i/31Aug2011.b/a11l0818b.m
Cal Date : 01-Sep-2011 08:57 croush
Curve Type : Average

| Compound | 0.05000 Level 4 | 0.10000 Level 5 | 0.50000 Level 6 | 2.000 Level 7 | 5.000 Level 8 | 10.000 Level 9 | ___ RRF | % RSD |
|---|---|---|---|---|---|---|---|---|
| | 20.000 Level 10 | 40.000 Level 11 | 2.500 Level 12 | 1.500 Level 13 | | | | |
| 6 Freon 114 | 4.51025 | 4.88133 | 4.11894 | 4.30559 | 4.06223 | 3.93035 | | |
| | 3.76618 | 3.68968 | +++++ | +++++ | | | 4.15807 | 9.553 |
| 7 Chloromethane | +++++ | 3.21554 | 2.57017 | 2.33020 | 2.25000 | 2.19306 | | |
| | 2.11238 | 2.22982 | +++++ | +++++ | | | 2.41445 | 15.812 |
| 8 Isobutylene | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | | |
| | +++++ | +++++ | +++++ | +++++ | | | +++++ | +++++ |
| 9 Butane | +++++ | +++++ | 0.71194 | 0.62989 | 0.59852 | 0.58536 | | |
| | 0.56125 | 0.54006 | +++++ | +++++ | | | 0.60450 | 10.093 |
| 10 Vinyl Chloride | +++++ | 3.33938 | 2.89967 | 2.75619 | 2.61828 | 2.55610 | | |
| | 2.45909 | 2.44706 | +++++ | +++++ | | | 2.72511 | 11.573 |
| 11 1,3-Butadiene | +++++ | 2.73100 | 2.29095 | 1.94803 | 2.09519 | 2.04978 | | |
| | 1.94854 | 1.88888 | +++++ | +++++ | | | 2.13605 | 13.765 |
| 12 Bromomethane | +++++ | 1.63895 | 1.40912 | 1.27781 | 1.04548 | 1.12542 | | |
| | 1.14317 | 1.24061 | +++++ | +++++ | | | 1.26865 | 15.889 |
| 13 Chloroethane | +++++ | +++++ | 0.92520 | 1.08119 | 0.84758 | 0.88370 | | |
| | 0.97427 | 1.05978 | +++++ | +++++ | | | 0.96195 | 9.807 |
| 14 Isopentane | +++++ | +++++ | 2.24777 | 1.96346 | 2.04731 | 1.92144 | | |
| | 1.91572 | 1.84877 | +++++ | +++++ | | | 1.99075 | 7.125 |
| 15 Vinyl Bromide | +++++ | +++++ | 1.81528 | 1.58074 | +++++ | +++++ | | |
| | +++++ | 1.68032 | 1.55751 | 1.56096 | | | 1.63896 | 6.747 |

Air Toxics Ltd.

INITIAL CALIBRATION DATA

Start Cal Date : 18-AUG-2011 14:46
End Cal Date : 31-AUG-2011 12:17
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/msda.i/31Aug2011.b/a11l0818b.m
Cal Date : 01-Sep-2011 08:57 croush
Curve Type : Average

| Compound | 0.05000 Level 4 | 0.10000 Level 5 | 0.50000 Level 6 | 2.000 Level 7 | 5.000 Level 8 | 10.000 Level 9 | ___ RRF | % RSD | |
|---|---|---|---|---|---|---|---|---|---|
| | 20.000 Level 10 | 40.000 Level 11 | 2.500 Level 12 | 1.500 Level 13 | | | | | |
| 16 Trichlorofluoromethane/Fr11 | 5.26915 | 7.46511 | 6.64529 | 4.49047 | 4.71765 | 4.51621 | | | |
| | 4.42186 | 4.28140 | +++++ | +++++ | | | 5.22589 | 22.724 | |
| 17 1-Pentene | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | | | |
| | +++++ | +++++ | +++++ | +++++ | | | +++++ | +++++ | |
| 18 Pentane | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | | | |
| | +++++ | +++++ | +++++ | +++++ | | | +++++ | +++++ | |
| 19 Diethyl Ether | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | | | |
| | +++++ | +++++ | +++++ | +++++ | | | +++++ | +++++ | |
| 20 Ethanol | +++++ | +++++ | +++++ | +++++ | +++++ | 0.36379 | | | |
| | 0.36084 | 0.36226 | +++++ | +++++ | | | 0.36230 | 0.408 | |
| 21 Acrolein | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | | | |
| | +++++ | +++++ | +++++ | +++++ | | | +++++ | +++++ | |
| 22 Freon 113 | 3.33566 | 5.02596 | 4.24147 | 3.75328 | 4.02154 | 3.87057 | | | |
| | 1.66679 | 2.37124 | +++++ | +++++ | | | 3.53581 | 30.241 | <- |
| 23 1,1-Dichloroethene | +++++ | 2.23131 | 1.69744 | 1.47431 | 1.55868 | 1.46503 | | | |
| | 0.57646 | 1.16555 | +++++ | +++++ | | | 1.45268 | 34.741 | <- |
| 24 Acetone | +++++ | +++++ | 1.45776 | 1.40710 | 1.32824 | 1.24339 | | | |
| | 1.20193 | 1.16581 | +++++ | +++++ | | | 1.30071 | 8.965 | |
| 25 Iodomethane | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | | | |
| | +++++ | +++++ | +++++ | +++++ | | | +++++ | +++++ | |

# Air Toxics Ltd.

## INITIAL CALIBRATION DATA

Start Cal Date : 18-AUG-2011 14:46
End Cal Date : 31-AUG-2011 12:17
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/msda.i/31Aug2011.b/a11l0818b.m
Cal Date : 01-Sep-2011 08:57 croush
Curve Type : Average

| Compound | 0.05000 Level 4 | 0.10000 Level 5 | 0.50000 Level 6 | 2.000 Level 7 | 5.000 Level 8 | 10.000 Level 9 | ___ RRF | % RSD |
|---|---|---|---|---|---|---|---|---|
| | 20.000 Level 10 | 40.000 Level 11 | 2.500 Level 12 | 1.500 Level 13 | | | | |
| 26 Carbon Disulfide | +++++ | +++++ | 5.65468 | 5.37014 | 5.54617 | 5.32842 | | |
| | 5.10297 | 5.02027 | +++++ | +++++ | | | 5.33711 | 4.597 |
| 27 2-Propanol | +++++ | +++++ | 6.22778 | 6.25245 | 6.16273 | 5.95469 | | |
| | 5.80796 | 5.62624 | +++++ | +++++ | | | 6.00531 | 4.216 |
| 28 3-Chloroprene | +++++ | +++++ | 0.30618 | 0.31056 | 0.63513 | 0.55030 | | |
| | 0.70230 | 0.72660 | +++++ | +++++ | | | 0.53851 | 35.000 <- |
| 29 Methyl Acetate | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | | |
| | +++++ | +++++ | +++++ | +++++ | | | +++++ | +++++ |
| 30 2-Methylpentane | +++++ | +++++ | 1.65041 | 1.64544 | +++++ | +++++ | | |
| | +++++ | +++++ | 1.70801 | +++++ | | | 1.66796 | 2.085 |
| 31 Acetonitrile | +++++ | +++++ | 2.80463 | 2.82685 | +++++ | +++++ | | |
| | +++++ | 2.83325 | 2.87967 | 2.83200 | | | 2.83528 | 0.965 |
| 32 Cyclopentane | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | | |
| | +++++ | +++++ | +++++ | +++++ | | | +++++ | +++++ |
| 33 Methylene Chloride | +++++ | 3.51215 | 2.32985 | 2.23236 | 2.03807 | 1.95276 | | |
| | 1.85733 | 1.88178 | +++++ | +++++ | | | 2.25776 | 25.714 |
| 34 tert-butyl alcohol | +++++ | +++++ | 5.31315 | 3.64745 | 4.87156 | 4.36245 | | |
| | 3.22315 | 2.51565 | +++++ | +++++ | | | 3.98890 | 26.402 |
| 35 MTBE | +++++ | 9.11618 | 7.59217 | 7.08372 | 7.43249 | 7.29544 | | |
| | 6.93661 | 6.94272 | +++++ | +++++ | | | 7.48562 | 10.154 |

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|---|---|---|---|---|---|---|---|---|
| | 20.000 Level 10 | 40.000 Level 11 | 2.500 Level 12 | 1.500 Level 13 | | | | |
| 36 trans-1,2-Dichloroethene | +++++ | 2.09751 | 1.78089 | 1.52022 | 1.66017 | 1.58666 | | |
| | 1.51168 | 1.47092 | +++++ | +++++ | | | 1.66115 | 13.205 |
| 37 Acrylonitrile | +++++ | +++++ | 2.55697 | 2.19769 | +++++ | +++++ | | |
| | +++++ | 2.23569 | 2.20270 | 2.20317 | | | 2.27924 | 6.844 |
| 38 1-Hexene | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | | |
| | +++++ | +++++ | +++++ | +++++ | | | +++++ | +++++ |
| 39 2,4-Dimethylpentane | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | | |
| | +++++ | +++++ | +++++ | +++++ | | | +++++ | +++++ |
| 40 Hexane | +++++ | 6.40337 | 5.22060 | 4.86075 | 4.81606 | 4.68534 | | |
| | 4.53390 | 4.51081 | +++++ | +++++ | | | 5.00440 | 13.222 |
| 41 Isopropyl ether | +++++ | +++++ | 10.91226 | 10.37177 | 10.34706 | 10.15088 | | |
| | 9.87663 | 9.78859 | +++++ | +++++ | | | 10.24120 | 3.965 |
| 42 1,1-Dichloroethane | +++++ | 5.18531 | 4.80528 | 4.25819 | 4.94432 | 4.81146 | | |
| | 4.52703 | 4.39012 | +++++ | +++++ | | | 4.70310 | 6.943 |
| 43 Chloroprene | +++++ | +++++ | 3.70556 | 3.55884 | +++++ | +++++ | | |
| | +++++ | 3.68697 | 3.66123 | 3.67950 | | | 3.65842 | 1.582 |
| 44 Vinyl Acetate | +++++ | +++++ | 0.34253 | 0.51829 | 0.48584 | 0.57552 | | |
| | 0.62939 | 0.67766 | +++++ | +++++ | | | 0.53820 | 22.076 |
| 46 Ethyl-tert-butyl ether | +++++ | +++++ | 10.56026 | 9.77323 | 9.94644 | 9.64908 | | |
| | 9.36605 | 9.42681 | +++++ | +++++ | | | 9.78698 | 4.453 |

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| Compound | 0.05000 Level 4 | 0.10000 Level 5 | 0.50000 Level 6 | 2.000 Level 7 | 5.000 Level 8 | 10.000 Level 9 | ___ RRF | % RSD |
|---|---|---|---|---|---|---|---|---|
| | 20.000 Level 10 | 40.000 Level 11 | 2.500 Level 12 | 1.500 Level 13 | | | | |
| 47 cis-1,2-Dichloroethene | +++++ | 2.37160 | 1.96117 | 1.69800 | 1.85321 | 1.75878 | | |
| | 1.68420 | 1.62370 | +++++ | +++++ | | | 1.85010 | 13.861 |
| 48 2-Butanone | +++++ | +++++ | 1.60552 | 1.37806 | 1.43187 | 1.80413 | | |
| | 1.37469 | 1.34942 | +++++ | +++++ | | | 1.49062 | 12.038 |
| 49 Ethyl Acetate | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | | |
| | +++++ | +++++ | +++++ | +++++ | | | +++++ | +++++ |
| 50 Methyl Acrylate | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | | |
| | +++++ | +++++ | +++++ | +++++ | | | +++++ | +++++ |
| 51 Tetrahydrofuran | +++++ | +++++ | 3.48325 | 3.30826 | 3.44789 | 3.30314 | | |
| | 3.16348 | 3.04635 | +++++ | +++++ | | | 3.29206 | 5.049 |
| 53 Chloroform | +++++ | 7.09229 | 6.20719 | 5.29013 | 5.64191 | 5.44801 | | |
| | 5.13978 | 4.98855 | +++++ | +++++ | | | 5.68684 | 12.941 |
| 54 2,3-Dimethylpentane | +++++ | +++++ | 1.43125 | 1.52211 | +++++ | +++++ | | |
| | +++++ | +++++ | 1.50308 | +++++ | | | 1.48548 | 3.226 |
| 55 Cyclohexane | +++++ | 5.25372 | 4.38823 | 3.93974 | 4.11334 | 3.98615 | | |
| | 3.80983 | 3.72302 | +++++ | +++++ | | | 4.17343 | 12.533 |
| 56 1,1,1-Trichloroethane | 6.28407 | 7.48806 | 6.34803 | 5.73815 | 6.04151 | 5.83223 | | |
| | 5.52064 | 5.35232 | +++++ | +++++ | | | 6.07563 | 10.985 |
| 57 Carbon Tetrachloride | 2.78507 | 5.12425 | 4.85073 | 4.53063 | 4.97404 | 4.88888 | | |
| | 4.67310 | 4.61237 | +++++ | +++++ | | | 4.55489 | 16.280 |

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|---|---|---|---|---|---|---|---|---|
| | 20.000 Level 10 | 40.000 Level 11 | 2.500 Level 12 | 1.500 Level 13 | | | | |
| 58 1,1-Dicholoropropene | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | | |
| | +++++ | +++++ | +++++ | +++++ | | | +++++ | +++++ |
| 59 2,2,4-Trimethylpentane | +++++ | 6.40683 | 6.91148 | 6.67656 | 6.82415 | 4.86690 | | |
| | 6.49053 | 6.63330 | +++++ | +++++ | | | 6.40139 | 10.918 |
| 60 Benzene | +++++ | 2.29114 | 1.89588 | 1.79527 | 1.88350 | 1.76703 | | |
| | 1.71125 | 1.65729 | +++++ | +++++ | | | 1.85734 | 11.288 |
| 62 tert-amyl methyl ether | +++++ | +++++ | 0.43416 | 0.42573 | 0.44631 | 0.42329 | | |
| | 0.41619 | 0.41241 | +++++ | +++++ | | | 0.42635 | 2.904 |
| 63 1,2-Dichloroethane | +++++ | 1.11273 | 0.89824 | 0.81200 | 0.89685 | 0.85512 | | |
| | 0.80657 | 0.76250 | +++++ | +++++ | | | 0.87772 | 13.088 |
| 64 Heptane | +++++ | 0.77092 | 0.58674 | 0.60140 | 0.63120 | 0.59045 | | |
| | 0.57652 | 0.57595 | +++++ | +++++ | | | 0.61902 | 11.241 |
| 65 Thiophene | +++++ | +++++ | 1.11079 | 1.01387 | +++++ | +++++ | | |
| | +++++ | +++++ | 1.12108 | +++++ | | | 1.08192 | 5.467 |
| 67 Trichloroethene | 0.67772 | 1.02148 | 0.82639 | 0.77843 | 0.82434 | 0.76682 | | |
| | 0.73903 | 0.71057 | +++++ | +++++ | | | 0.79310 | 13.326 |
| 68 Ethyl Acrylate | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | | |
| | +++++ | +++++ | +++++ | +++++ | | | +++++ | +++++ |
| 69 Methylcyclohexane | +++++ | +++++ | 1.15778 | 1.09785 | 1.14582 | 1.08829 | | |
| | 1.06644 | 1.04834 | +++++ | +++++ | | | 1.10075 | 3.933 |

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|---|---|---|---|---|---|---|---|---|
| | 20.000 Level 10 | 40.000 Level 11 | 2.500 Level 12 | 1.500 Level 13 | | | | |
| 70 2-Pentanone | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | | |
| | +++++ | +++++ | +++++ | +++++ | | | +++++ | +++++ |
| 71 2-Chloroethyl Vinyl Ether | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | | |
| | +++++ | +++++ | +++++ | +++++ | | | +++++ | +++++ |
| 72 1,2-Dichloropropane | +++++ | 0.95746 | 0.77855 | 0.68262 | 0.73442 | 0.68908 | | |
| | 0.66928 | 0.65295 | +++++ | +++++ | | | 0.73777 | 14.349 |
| 73 Methyl Methacrylate | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | | |
| | +++++ | +++++ | +++++ | +++++ | | | +++++ | +++++ |
| 74 1,4-Dioxane | +++++ | 0.52459 | 0.43186 | 0.42651 | 0.43141 | 0.43530 | | |
| | 0.41508 | 0.41490 | +++++ | +++++ | | | 0.43995 | 8.680 |
| 75 Dibromomethane | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | | |
| | +++++ | +++++ | +++++ | +++++ | | | +++++ | +++++ |
| 76 Bromodichloromethane | 1.08163 | 1.50541 | 1.27347 | 1.18426 | 1.35675 | 1.28988 | | |
| | 1.25071 | 1.22506 | +++++ | +++++ | | | 1.27090 | 9.799 |
| 77 cis-1,3-Dichloropropene | +++++ | 1.16296 | 0.97203 | 0.94731 | 1.04074 | 0.99343 | | |
| | 0.97740 | 0.96463 | +++++ | +++++ | | | 1.00836 | 7.365 |
| 78 4-Methyl-2-pentanone | +++++ | 1.80307 | 1.46590 | 1.46355 | 1.55214 | 1.38947 | | |
| | 1.50101 | 1.50227 | +++++ | +++++ | | | 1.52535 | 8.664 |
| 79 Octane | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | | |
| | +++++ | +++++ | +++++ | +++++ | | | +++++ | +++++ |

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|---|---|---|---|---|---|---|---|---|
| | 20.000 Level 10 | 40.000 Level 11 | 2.500 Level 12 | 1.500 Level 13 | | | | |
| 81 Toluene | +++++ | 2.58926 | 2.13244 | 2.08939 | 2.10995 | 2.01583 | | |
| | 1.98133 | 1.95099 | +++++ | +++++ | | | 2.12417 | 10.168 |
| 82 trans-1,3-Dichloropropene | +++++ | 1.31907 | 1.21193 | 1.11364 | 1.19059 | 1.16326 | | |
| | 1.12953 | 1.11213 | +++++ | +++++ | | | 1.17716 | 6.228 |
| 83 1,1,2-Trichloroethane | 1.02077 | 1.23653 | 0.95145 | 0.87939 | 0.90490 | 0.87473 | | |
| | 0.82934 | 0.79766 | +++++ | +++++ | | | 0.93685 | 14.888 |
| 84 Tetrachloroethene | 1.04482 | 1.35036 | 1.11058 | 1.05696 | 1.08823 | 1.04327 | | |
| | 0.99751 | 0.94779 | +++++ | +++++ | | | 1.07994 | 11.150 |
| 85 2-Hexanone | +++++ | +++++ | 0.98251 | 0.89752 | 0.97105 | 0.93764 | | |
| | 0.93443 | 0.91036 | +++++ | +++++ | | | 0.93892 | 3.527 |
| 86 Dibromochloromethane | 1.20516 | 1.51326 | 1.36224 | 1.30501 | 1.47477 | 1.43931 | | |
| | 1.40433 | 1.34973 | +++++ | +++++ | | | 1.38173 | 7.146 |
| 87 1,2-Dibromoethane | 1.02857 | 1.80295 | 1.38158 | 1.29934 | 1.36942 | 1.32293 | | |
| | 1.26698 | 1.20908 | +++++ | +++++ | | | 1.33511 | 16.462 |
| 89 Chlorobenzene | +++++ | 2.36327 | 1.95561 | 1.84832 | 1.89685 | 1.79598 | | |
| | 1.74326 | 1.70273 | +++++ | +++++ | | | 1.90086 | 11.659 |
| 90 Nonane | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | | |
| | +++++ | +++++ | +++++ | +++++ | | | +++++ | +++++ |
| 91 Ethyl Benzene | +++++ | 1.30261 | 0.96659 | 0.92289 | 0.95210 | 0.91497 | | |
| | 0.88797 | 0.87971 | +++++ | +++++ | | | 0.97526 | 15.145 |

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| | 20.000 Level 10 | 40.000 Level 11 | 2.500 Level 12 | 1.500 Level 13 | | | | |
| 92 1,1,1,2-Tetrachloroethane | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | | |
| | +++++ | +++++ | +++++ | +++++ | | | +++++ | +++++ |
| 93 m,p-Xylene | +++++ | 1.36017 | 1.09027 | 1.01947 | 1.03469 | 1.00328 | | |
| | 0.97931 | 0.97769 | +++++ | +++++ | | | 1.06641 | 12.669 |
| 94 o-Xylene | +++++ | 1.25725 | 1.04971 | 0.98118 | 1.01747 | 0.97046 | | |
| | 0.95735 | 0.94874 | +++++ | +++++ | | | 1.02602 | 10.519 |
| 95 Styrene | +++++ | 2.02647 | 1.67818 | 1.56901 | 1.64109 | 1.59058 | | |
| | 1.57907 | 1.58916 | +++++ | +++++ | | | 1.66765 | 9.769 |
| 96 alpha-pinene | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | | |
| | +++++ | +++++ | +++++ | +++++ | | | +++++ | +++++ |
| 97 Bromoform | 1.10419 | 1.23577 | 1.08643 | 1.12226 | 1.22563 | 1.22003 | | |
| | 1.22620 | 1.20138 | +++++ | +++++ | | | 1.17774 | 5.291 |
| 98 Cumene | +++++ | 3.87107 | 3.15276 | 2.90152 | 3.01219 | 2.86895 | | |
| | 2.88485 | 2.86977 | +++++ | +++++ | | | 3.08016 | 11.813 |
| 99 1,3-Dichloropropane | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | | |
| | +++++ | +++++ | +++++ | +++++ | | | +++++ | +++++ |
| 101 cis-1,4-dichloro-2-butene | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | | |
| | +++++ | +++++ | +++++ | +++++ | | | +++++ | +++++ |
| 102 Decane | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | | |
| | +++++ | +++++ | +++++ | +++++ | | | +++++ | +++++ |

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| | 20.000 Level 10 | 40.000 Level 11 | 2.500 Level 12 | 1.500 Level 13 | | | | |
| 103 1,1,2,2-Tetrachloroethane | +++++ | 2.07477 | 1.81055 | 1.73287 | 1.77959 | 1.69469 | | |
| | 1.69751 | 1.65616 | +++++ | +++++ | | | 1.77802 | 7.935 |
| 104 Propylbenzene | +++++ | 4.34820 | 3.32327 | 2.89767 | 2.99323 | 2.87241 | | |
| | 2.91748 | 2.95814 | +++++ | +++++ | | | 3.18720 | 16.761 |
| 105 1,2,3-Trichloropropane | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | | |
| | +++++ | +++++ | +++++ | +++++ | | | +++++ | +++++ |
| 106 trans-1,4-dichloro-2-butene | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | | |
| | +++++ | +++++ | +++++ | +++++ | | | +++++ | +++++ |
| 107 4-Ethyltoluene | +++++ | 4.01478 | 3.10718 | 2.62612 | 2.74021 | 2.59486 | | |
| | 2.62213 | 2.65641 | +++++ | +++++ | | | 2.90881 | 17.838 |
| 108 2-Chlorotoluene | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | | |
| | +++++ | +++++ | +++++ | +++++ | | | +++++ | +++++ |
| 109 1,3,5-Trimethylbenzene | +++++ | 3.04025 | 2.45650 | 2.07924 | 2.25211 | 2.15872 | | |
| | 2.07978 | 2.01856 | +++++ | +++++ | | | 2.29788 | 15.601 |
| 110 4-Chlorotoluene | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | | |
| | +++++ | +++++ | +++++ | +++++ | | | +++++ | +++++ |
| 111 tert-Butylbenzene | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | | |
| | +++++ | +++++ | +++++ | +++++ | | | +++++ | +++++ |
| 112 1,2,4-Trimethylbenzene | +++++ | 3.09956 | 2.38462 | 1.91110 | 2.05147 | 1.93230 | | |
| | 1.85797 | 1.77559 | +++++ | +++++ | | | 2.14466 | 21.672 |

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| 113 sec-Butylbenzene | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | | |
| | +++++ | +++++ | +++++ | +++++ | | | +++++ | +++++ |
| 114 p-Cymene | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | | |
| | +++++ | +++++ | +++++ | +++++ | | | +++++ | +++++ |
| 115 1,3-Dichlorobenzene | 2.11109 | 2.08916 | 1.39957 | 1.28771 | 1.29823 | 1.28436 | | |
| | 1.29208 | 1.29834 | +++++ | +++++ | | | 1.50757 | 24.389 |
| 116 1,2,3-trimethylbenzene | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | | |
| | +++++ | +++++ | +++++ | +++++ | | | +++++ | +++++ |
| 117 1,4-Dichlorobenzene | +++++ | 2.20779 | 1.33815 | 1.15977 | 1.20260 | 1.17897 | | |
| | 1.18714 | 1.20108 | +++++ | +++++ | | | 1.35364 | 28.158 |
| 118 alpha-chlorotoluene | 1.74361 | 2.37919 | 1.94133 | 1.98719 | 2.06955 | 2.11528 | | |
| | 2.20852 | 2.22084 | +++++ | +++++ | | | 2.08319 | 9.395 |
| 119 Indan | +++++ | +++++ | 0.81328 | 0.74008 | +++++ | +++++ | | |
| | +++++ | +++++ | 0.81934 | +++++ | | | 0.79090 | 5.577 |
| 120 Butylbenzene | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | | |
| | +++++ | +++++ | +++++ | +++++ | | | +++++ | +++++ |
| 121 1,2-Dichlorobenzene | +++++ | 2.18413 | 1.25446 | 1.14613 | 1.17089 | 1.16823 | | |
| | 1.17895 | 1.18071 | +++++ | +++++ | | | 1.32621 | 28.639 |
| 122 Indene | +++++ | +++++ | 0.26256 | 0.25288 | +++++ | +++++ | | |
| | +++++ | +++++ | 0.33523 | +++++ | | | 0.28356 | 15.874 |

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Cal Date : 01-Sep-2011 08:57 croush
Curve Type : Average

| Compound | 0.05000 Level 4 | 0.10000 Level 5 | 0.50000 Level 6 | 2.000 Level 7 | 5.000 Level 8 | 10.000 Level 9 | ___ RRF | % RSD |
|---|---|---|---|---|---|---|---|---|
| | 20.000 Level 10 | 40.000 Level 11 | 2.500 Level 12 | 1.500 Level 13 | | | | |
| 123 Hexachloroethane | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | | |
| | +++++ | +++++ | +++++ | +++++ | | | +++++ | +++++ |
| 124 1,2-dibromo-3-chloropropane | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | | |
| | +++++ | +++++ | +++++ | +++++ | | | +++++ | +++++ |
| 125 1,3,5-Trichlorobenzene | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | | |
| | +++++ | +++++ | +++++ | +++++ | | | +++++ | +++++ |
| 126 1,2,4-Trichlorobenzene | +++++ | +++++ | 0.80152 | 0.93279 | 0.54611 | 0.72012 | | |
| | 0.77184 | 0.80525 | +++++ | +++++ | | | 0.76294 | 16.688 |
| 127 1,2,3-trichlorobenzene | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | | |
| | +++++ | +++++ | +++++ | +++++ | | | +++++ | +++++ |
| 198 Bromobenzene | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | | |
| | +++++ | +++++ | +++++ | +++++ | | | +++++ | +++++ |
| 128 Hexachlorobutadiene | +++++ | +++++ | 0.53898 | 0.69911 | 0.40679 | 0.53144 | | |
| | 0.59048 | 0.64684 | +++++ | +++++ | | | 0.56894 | 17.937 |
| 129 Naphthalene | +++++ | +++++ | 1.82351 | 2.02373 | 1.11337 | 1.45077 | | |
| | 1.57061 | 1.57214 | +++++ | +++++ | | | 1.59236 | 19.657 |
| 200 Undecane | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | | |
| | +++++ | +++++ | +++++ | +++++ | | | +++++ | +++++ |
| 202 Dodecane | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | | |
| | +++++ | +++++ | +++++ | +++++ | | | +++++ | +++++ |

# Air Toxics Ltd.

## INITIAL CALIBRATION DATA

Start Cal Date : 18-AUG-2011 14:46
End Cal Date : 31-AUG-2011 12:17
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/msda.i/31Aug2011.b/a11l0818b.m
Cal Date : 01-Sep-2011 08:57 croush
Curve Type : Average

| Compound | 0.05000 Level 4 | 0.10000 Level 5 | 0.50000 Level 6 | 2.000 Level 7 | 5.000 Level 8 | 10.000 Level 9 | ___ RRF | % RSD |
|---|---|---|---|---|---|---|---|---|
| | 20.000 Level 10 | 40.000 Level 11 | 2.500 Level 12 | 1.500 Level 13 | | | | |
| $ 61 1,2-Dichloroethane-d4 | 1.70831 | 1.79868 | 1.84482 | 1.68261 | 1.80991 | 1.87477 | | |
| | 1.83627 | 1.84047 | +++++ | +++++ | | | 1.79948 | 3.806 |
| $ 80 Toluene-d8 | 0.96113 | 0.95940 | 0.95260 | 0.96850 | 0.97590 | 0.96858 | | |
| | 0.98926 | 1.00173 | +++++ | +++++ | | | 0.97214 | 1.683 |
| $ 100 Bromofluorobenzene | 0.51423 | 0.51715 | 0.52277 | 0.51649 | 0.51315 | 0.51068 | | |
| | 0.53152 | 0.54078 | +++++ | +++++ | | | 0.52085 | 1.993 |

Calibration History

Method : /chem/msda.i/31Aug2011.b/a11l0818b.m
Start Cal Date: 18-AUG-2011 14:46
End Cal Date : 31-AUG-2011 12:17

Initial Calibration

| Injection Date | Sublist | Calibration File |
|---|---|---|
| Cal Level: 4 , Cal Amount: 0.05000 | | |
| 18-AUG-2011 14:46 | Level05 | /chem/msda.i/18Aug2011.b/a081805.d |
| Cal Level: 5 , Cal Amount: 0.10000 | | |
| 18-AUG-2011 15:21 | Level#1 | /chem/msda.i/18Aug2011.b/a081806.d |
| Cal Level: 6 , Cal Amount: 0.50000 | | |
| 31-AUG-2011 10:49 | spAT3 | /chem/msda.i/31Aug2011.b/a083105.d |
| 19-AUG-2011 13:27 | AT4 | /chem/msda.i/19Aug2011.b/a081905.d |
| 18-AUG-2011 15:56 | HILOcrvFULL | /chem/msda.i/18Aug2011.b/a081807.d |
| Cal Level: 7 , Cal Amount: 2.00000 | | |
| 31-AUG-2011 12:17 | spAT3 | /chem/msda.i/31Aug2011.b/a083107.d |
| 19-AUG-2011 15:16 | AT4 | /chem/msda.i/19Aug2011.b/a081908.d |
| 18-AUG-2011 16:34 | HILOcrvFULL | /chem/msda.i/18Aug2011.b/a081808.d |
| Cal Level: 8 , Cal Amount: 5.00000 | | |
| 18-AUG-2011 17:09 | HILOcrvFULL | /chem/msda.i/18Aug2011.b/a081809.d |
| Cal Level: 9 , Cal Amount: 10.00000 | | |
| 18-AUG-2011 17:44 | HILOcrvFULL | /chem/msda.i/18Aug2011.b/a081810.d |
| Cal Level: 10, Cal Amount: 20.00000 | | |
| 18-AUG-2011 18:19 | HILOcrvFULL | /chem/msda.i/18Aug2011.b/a081811.d |
| Cal Level: 11, Cal Amount: 40.00000 | | |

| | | |
|---|---|---|
| 19-AUG-2011 14:02 | AT4 | /chem/msda.i/19Aug2011.b/a081906.d |
| 18-AUG-2011 18:56 | HILOcrvFULL | /chem/msda.i/18Aug2011.b/a081812.d |

| Cal Level: 12, Cal Amount: 2.50000 | | |
|---|---|---|
| 31-AUG-2011 11:39 | spAT3 | /chem/msda.i/31Aug2011.b/a083106.d |
| 19-AUG-2011 14:38 | AT4 | /chem/msda.i/19Aug2011.b/a081907.d |

| Cal Level: 13, Cal Amount: 1.50000 | | |
|---|---|---|
| 19-AUG-2011 16:04 | AT4 | /chem/msda.i/19Aug2011.b/a081909.d |

Continuing Calibration
Ccal Level Mode: GLOBAL LEVEL 9

| Ccal Level: 9 , Ccal Amount: 10.000 | | |
|---|---|---|
| 31-AUG-2011 08:01 | AT09 | /chem/msda.i/31Aug2011.b/a083102.d |

| Ccal Level: 12, Ccal Amount: 2.500 | | |
|---|---|---|
| 31-AUG-2011 11:39 | spAT3ccv | /chem/msda.i/31Aug2011.b/a083106a.d |

Air Toxics Ltd.

INITIAL CALIBRATION DATA

Start Cal Date : 18-AUG-2011 14:46
End Cal Date : 31-AUG-2011 12:17
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/msda.i/31Aug2011.b/a1110818b.m
Cal Date : 01-Sep-2011 08:57 croush
Curve Type : Average

Calibration File Names:
Level 4: /chem/msda.i/18Aug2011.b/a081805.d
Level 5: /chem/msda.i/18Aug2011.b/a081806.d
Level 6: /chem/msda.i/31Aug2011.b/a083105.d
Level 7: /chem/msda.i/31Aug2011.b/a083107.d
Level 8: /chem/msda.i/18Aug2011.b/a081809.d
Level 9: /chem/msda.i/18Aug2011.b/a081810.d
Level 10: /chem/msda.i/18Aug2011.b/a081811.d
Level 11: /chem/msda.i/19Aug2011.b/a081906.d
Level 12: /chem/msda.i/31Aug2011.b/a083106.d
Level 13: /chem/msda.i/19Aug2011.b/a081909.d

Please see Calibration History page(s) for all the calibration files.

| Compound | 0.05000 Level 4 | 0.10000 Level 5 | 0.50000 Level 6 | 2.000 Level 7 | 5.000 Level 8 | 10.000 Level 9 | RRF | % RSD |
|---|---|---|---|---|---|---|---|---|
| | 20.000 Level 10 | 40.000 Level 11 | 2.500 Level 12 | 1.500 Level 13 | | | | |
| 1 Freon134a | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | | |
| | +++++ | +++++ | +++++ | +++++ | | | +++++ | +++++ |
| 2 Propylene | +++++ | +++++ | 2.85713 | 2.18448 | 2.03621 | 1.97695 | | |
| | 1.89567 | 1.90193 | +++++ | +++++ | | | 2.14206 | 17.089 |
| 3 Freon 152A | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | | |
| | +++++ | +++++ | +++++ | +++++ | | | +++++ | +++++ |
| 4 Dichlorodifluoromethane/Fr12 | 6.67315 | 7.86694 | 6.64547 | 6.62525 | 6.46773 | 6.23384 | | |
| | 6.03446 | 6.01244 | +++++ | +++++ | | | 6.56991 | 8.954 |
| 199 Fr21 | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | | |
| | +++++ | +++++ | +++++ | +++++ | | | +++++ | +++++ |
| 5 Freon 22 | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | | |
| | +++++ | +++++ | +++++ | +++++ | | | +++++ | +++++ |

# Curve Name: $A11_L818B$

**Initial Calibration Narrative**

An initial calibration curve was analyzed on 08/18/2011 on MSD-A.

The LCS for the initial calibration was analyzed on 08/18/2011 within the 24 hour clock.

The instrument was set up to do Full Scan and Selective Ion Monitoring (SIM) simultaneously.

***ICAL:*** TWO (2) out → 1,1-Dichloroethene (35 % RSD); 3-Chloroprene (35 % RSD)

***ICV:*** TWO (2) out – Ethanol and 3-chloropene; File# A081816; can #2296-134; 5.0ppbv (50ppbv) at a 50mL load O

***DOD ICV:*** TWO (2) out – Ethanol and 3-chloropene; File# A081816a; can #2296-134; 5.0ppbv (50ppbv) at a 50mL load

***AT09 MDL:*** 09/16/2010
***AT1 sp MDL:*** 02/08/2011

***NOT*** good for AFCEE 4.0; ***NOT*** good for all NY compounds RL's

# NO ETHANOL!!

---

- A five (5) point initial calibration for AT4 specials were analyzed on MSD-A on 08/19/2011 at 0.5, 1.0, 1.5, 2.0 and 2.5ppbv.
- A three (3) point initial calibration for AT3 specials were analyzed on MSD-A on 08/31/2011 at 0.5, 1.0, 2.0ppbv.

@ Air Toxics Ltd.

MSD-A

BCM : 220017(LL) / 239373 (SIM)
1,4-DFB : 1019583 / 1072715
CB-D5 : 873528 / 854571

Logbook #: 2312

| | |
|---|---|
| BFB Verification of 176/174 m/z Ratio: | 492533/512033 *100% = 96.198% ✓ |
| Tekmar Purge Flow: | NA |
| Vacuum: | 7.23e-6 |

| IS/S Std. #: | 22916-38 | Exp. Date: 09/30/11 |
|---|---|---|
| BCM | ~~212523 (LL)~~ 996706 | ~~2809119 (SIM)~~ 2255206 |
| 1,4-DFB | 1011469 | 1057925 |
| CB-d5 | ~~856533 CR 08/19/11~~ 805800 CR 08/19/11 | ~~879643 CR 08/19/11~~ 1053168 CR 09/19/11 |

Verified CCV IS vs ICAL mid-point (-40%D): CR ✓

| | |
|---|---|
| File ID: | A081809a |
| Compound: | Toluene-d8 |
| Initials: | CR (LL) |

Method Name: ~~A11-0818A~~/A11-0818A

**Calculation Check:**

ppbv of compound = $\frac{\text{Area}_{\text{sample}} \times \text{Conc}_{\text{IS}}}{\text{Area}_{\text{IS}} \quad \text{RRF}}$ = $\frac{(995008) \times (10.00)}{(1019583)\ (0.97214)}$ = 10.039

Reported Result: 10.039

| | Use | File | Sample/Client Name | Can# | Pressure | Amt. Loaded | DF | Loaded By Init. | Date Analyzed | Time Analyzed | Reviewed By Init. | Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | ✓ | A081801 | BFB Tune Check | 1476-2228 | 50ng | 2µL | 1.00 | CR | 08/18/11 | 1240 | CR | |
| 2 | ✓ | 02 | ICAL Level #1 | 22916-165 | 0.005ppbv | 15mL | 1.00 | CR | | 1302 | CR | |
| 3 | ✓ | 03 | #2 | | 0.01ppbv | 50mL | 1.00 | CR | | 1337 | CR | |
| 4 | ✓ | 04 | #3 | | 0.02ppbv | 100mL | 1.00 | CR | | 1412 | JC | |
| 5 | ✓ | 05 | #4 | | 0.05ppbv | 250mL | 1.00 | JC | | 1446 | JC | |
| 6 | ✓ | 06 | #5 | 2296-166 | 0.10ppbv | 12.5mL | 1.00 | JC | | 1521 | JC | |
| 7 | ✓ | 07 | #6 | | 0.50ppbv | 62.5mL | 1.00 | JC | | 1556 | JC | |
| 8 | ✓ | 08 | #7 | | 2.0ppbv | 250mL | 1.00 | JC | | 1634 | JC | |
| 9 | ✓ | 09 | #8 | 2296-84 | 5.0ppbv | 25mL | 1.00 | JC | | 1709 | JC | |
| 10 | ✓ | 10 | #9 | | 10.0ppbv | 50mL | 1.00 | JC | | 1744 | JC | |
| 11 | ✓ | 11 | #10 | | 20.0ppbv | 100mL | 1.00 | JC | | 1819 | JC | |
| 12 | ✓ | 12 | #11 | | 40.0ppbv | 200mL | 1.00 | JC | | 1856 | JC | |
| 13 | ✓ | 13 | System Blank | 9936 | Humid | 250mL | 1.00 | JC | | 2031 | JC | |
| 14 | X | 14 | ICV (50ppbv) | 22916-133 | 20ppbv | 100mL | 1.00 | CR | 08/19/11 CR 08/19/11 | 0754 | CR | |

Signed — 8/18/11 Date — Reviewed — 08/19/11 Date

| | Use | File | Sample/Client Name | Can# | Pressure | Amt. Loaded | DF | Loaded By Init. | Date Analyzed | Time Analyzed | Reviewed By Init. | Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 15 | X | E081815 | ICV (50ppbv) | 22916-134 | 20 ppbv | 100mL | 1.00 | CR | 08/19/11 | CR 08/19/11 0906 ~~0954~~ | CR | Can not run LCS@Lightpost Sim, No EtOH + TBA |
| 16 | ✓ | ↓ 16 | ICV (50ppbv) | 22916-134 | 5ppbv | 25mL | 1.00 | CR | ↓ | 1013 | CR | No EtOH |
| 17 | | | | | | | | | | | | |
| 18 | | | | | | | | | | | | |
| 19 | | | | | | | | | | | | |
| 20 | | | | | | | | | | | | |
| 21 | | | | | | | | | | | | |
| 22 | | | | | | | | | | | | |
| 23 | | | | | | | | | | | | |
| 24 | | | | | | | | | | | | |
| 25 | | | | | | | | | | | | |
| 26 | | | | | | | | | | | | |
| 27 | | | | | | | | | | | | |
| 28 | | | | | | | | | | | | |
| 29 | | | | | | | | | | | | |
| 30 | | | | | | | | | | | | |
| 31 | | | | | | | | | | | | |
| 32 | | | | | | | | | | | | |
| 33 | | | | | | | | | | | | |
| 34 | | | | | | | | | | | | |
| 35 | | | | | | | | | | | | |
| 36 | | | | | | | | | | | | CR 08/19/11 |

Signed 08/19/11 Date

Reviewed 08/22/11 Date

Flow Controller: AA0048316 3
Flow Meter: 1-18035; Exp: 10/05/11

Actual: 27.4 mL/min
Nominal: 24 mL/min

| BFB Verification of 176/174 m/z Ratio: 627010/652525 *100% = 96.088% ✓ |
|---|
| Tekmar Purge Flow: 12A |
| Vacuum: 7.15e-6 |

| IS/S Std. #: 2296-38 | Exp. Date: 09/30/11 |
|---|---|
| BCM 2263911 (LL) | 2438711 (sim) |
| 1,4-DFB 10541698 | 1117449 |
| CB-d5 896713 | 927007 |

Verified CCV IS vs ICAL mid-point (-40%D): CR ✓

| File ID: A081902 |
|---|
| Compound: Toluene-d8 |
| Initials: CR (LL) |

Method Name: E11.0818A/E11s.0818A

**Calculation Check:**

ppbv of compound = $\frac{\text{Area}_{\text{Sample}}}{\text{Area}_{\text{IS}}} \times \frac{\text{Conc}_{\text{IS}}}{\text{RRF}}$ = $\frac{(1028466)}{(1054698)} \times \frac{(10.000)}{(0.97214)}$ = 10.031

Reported Result: 10.031

| | Use | File | Sample/Client Name | Can# | Pressure | Amt. Loaded | DF | Loaded By Init. | Date Analyzed | Time Analyzed | Reviewed By Init. | Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | ✓ | A081901 | CR 8/19/11 ~~E08s~~ BFB Tune | H176-2228 | 50ng | 2µL | 1.00 | CR | 08/19/11 | 1109 | CR | |
| 2 | ✓ | 02 | CCV (50 ppbv) | 2296-84 | 5ppbv | 25mL | 1.00 | CR | | 1127 | CR | no ETOH! |
| 3 | ✓ | 03 | LCS (50 ppbv) | 2296-133 | 5ppbv | 25mL | 1.00 | CR | | 1217 | CR | |
| 4 | ✓ | 04 | LCSD (50 ppbv) | 2296-133 | 5ppbv | 25mL | 1.000 | CR | | 1252 | CR | |
| 5 | ✓ | 05 | ICAL Sp Level #6 | 2296-42A | 0.50ppbv | 50mL | 1.00 | CR | | 1327 | CR | AT-4 ¢ int |
| 6 | ✓ | 06 | #11 | | 1.0ppbv | 100mL | 1.00 | CR | | 1402 | CR | |
| 7 | ✓ | 07 | #12 | | 1.5ppbv | 150mL | 1.00 | CR | | 1438 | EA | |
| 8 | ✓ | 08 | #18 | | 2.0ppbv | 200mL | 1.00 | CR | | 1516 | EA | |
| 9 | ✓ | 09 | #13 | | 2.5ppbv | 250mL | 1.00 | EA | | 1601 | EA | |
| 10 | ✓ | 10 | Lab Blank | 9936 | Humid | 250ml | 1.00 | EA | | 1640 | EA | |
| 11 | ✓ | 11 | 110818B-05A | 5648 | 6.0"Hg-5psi | 250ml | 1.68 | EA | | 1740 | EA | |
| 12 | ✓ | 12 | -06A | 9916 | 4.0"Hg-5psi | 250ml | 1.55 | EA | | 1816 | EA | |
| 13 | ✓ | 13 | -07A | 23883 | | | | EA | | 1851 | EA | |
| 14 | ✓ | 14 | 110839A-03A | 12078 | 0.4"Hg-5psi | 250ml | 1.36 | EA | | 1936 | EA | |

S. [illegible] 8/19/11 — Signed / Date

R Hendley 8/20/11 — Reviewed / Date

| BFB Verification of 176/174 m/z Ratio: 41067G / 42653 | 38 × 100 = 96.280% |
|---|---|
| Tekmar Purge Flow: | |
| Vacuum: 8/31/11 | |

| IS/S Std. #: 2296-38 | Exp. Date: 9/30/11 |
|---|---|
| BCM 206450 LL | 221685 5/m |
| 1,4-DFB 897592 | 954793 |
| CB-d5 792197 | 820937 |

Verified CCV IS vs ICAL mid-point (-40%D): [signature]

| File ID: A083102 |
|---|
| Compound: Toluene-d8 |
| Initials: [signature] 8/31/11 |

Method Name: AIL080818A/AIS0818A

**Calculation Check:**

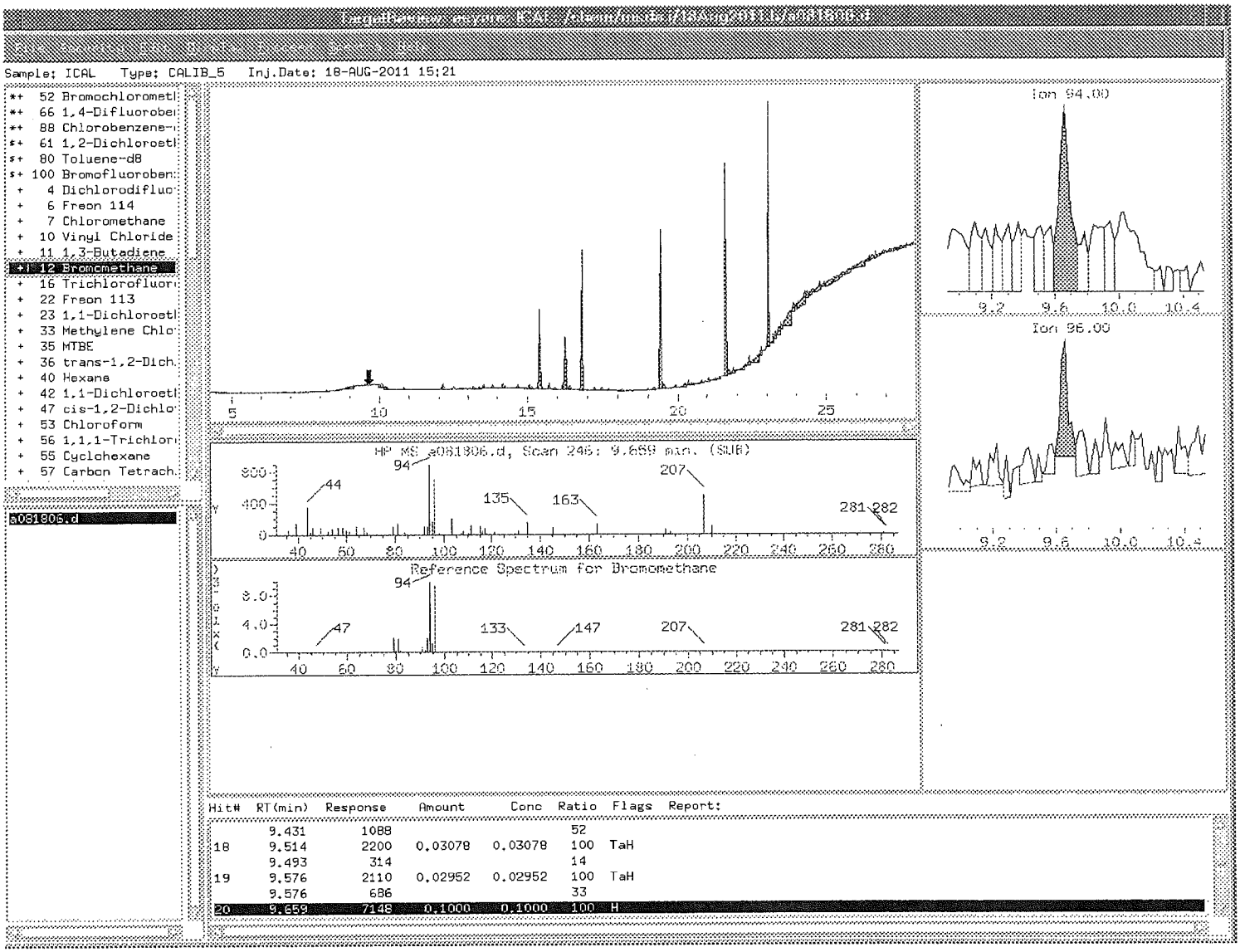
ppbv of compound = $\frac{\text{Area}_{\text{Sample}}}{\text{Area}_{\text{IS}}} \times \frac{\text{Conc}_{\text{IS}}}{\text{RRF}}$ = ( 883349 ) x ( 10.00 ) = 10.128
( 897592 ) ( 0.97172 )

Reported Result: 10.128

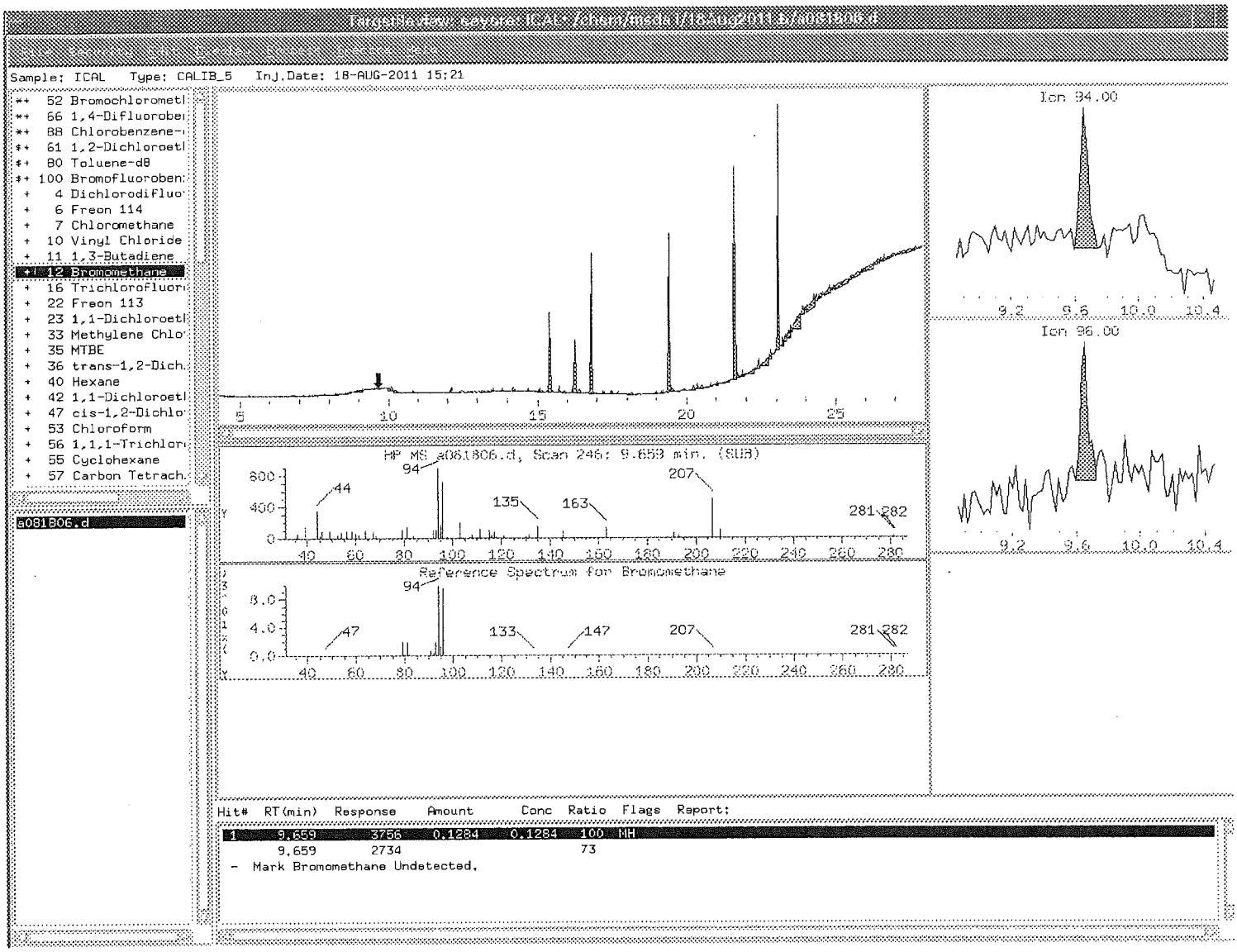
| | Use | File | Sample/Client Name | Can# | Pressure | Amt. Loaded | DF | Loaded By Init. | Date Analyzed | Time Analyzed | Reviewed By Init. | Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | ✓ | A083101 | BFB Tune Check | 14616228 | 50ng | 2µL | 1.000 | CR | 08/31/11 | 0731 | CR | |
| 2 | ✓ | 02 | CCV (50ppbv) | 2296-84 | 10ppbv | 50mL | 1.000 | CR | | 0801 | RH | LL: EtOH ↑ |
| 3 | ✓ | 03 | LCS (50ppbv) | 2296-133 | 10ppbv | 50mL | 1.00 | RH | | 0837 | DyJC | |
| 4 | ✓ | 04 | LCSD (50ppbv) | ( 1 ) | ↓ | 1 | ↓ | Dry | | 0932 | DyJC | ↓ |
| 5 | ✓ | 05 | ICAL Level 6 | 2296-177 | 0.5 ppbv | 625uL | | ↓ | | 1049 | RH | |
| 6 | ✓ | 06 | 12 | ↓ | 1.0 ppbv | 125mL | | | | 1139 | RH | SpAT3CCV |
| 7 | ✓ | 07 | ↓ 7 | ↓ | 2.0 ppbv | 250mL | | | | 1217 | RH | |
| 8 | ✓ | 08 | System Blank | N/A | Dry | 250mL | | RH | | 1316 | JC | |
| 9 | ✓ | 09 | Lab Blank | 9936 | Humid | 250mL | ↓ | JC | | 1400 | JC | |
| 10 | X | 10 | 1108582-01A | 25250 | 7.5"Hg-5psi | 50mL | 8.95 | JC | | 1452 | JC | DI-PCE, overdiluted |
| 11 | ✓ | 11 | -01A | 25258 | 7.5"Hg-5psi | 250mL | 1.79 | JC | | 1544 | JC | "6"-Acetone |
| 12 | ✓ | 12 | -02A | 34006 | 7"Hg-5psi | 50mL | 8.75 | JC | | 1625 | JC | "6"-Acetone, DI-Benz. |
| 13 | ✓ | 13 | -03A | 33325 | 6"Hg-5psi | 125mL | 3.36 | JC | | 1722 | JC | DI-NT, "6"-Acet. |
| 14 | ✓ | 14 | -04A | 34467 | 6"Hg-5psi | 50mL | 8.40 | JC | ↓ | 1805 | JC | DI-NT, "6"-Acet. |

[signature] 8/31/2011
Signed Date

[signature] 8/31/11
Reviewed Date


Sample: ICAL Type: CALIB_5 Inj.Date: 18-AUG-2011 15:21
** 52 Bromochlorometh
** 66 1,4-Difluorobe
** 88 Chlorobenzene-
$+ 61 1,2-Dichloroeth
$+ 80 Toluene-d8
$+ 100 Bromofluorobe
+ 4 Dichlorodifluo
+ 6 Freon 114
+ 7 Chloromethane
+ 10 Vinyl Chloride
+ 11 1,3-Butadiene
+1 12 Bromomethane
+ 16 Trichlorofluor
+ 22 Freon 113
+ 23 1,1-Dichloroeth
+ 33 Methylene Chlo
+ 35 MTBE
+ 36 trans-1,2-Dich
+ 40 Hexane
+ 42 1,1-Dichloroeth
+ 47 cis-1,2-Dichlo
+ 53 Chloroform
+ 56 1,1,1-Trichlor
+ 55 Cyclohexane
+ 57 Carbon Tetrach
a081806.d
Ion 94.00
Ion 96.00
HP MS a081806.d, Scan 245: 9.659 min. (SUB)
Reference Spectrum for Bromomethane
Hit# RT(min) Response Amount Conc Ratio Flags Report:
9.431 1088 52
18 9.514 2200 0.03078 0.03078 100 TaH
9.493 314 14
19 9.576 2110 0.02952 0.02952 100 TaH
9.576 686 33
20 9.659 7148 0.1000 0.1000 100 H

Before




After

8/19/11

**Team VOC**

| | |
|---|---|
| Date / Initial | 8/19/11 JC |
| Poor Integration | ✓ |
| Split Peak | |
| Peak Tailing | |
| Background Subtraction | |
| Zoom In | |
| Missed Peak | |
| Merged Peaks | |

Air Toxics Ltd.

Modified EPA Methods TO-14A/TO-15 Low Level

Internal Standard and Associated Target Compounds and Surrogates

| Bromochloromethane |
|---|
| **Target Compounds:** |
| Freon 12 |
| Freon 114 |
| Chloromethane |
| Vinyl Chloride |
| 1,3-Butadiene |
| Bromomethane |
| Chloroethane |
| Freon 11 |
| Ethanol |
| Freon 113 |
| 1,1-Dichloroethene |
| Acetone |
| 2-Propanol |
| Carbon Disulfide |
| Methylene Chloride |
| Methyl tert-butyl ether |
| trans-1,2-Dichloroethene |
| Hexane |
| 1,1-Dichloroethane |
| 2-Butanone (Methyl Ethyl Ketone) |
| cis-1,2-Dichloroethene |
| Tetrahydrofuran |
| Chloroform |
| 1,1,1-Trichloroethane |
| Cyclohexane |
| Carbon Tetrachloride |
| **Surrogates:** |
| 1,2-Dichloroethane-d4 |

| 1,4-Difluorobenzene |
|---|
| **Target Compounds:** |
| Benzene |
| 1,2-Dichloroethane |
| Heptane |
| Trichloroethene |
| 1,2-Dichloropropane |
| 1,4-Dioxane |
| Bromodichloromethane |
| cis-1,3-Dichloropropene |
| 4-Methyl-2-pentanone |
| Toluene |
| **Surrogates:** |
| Toluene-d8 |

| Chlorobenzene-d5 |
|---|
| **Target Compounds:** |
| trans-1,3-Dichloropropene |
| 1,1,2-Trichloroethane |
| Tetrachloroethene |
| 2-Hexanone |
| Dibromochloromethane |
| 1,2-Dibromoethane (EDB) |
| Chlorobenzene |
| Ethyl Benzene |
| m,p-Xylene |
| o-Xylene |
| Styrene |
| Bromoform |
| Cumene |
| 1,1,2,2-Tetrachloroethane |
| Propylbenzene |
| 4-Ethyltoluene |
| 1,3,5-Trimethylbenzene |
| 1,2,4-Trimethylbenzene |
| 1,3-Dichlorobenzene |
| 1,4-Dichlorobenzene |
| alpha-Chlorotoluene |
| 1,2-Dichlorobenzene |
| 1,2,4-Trichlorobenzene |
| Hexachlorobutadiene |
| **Surrogates:** |
| Bromofluorobenzene |

Air Toxics Ltd.

AMBIENT AIR METHOD TO14/TO15

Data file : /chem/msda.i/18Aug2011.b/a081816.d
Lab Smp Id: LCS Client Smp ID: LCS
Inj Date : 19-AUG-2011 10:13
Operator : cr Inst ID: msda.i
Smp Info : 25mL #2296-134
Misc Info : 5ppbv (50ppbv)
Comment :
Method : /chem/msda.i/18Aug2011.b/a11l0818a.m
Meth Date : 19-Aug-2011 13:38 croush Quant Type: ISTD
Cal Date : 18-AUG-2011 18:56 Cal File: a081812.d
Als bottle: 5 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AT09.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

| | | | | CONCENTRATIONS ON-COL | FINAL | | |
|---|---|---|---|---|---|---|---|
| RT | EXP RT (REL RT) | MASS | RESPONSE | ( PPBV) | ( PPBV) | TARGET RANGE | RATIO |
| * 52 Bromochloromethane | | | | | | CAS #: 74-97-5 | |
| 15.406 | 15.406 (1.000) | 130 | 217805 | 10.0000 | | 80.00- 120.00 | 100.00 |
| 15.406 | 15.406 (1.000) | 128 | 172454 | | | 49.03- 109.03 | 79.18 |
| 15.406 | 15.406 (1.000) | 49 | 405932 | | | 177.15- 237.15 | 186.37 |
| * 66 1,4-Difluorobenzene | | | | | | CAS #: 540-36-3 | |
| 16.825 | 16.825 (1.000) | 114 | 1022173 | 10.0000 | | 80.00- 120.00 | 100.00 |
| 16.825 | 16.825 (1.000) | 88 | 174850 | | | 0.00- 47.14 | 17.11 |
| * 88 Chlorobenzene-d5 | | | | | | CAS #: 3114-55-4 | |
| 21.614 | 21.614 (1.000) | 117 | 865916 | 10.0000 | | 80.00- 120.00 | 100.00 |
| 21.614 | 21.614 (1.000) | 82 | 520000 | | | 29.05- 89.05 | 60.05 |
| $ 61 1,2-Dichloroethane-d4 | | | | | | CAS #: 17060-07-0 | |
| 16.249 | 16.249 (1.055) | 65 | 406291 | 10.3663 | 10.366 | 80.00- 120.00 | 100.00 |
| 16.249 | 16.249 (1.055) | 67 | 210172 | | | 21.17- 81.17 | 51.73 |
| $ 80 Toluene-d8 | | | | | | CAS #: 2037-26-5 | |
| 19.412 | 19.412 (1.154) | 98 | 990088 | 9.96372 | 9.964 | 80.00- 120.00 | 100.00 |
| 19.412 | 19.412 (1.154) | 70 | 118798 | | | 0.00- 41.96 | 12.00 |

| RT | EXP RT (REL RT) | MASS | RESPONSE | CONCENTRATIONS ON-COL ( PPBV) | CONCENTRATIONS FINAL ( PPBV) | TARGET RANGE | RATIO |
|---|---|---|---|---|---|---|---|
| $ 80 Toluene-d8 (continued) | | | | | | | |
| 19.412 | 19.412 (1.154) | 100 | 667351 | | | 37.45- 97.45 | 67.40 |
| $ 100 Bromofluorobenzene | | | | | CAS #: 460-00-4 | | |
| 23.068 | 23.068 (1.067) | 174 | 445799 | 9.88451 | 9.884 | 80.00- 120.00 | 100.00 |
| 23.068 | 23.068 (1.067) | 95 | 667032 | | | 118.93- 178.93 | 149.63 |
| 23.068 | 23.068 (1.067) | 176 | 429796 | | | 65.47- 125.47 | 96.41 |
| 2 Propylene | | | | | CAS #: 115-07-1 | | |
| 4.914 | 5.083 (0.319) | 41 | 204623 | 4.38586 | 4.386 | 80.00- 120.00 | 100.00 |
| 4.914 | 5.083 (0.319) | 42 | 129128 | | | 36.86- 96.86 | 63.11 |
| 4.914 | 5.083 (0.319) | 39 | 138828 | | | 41.49- 101.49 | 67.85 |
| 4 Dichlorodifluoromethane/Fr12 | | | | | CAS #: 75-71-8 | | |
| 5.445 | 5.565 (0.353) | 85 | 712454 | 4.97884 | 4.979 | 80.00- 120.00 | 100.00 |
| 5.445 | 5.565 (0.353) | 87 | 226275 | | | 2.34- 62.34 | 31.76 |
| 6 Freon 114 | | | | | CAS #: 76-14-2 | | |
| 6.867 | 6.939 (0.446) | 135 | 446708 | 4.93245 | 4.932 | 80.00- 120.00 | 100.00 |
| 6.867 | 6.939 (0.446) | 137 | 142091 | | | 1.34- 61.34 | 31.81 |
| 6.867 | 6.939 (0.446) | 85 | 644887 | | | 133.27- 193.27 | 144.36 |
| 7 Chloromethane | | | | | CAS #: 74-87-3 | | |
| 7.180 | 7.252 (0.466) | 50 | 275695 | 5.24253 | 5.242 | 80.00- 120.00 | 100.00 |
| 7.180 | 7.252 (0.466) | 52 | 81552 | | | 2.29- 62.29 | 29.58 |
| 9 Butane | | | | | CAS #: 106-97-8 | | |
| 7.885 | 7.937 (0.512) | 58 | 63340 | 4.81079 | 4.811 | 80.00- 120.00 | 100.00 |
| 7.885 | 7.937 (0.512) | 43 | 429458 | | | 641.41- 701.41 | 678.01 |
| 10 Vinyl Chloride | | | | | CAS #: 75-01-4 | | |
| 8.041 | 8.076 (0.522) | 62 | 288599 | 4.86231 | 4.862 | 80.00- 120.00 | 100.00 |
| 8.041 | 8.076 (0.522) | 64 | 91474 | | | 1.55- 61.55 | 31.70 |
| 11 1,3-Butadiene | | | | | CAS #: 106-99-0 | | |
| 8.267 | 8.284 (0.537) | 54 | 223853 | 4.81152 | 4.812 | 80.00- 120.00 | 100.00 |
| 8.249 | 8.284 (0.535) | 39 | 214201 | | | 64.36- 124.36 | 95.69 |
| 12 Bromomethane | | | | | CAS #: 74-83-9 | | |
| 9.680 | 9.680 (0.628) | 94 | 143739 | 5.20192 | 5.202 | 80.00- 120.00 | 100.00 |
| 9.680 | 9.680 (0.628) | 96 | 131210 | | | 66.21- 126.21 | 91.28 |
| 13 Chloroethane | | | | | CAS #: 75-00-3 | | |
| 10.136 | 10.136 (0.658) | 64 | 98903 | 4.72049 | 4.720 | 80.00- 120.00 | 100.00 |
| 10.136 | 10.136 (0.658) | 66 | 34401 | | | 2.32- 62.32 | 34.78 |

| RT | EXP RT (REL RT) | MASS | RESPONSE | CONCENTRATIONS ON-COL ( PPBV) | FINAL ( PPBV) | TARGET RANGE | RATIO |
|---|---|---|---|---|---|---|---|
| 14 Isopentane | | | | | CAS #: 78-78-4 | | |
| 10.240 | 10.260 (0.665) | 57 | 227687 | 5.25116 | 5.251 | 80.00- 120.00 | 100.00 |
| 10.240 | 10.260 (0.665) | 43 | 313035 | | | 104.71- 164.71 | 137.48 |
| 10.240 | 10.260 (0.665) | 42 | 272531 | | | 89.04- 149.04 | 119.70 |
| 16 Trichlorofluoromethane/Fr11 | | | | | CAS #: 75-69-4 | | |
| 10.841 | 10.841 (0.704) | 101 | 519640 | 4.56534 | 4.565 | 80.00- 120.00 | 100.00 |
| 10.841 | 10.841 (0.704) | 103 | 334372 | | | 35.43- 95.43 | 64.35 |
| 20 Ethanol | | | | | CAS #: 64-17-5 | | |
| 11.691 | 11.690 (0.759) | 45 | 107152 | 13.5790 | 13.579 | 70.00- 130.00 | 100.00(R) |
| 11.691 | 11.690 (0.759) | 43 | 22698 | | | 0.00- 57.08 | 21.18 |
| 11.691 | 11.690 (0.759) | 46 | 43058 | | | 10.87- 70.87 | 40.18 |
| 23 1,1-Dichloroethene | | | | | CAS #: 75-35-4 | | |
| 12.147 | 12.147 (0.788) | 98 | 174328 | 5.50973 | 5.510 | 80.00- 120.00 | 100.00 |
| 12.147 | 12.147 (0.788) | 61 | 487118 | | | 252.93- 312.93 | 279.42 |
| 12.147 | 12.147 (0.788) | 96 | 276940 | | | 129.43- 189.43 | 158.86 |
| 22 Freon 113 | | | | | CAS #: 76-13-1 | | |
| 12.126 | 12.126 (0.787) | 151 | 430731 | 5.59305 | 5.593 | 80.00- 120.00 | 100.00 |
| 12.126 | 12.126 (0.787) | 153 | 274140 | | | 33.27- 93.27 | 63.65 |
| 12.126 | 12.126 (0.787) | 101 | 607061 | | | 109.89- 169.89 | 140.94 |
| 24 Acetone | | | | | CAS #: 67-64-1 | | |
| 12.437 | 12.416 (0.807) | 58 | 139265 | 4.91579 | 4.916 | 80.00- 120.00 | 100.00 |
| 12.437 | 12.416 (0.807) | 43 | 442799 | | | 283.54- 343.54 | 317.95 |
| 26 Carbon Disulfide | | | | | CAS #: 75-15-0 | | |
| 12.499 | 12.499 (0.811) | 76 | 715312 | 6.15348 | 6.153 | 80.00- 120.00 | 100.00 |
| 28 3-Chloroprene | | | | | CAS #: 107-05-1 | | |
| 12.913 | 12.913 (0.838) | 76 | 85597 | 7.29784 | 7.298 | 80.00- 120.00 | 100.00(R) |
| 12.913 | 12.913 (0.838) | 41 | 257415 | | | 273.34- 333.34 | 300.73 |
| 27 2-Propanol | | | | | CAS #: 67-63-0 | | |
| 12.727 | 12.727 (0.826) | 45 | 658603 | 5.03523 | 5.035 | 80.00- 120.00 | 100.00 |
| 12.727 | 12.727 (0.826) | 43 | 131159 | | | 0.00- 49.76 | 19.91 |
| 12.727 | 12.727 (0.826) | 59 | 28031 | | | 0.00- 34.09 | 4.26 |
| 33 Methylene Chloride | | | | | CAS #: 75-09-2 | | |
| 13.188 | 13.188 (0.856) | 84 | 215412 | 4.38051 | 4.380 | 80.00- 120.00 | 100.00 |
| 13.188 | 13.188 (0.856) | 49 | 314356 | | | 112.00- 172.00 | 145.93 |
| 13.188 | 13.188 (0.856) | 51 | 94740 | | | 13.10- 73.10 | 43.98 |
| 34 tert-butyl alcohol | | | | | CAS #: 75-65-0 | | |
| 13.380 | 13.380 (0.868) | 59 | 319914 | 3.68223 | 3.682 | 80.00- 120.00 | 100.00 |

| RT | EXP RT (REL RT) | MASS | RESPONSE | CONCENTRATIONS ON-COL ( PPBV) | FINAL ( PPBV) | TARGET RANGE | RATIO |
|---|---|---|---|---|---|---|---|
| 34 tert-butyl alcohol (continued) | | | | | | | |
| 13.380 | 13.380 (0.868) | 41 | 78727 | | | 0.00- 48.20 | 24.61 |
| 13.380 | 13.380 (0.868) | 57 | 38340 | | | 0.00- 38.59 | 11.98 |
| 35 MTBE | | | | | CAS #: 1634-04-4 | | |
| 13.517 | 13.517 (0.877) | 73 | 809130 | 4.96274 | 4.963 | 80.00- 120.00 | 100.00 |
| 13.517 | 13.517 (0.877) | 57 | 196570 | | | 0.00- 55.70 | 24.29 |
| 13.517 | 13.517 (0.877) | 41 | 186951 | | | 0.00- 55.35 | 23.11 |
| 36 trans-1,2-Dichloroethene | | | | | CAS #: 156-60-5 | | |
| 13.544 | 13.544 (0.879) | 98 | 199697 | 5.51945 | 5.519 | 80.00- 120.00 | 100.00 |
| 13.544 | 13.544 (0.879) | 61 | 478720 | | | 212.41- 272.41 | 239.72 |
| 13.544 | 13.544 (0.879) | 96 | 316791 | | | 128.28- 188.28 | 158.64 |
| 40 Hexane | | | | | CAS #: 110-54-3 | | |
| 13.846 | 13.846 (0.899) | 57 | 509947 | 4.67847 | 4.678 | 80.00- 120.00 | 100.00 |
| 13.846 | 13.846 (0.899) | 43 | 325485 | | | 33.38- 93.38 | 63.83 |
| 13.846 | 13.846 (0.899) | 86 | 86406 | | | 0.00- 46.43 | 16.94 |
| 41 Isopropyl ether | | | | | CAS #: 108-20-3 | | |
| 14.203 | 14.203 (0.922) | 45 | 1025817 | 4.59886 | 4.599 | 80.00- 120.00 | 100.00 |
| 14.203 | 14.203 (0.922) | 87 | 256093 | | | 0.00- 54.93 | 24.96 |
| 14.203 | 14.203 (0.922) | 59 | 116848 | | | 0.00- 41.38 | 11.39 |
| 42 1,1-Dichloroethane | | | | | CAS #: 75-34-3 | | |
| 14.258 | 14.231 (0.926) | 63 | 534210 | 5.21505 | 5.215 | 80.00- 120.00 | 100.00 |
| 14.258 | 14.231 (0.926) | 65 | 171722 | | | 2.24- 62.24 | 32.15 |
| 44 Vinyl Acetate | | | | | CAS #: 108-05-4 | | |
| 14.258 | 14.258 (0.926) | 86 | 54239 | 4.62695 | 4.627 | 80.00- 120.00 | 100.00 |
| 14.258 | 14.258 (0.926) | 42 | 53061 | | | 71.80- 131.80 | 97.83 |
| 14.258 | 14.258 (0.926) | 43 | 598640 | | | 1179.88-1239.88 | 1103.71 |
| 46 Ethyl-tert-butyl ether | | | | | CAS #: 637-92-3 | | |
| 14.692 | 14.692 (0.954) | 59 | 941777 | 4.41805 | 4.418 | 80.00- 120.00 | 100.00 |
| 14.692 | 14.692 (0.954) | 87 | 357627 | | | 8.46- 68.46 | 37.97 |
| 14.692 | 14.692 (0.954) | 41 | 168434 | | | 0.00- 47.65 | 17.88 |
| 47 cis-1,2-Dichloroethene | | | | | CAS #: 156-59-2 | | |
| 15.065 | 15.065 (0.978) | 98 | 199044 | 4.93953 | 4.940 | 80.00- 120.00 | 100.00 |
| 15.065 | 15.065 (0.978) | 61 | 439650 | | | 191.49- 251.49 | 220.88 |
| 15.065 | 15.065 (0.978) | 96 | 309112 | | | 128.26- 188.26 | 155.30 |
| 48 2-Butanone | | | | | CAS #: 78-93-3 | | |
| 15.065 | 15.065 (0.978) | 72 | 155944 | 4.80325 | 4.803 | 80.00- 120.00 | 100.00 |
| 15.065 | 15.065 (0.978) | 43 | 654525 | | | 298.82- 358.82 | 419.72 |

| RT | EXP RT (REL RT) | MASS | RESPONSE | CONCENTRATIONS ON-COL ( PPBV) | CONCENTRATIONS FINAL ( PPBV) | TARGET RANGE | RATIO |
|---|---|---|---|---|---|---|---|
| 48 2-Butanone (continued) | | | | | | | |
| 15.065 | 15.065 (0.978) | 57 | 51757 | | | 0.00- 56.09 | 33.19 |
| 51 Tetrahydrofuran | | | | | CAS #: 109-99-9 | | |
| 15.406 | 15.406 (1.000) | 42 | 362732 | 5.05881 | 5.059 | 80.00- 120.00 | 100.00 |
| 15.406 | 15.406 (1.000) | 71 | 132381 | | | 6.88- 66.88 | 36.50 |
| 15.406 | 15.406 (1.000) | 72 | 145773 | | | 11.00- 71.00 | 40.19 |
| 53 Chloroform | | | | | CAS #: 67-66-3 | | |
| 15.467 | 15.467 (1.004) | 83 | 621969 | 5.02145 | 5.021 | 80.00- 120.00 | 100.00 |
| 15.467 | 15.467 (1.004) | 85 | 397458 | | | 34.45- 94.45 | 63.90 |
| 55 Cyclohexane | | | | | CAS #: 110-82-7 | | |
| 15.714 | 15.714 (1.020) | 84 | 447664 | 4.92481 | 4.925 | 80.00- 120.00 | 100.00 |
| 15.714 | 15.714 (1.020) | 56 | 564822 | | | 97.99- 157.99 | 126.17 |
| 15.714 | 15.714 (1.020) | 41 | 307943 | | | 37.94- 97.94 | 68.79 |
| 56 1,1,1-Trichloroethane | | | | | CAS #: 71-55-6 | | |
| 15.714 | 15.714 (1.020) | 97 | 657296 | 4.96708 | 4.967 | 80.00- 120.00 | 100.00 |
| 15.714 | 15.714 (1.020) | 99 | 419927 | | | 34.37- 94.37 | 63.89 |
| 57 Carbon Tetrachloride | | | | | CAS #: 56-23-5 | | |
| 15.930 | 15.930 (1.034) | 119 | 526620 | 5.30825 | 5.308 | 80.00- 120.00 | 100.00 |
| 15.930 | 15.930 (1.034) | 117 | 547964 | | | 74.49- 134.49 | 104.05 |
| 59 2,2,4-Trimethylpentane | | | | | CAS #: 540-84-1 | | |
| 16.194 | 16.194 (1.051) | 56 | 719713 | 5.16198 | 5.162 | 80.00- 120.00 | 100.00 |
| 16.194 | 16.194 (1.051) | 57 | 2031180 | | | 264.71- 324.71 | 282.22 |
| 16.194 | 16.194 (1.051) | 41 | 550477 | | | 74.97- 134.97 | 76.49 |
| 60 Benzene | | | | | CAS #: 71-43-2 | | |
| 16.276 | 16.276 (0.967) | 78 | 939682 | 4.94955 | 4.950 | 80.00- 120.00 | 100.00 |
| 16.276 | 16.276 (0.967) | 77 | 215744 | | | 0.00- 53.14 | 22.96 |
| 62 tert-amyl methyl ether | | | | | CAS #: 994-05-8 | | |
| 16.303 | 16.303 (0.969) | 87 | 169826 | 3.89687 | 3.897 | 80.00- 120.00 | 100.00 |
| 16.303 | 16.303 (0.969) | 73 | 719574 | | | 388.88- 448.88 | 423.71 |
| 16.303 | 16.303 (0.969) | 55 | 196591 | | | 85.24- 145.24 | 115.76 |
| 63 1,2-Dichloroethane | | | | | CAS #: 107-06-2 | | |
| 16.386 | 16.386 (0.974) | 62 | 457462 | 5.09890 | 5.099 | 80.00- 120.00 | 100.00 |
| 16.386 | 16.386 (0.974) | 64 | 146060 | | | 2.07- 62.07 | 31.93 |
| 64 Heptane | | | | | CAS #: 142-82-5 | | |
| 16.413 | 16.413 (0.976) | 57 | 307725 | 4.86330 | 4.863 | 80.00- 120.00 | 100.00 |
| 16.413 | 16.413 (0.976) | 100 | 126129 | | | 11.16- 71.16 | 40.99 |

| RT | EXP RT (REL RT) | MASS | RESPONSE | CONCENTRATIONS ON-COL ( PPBV) | FINAL ( PPBV) | TARGET RANGE | RATIO |
|---|---|---|---|---|---|---|---|
| 64 Heptane (continued) | | | | | | | |
| 16.413 | 16.413 (0.976) | 43 | 574995 | | | 158.27- 218.27 | 186.85 |
| 67 Trichloroethene | | | | | CAS #: 79-01-6 | | |
| 17.237 | 17.237 (1.024) | 130 | 415637 | 5.12700 | 5.127 | 80.00- 120.00 | 100.00 |
| 17.237 | 17.237 (1.024) | 95 | 433187 | | | 75.28- 135.28 | 104.22 |
| 17.237 | 17.237 (1.024) | 97 | 277969 | | | 37.01- 97.01 | 66.88 |
| 69 Methylcyclohexane | | | | | CAS #: 108-87-2 | | |
| 17.484 | 17.484 (1.039) | 83 | 572086 | 5.08449 | 5.084 | 80.00- 120.00 | 100.00 |
| 17.484 | 17.484 (1.039) | 98 | 270794 | | | 17.59- 77.59 | 47.33 |
| 17.484 | 17.484 (1.039) | 55 | 489416 | | | 57.89- 117.89 | 85.55 |
| 72 1,2-Dichloropropane | | | | | CAS #: 78-87-5 | | |
| 17.731 | 17.731 (1.054) | 63 | 370842 | 4.91753 | 4.918 | 80.00- 120.00 | 100.00 |
| 17.731 | 17.731 (1.054) | 62 | 270344 | | | 43.22- 103.22 | 72.90 |
| 17.731 | 17.731 (1.054) | 41 | 221009 | | | 29.22- 89.22 | 59.60 |
| 74 1,4-Dioxane | | | | | CAS #: 123-91-1 | | |
| 17.869 | 17.869 (1.062) | 88 | 224489 | 4.99194 | 4.992 | 80.00- 120.00 | 100.00 |
| 17.869 | 17.869 (1.062) | 58 | 169177 | | | 46.02- 106.02 | 75.36 |
| 17.869 | 17.869 (1.062) | 57 | 55288 | | | 0.00- 53.54 | 24.63 |
| 76 Bromodichloromethane | | | | | CAS #: 75-27-4 | | |
| 18.143 | 18.143 (1.078) | 83 | 671428 | 5.16850 | 5.168 | 80.00- 120.00 | 100.00 |
| 18.143 | 18.143 (1.078) | 85 | 427938 | | | 33.96- 93.96 | 63.74 |
| 77 cis-1,3-Dichloropropene | | | | | CAS #: 10061-01-5 | | |
| 18.986 | 18.986 (1.128) | 75 | 512116 | 4.96856 | 4.968 | 80.00- 120.00 | 100.00 |
| 18.986 | 18.986 (1.128) | 77 | 162815 | | | 1.99- 61.99 | 31.79 |
| 18.986 | 18.986 (1.128) | 39 | 270293 | | | 21.94- 81.94 | 52.78 |
| 78 4-Methyl-2-pentanone | | | | | CAS #: 108-10-1 | | |
| 19.188 | 19.187 (1.140) | 43 | 741415 | 4.75520 | 4.755 | 80.00- 120.00 | 100.00 |
| 19.188 | 19.187 (1.140) | 58 | 296802 | | | 10.31- 70.31 | 40.03 |
| 19.188 | 19.187 (1.140) | 85 | 120285 | | | 0.00- 46.66 | 16.22 |
| 81 Toluene | | | | | CAS #: 108-88-3 | | |
| 19.524 | 19.524 (1.160) | 91 | 1042945 | 4.80339 | 4.803 | 80.00- 120.00 | 100.00 |
| 19.524 | 19.524 (1.160) | 92 | 629307 | | | 30.18- 90.18 | 60.34 |
| 82 trans-1,3-Dichloropropene | | | | | CAS #: 10061-02-6 | | |
| 19.910 | 19.910 (0.921) | 75 | 513832 | 5.04091 | 5.041 | 80.00- 120.00 | 100.00 |
| 19.910 | 19.910 (0.921) | 77 | 162585 | | | 1.51- 61.51 | 31.64 |
| 19.910 | 19.910 (0.921) | 39 | 258289 | | | 20.28- 80.28 | 50.27 |

| RT | EXP RT (REL RT) | MASS | RESPONSE | CONCENTRATIONS ON-COL ( PPBV) | CONCENTRATIONS FINAL ( PPBV) | TARGET RANGE | RATIO |
|---|---|---|---|---|---|---|---|
| 83 1,1,2-Trichloroethane | | | | | CAS #: 79-00-5 | | |
| 20.235 | 20.235 (0.936) | 97 | 389510 | 4.80148 | 4.801 | 80.00- 120.00 | 100.00 |
| 20.235 | 20.235 (0.936) | 99 | 246308 | | | 32.01- 92.01 | 63.24 |
| 20.235 | 20.235 (0.936) | 83 | 337109 | | | 57.12- 117.12 | 86.55 |
| 84 Tetrachloroethene | | | | | CAS #: 127-18-4 | | |
| 20.366 | 20.365 (0.942) | 166 | 458086 | 4.89860 | 4.898 | 80.00- 120.00 | 100.00 |
| 20.366 | 20.365 (0.942) | 129 | 364208 | | | 48.84- 108.84 | 79.51 |
| 20.366 | 20.365 (0.942) | 131 | 351891 | | | 46.09- 106.09 | 76.82 |
| 85 2-Hexanone | | | | | CAS #: 591-78-6 | | |
| 20.496 | 20.496 (0.948) | 58 | 395612 | 4.86593 | 4.866 | 80.00- 120.00 | 100.00 |
| 20.496 | 20.496 (0.948) | 43 | 713901 | | | 132.91- 192.91 | 180.45 |
| 20.496 | 20.496 (0.948) | 100 | 80086 | | | 0.00- 49.97 | 20.24 |
| 86 Dibromochloromethane | | | | | CAS #: 124-48-1 | | |
| 20.821 | 20.821 (0.963) | 129 | 621837 | 5.19731 | 5.197 | 80.00- 120.00 | 100.00 |
| 20.821 | 20.821 (0.963) | 127 | 484139 | | | 48.12- 108.12 | 77.86 |
| 87 1,2-Dibromoethane | | | | | CAS #: 106-93-4 | | |
| 21.048 | 21.048 (0.974) | 107 | 590298 | 5.10598 | 5.106 | 80.00- 120.00 | 100.00 |
| 21.048 | 21.048 (0.974) | 109 | 556506 | | | 64.41- 124.41 | 94.28 |
| 89 Chlorobenzene | | | | | CAS #: 108-90-7 | | |
| 21.663 | 21.663 (1.002) | 112 | 812450 | 4.93595 | 4.936 | 80.00- 120.00 | 100.00 |
| 21.663 | 21.663 (1.002) | 114 | 257808 | | | 2.00- 62.00 | 31.73 |
| 21.663 | 21.663 (1.002) | 77 | 500345 | | | 32.21- 92.21 | 61.58 |
| 91 Ethyl Benzene | | | | | CAS #: 100-41-4 | | |
| 21.711 | 21.711 (1.004) | 106 | 404825 | 4.79370 | 4.794 | 80.00- 120.00 | 100.00 |
| 21.711 | 21.711 (1.004) | 91 | 1293836 | | | 291.22- 351.22 | 319.60 |
| 93 m,p-Xylene | | | | | CAS #: 108-38-3 | | |
| 21.879 | 21.879 (1.012) | 106 | 444548 | 4.81414 | 4.814 | 80.00- 120.00 | 100.00 |
| 21.879 | 21.879 (1.012) | 91 | 905802 | | | 173.15- 233.15 | 203.76 |
| 94 o-Xylene | | | | | CAS #: 95-47-6 | | |
| 22.385 | 22.409 (1.036) | 106 | 432509 | 4.86813 | 4.868 | 80.00- 120.00 | 100.00 |
| 22.385 | 22.409 (1.036) | 91 | 930269 | | | 185.20- 245.20 | 215.09 |
| 95 Styrene | | | | | CAS #: 100-42-5 | | |
| 22.409 | 22.433 (1.037) | 104 | 672471 | 4.65685 | 4.657 | 80.00- 120.00 | 100.00 |
| 22.409 | 22.433 (1.037) | 78 | 348634 | | | 21.95- 81.95 | 51.84 |
| 97 Bromoform | | | | | CAS #: 75-25-2 | | |
| 22.707 | 22.707 (1.051) | 173 | 520650 | 5.10531 | 5.105 | 80.00- 120.00 | 100.00 |

| RT | EXP RT (REL RT) | MASS | RESPONSE | CONCENTRATIONS ON-COL ( PPBV) | CONCENTRATIONS FINAL ( PPBV) | TARGET RANGE | RATIO |
|---|---|---|---|---|---|---|---|
| 97 Bromoform (continued) | | | | | | | |
| 22.707 | 22.707 (1.051) | 171 | 267215 | | | 22.12- 82.12 | 51.32 |
| 98 Cumene | | | | | CAS #: 98-82-8 | | |
| 22.810 | 22.810 (1.055) | 105 | 1280096 | 4.79947 | 4.799 | 80.00- 120.00 | 100.00 |
| 22.810 | 22.810 (1.055) | 120 | 336708 | | | 0.00- 56.13 | 26.30 |
| 103 1,1,2,2-Tetrachloroethane | | | | | CAS #: 79-34-5 | | |
| 23.223 | 23.223 (1.074) | 83 | 756558 | 4.91394 | 4.914 | 80.00- 120.00 | 100.00 |
| 23.223 | 23.223 (1.074) | 85 | 488619 | | | 34.44- 94.44 | 64.58 |
| 104 Propylbenzene | | | | | CAS #: 103-65-1 | | |
| 23.274 | 23.300 (1.077) | 91 | 1271664 | 4.60773 | 4.608 | 80.00- 120.00 | 100.00 |
| 23.300 | 23.300 (1.078) | 120 | 284504 | | | 0.00- 52.40 | 22.37 |
| 107 4-Ethyltoluene | | | | | CAS #: 622-96-8 | | |
| 23.403 | 23.403 (1.083) | 105 | 1200186 | 4.76493 | 4.765 | 80.00- 120.00 | 100.00 |
| 23.403 | 23.403 (1.083) | 120 | 292920 | | | 0.31- 60.31 | 24.41 |
| 109 1,3,5-Trimethylbenzene | | | | | CAS #: 108-67-8 | | |
| 23.481 | 23.481 (1.086) | 105 | 924837 | 4.64796 | 4.648 | 80.00- 120.00 | 100.00 |
| 23.481 | 23.481 (1.086) | 120 | 525992 | | | 18.26- 78.26 | 56.87 |
| 112 1,2,4-Trimethylbenzene | | | | | CAS #: 95-63-6 | | |
| 23.893 | 23.893 (1.105) | 105 | 851655 | 4.58595 | 4.586 | 80.00- 120.00 | 100.00 |
| 23.893 | 23.893 (1.105) | 120 | 381593 | | | 15.25- 75.25 | 44.81 |
| 115 1,3-Dichlorobenzene | | | | | CAS #: 541-73-1 | | |
| 24.280 | 24.280 (1.123) | 146 | 563837 | 4.31917 | 4.319 | 80.00- 120.00 | 100.00 |
| 24.280 | 24.280 (1.123) | 148 | 352462 | | | 33.56- 93.56 | 62.51 |
| 24.280 | 24.280 (1.123) | 111 | 247775 | | | 14.68- 74.68 | 43.94 |
| 117 1,4-Dichlorobenzene | | | | | CAS #: 106-46-7 | | |
| 24.384 | 24.383 (1.128) | 146 | 505636 | 4.31378 | 4.314 | 80.00- 120.00 | 100.00 |
| 24.384 | 24.383 (1.128) | 148 | 315112 | | | 33.39- 93.39 | 62.32 |
| 24.384 | 24.383 (1.128) | 111 | 211009 | | | 12.70- 72.70 | 41.73 |
| 118 alpha-chlorotoluene | | | | | CAS #: 100-44-7 | | |
| 24.512 | 24.512 (1.134) | 91 | 854186 | 4.73531 | 4.735 | 80.00- 120.00 | 100.00 |
| 24.512 | 24.512 (1.134) | 126 | 166733 | | | 0.00- 49.37 | 19.52 |
| 121 1,2-Dichlorobenzene | | | | | CAS #: 95-50-1 | | |
| 24.796 | 24.796 (1.147) | 146 | 515500 | 4.48889 | 4.489 | 80.00- 120.00 | 100.00 |
| 24.796 | 24.796 (1.147) | 148 | 319996 | | | 31.61- 91.61 | 62.08 |
| 24.796 | 24.796 (1.147) | 111 | 234329 | | | 15.03- 75.03 | 45.46 |

| RT | EXP RT (REL RT) | MASS | RESPONSE | CONCENTRATIONS ON-COL ( PPBV) | FINAL ( PPBV) | TARGET RANGE | RATIO |
|---|---|---|---|---|---|---|---|
| 126 1,2,4-Trichlorobenzene | | | | | CAS #: 120-82-1 | | |
| 26.550 | 26.550 (1.228) | 180 | 359451 | 5.44096 | 5.441 | 80.00- 120.00 | 100.00 |
| 26.550 | 26.550 (1.228) | 182 | 337049 | | | 62.96- 122.96 | 93.77 |
| 128 Hexachlorobutadiene | | | | | CAS #: 87-68-3 | | |
| 26.627 | 26.653 (1.232) | 225 | 259654 | 5.27052 | 5.270 | 80.00- 120.00 | 100.00 |
| 26.627 | 26.653 (1.232) | 223 | 162878 | | | 34.16- 94.16 | 62.73 |
| 129 Naphthalene | | | | | CAS #: 91-20-3 | | |
| 26.885 | 26.885 (1.244) | 128 | 903551 | 6.55294 | 6.553 | 80.00- 120.00 | 100.00 |
| 26.885 | 26.885 (1.244) | 127 | 120573 | | | 0.00- 42.68 | 13.34 |

QC Flag Legend

R - Spike/Surrogate failed recovery limits.

Report Date: 19-Aug-2011 14:04

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msda.i
Lab File ID: a081816.d
Lab Smp Id: LCS
Analysis Type: VOA
Quant Type: ISTD
Operator: cr
Method File: /chem/msda.i/18Aug2011.b/a11l0818a.m
Misc Info: 5ppbv (50ppbv)

Calibration Date: 18-AUG-2011
Calibration Time: 17:09
Client Smp ID: LCS
Level: LOW
Sample Type: AIR

| | | AREA LIMIT | | | |
|---|---|---|---|---|---|
| COMPOUND | STANDARD | LOWER | UPPER | SAMPLE | %DIFF |
| 52 Bromochloromethan | 220017 | 132010 | 308024 | 217805 | -1.01 |
| 66 1,4-Difluorobenze | 1019583 | 611750 | 1427416 | 1022173 | 0.25 |
| 88 Chlorobenzene-d5 | 873528 | 524117 | 1222939 | 865916 | -0.87 |

| | | RT LIMIT | | | |
|---|---|---|---|---|---|
| COMPOUND | STANDARD | LOWER | UPPER | SAMPLE | %DIFF |
| 52 Bromochloromethan | 15.41 | 15.08 | 15.74 | 15.41 | 0.00 |
| 66 1,4-Difluorobenze | 16.83 | 16.50 | 17.16 | 16.83 | 0.00 |
| 88 Chlorobenzene-d5 | 21.61 | 21.28 | 21.94 | 21.61 | 0.00 |

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Report Date: 19-Aug-2011 14:04

Air Toxics Ltd.

RECOVERY REPORT

Client Name: Client SDG: 18Aug2011
Sample Matrix: GAS Fraction: VOA
Lab Smp Id: LCS Client Smp ID: LCS
Level: LOW Operator: cr
Data Type: MS DATA SampleType: LCS
SpikeList File: AT09.spk Quant Type: ISTD
Sublist File: AT09.sub
Method File: /chem/msda.i/18Aug2011.b/a11l0818a.m
Misc Info: 5ppbv (50ppbv)

| | SPIKE COMPOUND | CONC ADDED PPBV | CONC RECOVERED PPBV | % RECOVERED | LIMITS |
|---|---|---|---|---|---|
| 4 | Dichlorodifluorome | 5.000 | 4.979 | 99.58 | 70-130 |
| 2 | Propylene | 5.000 | 4.386 | 87.72 | 60-140 |
| 6 | Freon 114 | 5.000 | 4.932 | 98.65 | 70-130 |
| 7 | Chloromethane | 5.000 | 5.242 | 104.85 | 70-130 |
| 10 | Vinyl Chloride | 5.000 | 4.862 | 97.25 | 70-130 |
| 11 | 1,3-Butadiene | 5.000 | 4.812 | 96.23 | 60-140 |
| 12 | Bromomethane | 5.000 | 5.202 | 104.04 | 70-130 |
| 13 | Chloroethane | 5.000 | 4.720 | 94.41 | 70-130 |
| 16 | Trichlorofluoromet | 5.000 | 4.565 | 91.31 | 70-130 |
| 20 | Ethanol | 5.000 | 13.579 | 271.58* | 60-140 |
| 22 | Freon 113 | 5.000 | 5.593 | 111.86 | 70-130 |
| 23 | 1,1-Dichloroethene | 5.000 | 5.510 | 110.19 | 70-130 |
| 24 | Acetone | 5.000 | 4.916 | 98.32 | 60-140 |
| 26 | Carbon Disulfide | 5.000 | 6.153 | 123.07 | 60-140 |
| 27 | 2-Propanol | 5.000 | 5.035 | 100.70 | 60-140 |
| 28 | 3-Chloroprene | 5.000 | 7.298 | 145.96* | 60-140 |
| 33 | Methylene Chloride | 5.000 | 4.380 | 87.61 | 70-130 |
| 35 | MTBE | 5.000 | 4.963 | 99.25 | 60-140 |
| 36 | trans-1,2-Dichloro | 5.000 | 5.519 | 110.39 | 60-140 |
| 40 | Hexane | 5.000 | 4.678 | 93.57 | 60-140 |
| 42 | 1,1-Dichloroethane | 5.000 | 5.215 | 104.30 | 70-130 |
| 44 | Vinyl Acetate | 5.000 | 4.627 | 92.54 | 60-140 |
| 47 | cis-1,2-Dichloroet | 5.000 | 4.940 | 98.79 | 70-130 |
| 48 | 2-Butanone | 5.000 | 4.803 | 96.06 | 60-140 |
| 51 | Tetrahydrofuran | 5.000 | 5.059 | 101.18 | 60-140 |
| 53 | Chloroform | 5.000 | 5.021 | 100.43 | 70-130 |
| 55 | Cyclohexane | 5.000 | 4.925 | 98.50 | 60-140 |
| 56 | 1,1,1-Trichloroeth | 5.000 | 4.967 | 99.34 | 70-130 |
| 57 | Carbon Tetrachlori | 5.000 | 5.308 | 106.16 | 70-130 |
| 59 | 2,2,4-Trimethylpen | 5.000 | 5.162 | 103.24 | 60-140 |
| 60 | Benzene | 5.000 | 4.950 | 98.99 | 70-130 |
| 64 | Heptane | 5.000 | 4.863 | 97.27 | 60-140 |
| 63 | 1,2-Dichloroethane | 5.000 | 5.099 | 101.98 | 70-130 |

| SPIKE COMPOUND | CONC ADDED PPBV | CONC RECOVERED PPBV | % RECOVERED | LIMITS |
|---|---|---|---|---|
| 67 Trichloroethene | 5.000 | 5.127 | 102.54 | 70-130 |
| 72 1,2-Dichloropropan | 5.000 | 4.918 | 98.35 | 70-130 |
| 74 1,4-Dioxane | 5.000 | 4.992 | 99.84 | 60-140 |
| 76 Bromodichlorometha | 5.000 | 5.168 | 103.37 | 60-140 |
| 77 cis-1,3-Dichloropr | 5.000 | 4.968 | 99.37 | 70-130 |
| 78 4-Methyl-2-pentano | 5.000 | 4.755 | 95.10 | 60-140 |
| 81 Toluene | 5.000 | 4.803 | 96.07 | 70-130 |
| 82 trans-1,3-Dichloro | 5.000 | 5.041 | 100.82 | 70-130 |
| 83 1,1,2-Trichloroeth | 5.000 | 4.801 | 96.03 | 70-130 |
| 85 2-Hexanone | 5.000 | 4.866 | 97.32 | 60-140 |
| 84 Tetrachloroethene | 5.000 | 4.898 | 97.97 | 70-130 |
| 86 Dibromochlorometha | 5.000 | 5.197 | 103.95 | 60-140 |
| 87 1,2-Dibromoethane | 5.000 | 5.106 | 102.12 | 70-130 |
| 89 Chlorobenzene | 5.000 | 4.936 | 98.72 | 70-130 |
| 91 Ethyl Benzene | 5.000 | 4.794 | 95.87 | 70-130 |
| 93 m,p-Xylene | 5.000 | 4.814 | 96.28 | 70-130 |
| 94 o-Xylene | 5.000 | 4.868 | 97.36 | 70-130 |
| 95 Styrene | 5.000 | 4.657 | 93.14 | 70-130 |
| 97 Bromoform | 5.000 | 5.105 | 102.11 | 60-140 |
| 98 Cumene | 5.000 | 4.799 | 95.99 | 60-140 |
| 103 1,1,2,2-Tetrachlor | 5.000 | 4.914 | 98.28 | 70-130 |
| 104 Propylbenzene | 5.000 | 4.608 | 92.15 | 70-130 |
| 107 4-Ethyltoluene | 5.000 | 4.765 | 95.30 | 60-140 |
| 109 1,3,5-Trimethylben | 5.000 | 4.648 | 92.96 | 70-130 |
| 112 1,2,4-Trimethylben | 5.000 | 4.586 | 91.72 | 70-130 |
| 115 1,3-Dichlorobenzen | 5.000 | 4.319 | 86.38 | 70-130 |
| 117 1,4-Dichlorobenzen | 5.000 | 4.314 | 86.28 | 70-130 |
| 118 alpha-chlorotoluen | 5.000 | 4.735 | 94.71 | 70-130 |
| 121 1,2-Dichlorobenzen | 5.000 | 4.489 | 89.78 | 70-130 |
| 126 1,2,4-Trichloroben | 5.000 | 5.441 | 108.82 | 70-130 |
| 128 Hexachlorobutadien | 5.000 | 5.270 | 105.41 | 70-130 |
| 129 Naphthalene | 5.000 | 6.553 | 131.06 | 60-140 |
| 14 Isopentane | 5.000 | 5.251 | 105.02 | 60-140 |
| 9 Butane | 5.000 | 4.811 | 96.22 | 60-140 |
| 69 Methylcyclohexane | 5.000 | 5.084 | 101.69 | 60-140 |
| 34 tert-butyl alcohol | 5.000 | 3.682 | 73.64 | 60-140 |
| 41 Isopropyl ether | 5.000 | 4.599 | 91.98 | 60-140 |
| 46 Ethyl-tert-butyl e | 5.000 | 4.418 | 88.36 | 60-140 |
| 62 tert-amyl methyl e | 5.000 | 3.897 | 77.94 | 60-140 |

| SURROGATE COMPOUND | CONC ADDED PPBV | CONC RECOVERED PPBV | % RECOVERED | LIMITS |
|---|---|---|---|---|
| $ 61 1,2-Dichloroethane | 10.000 | 10.366 | 103.66 | 70-130 |

| SURROGATE COMPOUND | CONC ADDED PPBV | CONC RECOVERED PPBV | % RECOVERED | LIMITS |
|---|---|---|---|---|
| $ 80 Toluene-d8 | 10.000 | 9.964 | 99.64 | 70-130 |
| $ 100 Bromofluorobenzene | 10.000 | 9.884 | 98.85 | 70-130 |

Data File: /chem/msda.i/18Aug2011.b/a081816.d



Date : 19-AUG-2011 10:13

Client ID: LCS

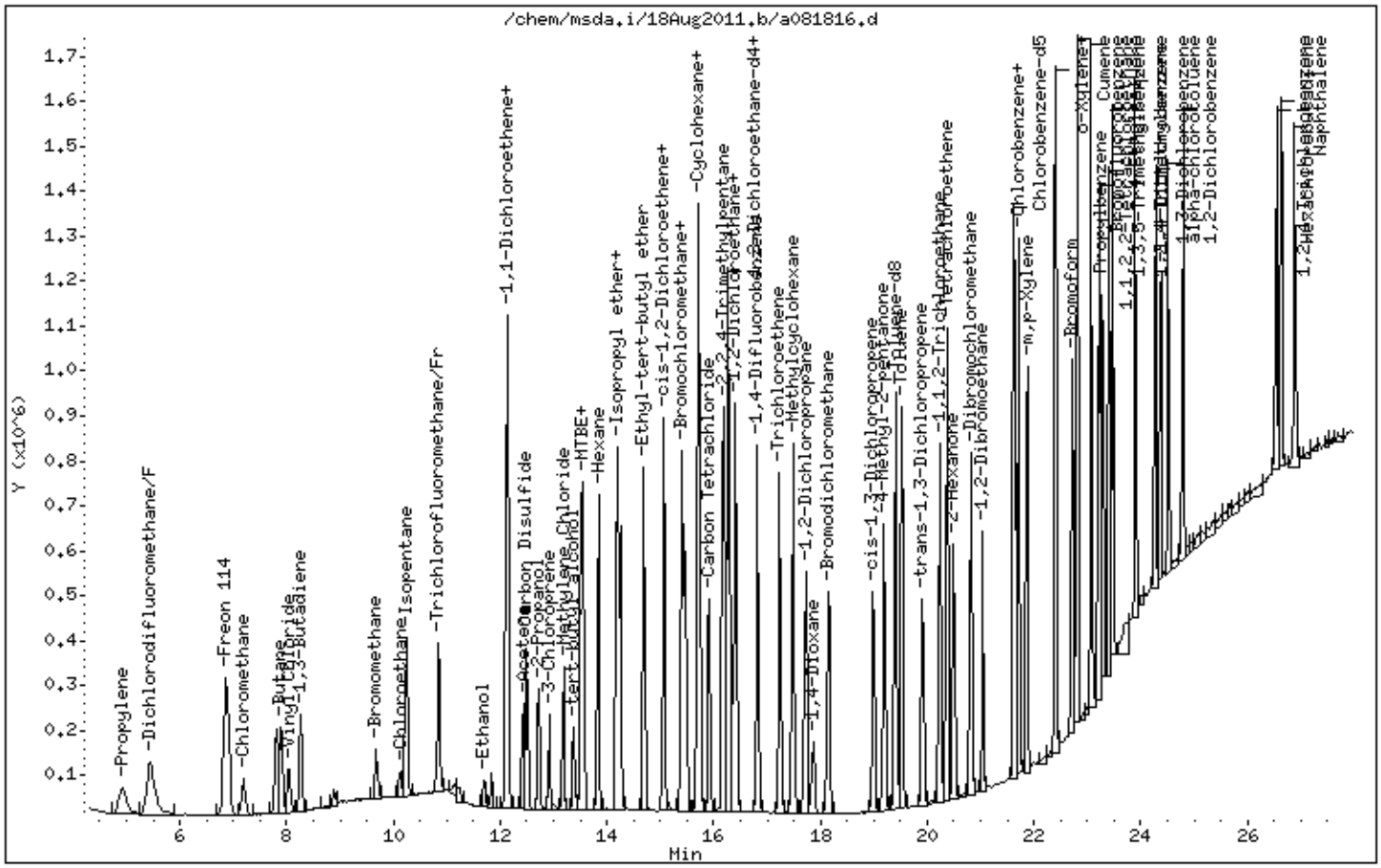
Instrument: msda.i

Sample Info: 25mL #2296-134

Operator: cr

Column phase: RTx-624

Column diameter: 0.32



Air Toxics Ltd.

AMBIENT AIR METHOD TO14/TO15

Data file : /chem/msda.i/18Aug2011.b/a081805.d
Lab Smp Id: ICAL Client Smp ID: Level 4
Inj Date : 18-AUG-2011 14:46
Operator : jc Inst ID: msda.i
Smp Info : 250mL #2296-165
Misc Info : 0.05ppbv (0.05ppbv)
Comment :
Method : /chem/msda.i/18Aug2011.b/a11l0818a.m
Meth Date : 29-Aug-2011 10:21 croush Quant Type: ISTD
Cal Date : 18-AUG-2011 14:46 Cal File: a081805.d
Als bottle: 14 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: Level05.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

| | | | | AMOUNTS CAL-AMT ( PPBV) | AMOUNTS ON-COL ( PPBV) | TARGET RANGE | RATIO |
|---|---|---|---|---|---|---|---|
| * 52 Bromochloromethane | | | | | CAS #: 74-97-5 | | |
| 15.406 | 15.406 (1.000) | 130 | 217948 | 10.0000 | | 70.00- 130.00 | 100.00 |
| 15.406 | 15.406 (1.000) | 128 | 172610 | | | 0.00- 30.00 | 79.20 |
| 15.406 | 15.406 (1.000) | 49 | 342538 | | | 0.00- 30.00 | 157.17 |
| * 66 1,4-Difluorobenzene | | | | | CAS #: 540-36-3 | | |
| 16.825 | 16.825 (1.000) | 114 | 1085399 | 10.0000 | | 70.00- 130.00 | 100.00 |
| 16.825 | 16.825 (1.000) | 88 | 181149 | | | 0.00- 30.00 | 16.69 |
| * 88 Chlorobenzene-d5 | | | | | CAS #: 3114-55-4 | | |
| 21.614 | 21.614 (1.000) | 117 | 923029 | 10.0000 | | 70.00- 130.00 | 100.00 |
| 21.614 | 21.614 (1.000) | 82 | 550674 | | | 0.00- 30.00 | 59.66 |
| $ 61 1,2-Dichloroethane-d4 | | | | | CAS #: 17060-07-0 | | |
| 16.248 | 16.248 (1.055) | 65 | 372323 | 10.0000 | 9.493 | 70.00- 130.00 | 100.00 |
| 16.248 | 16.248 (1.055) | 67 | 188706 | | | 0.00- 30.00 | 50.68 |
| $ 80 Toluene-d8 | | | | | CAS #: 2037-26-5 | | |
| 19.411 | 19.411 (1.154) | 98 | 1043214 | 10.0000 | 9.887 | 70.00- 130.00 | 100.00 |
| 19.411 | 19.411 (1.154) | 70 | 123594 | | | 0.00- 30.00 | 11.85 |

| RT | EXP RT (REL RT) | MASS | RESPONSE | AMOUNTS CAL-AMT ( PPBV) | AMOUNTS ON-COL ( PPBV) | TARGET RANGE | RATIO |
|---|---|---|---|---|---|---|---|
| $ 80 Toluene-d8 (continued) | | | | | | | |
| 19.411 | 19.411 (1.154) | 100 | 705023 | | | 37.45- 97.45 | 67.58 |
| $ 100 Bromofluorobenzene | | | | | CAS #: 460-00-4 | | |
| 23.068 | 23.068 (1.067) | 174 | 474645 | 10.0000 | 9.873 | 70.00- 130.00 | 100.00 |
| 23.068 | 23.068 (1.067) | 95 | 716730 | | | 118.93- 178.93 | 151.00 |
| 23.068 | 23.068 (1.067) | 176 | 455856 | | | 65.47- 125.47 | 96.04 |
| 4 Dichlorodifluoromethane/Fr12 | | | | | CAS #: 75-71-8 | | |
| 5.348 | 5.348 (0.347) | 85 | 7272 | 0.05000 | 0.05078 | 70.00- 130.00 | 100.00 |
| 5.324 | 5.324 (0.346) | 87 | 1502 | | | 2.34- 62.34 | 20.65 |
| 6 Freon 114 | | | | | CAS #: 76-14-2 | | |
| 6.818 | 6.818 (0.443) | 135 | 4915 | 0.05000 | 0.05423 | 70.00- 130.00 | 100.00 |
| 6.818 | 6.818 (0.443) | 137 | 1061 | | | 0.00- 30.00 | 21.59 |
| 6.818 | 6.818 (0.443) | 85 | 7581 | | | 0.00- 30.00 | 154.24 |
| 16 Trichlorofluoromethane/Fr11 | | | | | CAS #: 75-69-4 | | |
| 10.841 | 10.841 (0.704) | 101 | 5742 | 0.05000 | 0.05041 | 70.00- 130.00 | 100.00 |
| 10.841 | 10.841 (0.704) | 103 | 4273 | | | 35.43- 95.43 | 74.42 |
| 22 Freon 113 | | | | | CAS #: 76-13-1 | | |
| 12.126 | 12.126 (0.787) | 151 | 3635 | 0.05000 | 0.04717 | 70.00- 130.00 | 100.00(a) |
| 12.126 | 12.126 (0.787) | 153 | 2871 | | | 33.27- 93.27 | 78.98 |
| 12.126 | 12.126 (0.787) | 101 | 5783 | | | 0.00- 30.00 | 159.09 |
| 56 1,1,1-Trichloroethane | | | | | CAS #: 71-55-6 | | |
| 15.714 | 15.714 (1.020) | 97 | 6848 | 0.05000 | 0.05172 | 70.00- 130.00 | 100.00 |
| 15.714 | 15.714 (1.020) | 99 | 3723 | | | 0.00- 30.00 | 54.37 |
| 57 Carbon Tetrachloride | | | | | CAS #: 56-23-5 | | |
| 15.930 | 15.930 (1.034) | 119 | 3035 | 0.05000 | 0.03057 | 70.00- 130.00 | 100.00(a) |
| 15.930 | 15.930 (1.034) | 117 | 3153 | | | 0.00- 30.00 | 103.89 |
| 67 Trichloroethene | | | | | CAS #: 79-01-6 | | |
| 17.237 | 17.237 (1.024) | 130 | 3678 | 0.05000 | 0.04273 | 70.00- 130.00 | 100.00(a) |
| 17.237 | 17.237 (1.024) | 95 | 4552 | | | 0.00- 30.00 | 123.76 |
| 17.237 | 17.237 (1.024) | 97 | 3677 | | | 0.00- 30.00 | 99.97 |
| 76 Bromodichloromethane | | | | | CAS #: 75-27-4 | | |
| 18.143 | 18.143 (1.078) | 83 | 5870 | 0.05000 | 0.04255 | 70.00- 130.00 | 100.00(a) |
| 18.170 | 18.170 (1.080) | 85 | 4211 | | | 0.00- 30.00 | 71.74 |
| 83 1,1,2-Trichloroethane | | | | | CAS #: 79-00-5 | | |
| 20.235 | 20.235 (0.936) | 97 | 4711 | 0.05000 | 0.05448 | 70.00- 130.00 | 100.00(H) |
| 20.235 | 20.235 (0.936) | 99 | 2212 | | | 0.00- 30.00 | 46.95 |

| RT | EXP RT (REL RT) | MASS | RESPONSE | AMOUNTS CAL-AMT ( PPBV) | AMOUNTS ON-COL ( PPBV) | TARGET RANGE | RATIO |
|---|---|---|---|---|---|---|---|
| 83 1,1,2-Trichloroethane (continued) | | | | | | | |
| 20.235 | 20.235 (0.936) | 83 | 4141 | | | 57.12- 117.12 | 87.90 |
| 84 Tetrachloroethene | | | | | CAS #: 127-18-4 | | |
| 20.365 | 20.365 (0.942) | 166 | 4822 | 0.05000 | 0.04837 | 70.00- 130.00 | 100.00(a) |
| 20.365 | 20.365 (0.942) | 129 | 4570 | | | 0.00- 30.00 | 94.77 |
| 20.365 | 20.365 (0.942) | 131 | 4139 | | | 0.00- 30.00 | 85.84 |
| 86 Dibromochloromethane | | | | | CAS #: 124-48-1 | | |
| 20.821 | 20.821 (0.963) | 129 | 5562 | 0.05000 | 0.04361 | 70.00- 130.00 | 100.00(aH) |
| 20.821 | 20.821 (0.963) | 127 | 6042 | | | 0.00- 30.00 | 108.63 |
| 87 1,2-Dibromoethane | | | | | CAS #: 106-93-4 | | |
| 21.048 | 21.048 (0.974) | 107 | 4747 | 0.05000 | 0.03852 | 70.00- 130.00 | 100.00(aH) |
| 21.048 | 21.048 (0.974) | 109 | 5389 | | | 0.00- 30.00 | 113.52 |
| 97 Bromoform | | | | | CAS #: 75-25-2 | | |
| 22.707 | 22.707 (1.051) | 173 | 5096 | 0.05000 | 0.04688 | 70.00- 130.00 | 100.00(a) |
| 22.707 | 22.707 (1.051) | 171 | 2085 | | | 0.00- 30.00 | 40.91 |
| 115 1,3-Dichlorobenzene | | | | | CAS #: 541-73-1 | | |
| 24.280 | 24.280 (1.123) | 146 | 9743 | 0.05000 | 0.07002 | 70.00- 130.00 | 100.00(H) |
| 24.280 | 24.280 (1.123) | 148 | 6056 | | | 0.00- 30.00 | 62.16 |
| 24.280 | 24.280 (1.123) | 111 | 3757 | | | 0.00- 30.00 | 38.56 |
| 118 alpha-chlorotoluene | | | | | CAS #: 100-44-7 | | |
| 24.512 | 24.512 (1.134) | 91 | 8047 | 0.05000 | 0.04185 | 70.00- 130.00 | 100.00(aH) |
| 24.512 | 24.512 (1.134) | 126 | 1928 | | | 0.00- 30.00 | 23.96 |

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
H - Operator selected an alternate compound hit.

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msda.i
Lab File ID: a081805.d
Lab Smp Id: ICAL
Analysis Type: VOA
Quant Type: ISTD
Operator: jc
Method File: /chem/msda.i/18Aug2011.b/a11l0818a.m
Misc Info: 0.05ppbv (0.05ppbv)

Calibration Date: 18-AUG-2011
Calibration Time: 17:09
Client Smp ID: Level 4
Level: LOW
Sample Type: AIR

| | | AREA LIMIT | | | |
|---|---|---|---|---|---|
| COMPOUND | STANDARD | LOWER | UPPER | SAMPLE | %DIFF |
| 52 Bromochloromethan | 220017 | 132010 | 308024 | 217948 | -0.94 |
| 66 1,4-Difluorobenze | 1019583 | 611750 | 1427416 | 1085399 | 6.46 |
| 88 Chlorobenzene-d5 | 873528 | 524117 | 1222939 | 923029 | 5.67 |

| | | RT LIMIT | | | |
|---|---|---|---|---|---|
| COMPOUND | STANDARD | LOWER | UPPER | SAMPLE | %DIFF |
| 52 Bromochloromethan | 15.41 | 15.08 | 15.74 | 15.41 | 0.00 |
| 66 1,4-Difluorobenze | 16.83 | 16.50 | 17.16 | 16.82 | 0.00 |
| 88 Chlorobenzene-d5 | 21.61 | 21.28 | 21.94 | 21.61 | 0.00 |

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Data File: /chem/msda.i/18Aug2011.b/a081805.d



Date : 18-AUG-2011 14:46

Client ID: Level 4

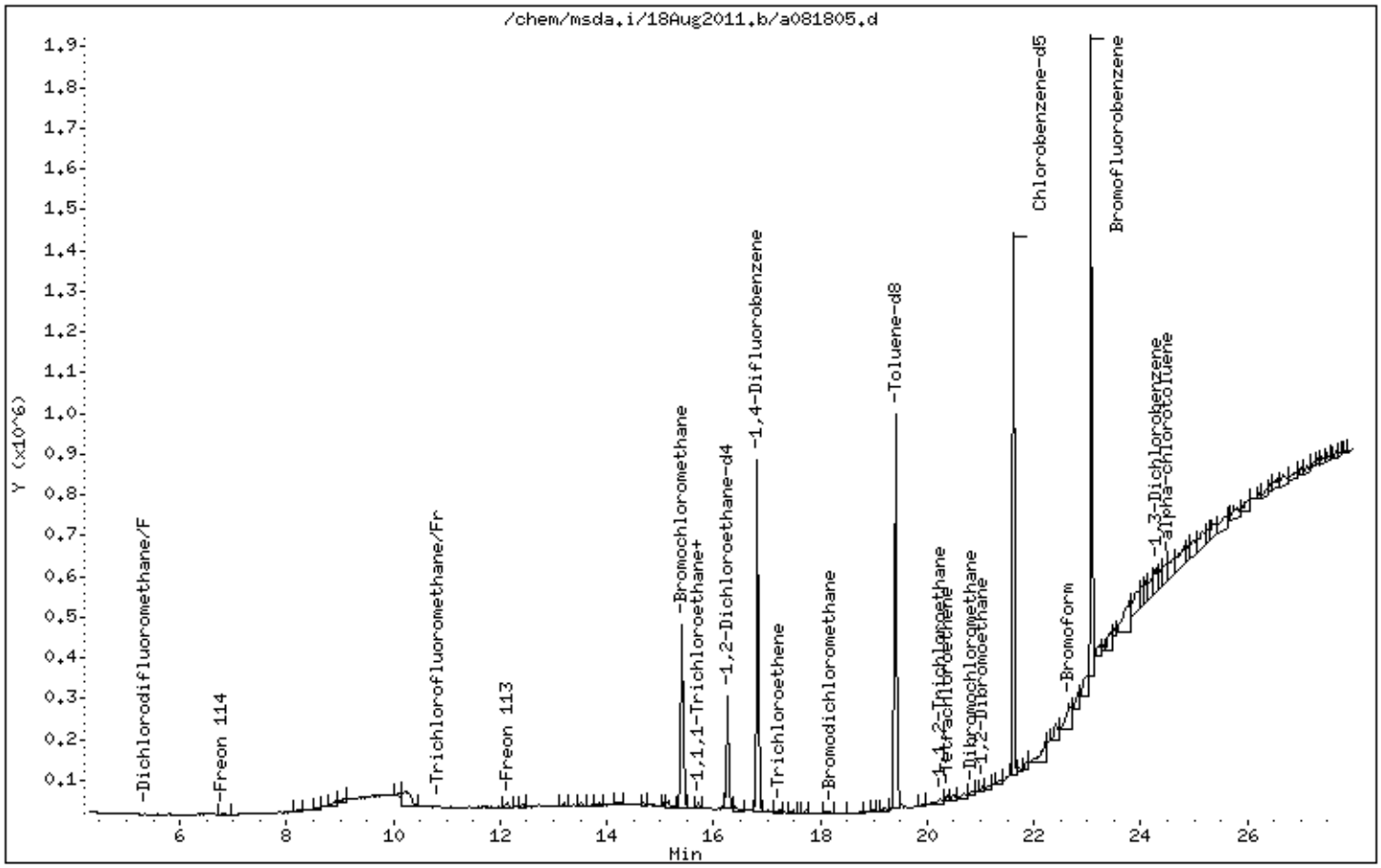
Instrument: msda.i

Sample Info: 250mL #2296-165

Operator: jc

Column phase: RTx-624

Column diameter: 0.32



Air Toxics Ltd.

AMBIENT AIR METHOD TO14/TO15

Data file : /chem/msda.i/18Aug2011.b/a081806.d
Lab Smp Id: ICAL Client Smp ID: Level 5
Inj Date : 18-AUG-2011 15:21
Operator : jc Inst ID: msda.i
Smp Info : 12.5mL #2296-166
Misc Info : 0.10ppbv (2.0ppbv)
Comment :
Method : /chem/msda.i/18Aug2011.b/a11l0818a.m
Meth Date : 29-Aug-2011 10:21 croush Quant Type: ISTD
Cal Date : 18-AUG-2011 15:21 Cal File: a081806.d
Als bottle: 15 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: Level#1.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

| | | | | AMOUNTS CAL-AMT ( PPBV) | AMOUNTS ON-COL ( PPBV) | TARGET RANGE | RATIO |
|---|---|---|---|---|---|---|---|
| * 52 Bromochloromethane | | | | | CAS #: 74-97-5 | | |
| 15.406 | 15.406 (1.000) | 130 | 230941 | 10.0000 | | 70.00- 130.00 | 100.00 |
| 15.406 | 15.406 (1.000) | 128 | 180649 | | | 0.00- 30.00 | 78.22 |
| 15.406 | 15.406 (1.000) | 49 | 366341 | | | 0.00- 30.00 | 158.63 |
| * 66 1,4-Difluorobenzene | | | | | CAS #: 540-36-3 | | |
| 16.825 | 16.825 (1.000) | 114 | 1087144 | 10.0000 | | 70.00- 130.00 | 100.00 |
| 16.825 | 16.825 (1.000) | 88 | 183480 | | | 0.00- 30.00 | 16.88 |
| * 88 Chlorobenzene-d5 | | | | | CAS #: 3114-55-4 | | |
| 21.614 | 21.614 (1.000) | 117 | 917162 | 10.0000 | | 70.00- 130.00 | 100.00 |
| 21.614 | 21.614 (1.000) | 82 | 543432 | | | 0.00- 30.00 | 59.25 |
| $ 61 1,2-Dichloroethane-d4 | | | | | CAS #: 17060-07-0 | | |
| 16.248 | 16.248 (1.055) | 65 | 415389 | 10.0000 | 9.996 | 70.00- 130.00 | 100.00 |
| 16.248 | 16.248 (1.055) | 67 | 213407 | | | 0.00- 30.00 | 51.38 |
| $ 80 Toluene-d8 | | | | | CAS #: 2037-26-5 | | |
| 19.411 | 19.411 (1.154) | 98 | 1043008 | 10.0000 | 9.869 | 70.00- 130.00 | 100.00 |
| 19.411 | 19.411 (1.154) | 70 | 125539 | | | 0.00- 30.00 | 12.04 |

| RT | EXP RT (REL RT) | MASS | RESPONSE | AMOUNTS CAL-AMT ( PPBV) | AMOUNTS ON-COL ( PPBV) | TARGET RANGE | RATIO |
|---|---|---|---|---|---|---|---|
| $ 80 Toluene-d8 (continued) | | | | | | | |
| 19.411 | 19.411 (1.154) | 100 | 710155 | | | 37.45- 97.45 | 68.09 |
| $ 100 Bromofluorobenzene | | | | | CAS #: 460-00-4 | | |
| 23.068 | 23.068 (1.067) | 174 | 474314 | 10.0000 | 9.929 | 70.00- 130.00 | 100.00 |
| 23.068 | 23.068 (1.067) | 95 | 705721 | | | 118.93- 178.93 | 148.79 |
| 23.068 | 23.068 (1.067) | 176 | 450750 | | | 65.47- 125.47 | 95.03 |
| 4 Dichlorodifluoromethane/Fr12 | | | | | CAS #: 75-71-8 | | |
| 5.324 | 5.324 (0.346) | 85 | 18168 | 0.10000 | 0.1197 | 70.00- 130.00 | 100.00 |
| 5.348 | 5.348 (0.347) | 87 | 5769 | | | 2.34- 62.34 | 31.75 |
| 6 Freon 114 | | | | | CAS #: 76-14-2 | | |
| 6.794 | 6.794 (0.441) | 135 | 11273 | 0.10000 | 0.1174 | 70.00- 130.00 | 100.00 |
| 6.818 | 6.818 (0.443) | 137 | 3501 | | | 0.00- 30.00 | 31.06 |
| 6.794 | 6.794 (0.441) | 85 | 19159 | | | 0.00- 30.00 | 169.95 |
| 7 Chloromethane | | | | | CAS #: 74-87-3 | | |
| 7.108 | 7.108 (0.461) | 50 | 7426 | 0.10000 | 0.1332 | 70.00- 130.00 | 100.00(H) |
| 7.132 | 7.132 (0.463) | 52 | 3413 | | | 0.00- 30.00 | 45.96 |
| 10 Vinyl Chloride | | | | | CAS #: 75-01-4 | | |
| 7.971 | 7.971 (0.517) | 62 | 7712 | 0.10000 | 0.1225 | 70.00- 130.00 | 100.00 |
| 7.989 | 7.989 (0.519) | 64 | 3867 | | | 1.55- 61.55 | 50.14 |
| 11 1,3-Butadiene | | | | | CAS #: 106-99-0 | | |
| 8.215 | 8.215 (0.533) | 54 | 6307 | 0.10000 | 0.1278 | 70.00- 130.00 | 100.00 |
| 8.215 | 8.215 (0.533) | 39 | 7495 | | | 0.00- 30.00 | 118.84 |
| 12 Bromomethane | | | | | CAS #: 74-83-9 | | |
| 9.659 | 9.659 (0.627) | 94 | 3785 | 0.10000 | 0.1292 | 70.00- 130.00 | 100.00(M) |
| 9.659 | 9.659 (0.627) | 96 | 2734 | | | 66.21- 126.21 | 72.23 |
| 16 Trichlorofluoromethane/Fr11 | | | | | CAS #: 75-69-4 | | |
| 10.840 | 10.840 (0.704) | 101 | 17240 | 0.10000 | 0.1428 | 70.00- 130.00 | 100.00 |
| 10.840 | 10.840 (0.704) | 103 | 11499 | | | 35.43- 95.43 | 66.70 |
| 22 Freon 113 | | | | | CAS #: 76-13-1 | | |
| 12.126 | 12.126 (0.787) | 151 | 11607 | 0.10000 | 0.1421 | 70.00- 130.00 | 100.00 |
| 12.126 | 12.126 (0.787) | 153 | 7317 | | | 33.27- 93.27 | 63.04 |
| 12.126 | 12.126 (0.787) | 101 | 15801 | | | 0.00- 30.00 | 136.13 |
| 23 1,1-Dichloroethene | | | | | CAS #: 75-35-4 | | |
| 12.146 | 12.146 (0.788) | 98 | 5153 | 0.10000 | 0.1536 | 70.00- 130.00 | 100.00 |
| 12.146 | 12.146 (0.788) | 61 | 11879 | | | 0.00- 30.00 | 230.53 |
| 12.146 | 12.146 (0.788) | 96 | 9409 | | | 0.00- 30.00 | 182.59 |

| RT | EXP RT (REL RT) | MASS | RESPONSE | AMOUNTS CAL-AMT ( PPBV) | ON-COL ( PPBV) | TARGET RANGE | RATIO |
|---|---|---|---|---|---|---|---|
| 33 Methylene Chloride | | | | | CAS #: 75-09-2 | | |
| 13.187 | 13.187 (0.856) | 84 | 8111 | 0.10000 | 0.1556 | 70.00- 130.00 | 100.00(a) |
| 13.187 | 13.187 (0.856) | 49 | 11324 | | | 0.00- 30.00 | 139.61 |
| 13.187 | 13.187 (0.856) | 51 | 3492 | | | 0.00- 30.00 | 43.05 |
| 35 MTBE | | | | | CAS #: 1634-04-4 | | |
| 13.517 | 13.517 (0.877) | 73 | 21053 | 0.10000 | 0.1218 | 70.00- 130.00 | 100.00 |
| 13.517 | 13.517 (0.877) | 57 | 5142 | | | 0.00- 30.00 | 24.42 |
| 13.517 | 13.517 (0.877) | 41 | 5569 | | | 0.00- 30.00 | 26.45 |
| 36 trans-1,2-Dichloroethene | | | | | CAS #: 156-60-5 | | |
| 13.544 | 13.544 (0.879) | 98 | 4844 | 0.10000 | 0.1263 | 70.00- 130.00 | 100.00 |
| 13.544 | 13.544 (0.879) | 61 | 12098 | | | 0.00- 30.00 | 249.75 |
| 13.544 | 13.544 (0.879) | 96 | 10989 | | | 0.00- 30.00 | 226.86 |
| 40 Hexane | | | | | CAS #: 110-54-3 | | |
| 13.846 | 13.846 (0.899) | 57 | 14788 | 0.10000 | 0.1280 | 70.00- 130.00 | 100.00 |
| 13.846 | 13.846 (0.899) | 43 | 8534 | | | 0.00- 30.00 | 57.71 |
| 13.846 | 13.846 (0.899) | 86 | 2017 | | | 0.00- 30.00 | 13.64 |
| 42 1,1-Dichloroethane | | | | | CAS #: 75-34-3 | | |
| 14.258 | 14.258 (0.926) | 63 | 11975 | 0.10000 | 0.1102 | 70.00- 130.00 | 100.00 |
| 14.231 | 14.231 (0.924) | 65 | 5093 | | | 0.00- 30.00 | 42.53 |
| 47 cis-1,2-Dichloroethene | | | | | CAS #: 156-59-2 | | |
| 15.065 | 15.065 (0.978) | 98 | 5477 | 0.10000 | 0.1282 | 70.00- 130.00 | 100.00 |
| 15.065 | 15.065 (0.978) | 61 | 11858 | | | 0.00- 30.00 | 216.51 |
| 15.065 | 15.065 (0.978) | 96 | 10561 | | | 128.26- 188.26 | 192.82 |
| 53 Chloroform | | | | | CAS #: 67-66-3 | | |
| 15.467 | 15.467 (1.004) | 83 | 16379 | 0.10000 | 0.1247 | 70.00- 130.00 | 100.00 |
| 15.467 | 15.467 (1.004) | 85 | 11135 | | | 0.00- 30.00 | 67.98 |
| 56 1,1,1-Trichloroethane | | | | | CAS #: 71-55-6 | | |
| 15.714 | 15.714 (1.020) | 97 | 17293 | 0.10000 | 0.1232 | 70.00- 130.00 | 100.00 |
| 15.714 | 15.714 (1.020) | 99 | 10865 | | | 0.00- 30.00 | 62.83 |
| 55 Cyclohexane | | | | | CAS #: 110-82-7 | | |
| 15.714 | 15.714 (1.020) | 84 | 12133 | 0.10000 | 0.1259 | 70.00- 130.00 | 100.00 |
| 15.714 | 15.714 (1.020) | 56 | 15434 | | | 0.00- 30.00 | 127.21 |
| 15.714 | 15.714 (1.020) | 41 | 11612 | | | 0.00- 30.00 | 95.71 |
| 57 Carbon Tetrachloride | | | | | CAS #: 56-23-5 | | |
| 15.930 | 15.930 (1.034) | 119 | 11834 | 0.10000 | 0.1125 | 70.00- 130.00 | 100.00 |
| 15.930 | 15.930 (1.034) | 117 | 15705 | | | 0.00- 30.00 | 132.71 |

| RT | EXP RT (REL RT) | MASS | RESPONSE | AMOUNTS CAL-AMT ( PPBV) | ON-COL ( PPBV) | TARGET RANGE | RATIO |
|---|---|---|---|---|---|---|---|
| 59 2,2,4-Trimethylpentane | | | | | CAS #: 540-84-1 | | |
| 16.193 | 16.193 (1.051) | 56 | 14796 | 0.10000 | 0.1001 | 70.00- 130.00 | 100.00 |
| 16.193 | 16.193 (1.051) | 57 | 54866 | | | 0.00- 30.00 | 370.82 |
| 16.193 | 16.193 (1.051) | 41 | 10138 | | | 0.00- 30.00 | 68.52 |
| 60 Benzene | | | | | CAS #: 71-43-2 | | |
| 16.276 | 16.276 (0.967) | 78 | 24908 | 0.10000 | 0.1234 | 70.00- 130.00 | 100.00 |
| 16.276 | 16.276 (0.967) | 77 | 5318 | | | 0.00- 30.00 | 21.35 |
| 63 1,2-Dichloroethane | | | | | CAS #: 107-06-2 | | |
| 16.386 | 16.386 (0.974) | 62 | 12097 | 0.10000 | 0.1268 | 70.00- 130.00 | 100.00 |
| 16.386 | 16.386 (0.974) | 64 | 4494 | | | 0.00- 30.00 | 37.15 |
| 64 Heptane | | | | | CAS #: 142-82-5 | | |
| 16.413 | 16.413 (0.976) | 57 | 8381 | 0.10000 | 0.1245 | 70.00- 130.00 | 100.00 |
| 16.413 | 16.413 (0.976) | 100 | 3228 | | | 0.00- 30.00 | 38.52 |
| 16.413 | 16.413 (0.976) | 43 | 15834 | | | 0.00- 30.00 | 188.93 |
| 67 Trichloroethene | | | | | CAS #: 79-01-6 | | |
| 17.237 | 17.237 (1.024) | 130 | 11105 | 0.10000 | 0.1288 | 70.00- 130.00 | 100.00 |
| 17.237 | 17.237 (1.024) | 95 | 12089 | | | 0.00- 30.00 | 108.86 |
| 17.237 | 17.237 (1.024) | 97 | 8372 | | | 0.00- 30.00 | 75.39 |
| 72 1,2-Dichloropropane | | | | | CAS #: 78-87-5 | | |
| 17.731 | 17.731 (1.054) | 63 | 10409 | 0.10000 | 0.1298 | 70.00- 130.00 | 100.00 |
| 17.731 | 17.731 (1.054) | 62 | 7393 | | | 0.00- 30.00 | 71.03 |
| 17.731 | 17.731 (1.054) | 41 | 6721 | | | 29.22- 89.22 | 64.57 |
| 74 1,4-Dioxane | | | | | CAS #: 123-91-1 | | |
| 17.868 | 17.868 (1.062) | 88 | 5703 | 0.10000 | 0.1192 | 70.00- 130.00 | 100.00 |
| 17.868 | 17.868 (1.062) | 58 | 4505 | | | 0.00- 30.00 | 78.99 |
| 17.868 | 17.868 (1.062) | 57 | 2355 | | | 0.00- 30.00 | 41.29 |
| 76 Bromodichloromethane | | | | | CAS #: 75-27-4 | | |
| 18.143 | 18.143 (1.078) | 83 | 16366 | 0.10000 | 0.1184 | 70.00- 130.00 | 100.00 |
| 18.170 | 18.170 (1.080) | 85 | 10507 | | | 0.00- 30.00 | 64.20 |
| 77 cis-1,3-Dichloropropene | | | | | CAS #: 10061-01-5 | | |
| 18.986 | 18.986 (1.128) | 75 | 12643 | 0.10000 | 0.1153 | 70.00- 130.00 | 100.00 |
| 19.008 | 19.008 (1.130) | 77 | 5593 | | | 0.00- 30.00 | 44.24 |
| 18.986 | 18.986 (1.128) | 39 | 7150 | | | 21.94- 81.94 | 56.55 |
| 78 4-Methyl-2-pentanone | | | | | CAS #: 108-10-1 | | |
| 19.187 | 19.187 (1.140) | 43 | 19602 | 0.10000 | 0.1182 | 70.00- 130.00 | 100.00 |
| 19.187 | 19.187 (1.140) | 58 | 7850 | | | 0.00- 30.00 | 40.05 |
| 19.187 | 19.187 (1.140) | 85 | 3380 | | | 0.00- 30.00 | 17.24 |

| RT | EXP RT (REL RT) | MASS | RESPONSE | AMOUNTS CAL-AMT ( PPBV) | ON-COL ( PPBV) | TARGET RANGE | RATIO |
|---|---|---|---|---|---|---|---|
| 81 Toluene | | | | | CAS #: 108-88-3 | | |
| 19.523 | 19.523 (1.160) | 91 | 28149 | 0.10000 | 0.1219 | 70.00- 130.00 | 100.00 |
| 19.523 | 19.523 (1.160) | 92 | 16994 | | | 0.00- 30.00 | 60.37 |
| 82 trans-1,3-Dichloropropene | | | | | CAS #: 10061-02-6 | | |
| 19.943 | 19.943 (0.923) | 75 | 12098 | 0.10000 | 0.1120 | 70.00- 130.00 | 100.00 |
| 19.943 | 19.943 (0.923) | 77 | 3852 | | | 0.00- 30.00 | 31.84 |
| 19.910 | 19.910 (0.921) | 39 | 6038 | | | 20.28- 80.28 | 49.91 |
| 83 1,1,2-Trichloroethane | | | | | CAS #: 79-00-5 | | |
| 20.235 | 20.235 (0.936) | 97 | 11341 | 0.10000 | 0.1320 | 70.00- 130.00 | 100.00 |
| 20.235 | 20.235 (0.936) | 99 | 6027 | | | 0.00- 30.00 | 53.14 |
| 20.235 | 20.235 (0.936) | 83 | 9353 | | | 57.12- 117.12 | 82.47 |
| 84 Tetrachloroethene | | | | | CAS #: 127-18-4 | | |
| 20.365 | 20.365 (0.942) | 166 | 12385 | 0.10000 | 0.1250 | 70.00- 130.00 | 100.00 |
| 20.365 | 20.365 (0.942) | 129 | 9745 | | | 0.00- 30.00 | 78.68 |
| 20.365 | 20.365 (0.942) | 131 | 10641 | | | 0.00- 30.00 | 85.92 |
| 86 Dibromochloromethane | | | | | CAS #: 124-48-1 | | |
| 20.820 | 20.820 (0.963) | 129 | 13879 | 0.10000 | 0.1095 | 70.00- 130.00 | 100.00 |
| 20.820 | 20.820 (0.963) | 127 | 12208 | | | 0.00- 30.00 | 87.96 |
| 87 1,2-Dibromoethane | | | | | CAS #: 106-93-4 | | |
| 21.048 | 21.048 (0.974) | 107 | 16536 | 0.10000 | 0.1350 | 70.00- 130.00 | 100.00 |
| 21.048 | 21.048 (0.974) | 109 | 16601 | | | 0.00- 30.00 | 100.39 |
| 89 Chlorobenzene | | | | | CAS #: 108-90-7 | | |
| 21.662 | 21.662 (1.002) | 112 | 21675 | 0.10000 | 0.1243 | 70.00- 130.00 | 100.00 |
| 21.662 | 21.662 (1.002) | 114 | 7241 | | | 0.00- 30.00 | 33.41 |
| 21.662 | 21.662 (1.002) | 77 | 22484 | | | 32.21- 92.21 | 103.73 |
| 91 Ethyl Benzene | | | | | CAS #: 100-41-4 | | |
| 21.710 | 21.710 (1.004) | 106 | 11947 | 0.10000 | 0.1336 | 70.00- 130.00 | 100.00 |
| 21.710 | 21.710 (1.004) | 91 | 34267 | | | 0.00- 30.00 | 286.83 |
| 93 m,p-Xylene | | | | | CAS #: 108-38-3 | | |
| 21.879 | 21.879 (1.012) | 106 | 12475 | 0.10000 | 0.1275 | 70.00- 130.00 | 100.00 |
| 21.879 | 21.879 (1.012) | 91 | 25086 | | | 0.00- 30.00 | 201.09 |
| 94 o-Xylene | | | | | CAS #: 95-47-6 | | |
| 22.385 | 22.385 (1.036) | 106 | 11531 | 0.10000 | 0.1225 | 70.00- 130.00 | 100.00 |
| 22.409 | 22.409 (1.037) | 91 | 25932 | | | 0.00- 30.00 | 224.89 |
| 95 Styrene | | | | | CAS #: 100-42-5 | | |
| 22.433 | 22.433 (1.038) | 104 | 18586 | 0.10000 | 0.1215 | 70.00- 130.00 | 100.00 |

| RT | EXP RT (REL RT) | MASS | RESPONSE | AMOUNTS CAL-AMT ( PPBV) | ON-COL ( PPBV) | TARGET RANGE | RATIO |
|---|---|---|---|---|---|---|---|
| 95 Styrene (continued) | | | | | | | |
| 22.409 | 22.409 (1.037) | 78 | 9598 | | | 0.00- 30.00 | 51.64 |
| 97 Bromoform | | | | | CAS #: 75-25-2 | | |
| 22.707 | 22.707 (1.051) | 173 | 11334 | 0.10000 | 0.1049 | 70.00- 130.00 | 100.00 |
| 22.707 | 22.707 (1.051) | 171 | 5902 | | | 0.00- 30.00 | 52.07 |
| 98 Cumene | | | | | CAS #: 98-82-8 | | |
| 22.810 | 22.810 (1.055) | 105 | 35504 | 0.10000 | 0.1257 | 70.00- 130.00 | 100.00 |
| 22.810 | 22.810 (1.055) | 120 | 9830 | | | 0.00- 30.00 | 27.69 |
| 103 1,1,2,2-Tetrachloroethane | | | | | CAS #: 79-34-5 | | |
| 23.223 | 23.223 (1.074) | 83 | 19029 | 0.10000 | 0.1167 | 70.00- 130.00 | 100.00 |
| 23.223 | 23.223 (1.074) | 85 | 12749 | | | 0.00- 30.00 | 67.00 |
| 104 Propylbenzene | | | | | CAS #: 103-65-1 | | |
| 23.300 | 23.300 (1.078) | 91 | 39880 | 0.10000 | 0.1364 | 70.00- 130.00 | 100.00 |
| 23.300 | 23.300 (1.078) | 120 | 9277 | | | 0.00- 30.00 | 23.26 |
| 107 4-Ethyltoluene | | | | | CAS #: 622-96-8 | | |
| 23.403 | 23.403 (1.083) | 105 | 36822 | 0.10000 | 0.1380 | 70.00- 130.00 | 100.00 |
| 23.403 | 23.403 (1.083) | 120 | 11052 | | | 0.00- 30.00 | 30.01 |
| 109 1,3,5-Trimethylbenzene | | | | | CAS #: 108-67-8 | | |
| 23.481 | 23.481 (1.086) | 105 | 27884 | 0.10000 | 0.1323 | 70.00- 130.00 | 100.00 |
| 23.481 | 23.481 (1.086) | 120 | 14797 | | | 0.00- 30.00 | 53.07 |
| 112 1,2,4-Trimethylbenzene | | | | | CAS #: 95-63-6 | | |
| 23.893 | 23.893 (1.105) | 105 | 28428 | 0.10000 | 0.1445 | 70.00- 130.00 | 100.00 |
| 23.893 | 23.893 (1.105) | 120 | 11973 | | | 0.00- 30.00 | 42.12 |
| 115 1,3-Dichlorobenzene | | | | | CAS #: 541-73-1 | | |
| 24.280 | 24.280 (1.123) | 146 | 19161 | 0.10000 | 0.1386 | 70.00- 130.00 | 100.00 |
| 24.280 | 24.280 (1.123) | 148 | 10767 | | | 0.00- 30.00 | 56.19 |
| 24.280 | 24.280 (1.123) | 111 | 8187 | | | 0.00- 30.00 | 42.73 |
| 117 1,4-Dichlorobenzene | | | | | CAS #: 106-46-7 | | |
| 24.383 | 24.383 (1.128) | 146 | 20249 | 0.10000 | 0.1631 | 70.00- 130.00 | 100.00 |
| 24.383 | 24.383 (1.128) | 148 | 10577 | | | 0.00- 30.00 | 52.23 |
| 24.383 | 24.383 (1.128) | 111 | 6865 | | | 0.00- 30.00 | 33.90 |
| 118 alpha-chlorotoluene | | | | | CAS #: 100-44-7 | | |
| 24.512 | 24.512 (1.134) | 91 | 21821 | 0.10000 | 0.1142 | 70.00- 130.00 | 100.00 |
| 24.512 | 24.512 (1.134) | 126 | 4838 | | | 0.00- 30.00 | 22.17 |
| 121 1,2-Dichlorobenzene | | | | | CAS #: 95-50-1 | | |
| 24.796 | 24.796 (1.147) | 146 | 20032 | 0.10000 | 0.1647 | 70.00- 130.00 | 100.00 |

| RT | EXP RT (REL RT) | MASS | RESPONSE | AMOUNTS CAL-AMT ( PPBV) | AMOUNTS ON-COL ( PPBV) | TARGET RANGE | RATIO |
|---|---|---|---|---|---|---|---|
| 121 1,2-Dichlorobenzene (continued) | | | | | | | |
| 24.796 | 24.796 (1.147) | 148 | 9248 | | | 31.61- 91.61 | 46.17 |
| 24.796 | 24.796 (1.147) | 111 | 6929 | | | 15.03- 75.03 | 34.59 |

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msda.i
Lab File ID: a081806.d
Lab Smp Id: ICAL
Analysis Type: VOA
Quant Type: ISTD
Operator: jc
Method File: /chem/msda.i/18Aug2011.b/a11l0818a.m
Misc Info: 0.10ppbv (2.0ppbv)

Calibration Date: 18-AUG-2011
Calibration Time: 17:09
Client Smp ID: Level 5
Level: LOW
Sample Type: AIR

| | | AREA LIMIT | | | |
|---|---|---|---|---|---|
| COMPOUND | STANDARD | LOWER | UPPER | SAMPLE | %DIFF |
| 52 Bromochloromethan | 220017 | 132010 | 308024 | 230941 | 4.97 |
| 66 1,4-Difluorobenze | 1019583 | 611750 | 1427416 | 1087144 | 6.63 |
| 88 Chlorobenzene-d5 | 873528 | 524117 | 1222939 | 917162 | 5.00 |

| | | RT LIMIT | | | |
|---|---|---|---|---|---|
| COMPOUND | STANDARD | LOWER | UPPER | SAMPLE | %DIFF |
| 52 Bromochloromethan | 15.41 | 15.08 | 15.74 | 15.41 | 0.00 |
| 66 1,4-Difluorobenze | 16.83 | 16.50 | 17.16 | 16.82 | 0.00 |
| 88 Chlorobenzene-d5 | 21.61 | 21.28 | 21.94 | 21.61 | 0.00 |

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Data File: /chem/msda.i/18Aug2011.b/a081806.d



Date : 18-AUG-2011 15:21

Client ID: Level 5

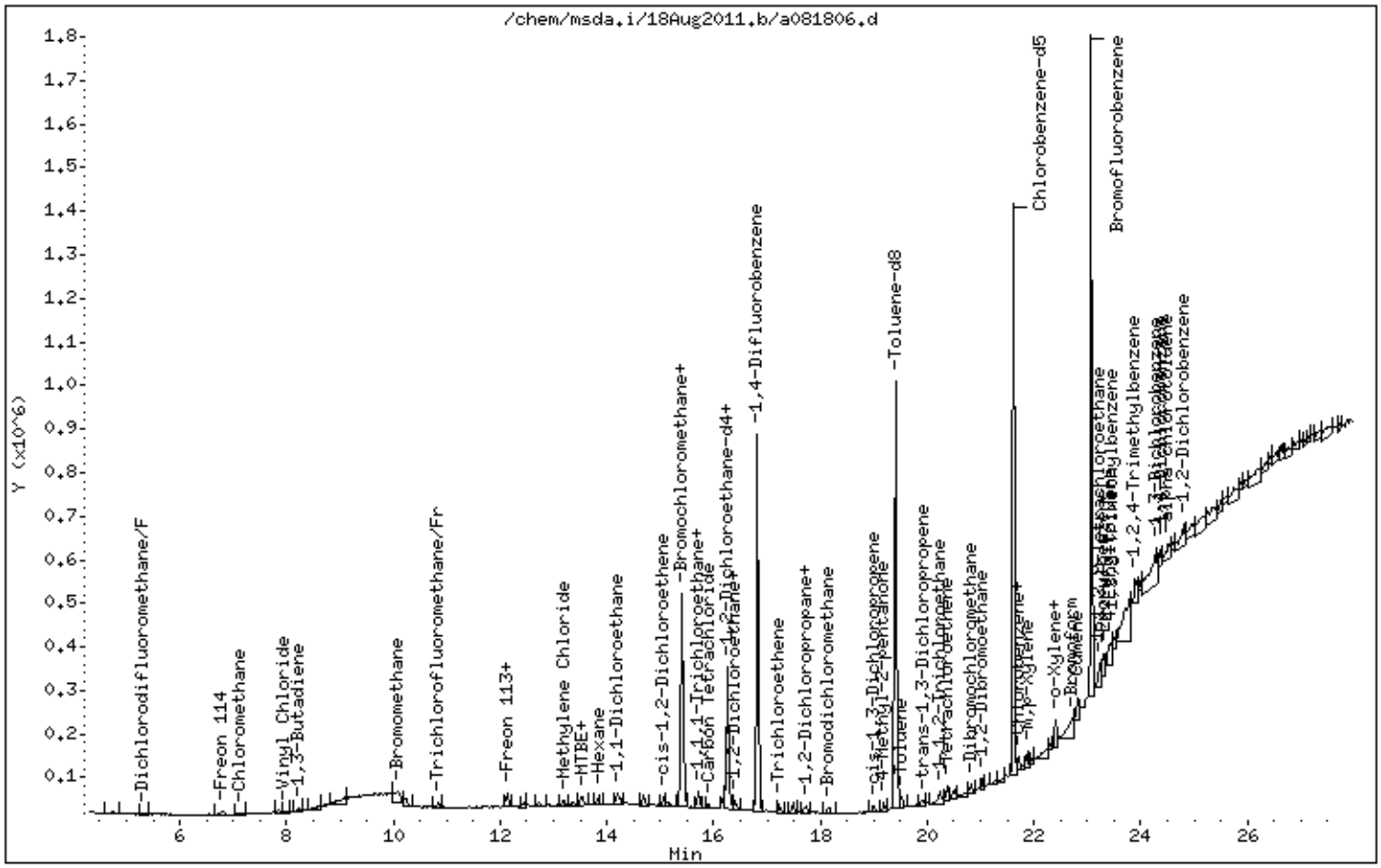
Instrument: msda.i

Sample Info: 12.5mL #2296-166

Operator: jc

Column phase: RTx-624

Column diameter: 0.32



Air Toxics Ltd.

AMBIENT AIR METHOD TO14/TO15

Data file : /chem/msda.i/31Aug2011.b/a083105.d
Lab Smp Id: ICAL level 6 Client Smp ID: ICAL level 6
Inj Date : 31-AUG-2011 10:49
Operator : dfm Inst ID: msda.i
Smp Info : 62.5mL #2296-177
Misc Info : 0.5ppbv (2.0ppbv)
Comment :
Method : /chem/msda.i/31Aug2011.b/a11l0818b.m
Meth Date : 01-Sep-2011 08:55 croush Quant Type: ISTD
Cal Date : 31-AUG-2011 10:49 Cal File: a083105.d
Als bottle: 17 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: spAT3.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

| | | | | AMOUNTS | | | |
|---|---|---|---|---|---|---|---|
| | | | | CAL-AMT | ON-COL | | |
| RT | EXP RT (REL RT) | MASS | RESPONSE | ( PPBV) | ( PPBV) | TARGET RANGE | RATIO |
| * 52 Bromochloromethane | | | | | CAS #: 74-97-5 | | |
| 15.406 | 15.406 (1.000) | 130 | 198847 | 10.0000 | | 70.00- 130.00 | 100.00 |
| 15.406 | 15.406 (1.000) | 128 | 155621 | | | 0.00- 30.00 | 78.26 |
| 15.406 | 15.406 (1.000) | 49 | 340704 | | | 0.00- 30.00 | 171.34 |
| * 66 1,4-Difluorobenzene | | | | | CAS #: 540-36-3 | | |
| 16.825 | 16.825 (1.000) | 114 | 923034 | 10.0000 | | 70.00- 130.00 | 100.00 |
| 16.825 | 16.825 (1.000) | 88 | 157558 | | | 0.00- 30.00 | 17.07 |
| * 88 Chlorobenzene-d5 | | | | | CAS #: 3114-55-4 | | |
| 21.614 | 21.614 (1.000) | 117 | 798517 | 10.0000 | | 70.00- 130.00 | 100.00 |
| 21.614 | 21.614 (1.000) | 82 | 476215 | | | 0.00- 30.00 | 59.64 |
| 54 2,3-Dimethylpentane | | | | | CAS #: 565-59-3 | | |
| 15.683 | 15.683 (1.018) | 71 | 14230 | 0.50000 | 0.4878 | 70.00- 130.00 | 100.00 |
| 15.683 | 15.683 (1.018) | 56 | 46738 | | | 0.00- 30.00 | 328.45 |
| 15.683 | 15.683 (1.018) | 43 | 36002 | | | 0.00- 30.00 | 253.00 |
| 30 2-Methylpentane | | | | | CAS #: 107-83-5 | | |
| 12.995 | 12.995 (0.844) | 71 | 16409 | 0.50000 | 0.4914 | 70.00- 130.00 | 100.00 |

| RT | EXP RT (REL RT) | MASS | RESPONSE | AMOUNTS CAL-AMT ( PPBV) | ON-COL ( PPBV) | TARGET RANGE | RATIO |
|---|---|---|---|---|---|---|---|
| 30 2-Methylpentane (continued) | | | | | | | |
| 12.995 | 12.995 (0.844) | 43 | 52205 | | | 0.00- 30.00 | 318.15 |
| 12.995 | 12.995 (0.844) | 42 | 26755 | | | 0.00- 30.00 | 163.05 |
| 122 Indene | | | | | CAS #: 95-13-6 | | |
| 24.873 | 24.873 (1.151) | 115 | 10483 | 0.50000 | 0.4392 | 70.00- 130.00 | 100.00(T) |
| 24.873 | 24.873 (1.151) | 116 | 12002 | | | 0.00- 30.00 | 114.49 |
| 0.000 | 1.000 (0.000) | 0 | 0 | | | 0.00- 30.00 | 0.00 |
| 119 Indan | | | | | CAS #: 496-11-7 | | |
| 24.615 | 24.615 (1.139) | 117 | 32471 | 0.50000 | 0.4981 | 70.00- 130.00 | 100.00 |
| 24.615 | 24.615 (1.139) | 118 | 19591 | | | 0.00- 30.00 | 60.33 |
| 24.615 | 24.615 (1.139) | 91 | 6340 | | | 0.00- 30.00 | 19.53 |
| 65 Thiophene | | | | | CAS #: 110-02-1 | | |
| 16.605 | 16.605 (0.987) | 84 | 51265 | 0.50000 | 0.4977 | 70.00- 130.00 | 100.00(T) |
| 16.605 | 16.605 (0.987) | 58 | 32671 | | | 0.00- 30.00 | 63.73 |
| 0.000 | 1.000 (0.000) | 0 | 0 | | | 0.00- 30.00 | 0.00 |

## QC Flag Legend

T - Target compound detected outside RT window.

Report Date: 01-Sep-2011 08:55

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msda.i
Lab File ID: a083105.d
Lab Smp Id: ICAL level 6
Analysis Type: VOA
Quant Type: ISTD
Operator: dfm
Method File: /chem/msda.i/31Aug2011.b/a11l0818b.m
Misc Info: 0.5ppbv (2.0ppbv)

Calibration Date: 31-AUG-2011
Calibration Time: 08:01
Client Smp ID: ICAL level 6
Level: LOW
Sample Type: AIR

| | | AREA LIMIT | | | |
|---|---|---|---|---|---|
| COMPOUND | STANDARD | LOWER | UPPER | SAMPLE | %DIFF |
| 52 Bromochloromethan | 206450 | 123870 | 289030 | 198847 | -3.68 |
| 66 1,4-Difluorobenze | 897592 | 538555 | 1256629 | 923034 | 2.83 |
| 88 Chlorobenzene-d5 | 792197 | 475318 | 1109076 | 798517 | 0.80 |

| | | RT LIMIT | | | |
|---|---|---|---|---|---|
| COMPOUND | STANDARD | LOWER | UPPER | SAMPLE | %DIFF |
| 52 Bromochloromethan | 15.41 | 15.08 | 15.74 | 15.41 | 0.00 |
| 66 1,4-Difluorobenze | 16.82 | 16.50 | 17.15 | 16.82 | 0.00 |
| 88 Chlorobenzene-d5 | 21.61 | 21.28 | 21.94 | 21.61 | 0.00 |

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Data File: /chem/msda.i/31Aug2011.b/a083105.d

Date : 31-AUG-2011 10:49

Client ID: ICAL level 6

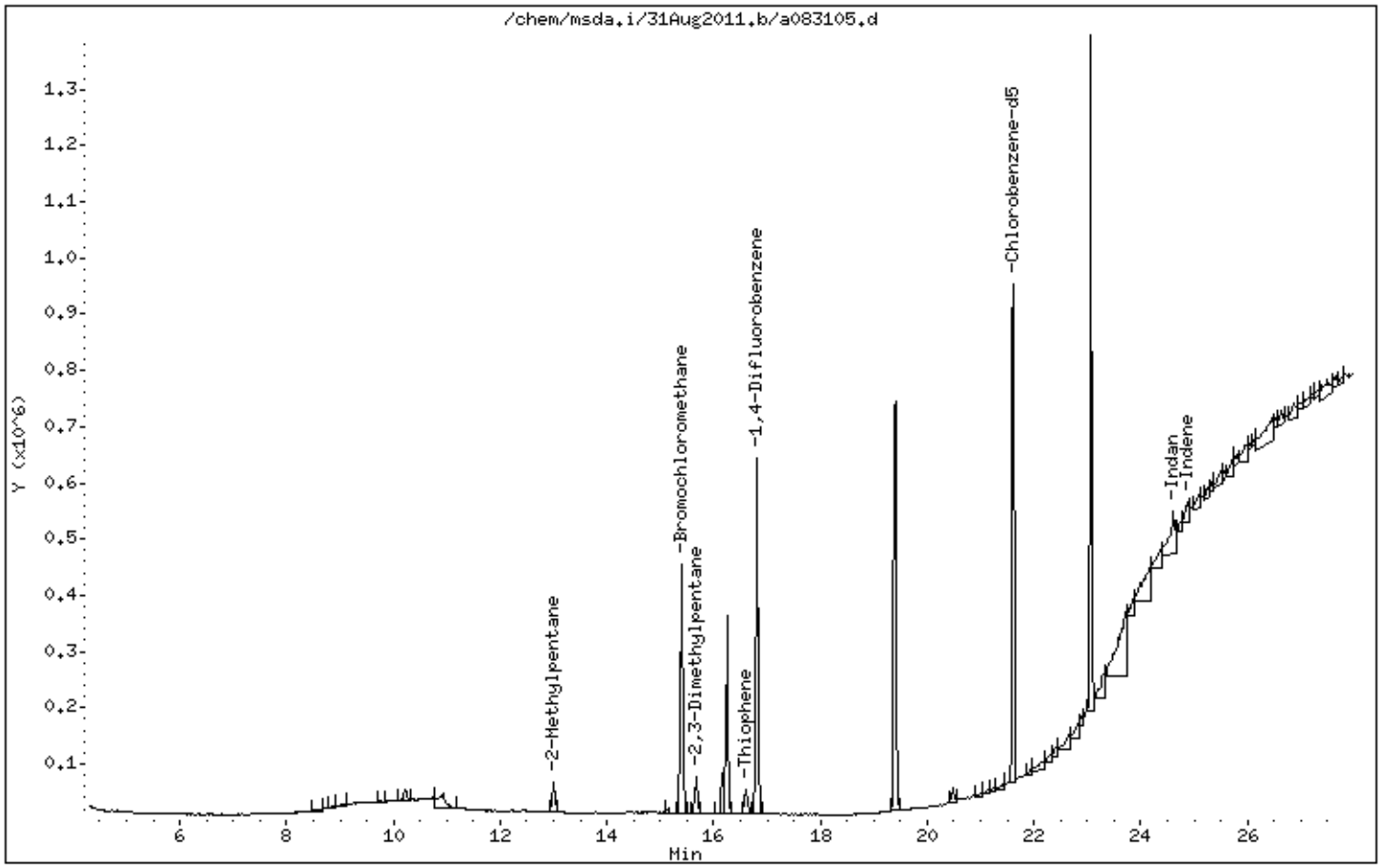
Instrument: msda.i

Sample Info: 62.5mL #2296-177

Operator: dfm

Column phase: RTx-624

Column diameter: 0.32



Air Toxics Ltd.

AMBIENT AIR METHOD TO14/TO15

Data file : /chem/msda.i/19Aug2011.b/a081905.d
Lab Smp Id: ICAL Client Smp ID: Level #6
Inj Date : 19-AUG-2011 13:27
Operator : cr Inst ID: msda.i
Smp Info : 50mL #2296-42A
Misc Info : 0.5ppbv (2.5ppbv) AT-4
Comment :
Method : /chem/msda.i/19Aug2011.b/a11l0818a.m
Meth Date : 29-Aug-2011 10:27 croush Quant Type: ISTD
Cal Date : 19-AUG-2011 13:27 Cal File: a081905.d
Als bottle: 5 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AT4.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

| | | | | AMOUNTS | | | |
|---|---|---|---|---|---|---|---|
| | | | | CAL-AMT | ON-COL | | |
| RT | EXP RT (REL RT) | MASS | RESPONSE | ( PPBV) | ( PPBV) | TARGET RANGE | RATIO |
| * 52 Bromochloromethane | | | | | | CAS #: 74-97-5 | |
| 15.406 | 15.406 (1.000) | 130 | 214645 | 10.0000 | | 70.00- 130.00 | 100.00 |
| 15.406 | 15.406 (1.000) | 128 | 167505 | | | 0.00- 30.00 | 78.04 |
| 15.406 | 15.406 (1.000) | 49 | 346474 | | | 0.00- 30.00 | 161.42 |
| * 66 1,4-Difluorobenzene | | | | | | CAS #: 540-36-3 | |
| 16.825 | 16.825 (1.000) | 114 | 1047068 | 10.0000 | | 70.00- 130.00 | 100.00 |
| 16.825 | 16.825 (1.000) | 88 | 178040 | | | 0.00- 30.00 | 17.00 |
| * 88 Chlorobenzene-d5 | | | | | | CAS #: 3114-55-4 | |
| 21.614 | 21.614 (1.000) | 117 | 880582 | 10.0000 | | 70.00- 130.00 | 100.00 |
| 21.614 | 21.614 (1.000) | 82 | 525471 | | | 0.00- 30.00 | 59.67 |
| 15 Vinyl Bromide | | | | | | CAS #: 593-60-2 | |
| 10.675 | 10.675 (0.693) | 106 | 19482 | 0.50000 | 0.5000 | 0.00- 30.00 | 100.00 |
| 10.675 | 10.675 (0.693) | 108 | 20661 | | | 0.00- 30.00 | 106.05 |
| 31 Acetonitrile | | | | | | CAS #: 75-05-8 | |
| 13.050 | 13.050 (0.847) | 41 | 30100 | 0.50000 | 0.5000 | 0.00- 30.00 | 100.00 |
| 13.050 | 13.050 (0.847) | 40 | 17522 | | | 0.00- 30.00 | 58.21 |

| RT | EXP RT (REL RT) | MASS | RESPONSE | AMOUNTS CAL-AMT ( PPBV) | ON-COL ( PPBV) | TARGET RANGE | RATIO |
|---|---|---|---|---|---|---|---|
| 31 Acetonitrile (continued) | | | | | | | |
| 13.050 | 13.050 (0.847) | 39 | 6045 | | | 0.00- 30.00 | 20.08 |
| 37 Acrylonitrile | | | | | CAS #: 107-13-1 | | |
| 13.682 | 13.682 (0.888) | 53 | 27442 | 0.50000 | 0.5000 | 0.00- 30.00 | 100.00 |
| 13.682 | 13.682 (0.888) | 52 | 21006 | | | 0.00- 30.00 | 76.55 |
| 43 Chloroprene | | | | | CAS #: 126-99-8 | | |
| 14.313 | 14.313 (0.929) | 53 | 39769 | 0.50000 | 0.5000 | 0.00- 30.00 | 100.00 |
| 14.313 | 14.313 (0.929) | 88 | 21411 | | | 0.00- 30.00 | 53.84 |

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msda.i
Lab File ID: a081905.d
Lab Smp Id: ICAL
Analysis Type: VOA
Quant Type: ISTD
Operator: cr
Method File: /chem/msda.i/19Aug2011.b/a11l0818a.m
Misc Info: 0.5ppbv (2.5ppbv) AT-4

Calibration Date: 19-AUG-2011
Calibration Time: 13:27
Client Smp ID: Level #6
Level: LOW
Sample Type: AIR

| | | AREA LIMIT | | | |
|---|---|---|---|---|---|
| COMPOUND | STANDARD | LOWER | UPPER | SAMPLE | %DIFF |
| 52 Bromochloromethan | 214645 | 128787 | 300503 | 214645 | 0.00 |
| 66 1,4-Difluorobenze | 1047068 | 628241 | 1465895 | 1047068 | 0.00 |
| 88 Chlorobenzene-d5 | 880582 | 528349 | 1232815 | 880582 | 0.00 |

| | | RT LIMIT | | | |
|---|---|---|---|---|---|
| COMPOUND | STANDARD | LOWER | UPPER | SAMPLE | %DIFF |
| 52 Bromochloromethan | 15.41 | 15.08 | 15.74 | 15.41 | 0.00 |
| 66 1,4-Difluorobenze | 16.83 | 16.50 | 17.16 | 16.83 | 0.00 |
| 88 Chlorobenzene-d5 | 21.61 | 21.28 | 21.94 | 21.61 | 0.00 |

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Data File: /chem/msda.i/19Aug2011.b/a081905.d

Date : 19-AUG-2011 13:27

Client ID: Level #6

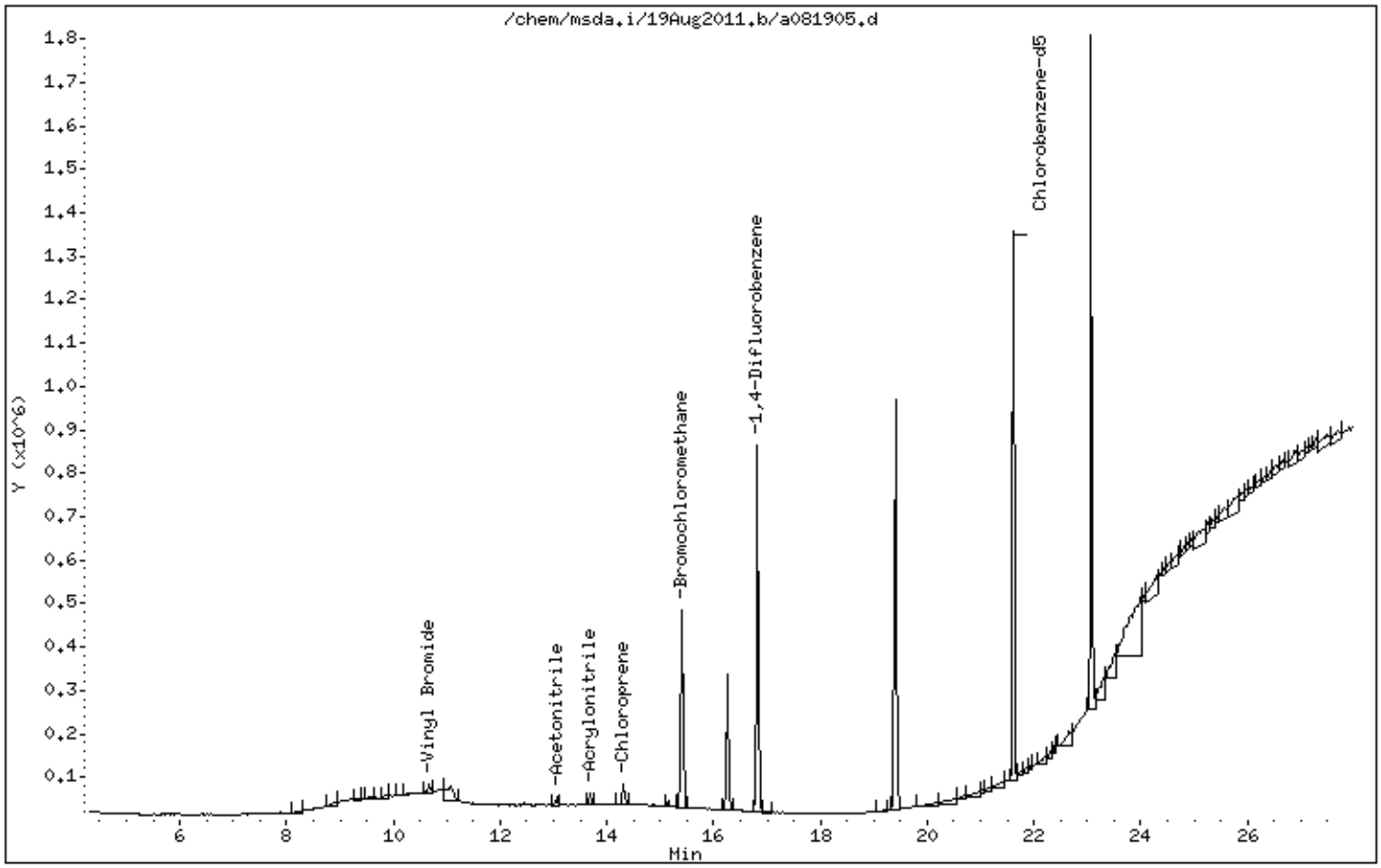
Instrument: msda.i

Sample Info: 50mL #2296-42A

Operator: cr

Column phase: RTx-624

Column diameter: 0.32



Air Toxics Ltd.

AMBIENT AIR METHOD TO14/TO15

Data file : /chem/msda.i/18Aug2011.b/a081807.d
Lab Smp Id: ICAL Client Smp ID: Level 6
Inj Date : 18-AUG-2011 15:56
Operator : jc Inst ID: msda.i
Smp Info : 62.5mL #2296-166
Misc Info : 0.50ppbv (2.0ppbv)
Comment :
Method : /chem/msda.i/18Aug2011.b/a11l0818a.m
Meth Date : 29-Aug-2011 10:21 croush Quant Type: ISTD
Cal Date : 18-AUG-2011 15:56 Cal File: a081807.d
Als bottle: 16 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: HILOcrvFULL.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

| | | | | AMOUNTS | | | |
|---|---|---|---|---|---|---|---|
| | | | | CAL-AMT | ON-COL | | |
| RT | EXP RT (REL RT) | MASS | RESPONSE | ( PPBV) | ( PPBV) | TARGET RANGE | RATIO |
| == | ====== ======== | ==== | ======== | ======= | ======= | ========== | ===== |
| * 52 Bromochloromethane | | | | | | CAS #: 74-97-5 | |
| 15.406 | 15.406 (1.000) | 130 | 219542 | 10.0000 | | 70.00- 130.00 | 100.00 |
| 15.406 | 15.406 (1.000) | 128 | 174988 | | | 0.00- 30.00 | 79.71 |
| 15.406 | 15.406 (1.000) | 49 | 356598 | | | 0.00- 30.00 | 162.43 |
| * 66 1,4-Difluorobenzene | | | | | | CAS #: 540-36-3 | |
| 16.825 | 16.825 (1.000) | 114 | 1087768 | 10.0000 | | 70.00- 130.00 | 100.00 |
| 16.825 | 16.825 (1.000) | 88 | 181131 | | | 0.00- 30.00 | 16.65 |
| * 88 Chlorobenzene-d5 | | | | | | CAS #: 3114-55-4 | |
| 21.614 | 21.614 (1.000) | 117 | 911868 | 10.0000 | | 70.00- 130.00 | 100.00 |
| 21.614 | 21.614 (1.000) | 82 | 541588 | | | 0.00- 30.00 | 59.39 |
| $ 61 1,2-Dichloroethane-d4 | | | | | | CAS #: 17060-07-0 | |
| 16.276 | 16.276 (1.056) | 65 | 405015 | 10.0000 | 10.252 | 70.00- 130.00 | 100.00 |
| 16.276 | 16.276 (1.056) | 67 | 204148 | | | 0.00- 30.00 | 50.41 |
| $ 80 Toluene-d8 | | | | | | CAS #: 2037-26-5 | |
| 19.412 | 19.412 (1.154) | 98 | 1036211 | 10.0000 | 9.799 | 70.00- 130.00 | 100.00 |
| 19.412 | 19.412 (1.154) | 70 | 123899 | | | 0.00- 30.00 | 11.96 |

| RT | EXP RT (REL RT) | MASS | RESPONSE | AMOUNTS CAL-AMT ( PPBV) | AMOUNTS ON-COL ( PPBV) | TARGET RANGE | RATIO |
|---|---|---|---|---|---|---|---|
| $ 80 Toluene-d8 (continued) | | | | | | | |
| 19.412 | 19.412 (1.154) | 100 | 691715 | | | 37.45- 97.45 | 66.75 |
| $ 100 Bromofluorobenzene | | | | | CAS #: 460-00-4 | | |
| 23.068 | 23.068 (1.067) | 174 | 476699 | 10.0000 | 10.037 | 70.00- 130.00 | 100.00 |
| 23.068 | 23.068 (1.067) | 95 | 693481 | | | 118.93- 178.93 | 145.48 |
| 23.068 | 23.068 (1.067) | 176 | 451685 | | | 65.47- 125.47 | 94.75 |
| 2 Propylene | | | | | CAS #: 115-07-1 | | |
| 4.794 | 4.794 (0.311) | 41 | 31363 | 0.50000 | 0.6669 | 70.00- 130.00 | 100.00(H) |
| 4.770 | 4.770 (0.310) | 42 | 18961 | | | 0.00- 30.00 | 60.46 |
| 4.770 | 4.770 (0.310) | 39 | 21551 | | | 0.00- 30.00 | 68.71 |
| 4 Dichlorodifluoromethane/Fr12 | | | | | CAS #: 75-71-8 | | |
| 5.348 | 5.348 (0.347) | 85 | 72948 | 0.50000 | 0.5058 | 70.00- 130.00 | 100.00 |
| 5.348 | 5.348 (0.347) | 87 | 23355 | | | 2.34- 62.34 | 32.02 |
| 6 Freon 114 | | | | | CAS #: 76-14-2 | | |
| 6.794 | 6.794 (0.441) | 135 | 45214 | 0.50000 | 0.4953 | 70.00- 130.00 | 100.00(a) |
| 6.794 | 6.794 (0.441) | 137 | 15372 | | | 0.00- 30.00 | 34.00 |
| 6.794 | 6.794 (0.441) | 85 | 76576 | | | 0.00- 30.00 | 169.36 |
| 7 Chloromethane | | | | | CAS #: 74-87-3 | | |
| 7.132 | 7.132 (0.463) | 50 | 28213 | 0.50000 | 0.5322 | 70.00- 130.00 | 100.00(H) |
| 7.132 | 7.132 (0.463) | 52 | 9734 | | | 0.00- 30.00 | 34.50 |
| 9 Butane | | | | | CAS #: 106-97-8 | | |
| 7.850 | 7.850 (0.510) | 58 | 7815 | 0.50000 | 0.5889 | 70.00- 130.00 | 100.00 |
| 7.850 | 7.850 (0.510) | 43 | 45883 | | | 0.00- 30.00 | 587.11 |
| 10 Vinyl Chloride | | | | | CAS #: 75-01-4 | | |
| 7.989 | 7.989 (0.519) | 62 | 31830 | 0.50000 | 0.5320 | 70.00- 130.00 | 100.00 |
| 7.989 | 7.989 (0.519) | 64 | 10378 | | | 1.55- 61.55 | 32.60 |
| 11 1,3-Butadiene | | | | | CAS #: 106-99-0 | | |
| 8.215 | 8.215 (0.533) | 54 | 25148 | 0.50000 | 0.5362 | 70.00- 130.00 | 100.00(H) |
| 8.215 | 8.215 (0.533) | 39 | 23010 | | | 0.00- 30.00 | 91.50 |
| 12 Bromomethane | | | | | CAS #: 74-83-9 | | |
| 9.659 | 9.659 (0.627) | 94 | 15468 | 0.50000 | 0.5554 | 70.00- 130.00 | 100.00 |
| 9.659 | 9.659 (0.627) | 96 | 10992 | | | 66.21- 126.21 | 71.06 |
| 13 Chloroethane | | | | | CAS #: 75-00-3 | | |
| 10.115 | 10.115 (0.657) | 64 | 10156 | 0.50000 | 0.4809 | 70.00- 130.00 | 100.00(a) |
| 10.115 | 10.115 (0.657) | 66 | 4790 | | | 0.00- 30.00 | 47.16 |

| RT | EXP RT (REL RT) | MASS | RESPONSE | AMOUNTS CAL-AMT ( PPBV) | ON-COL ( PPBV) | TARGET RANGE | RATIO |
|---|---|---|---|---|---|---|---|
| 14 Isopentane | | | | | CAS #: 78-78-4 | | |
| 10.240 | 10.240 (0.665) | 57 | 24674 | 0.50000 | 0.5646 | 70.00- 130.00 | 100.00 |
| 10.219 | 10.219 (0.663) | 43 | 38232 | | | 0.00- 30.00 | 154.95 |
| 10.219 | 10.219 (0.663) | 42 | 30926 | | | 0.00- 30.00 | 125.34 |
| 16 Trichlorofluoromethane/Fr11 | | | | | CAS #: 75-69-4 | | |
| 10.841 | 10.841 (0.704) | 101 | 72946 | 0.50000 | 0.6358 | 70.00- 130.00 | 100.00 |
| 10.841 | 10.841 (0.704) | 103 | 44548 | | | 35.43- 95.43 | 61.07 |
| 22 Freon 113 | | | | | CAS #: 76-13-1 | | |
| 12.126 | 12.126 (0.787) | 151 | 46559 | 0.50000 | 0.5998 | 70.00- 130.00 | 100.00 |
| 12.126 | 12.126 (0.787) | 153 | 29730 | | | 33.27- 93.27 | 63.85 |
| 12.126 | 12.126 (0.787) | 101 | 66591 | | | 0.00- 30.00 | 143.02 |
| 23 1,1-Dichloroethene | | | | | CAS #: 75-35-4 | | |
| 12.147 | 12.147 (0.788) | 98 | 18633 | 0.50000 | 0.5842 | 70.00- 130.00 | 100.00 |
| 12.147 | 12.147 (0.788) | 61 | 50343 | | | 0.00- 30.00 | 270.18 |
| 12.147 | 12.147 (0.788) | 96 | 29075 | | | 0.00- 30.00 | 156.04 |
| 24 Acetone | | | | | CAS #: 67-64-1 | | |
| 12.437 | 12.437 (0.807) | 58 | 16002 | 0.50000 | 0.5604 | 70.00- 130.00 | 100.00 |
| 12.437 | 12.437 (0.807) | 43 | 49544 | | | 0.00- 30.00 | 309.61 |
| 26 Carbon Disulfide | | | | | CAS #: 75-15-0 | | |
| 12.499 | 12.499 (0.811) | 76 | 62072 | 0.50000 | 0.5298 | 70.00- 130.00 | 100.00 |
| 28 3-Chloroprene | | | | | CAS #: 107-05-1 | | |
| 12.913 | 12.913 (0.838) | 76 | 3361 | 0.50000 | 0.2843 | 70.00- 130.00 | 100.00(a) |
| 12.913 | 12.913 (0.838) | 41 | 13996 | | | 0.00- 30.00 | 416.42 |
| 27 2-Propanol | | | | | CAS #: 67-63-0 | | |
| 12.727 | 12.727 (0.826) | 45 | 68363 | 0.50000 | 0.5185 | 70.00- 130.00 | 100.00 |
| 12.727 | 12.727 (0.826) | 43 | 15648 | | | 0.00- 30.00 | 22.89 |
| 12.727 | 12.727 (0.826) | 59 | 5536 | | | 0.00- 30.00 | 8.10 |
| 33 Methylene Chloride | | | | | CAS #: 75-09-2 | | |
| 13.188 | 13.188 (0.856) | 84 | 25575 | 0.50000 | 0.5160 | 70.00- 130.00 | 100.00 |
| 13.188 | 13.188 (0.856) | 49 | 35900 | | | 0.00- 30.00 | 140.37 |
| 13.188 | 13.188 (0.856) | 51 | 12159 | | | 0.00- 30.00 | 47.54 |
| 34 tert-butyl alcohol | | | | | CAS #: 75-65-0 | | |
| 13.380 | 13.380 (0.868) | 59 | 58323 | 0.50000 | 0.6660 | 70.00- 130.00 | 100.00 |
| 13.380 | 13.380 (0.868) | 41 | 15937 | | | 0.00- 30.00 | 27.33 |
| 13.380 | 13.380 (0.868) | 57 | 6227 | | | 0.00- 30.00 | 10.68 |
| 35 MTBE | | | | | CAS #: 1634-04-4 | | |
| 13.517 | 13.517 (0.877) | 73 | 83340 | 0.50000 | 0.5071 | 70.00- 130.00 | 100.00 |

| RT | EXP RT (REL RT) | MASS | RESPONSE | AMOUNTS CAL-AMT ( PPBV) | ON-COL ( PPBV) | TARGET RANGE | RATIO |
|---|---|---|---|---|---|---|---|
| 35 MTBE (continued) | | | | | | | |
| 13.517 | 13.517 (0.877) | 57 | 20317 | | | 0.00- 30.00 | 24.38 |
| 13.517 | 13.517 (0.877) | 41 | 21283 | | | 0.00- 30.00 | 25.54 |
| 36 trans-1,2-Dichloroethene | | | | | CAS #: 156-60-5 | | |
| 13.544 | 13.544 (0.879) | 98 | 19549 | 0.50000 | 0.5360 | 70.00- 130.00 | 100.00 |
| 13.544 | 13.544 (0.879) | 61 | 47100 | | | 0.00- 30.00 | 240.93 |
| 13.544 | 13.544 (0.879) | 96 | 32235 | | | 0.00- 30.00 | 164.89 |
| 40 Hexane | | | | | CAS #: 110-54-3 | | |
| 13.846 | 13.846 (0.899) | 57 | 57307 | 0.50000 | 0.5216 | 70.00- 130.00 | 100.00 |
| 13.846 | 13.846 (0.899) | 43 | 36750 | | | 0.00- 30.00 | 64.13 |
| 13.846 | 13.846 (0.899) | 86 | 9339 | | | 0.00- 30.00 | 16.30 |
| 41 Isopropyl ether | | | | | CAS #: 108-20-3 | | |
| 14.203 | 14.203 (0.922) | 45 | 119785 | 0.50000 | 0.5328 | 70.00- 130.00 | 100.00 |
| 14.203 | 14.203 (0.922) | 87 | 30774 | | | 0.00- 30.00 | 25.69 |
| 14.203 | 14.203 (0.922) | 59 | 13993 | | | 0.00- 30.00 | 11.68 |
| 42 1,1-Dichloroethane | | | | | CAS #: 75-34-3 | | |
| 14.258 | 14.258 (0.926) | 63 | 52748 | 0.50000 | 0.5109 | 70.00- 130.00 | 100.00 |
| 14.258 | 14.258 (0.926) | 65 | 18092 | | | 0.00- 30.00 | 34.30 |
| 44 Vinyl Acetate | | | | | CAS #: 108-05-4 | | |
| 14.258 | 14.258 (0.926) | 86 | 3760 | 0.50000 | 0.3182 | 70.00- 130.00 | 100.00(a) |
| 14.258 | 14.258 (0.926) | 42 | 4385 | | | 0.00- 30.00 | 116.62 |
| 14.258 | 14.258 (0.926) | 43 | 45009 | | | 0.00- 30.00 | 1197.05 |
| 46 Ethyl-tert-butyl ether | | | | | CAS #: 637-92-3 | | |
| 14.692 | 14.692 (0.954) | 59 | 115921 | 0.50000 | 0.5395 | 70.00- 130.00 | 100.00 |
| 14.692 | 14.692 (0.954) | 87 | 44609 | | | 0.00- 30.00 | 38.48 |
| 14.692 | 14.692 (0.954) | 41 | 21699 | | | 0.00- 30.00 | 18.72 |
| 48 2-Butanone | | | | | CAS #: 78-93-3 | | |
| 15.086 | 15.086 (0.979) | 72 | 17624 | 0.50000 | 0.5385 | 70.00- 130.00 | 100.00 |
| 15.065 | 15.065 (0.978) | 43 | 69122 | | | 0.00- 30.00 | 392.20 |
| 15.065 | 15.065 (0.978) | 57 | 6783 | | | 0.00- 30.00 | 38.49 |
| 47 cis-1,2-Dichloroethene | | | | | CAS #: 156-59-2 | | |
| 15.065 | 15.065 (0.978) | 98 | 21528 | 0.50000 | 0.5300 | 70.00- 130.00 | 100.00 |
| 15.065 | 15.065 (0.978) | 61 | 47184 | | | 0.00- 30.00 | 219.18 |
| 15.065 | 15.065 (0.978) | 96 | 35270 | | | 128.26- 188.26 | 163.83 |
| 51 Tetrahydrofuran | | | | | CAS #: 109-99-9 | | |
| 15.437 | 15.437 (1.002) | 42 | 38236 | 0.50000 | 0.5290 | 70.00- 130.00 | 100.00 |
| 15.437 | 15.437 (1.002) | 71 | 14887 | | | 0.00- 30.00 | 38.93 |

| RT | EXP RT (REL RT) | MASS | RESPONSE | AMOUNTS CAL-AMT ( PPBV) | ON-COL ( PPBV) | TARGET RANGE | RATIO |
|---|---|---|---|---|---|---|---|
| 51 Tetrahydrofuran (continued) | | | | | | | |
| 15.437 | 15.437 (1.002) | 72 | 16187 | | | 0.00- 30.00 | 42.33 |
| 53 Chloroform | | | | | CAS #: 67-66-3 | | |
| 15.467 | 15.467 (1.004) | 83 | 68137 | 0.50000 | 0.5458 | 70.00- 130.00 | 100.00 |
| 15.467 | 15.467 (1.004) | 85 | 42276 | | | 0.00- 30.00 | 62.05 |
| 56 1,1,1-Trichloroethane | | | | | CAS #: 71-55-6 | | |
| 15.714 | 15.714 (1.020) | 97 | 69683 | 0.50000 | 0.5224 | 70.00- 130.00 | 100.00 |
| 15.714 | 15.714 (1.020) | 99 | 42968 | | | 0.00- 30.00 | 61.66 |
| 55 Cyclohexane | | | | | CAS #: 110-82-7 | | |
| 15.714 | 15.714 (1.020) | 84 | 48170 | 0.50000 | 0.5257 | 70.00- 130.00 | 100.00 |
| 15.714 | 15.714 (1.020) | 56 | 62719 | | | 0.00- 30.00 | 130.20 |
| 15.714 | 15.714 (1.020) | 41 | 35961 | | | 0.00- 30.00 | 74.65 |
| 57 Carbon Tetrachloride | | | | | CAS #: 56-23-5 | | |
| 15.930 | 15.930 (1.034) | 119 | 53247 | 0.50000 | 0.5325 | 70.00- 130.00 | 100.00 |
| 15.930 | 15.930 (1.034) | 117 | 54814 | | | 0.00- 30.00 | 102.94 |
| 59 2,2,4-Trimethylpentane | | | | | CAS #: 540-84-1 | | |
| 16.194 | 16.194 (1.051) | 56 | 75868 | 0.50000 | 0.5398 | 70.00- 130.00 | 100.00 |
| 16.194 | 16.194 (1.051) | 57 | 228041 | | | 0.00- 30.00 | 300.58 |
| 16.194 | 16.194 (1.051) | 41 | 44690 | | | 0.00- 30.00 | 58.90 |
| 60 Benzene | | | | | CAS #: 71-43-2 | | |
| 16.276 | 16.276 (0.967) | 78 | 103114 | 0.50000 | 0.5104 | 70.00- 130.00 | 100.00 |
| 16.276 | 16.276 (0.967) | 77 | 23085 | | | 0.00- 30.00 | 22.39 |
| 62 tert-amyl methyl ether | | | | | CAS #: 994-05-8 | | |
| 16.303 | 16.303 (0.969) | 87 | 23613 | 0.50000 | 0.5092 | 70.00- 130.00 | 100.00 |
| 16.303 | 16.303 (0.969) | 73 | 102835 | | | 0.00- 30.00 | 435.50 |
| 16.303 | 16.303 (0.969) | 55 | 28408 | | | 0.00- 30.00 | 120.31 |
| 63 1,2-Dichloroethane | | | | | CAS #: 107-06-2 | | |
| 16.386 | 16.386 (0.974) | 62 | 48854 | 0.50000 | 0.5117 | 70.00- 130.00 | 100.00 |
| 16.386 | 16.386 (0.974) | 64 | 15662 | | | 0.00- 30.00 | 32.06 |
| 64 Heptane | | | | | CAS #: 142-82-5 | | |
| 16.413 | 16.413 (0.976) | 57 | 31912 | 0.50000 | 0.4739 | 70.00- 130.00 | 100.00(a) |
| 16.413 | 16.413 (0.976) | 100 | 14496 | | | 0.00- 30.00 | 45.42 |
| 16.413 | 16.413 (0.976) | 43 | 61778 | | | 0.00- 30.00 | 193.59 |
| 67 Trichloroethene | | | | | CAS #: 79-01-6 | | |
| 17.237 | 17.237 (1.024) | 130 | 44946 | 0.50000 | 0.5210 | 70.00- 130.00 | 100.00 |
| 17.237 | 17.237 (1.024) | 95 | 48372 | | | 0.00- 30.00 | 107.62 |

| RT | EXP RT (REL RT) | MASS | RESPONSE | AMOUNTS CAL-AMT ( PPBV) | ON-COL ( PPBV) | TARGET RANGE | RATIO |
|---|---|---|---|---|---|---|---|
| 67 Trichloroethene (continued) | | | | | | | |
| 17.237 | 17.237 (1.024) | 97 | 31785 | | | 0.00- 30.00 | 70.72 |
| 69 Methylcyclohexane | | | | | CAS #: 108-87-2 | | |
| 17.484 | 17.484 (1.039) | 83 | 62970 | 0.50000 | 0.5259 | 70.00- 130.00 | 100.00 |
| 17.484 | 17.484 (1.039) | 98 | 29221 | | | 0.00- 30.00 | 46.40 |
| 17.484 | 17.484 (1.039) | 55 | 55045 | | | 0.00- 30.00 | 87.41 |
| 72 1,2-Dichloropropane | | | | | CAS #: 78-87-5 | | |
| 17.731 | 17.731 (1.054) | 63 | 42344 | 0.50000 | 0.5276 | 70.00- 130.00 | 100.00 |
| 17.731 | 17.731 (1.054) | 62 | 28697 | | | 0.00- 30.00 | 67.77 |
| 17.731 | 17.731 (1.054) | 41 | 24453 | | | 29.22- 89.22 | 57.75 |
| 74 1,4-Dioxane | | | | | CAS #: 123-91-1 | | |
| 17.869 | 17.869 (1.062) | 88 | 23488 | 0.50000 | 0.4908 | 70.00- 130.00 | 100.00(a) |
| 17.869 | 17.869 (1.062) | 58 | 19015 | | | 0.00- 30.00 | 80.96 |
| 17.869 | 17.869 (1.062) | 57 | 6225 | | | 0.00- 30.00 | 26.50 |
| 76 Bromodichloromethane | | | | | CAS #: 75-27-4 | | |
| 18.143 | 18.143 (1.078) | 83 | 69262 | 0.50000 | 0.5010 | 70.00- 130.00 | 100.00 |
| 18.171 | 18.171 (1.080) | 85 | 43313 | | | 0.00- 30.00 | 62.54 |
| 77 cis-1,3-Dichloropropene | | | | | CAS #: 10061-01-5 | | |
| 18.986 | 18.986 (1.128) | 75 | 52867 | 0.50000 | 0.4820 | 70.00- 130.00 | 100.00(a) |
| 18.986 | 18.986 (1.128) | 77 | 17776 | | | 0.00- 30.00 | 33.62 |
| 18.986 | 18.986 (1.128) | 39 | 29349 | | | 21.94- 81.94 | 55.51 |
| 78 4-Methyl-2-pentanone | | | | | CAS #: 108-10-1 | | |
| 19.187 | 19.187 (1.140) | 43 | 79728 | 0.50000 | 0.4805 | 70.00- 130.00 | 100.00(a) |
| 19.187 | 19.187 (1.140) | 58 | 32717 | | | 0.00- 30.00 | 41.04 |
| 19.187 | 19.187 (1.140) | 85 | 12459 | | | 0.00- 30.00 | 15.63 |
| 81 Toluene | | | | | CAS #: 108-88-3 | | |
| 19.524 | 19.524 (1.160) | 91 | 115980 | 0.50000 | 0.5019 | 70.00- 130.00 | 100.00 |
| 19.524 | 19.524 (1.160) | 92 | 69772 | | | 0.00- 30.00 | 60.16 |
| 82 trans-1,3-Dichloropropene | | | | | CAS #: 10061-02-6 | | |
| 19.910 | 19.910 (0.921) | 75 | 55256 | 0.50000 | 0.5148 | 70.00- 130.00 | 100.00 |
| 19.910 | 19.910 (0.921) | 77 | 18087 | | | 0.00- 30.00 | 32.73 |
| 19.910 | 19.910 (0.921) | 39 | 27090 | | | 20.28- 80.28 | 49.03 |
| 83 1,1,2-Trichloroethane | | | | | CAS #: 79-00-5 | | |
| 20.235 | 20.235 (0.936) | 97 | 43380 | 0.50000 | 0.5078 | 70.00- 130.00 | 100.00 |
| 20.235 | 20.235 (0.936) | 99 | 25429 | | | 0.00- 30.00 | 58.62 |
| 20.235 | 20.235 (0.936) | 83 | 36727 | | | 57.12- 117.12 | 84.66 |

| RT | EXP RT (REL RT) | MASS | RESPONSE | AMOUNTS CAL-AMT ( PPBV) | ON-COL ( PPBV) | TARGET RANGE | RATIO |
|---|---|---|---|---|---|---|---|
| 84 Tetrachloroethene | | | | | CAS #: 127-18-4 | | |
| 20.365 | 20.365 (0.942) | 166 | 50635 | 0.50000 | 0.5142 | 70.00- 130.00 | 100.00 |
| 20.365 | 20.365 (0.942) | 129 | 42324 | | | 0.00- 30.00 | 83.59 |
| 20.365 | 20.365 (0.942) | 131 | 38799 | | | 0.00- 30.00 | 76.62 |
| 85 2-Hexanone | | | | | CAS #: 591-78-6 | | |
| 20.495 | 20.495 (0.948) | 58 | 44796 | 0.50000 | 0.5232 | 70.00- 130.00 | 100.00 |
| 20.495 | 20.495 (0.948) | 43 | 77109 | | | 0.00- 30.00 | 172.13 |
| 20.528 | 20.528 (0.950) | 100 | 8519 | | | 0.00- 30.00 | 19.02 |
| 86 Dibromochloromethane | | | | | CAS #: 124-48-1 | | |
| 20.821 | 20.821 (0.963) | 129 | 62109 | 0.50000 | 0.4929 | 70.00- 130.00 | 100.00(a) |
| 20.821 | 20.821 (0.963) | 127 | 48253 | | | 0.00- 30.00 | 77.69 |
| 87 1,2-Dibromoethane | | | | | CAS #: 106-93-4 | | |
| 21.048 | 21.048 (0.974) | 107 | 62991 | 0.50000 | 0.5174 | 70.00- 130.00 | 100.00 |
| 21.048 | 21.048 (0.974) | 109 | 59271 | | | 0.00- 30.00 | 94.09 |
| 89 Chlorobenzene | | | | | CAS #: 108-90-7 | | |
| 21.662 | 21.662 (1.002) | 112 | 89163 | 0.50000 | 0.5144 | 70.00- 130.00 | 100.00 |
| 21.662 | 21.662 (1.002) | 114 | 29078 | | | 0.00- 30.00 | 32.61 |
| 21.662 | 21.662 (1.002) | 77 | 61971 | | | 32.21- 92.21 | 69.50 |
| 91 Ethyl Benzene | | | | | CAS #: 100-41-4 | | |
| 21.711 | 21.711 (1.004) | 106 | 44070 | 0.50000 | 0.4956 | 70.00- 130.00 | 100.00(a) |
| 21.711 | 21.711 (1.004) | 91 | 144205 | | | 0.00- 30.00 | 327.22 |
| 93 m,p-Xylene | | | | | CAS #: 108-38-3 | | |
| 21.879 | 21.879 (1.012) | 106 | 49709 | 0.50000 | 0.5112 | 70.00- 130.00 | 100.00 |
| 21.879 | 21.879 (1.012) | 91 | 101930 | | | 0.00- 30.00 | 205.05 |
| 94 o-Xylene | | | | | CAS #: 95-47-6 | | |
| 22.409 | 22.409 (1.037) | 106 | 47860 | 0.50000 | 0.5115 | 70.00- 130.00 | 100.00 |
| 22.385 | 22.385 (1.036) | 91 | 101580 | | | 0.00- 30.00 | 212.24 |
| 95 Styrene | | | | | CAS #: 100-42-5 | | |
| 22.433 | 22.433 (1.038) | 104 | 76514 | 0.50000 | 0.5032 | 70.00- 130.00 | 100.00 |
| 22.409 | 22.409 (1.037) | 78 | 42404 | | | 0.00- 30.00 | 55.42 |
| 97 Bromoform | | | | | CAS #: 75-25-2 | | |
| 22.707 | 22.707 (1.051) | 173 | 49534 | 0.50000 | 0.4612 | 70.00- 130.00 | 100.00(a) |
| 22.707 | 22.707 (1.051) | 171 | 26213 | | | 0.00- 30.00 | 52.92 |
| 98 Cumene | | | | | CAS #: 98-82-8 | | |
| 22.810 | 22.810 (1.055) | 105 | 143745 | 0.50000 | 0.5118 | 70.00- 130.00 | 100.00 |
| 22.810 | 22.810 (1.055) | 120 | 37318 | | | 0.00- 30.00 | 25.96 |

| RT | EXP RT (REL RT) | MASS | RESPONSE | AMOUNTS CAL-AMT ( PPBV) | ON-COL ( PPBV) | TARGET RANGE | RATIO |
|---|---|---|---|---|---|---|---|
| 103 1,1,2,2-Tetrachloroethane | | | | | CAS #: 79-34-5 | | |
| 23.223 | 23.223 (1.074) | 83 | 82549 | 0.50000 | 0.5091 | 70.00- 130.00 | 100.00 |
| 23.223 | 23.223 (1.074) | 85 | 54197 | | | 0.00- 30.00 | 65.65 |
| 104 Propylbenzene | | | | | CAS #: 103-65-1 | | |
| 23.300 | 23.300 (1.078) | 91 | 151519 | 0.50000 | 0.5213 | 70.00- 130.00 | 100.00 |
| 23.300 | 23.300 (1.078) | 120 | 33248 | | | 0.00- 30.00 | 21.94 |
| 107 4-Ethyltoluene | | | | | CAS #: 622-96-8 | | |
| 23.403 | 23.403 (1.083) | 105 | 141667 | 0.50000 | 0.5341 | 70.00- 130.00 | 100.00 |
| 23.403 | 23.403 (1.083) | 120 | 43407 | | | 0.00- 30.00 | 30.64 |
| 109 1,3,5-Trimethylbenzene | | | | | CAS #: 108-67-8 | | |
| 23.481 | 23.481 (1.086) | 105 | 112000 | 0.50000 | 0.5345 | 70.00- 130.00 | 100.00 |
| 23.481 | 23.481 (1.086) | 120 | 54238 | | | 0.00- 30.00 | 48.43 |
| 112 1,2,4-Trimethylbenzene | | | | | CAS #: 95-63-6 | | |
| 23.893 | 23.893 (1.105) | 105 | 108723 | 0.50000 | 0.5559 | 70.00- 130.00 | 100.00 |
| 23.893 | 23.893 (1.105) | 120 | 49301 | | | 0.00- 30.00 | 45.35 |
| 115 1,3-Dichlorobenzene | | | | | CAS #: 541-73-1 | | |
| 24.280 | 24.280 (1.123) | 146 | 63811 | 0.50000 | 0.4642 | 70.00- 130.00 | 100.00(a) |
| 24.280 | 24.280 (1.123) | 148 | 39081 | | | 0.00- 30.00 | 61.24 |
| 24.280 | 24.280 (1.123) | 111 | 28286 | | | 0.00- 30.00 | 44.33 |
| 117 1,4-Dichlorobenzene | | | | | CAS #: 106-46-7 | | |
| 24.383 | 24.383 (1.128) | 146 | 61011 | 0.50000 | 0.4943 | 70.00- 130.00 | 100.00(a) |
| 24.383 | 24.383 (1.128) | 148 | 36929 | | | 0.00- 30.00 | 60.53 |
| 24.383 | 24.383 (1.128) | 111 | 24111 | | | 0.00- 30.00 | 39.52 |
| 118 alpha-chlorotoluene | | | | | CAS #: 100-44-7 | | |
| 24.512 | 24.512 (1.134) | 91 | 88512 | 0.50000 | 0.4660 | 70.00- 130.00 | 100.00(a) |
| 24.512 | 24.512 (1.134) | 126 | 18769 | | | 0.00- 30.00 | 21.21 |
| 121 1,2-Dichlorobenzene | | | | | CAS #: 95-50-1 | | |
| 24.796 | 24.796 (1.147) | 146 | 57195 | 0.50000 | 0.4729 | 70.00- 130.00 | 100.00(a) |
| 24.796 | 24.796 (1.147) | 148 | 35666 | | | 31.61- 91.61 | 62.36 |
| 24.796 | 24.796 (1.147) | 111 | 24927 | | | 15.03- 75.03 | 43.58 |
| 126 1,2,4-Trichlorobenzene | | | | | CAS #: 120-82-1 | | |
| 26.550 | 26.550 (1.228) | 180 | 36544 | 0.50000 | 0.5253 | 70.00- 130.00 | 100.00 |
| 26.550 | 26.550 (1.228) | 182 | 35840 | | | 0.00- 30.00 | 98.07 |
| 128 Hexachlorobutadiene | | | | | CAS #: 87-68-3 | | |
| 26.653 | 26.653 (1.233) | 225 | 24574 | 0.50000 | 0.4737 | 70.00- 130.00 | 100.00(a) |
| 26.653 | 26.653 (1.233) | 223 | 16821 | | | 0.00- 30.00 | 68.45 |

| RT | EXP RT (REL RT) | MASS | RESPONSE | AMOUNTS CAL-AMT ( PPBV) | AMOUNTS ON-COL ( PPBV) | TARGET RANGE | RATIO |
|---|---|---|---|---|---|---|---|
| 129 Naphthalene | | | | | CAS #: 91-20-3 | | |
| 26.911 | 26.911 (1.245) | 128 | 83140 | 0.50000 | 0.5726 | 70.00- 130.00 | 100.00 |
| 26.911 | 26.911 (1.245) | 127 | 19284 | | | 0.00- 30.00 | 23.19 |

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
H - Operator selected an alternate compound hit.

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msda.i
Lab File ID: a081807.d
Lab Smp Id: ICAL
Analysis Type: VOA
Quant Type: ISTD
Operator: jc
Method File: /chem/msda.i/18Aug2011.b/a11l0818a.m
Misc Info: 0.50ppbv (2.0ppbv)

Calibration Date: 18-AUG-2011
Calibration Time: 17:09
Client Smp ID: Level 6
Level: LOW
Sample Type: AIR

| | | AREA LIMIT | | | |
|---|---|---|---|---|---|
| COMPOUND | STANDARD | LOWER | UPPER | SAMPLE | %DIFF |
| 52 Bromochloromethan | 220017 | 132010 | 308024 | 219542 | -0.22 |
| 66 1,4-Difluorobenze | 1019583 | 611750 | 1427416 | 1087768 | 6.69 |
| 88 Chlorobenzene-d5 | 873528 | 524117 | 1222939 | 911868 | 4.39 |

| | | RT LIMIT | | | |
|---|---|---|---|---|---|
| COMPOUND | STANDARD | LOWER | UPPER | SAMPLE | %DIFF |
| 52 Bromochloromethan | 15.41 | 15.08 | 15.74 | 15.41 | 0.00 |
| 66 1,4-Difluorobenze | 16.83 | 16.50 | 17.16 | 16.83 | 0.00 |
| 88 Chlorobenzene-d5 | 21.61 | 21.28 | 21.94 | 21.61 | 0.00 |

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Data File: /chem/msda.i/18Aug2011.b/a081807.d

Date : 18-AUG-2011 15:56

Client ID: Level 6

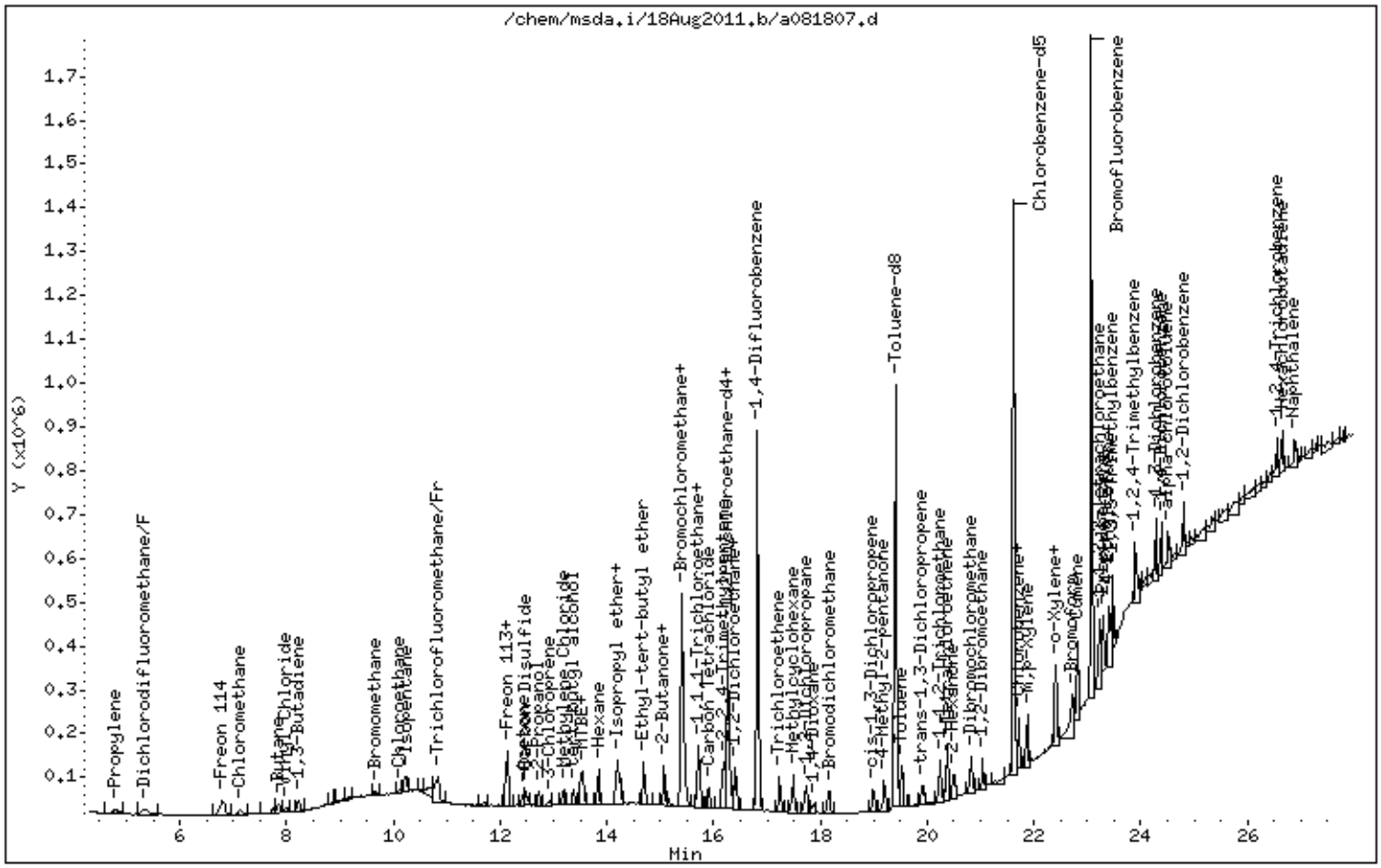
Instrument: msda.i

Sample Info: 62.5mL #2296-166

Operator: jc

Column phase: RTx-624

Column diameter: 0.32



Air Toxics Ltd.

AMBIENT AIR METHOD TO14/TO15

Data file : /chem/msda.i/31Aug2011.b/a083107.d
Lab Smp Id: ICAL level 7 level
Inj Date : 31-AUG-2011 12:17
Operator : dfm Inst ID: msda.i
Smp Info : 250mL #2296-177
Misc Info : 2.0ppbv (2.0ppbv)
Comment :
Method : /chem/msda.i/31Aug2011.b/a11l0818b.m
Meth Date : 01-Sep-2011 08:55 croush Quant Type: ISTD
Cal Date : 31-AUG-2011 12:17 Cal File: a083107.d
Als bottle: 17 Calibration Sample, Level: 7
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: spAT3.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

| | | | | AMOUNTS | | | |
|---|---|---|---|---|---|---|---|
| | | | | CAL-AMT | ON-COL | | |
| RT | EXP RT (REL RT) | MASS | RESPONSE | ( PPBV) | ( PPBV) | TARGET RANGE | RATIO |
| * 52 Bromochloromethane | | | | | | CAS #: 74-97-5 | |
| 15.406 | 15.406 (1.000) | 130 | 180927 | 10.0000 | | 70.00- 130.00 | 100.00 |
| 15.406 | 15.406 (1.000) | 128 | 141275 | | | 0.00- 30.00 | 78.08 |
| 15.406 | 15.406 (1.000) | 49 | 313397 | | | 0.00- 30.00 | 173.22 |
| * 66 1,4-Difluorobenzene | | | | | | CAS #: 540-36-3 | |
| 16.825 | 16.825 (1.000) | 114 | 847516 | 10.0000 | | 70.00- 130.00 | 100.00 |
| 16.825 | 16.825 (1.000) | 88 | 146329 | | | 0.00- 30.00 | 17.27 |
| * 88 Chlorobenzene-d5 | | | | | | CAS #: 3114-55-4 | |
| 21.614 | 21.614 (1.000) | 117 | 741861 | 10.0000 | | 70.00- 130.00 | 100.00 |
| 21.614 | 21.614 (1.000) | 82 | 446541 | | | 0.00- 30.00 | 60.19 |
| 54 2,3-Dimethylpentane | | | | | | CAS #: 565-59-3 | |
| 15.683 | 15.683 (1.018) | 71 | 55078 | 2.00000 | 2.049 | 70.00- 130.00 | 100.00 |
| 15.683 | 15.683 (1.018) | 56 | 165171 | | | 0.00- 30.00 | 299.89 |
| 15.683 | 15.683 (1.018) | 43 | 128767 | | | 0.00- 30.00 | 233.79 |
| 30 2-Methylpentane | | | | | | CAS #: 107-83-5 | |
| 12.995 | 12.995 (0.844) | 71 | 59541 | 2.00000 | 1.973 | 70.00- 130.00 | 100.00 |

| RT | EXP RT (REL RT) | MASS | RESPONSE | AMOUNTS CAL-AMT ( PPBV) | ON-COL ( PPBV) | TARGET RANGE | RATIO |
|---|---|---|---|---|---|---|---|
| 30 2-Methylpentane (continued) | | | | | | | |
| 12.995 | 12.995 (0.844) | 43 | 178502 | | | 0.00- 30.00 | 299.80 |
| 12.995 | 12.995 (0.844) | 42 | 95146 | | | 0.00- 30.00 | 159.80 |
| 122 Indene | | | | | CAS #: 95-13-6 | | |
| 24.873 | 24.873 (1.151) | 115 | 37520 | 2.00000 | 1.784 | 70.00- 130.00 | 100.00(T) |
| 24.873 | 24.873 (1.151) | 116 | 35922 | | | 0.00- 30.00 | 95.74 |
| 0.000 | 1.000 (0.000) | 0 | 0 | | | 0.00- 30.00 | 0.00 |
| 119 Indan | | | | | CAS #: 496-11-7 | | |
| 24.615 | 24.615 (1.139) | 117 | 109808 | 2.00000 | 1.871 | 70.00- 130.00 | 100.00 |
| 24.615 | 24.615 (1.139) | 118 | 61713 | | | 0.00- 30.00 | 56.20 |
| 24.590 | 24.590 (1.138) | 91 | 17378 | | | 0.00- 30.00 | 15.83 |
| 65 Thiophene | | | | | CAS #: 110-02-1 | | |
| 16.605 | 16.605 (0.987) | 84 | 171855 | 2.00000 | 1.874 | 70.00- 130.00 | 100.00(T) |
| 16.605 | 16.605 (0.987) | 58 | 117988 | | | 0.00- 30.00 | 68.66 |
| 0.000 | 1.000 (0.000) | 0 | 0 | | | 0.00- 30.00 | 0.00 |

## QC Flag Legend

T - Target compound detected outside RT window.

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msda.i
Lab File ID: a083107.d
Lab Smp Id: ICAL level 7 level
Analysis Type: VOA
Quant Type: ISTD
Operator: dfm
Method File: /chem/msda.i/31Aug2011.b/a11l0818b.m
Misc Info: 2.0ppbv (2.0ppbv)

Calibration Date: 31-AUG-2011
Calibration Time: 08:01
Level: LOW
Sample Type: AIR

| | | AREA LIMIT | | | |
|---|---|---|---|---|---|
| COMPOUND | STANDARD | LOWER | UPPER | SAMPLE | %DIFF |
| 52 Bromochloromethan | 206450 | 123870 | 289030 | 180927 | -12.36 |
| 66 1,4-Difluorobenze | 897592 | 538555 | 1256629 | 847516 | -5.58 |
| 88 Chlorobenzene-d5 | 792197 | 475318 | 1109076 | 741861 | -6.35 |

| | | RT LIMIT | | | |
|---|---|---|---|---|---|
| COMPOUND | STANDARD | LOWER | UPPER | SAMPLE | %DIFF |
| 52 Bromochloromethan | 15.41 | 15.08 | 15.74 | 15.41 | 0.00 |
| 66 1,4-Difluorobenze | 16.82 | 16.50 | 17.15 | 16.82 | 0.00 |
| 88 Chlorobenzene-d5 | 21.61 | 21.28 | 21.94 | 21.61 | 0.00 |

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Data File: /chem/msda.i/31Aug2011.b/a083107.d



Date : 31-AUG-2011 12:17

Client ID:

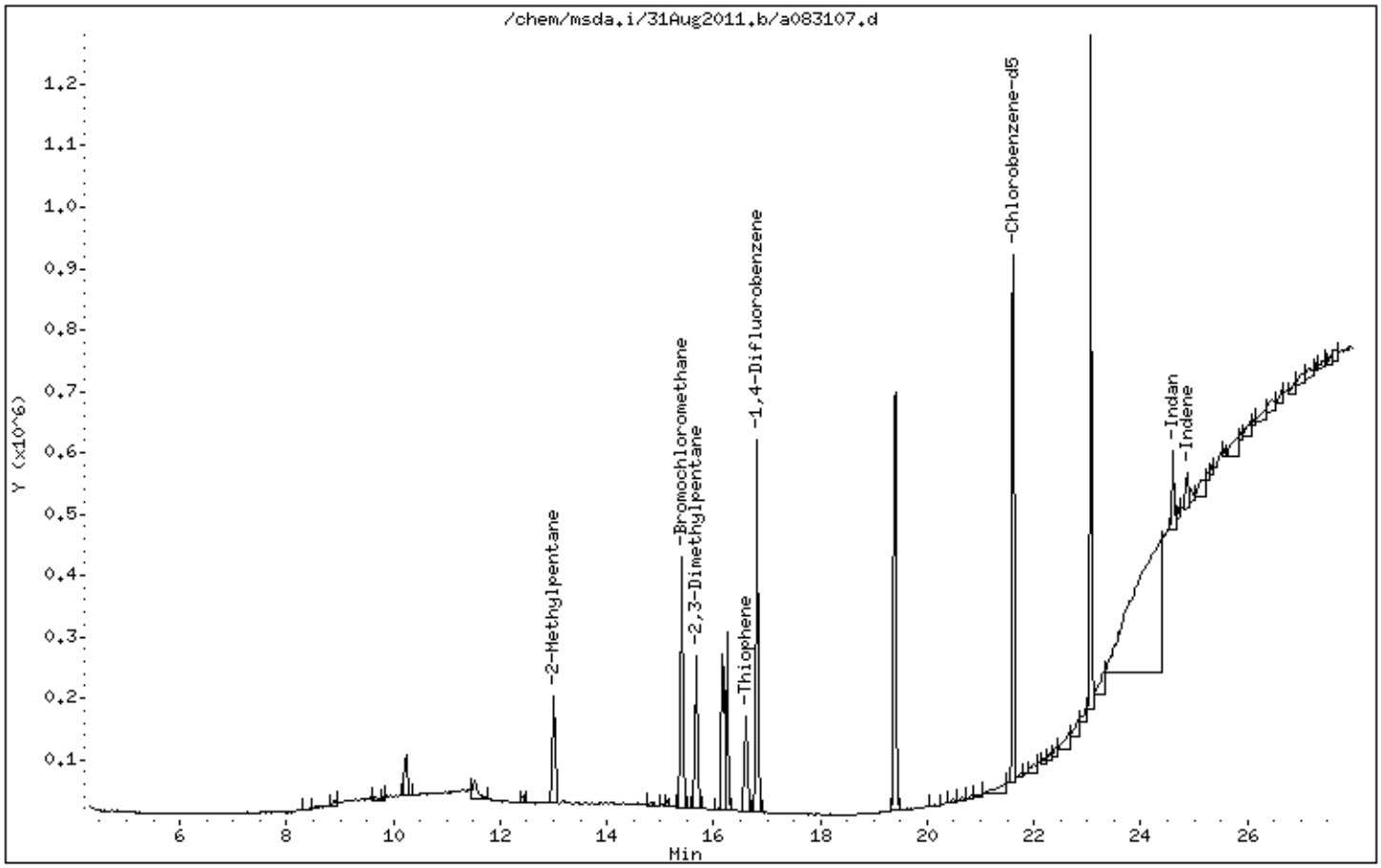
Instrument: msda.i

Sample Info: 250mL #2296-177

Operator: dfm

Column phase: RTx-624

Column diameter: 0.32



Air Toxics Ltd.

AMBIENT AIR METHOD TO14/TO15

Data file : /chem/msda.i/19Aug2011.b/a081908.d
Lab Smp Id: ICAL Client Smp ID: Level #7
Inj Date : 19-AUG-2011 15:16
Operator : ea Inst ID: msda.i
Smp Info : 200mL #2296-42A
Misc Info : 2.0ppbv (2.5ppbv) AT-4
Comment :
Method : /chem/msda.i/19Aug2011.b/a11l0818a.m
Meth Date : 29-Aug-2011 10:27 croush Quant Type: ISTD
Cal Date : 19-AUG-2011 15:16 Cal File: a081908.d
Als bottle: 5 Calibration Sample, Level: 7
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AT4.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

| | | | | AMOUNTS | | | |
|---|---|---|---|---|---|---|---|
| | | | | CAL-AMT | ON-COL | | |
| RT | EXP RT (REL RT) | MASS | RESPONSE | ( PPBV) | ( PPBV) | TARGET RANGE | RATIO |
| * 52 Bromochloromethane | | | | | | CAS #: 74-97-5 | |
| 15.405 | 15.405 (1.000) | 130 | 203787 | 10.0000 | | 70.00- 130.00 | 100.00 |
| 15.405 | 15.405 (1.000) | 128 | 157901 | | | 0.00- 30.00 | 77.48 |
| 15.405 | 15.405 (1.000) | 49 | 321066 | | | 0.00- 30.00 | 157.55 |
| * 66 1,4-Difluorobenzene | | | | | | CAS #: 540-36-3 | |
| 16.825 | 16.825 (1.000) | 114 | 1024127 | 10.0000 | | 70.00- 130.00 | 100.00 |
| 16.825 | 16.825 (1.000) | 88 | 173437 | | | 0.00- 30.00 | 16.94 |
| * 88 Chlorobenzene-d5 | | | | | | CAS #: 3114-55-4 | |
| 21.614 | 21.614 (1.000) | 117 | 887212 | 10.0000 | | 70.00- 130.00 | 100.00 |
| 21.614 | 21.614 (1.000) | 82 | 529793 | | | 0.00- 30.00 | 59.71 |
| 15 Vinyl Bromide | | | | | | CAS #: 593-60-2 | |
| 10.674 | 10.674 (0.693) | 106 | 64427 | 2.00000 | 1.868 | 0.00- 30.00 | 100.00 |
| 10.674 | 10.674 (0.693) | 108 | 59336 | | | 0.00- 30.00 | 92.10 |
| 31 Acetonitrile | | | | | | CAS #: 75-05-8 | |
| 13.050 | 13.050 (0.847) | 41 | 115215 | 2.00000 | 2.004 | 0.00- 30.00 | 100.00 |
| 13.050 | 13.050 (0.847) | 40 | 62255 | | | 0.00- 30.00 | 54.03 |

| RT | EXP RT (REL RT) | MASS | RESPONSE | AMOUNTS CAL-AMT ( PPBV) | AMOUNTS ON-COL ( PPBV) | TARGET RANGE | RATIO |
|---|---|---|---|---|---|---|---|
| 31 Acetonitrile (continued) | | | | | | | |
| 13.050 | 13.050 (0.847) | 39 | 23019 | | | 0.00- 30.00 | 19.98 |
| 37 Acrylonitrile | | | | | CAS #: 107-13-1 | | |
| 13.681 | 13.681 (0.888) | 53 | 89572 | 2.00000 | 1.886 | 0.00- 30.00 | 100.00 |
| 13.681 | 13.681 (0.888) | 52 | 72582 | | | 0.00- 30.00 | 81.03 |
| 43 Chloroprene | | | | | CAS #: 126-99-8 | | |
| 14.313 | 14.313 (0.929) | 53 | 145049 | 2.00000 | 1.950 | 0.00- 30.00 | 100.00 |
| 14.313 | 14.313 (0.929) | 88 | 76862 | | | 0.00- 30.00 | 52.99 |

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msda.i
Lab File ID: a081908.d
Lab Smp Id: ICAL
Analysis Type: VOA
Quant Type: ISTD
Operator: ea
Method File: /chem/msda.i/19Aug2011.b/a11l0818a.m
Misc Info: 2.0ppbv (2.5ppbv) AT-4

Calibration Date: 19-AUG-2011
Calibration Time: 15:16
Client Smp ID: Level #7
Level: LOW
Sample Type: AIR

| | | AREA LIMIT | | | |
|---|---|---|---|---|---|
| COMPOUND | STANDARD | LOWER | UPPER | SAMPLE | %DIFF |
| 52 Bromochloromethan | 203787 | 122272 | 285302 | 203787 | 0.00 |
| 66 1,4-Difluorobenze | 1024127 | 614476 | 1433778 | 1024127 | 0.00 |
| 88 Chlorobenzene-d5 | 887212 | 532327 | 1242097 | 887212 | 0.00 |

| | | RT LIMIT | | | |
|---|---|---|---|---|---|
| COMPOUND | STANDARD | LOWER | UPPER | SAMPLE | %DIFF |
| 52 Bromochloromethan | 15.41 | 15.08 | 15.74 | 15.41 | 0.00 |
| 66 1,4-Difluorobenze | 16.82 | 16.49 | 17.15 | 16.82 | 0.00 |
| 88 Chlorobenzene-d5 | 21.61 | 21.28 | 21.94 | 21.61 | 0.00 |

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Data File: /chem/msda.i/19Aug2011.b/a081908.d



Date : 19-AUG-2011 15:16

Client ID: Level #7

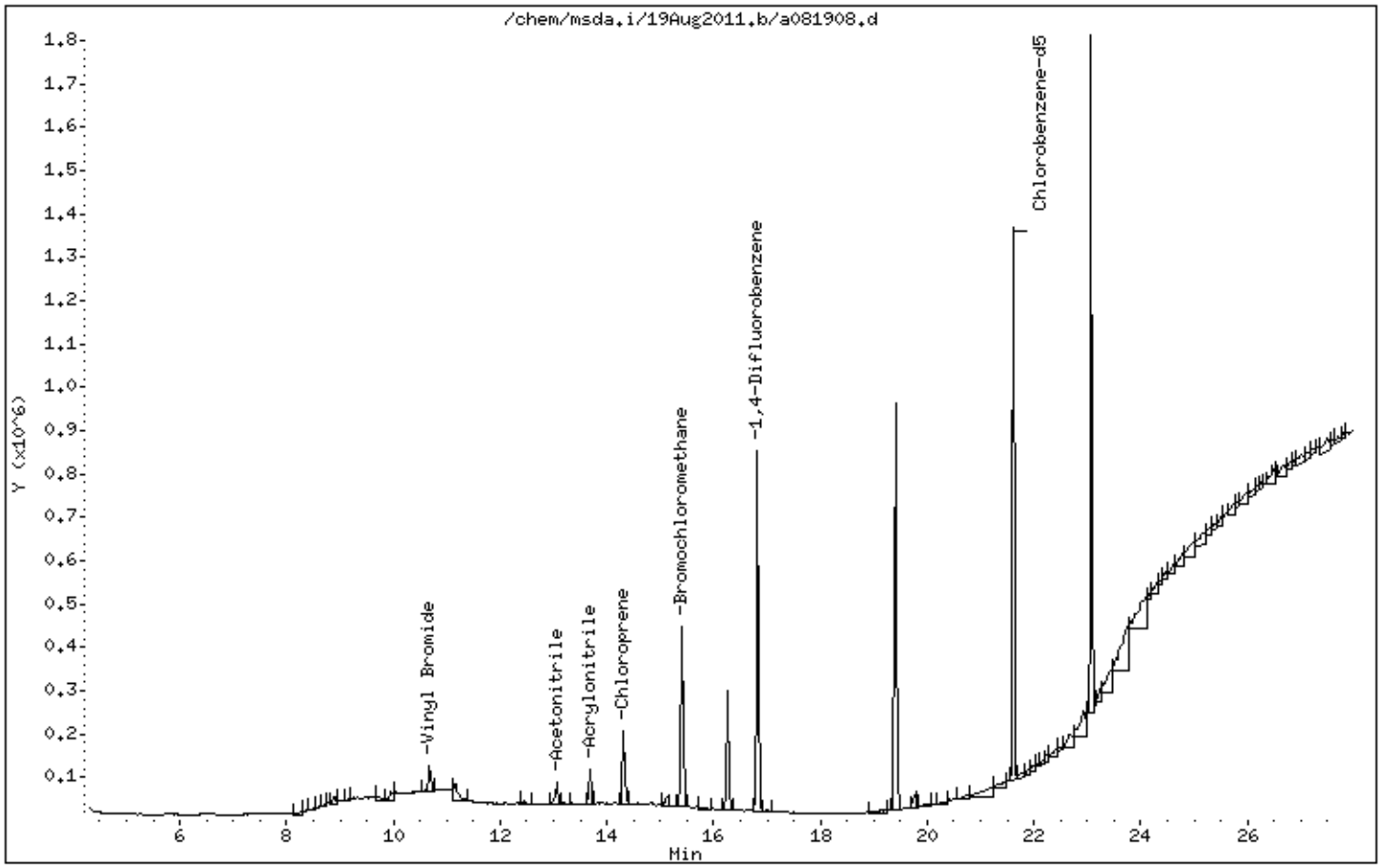
Instrument: msda.i

Sample Info: 200mL #2296-42A

Operator: ea

Column phase: RTx-624

Column diameter: 0.32



Air Toxics Ltd.

AMBIENT AIR METHOD TO14/TO15

Data file : /chem/msda.i/18Aug2011.b/a081808.d
Lab Smp Id: ICAL Client Smp ID: Level 7
Inj Date : 18-AUG-2011 16:34
Operator : jc Inst ID: msda.i
Smp Info : 250mL #2296-166
Misc Info : 2.0ppbv (2.0ppbv)
Comment :
Method : /chem/msda.i/18Aug2011.b/a11l0818a.m
Meth Date : 29-Aug-2011 10:21 croush Quant Type: ISTD
Cal Date : 18-AUG-2011 16:34 Cal File: a081808.d
Als bottle: 17 Calibration Sample, Level: 7
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: HILOcrvFULL.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

| | | | | AMOUNTS | | | | |
|---|---|---|---|---|---|---|---|---|
| | | | | CAL-AMT | ON-COL | | | |
| RT | EXP RT (REL RT) | MASS | RESPONSE | ( PPBV) | ( PPBV) | TARGET RANGE | | RATIO |
| == | ====== ======== | ==== | ======== | ======= | ======= | ========== | | ===== |
| * 52 Bromochloromethane | | | | | | CAS #: 74-97-5 | | |
| 15.405 | 15.405 (1.000) | 130 | 207789 | 10.0000 | | 70.00- 130.00 | | 100.00 |
| 15.405 | 15.405 (1.000) | 128 | 164925 | | | 0.00- 30.00 | | 79.37 |
| 15.405 | 15.405 (1.000) | 49 | 350175 | | | 0.00- 30.00 | | 168.52 |
| * 66 1,4-Difluorobenzene | | | | | | CAS #: 540-36-3 | | |
| 16.825 | 16.825 (1.000) | 114 | 1004248 | 10.0000 | | 70.00- 130.00 | | 100.00 |
| 16.825 | 16.825 (1.000) | 88 | 167638 | | | 0.00- 30.00 | | 16.69 |
| * 88 Chlorobenzene-d5 | | | | | | CAS #: 3114-55-4 | | |
| 21.614 | 21.614 (1.000) | 117 | 871640 | 10.0000 | | 70.00- 130.00 | | 100.00 |
| 21.614 | 21.614 (1.000) | 82 | 513526 | | | 0.00- 30.00 | | 58.91 |
| $ 61 1,2-Dichloroethane-d4 | | | | | | CAS #: 17060-07-0 | | |
| 16.276 | 16.276 (1.056) | 65 | 349628 | 10.0000 | 9.350 | 70.00- 130.00 | | 100.00 |
| 16.276 | 16.276 (1.056) | 67 | 183075 | | | 0.00- 30.00 | | 52.36 |
| $ 80 Toluene-d8 | | | | | | CAS #: 2037-26-5 | | |
| 19.411 | 19.411 (1.154) | 98 | 972613 | 10.0000 | 9.962 | 70.00- 130.00 | | 100.00 |
| 19.411 | 19.411 (1.154) | 70 | 118831 | | | 0.00- 30.00 | | 12.22 |

| RT | EXP RT (REL RT) | MASS | RESPONSE | AMOUNTS CAL-AMT ( PPBV) | ON-COL ( PPBV) | TARGET RANGE | RATIO |
|---|---|---|---|---|---|---|---|
| $ 80 Toluene-d8 (continued) | | | | | | | |
| 19.411 | 19.411 (1.154) | 100 | 653770 | | | 37.45- 97.45 | 67.22 |
| $ 100 Bromofluorobenzene | | | | | CAS #: 460-00-4 | | |
| 23.068 | 23.068 (1.067) | 174 | 450189 | 10.0000 | 9.916 | 70.00- 130.00 | 100.00 |
| 23.068 | 23.068 (1.067) | 95 | 678384 | | | 118.93- 178.93 | 150.69 |
| 23.068 | 23.068 (1.067) | 176 | 427290 | | | 65.47- 125.47 | 94.91 |
| 2 Propylene | | | | | CAS #: 115-07-1 | | |
| 4.842 | 4.842 (0.314) | 41 | 90782 | 2.00000 | 2.040 | 70.00- 130.00 | 100.00(H) |
| 4.818 | 4.818 (0.313) | 42 | 59598 | | | 0.00- 30.00 | 65.65 |
| 4.842 | 4.842 (0.314) | 39 | 64489 | | | 0.00- 30.00 | 71.04 |
| 4 Dichlorodifluoromethane/Fr12 | | | | | CAS #: 75-71-8 | | |
| 5.372 | 5.372 (0.349) | 85 | 275331 | 2.00000 | 2.017 | 70.00- 130.00 | 100.00 |
| 5.348 | 5.348 (0.347) | 87 | 88666 | | | 2.34- 62.34 | 32.20 |
| 6 Freon 114 | | | | | CAS #: 76-14-2 | | |
| 6.818 | 6.818 (0.443) | 135 | 178931 | 2.00000 | 2.071 | 70.00- 130.00 | 100.00 |
| 6.818 | 6.818 (0.443) | 137 | 56968 | | | 0.00- 30.00 | 31.84 |
| 6.818 | 6.818 (0.443) | 85 | 291409 | | | 0.00- 30.00 | 162.86 |
| 7 Chloromethane | | | | | CAS #: 74-87-3 | | |
| 7.156 | 7.156 (0.464) | 50 | 96838 | 2.00000 | 1.930 | 70.00- 130.00 | 100.00(H) |
| 7.156 | 7.156 (0.464) | 52 | 30976 | | | 0.00- 30.00 | 31.99 |
| 9 Butane | | | | | CAS #: 106-97-8 | | |
| 7.867 | 7.867 (0.511) | 58 | 26177 | 2.00000 | 2.084 | 70.00- 130.00 | 100.00 |
| 7.867 | 7.867 (0.511) | 43 | 168696 | | | 0.00- 30.00 | 644.44 |
| 10 Vinyl Chloride | | | | | CAS #: 75-01-4 | | |
| 8.006 | 8.006 (0.520) | 62 | 114541 | 2.00000 | 2.023 | 70.00- 130.00 | 100.00(H) |
| 8.006 | 8.006 (0.520) | 64 | 36311 | | | 1.55- 61.55 | 31.70 |
| 11 1,3-Butadiene | | | | | CAS #: 106-99-0 | | |
| 8.232 | 8.232 (0.534) | 54 | 80956 | 2.00000 | 1.824 | 70.00- 130.00 | 100.00 |
| 8.232 | 8.232 (0.534) | 39 | 78521 | | | 0.00- 30.00 | 96.99 |
| 12 Bromomethane | | | | | CAS #: 74-83-9 | | |
| 9.659 | 9.659 (0.627) | 94 | 53103 | 2.00000 | 2.014 | 70.00- 130.00 | 100.00 |
| 9.659 | 9.659 (0.627) | 96 | 44400 | | | 66.21- 126.21 | 83.61 |
| 13 Chloroethane | | | | | CAS #: 75-00-3 | | |
| 10.115 | 10.115 (0.657) | 64 | 44932 | 2.00000 | 2.248 | 70.00- 130.00 | 100.00 |
| 10.115 | 10.115 (0.657) | 66 | 15626 | | | 0.00- 30.00 | 34.78 |

| RT | EXP RT (REL RT) | MASS | RESPONSE | AMOUNTS CAL-AMT ( PPBV) | ON-COL ( PPBV) | TARGET RANGE | RATIO |
|---|---|---|---|---|---|---|---|
| 14 Isopentane | | | | | CAS #: 78-78-4 | | |
| 10.239 | 10.239 (0.665) | 57 | 81597 | 2.00000 | 1.972 | 70.00- 130.00 | 100.00 |
| 10.239 | 10.239 (0.665) | 43 | 113493 | | | 0.00- 30.00 | 139.09 |
| 10.239 | 10.239 (0.665) | 42 | 97881 | | | 0.00- 30.00 | 119.96 |
| 16 Trichlorofluoromethane/Fr11 | | | | | CAS #: 75-69-4 | | |
| 10.840 | 10.840 (0.704) | 101 | 186614 | 2.00000 | 1.718 | 70.00- 130.00 | 100.00 |
| 10.840 | 10.840 (0.704) | 103 | 119781 | | | 35.43- 95.43 | 64.19 |
| 22 Freon 113 | | | | | CAS #: 76-13-1 | | |
| 12.125 | 12.125 (0.787) | 151 | 155978 | 2.00000 | 2.123 | 70.00- 130.00 | 100.00 |
| 12.125 | 12.125 (0.787) | 153 | 97539 | | | 33.27- 93.27 | 62.53 |
| 12.125 | 12.125 (0.787) | 101 | 215544 | | | 0.00- 30.00 | 138.19 |
| 23 1,1-Dichloroethene | | | | | CAS #: 75-35-4 | | |
| 12.146 | 12.146 (0.788) | 98 | 61269 | 2.00000 | 2.030 | 70.00- 130.00 | 100.00 |
| 12.146 | 12.146 (0.788) | 61 | 169975 | | | 0.00- 30.00 | 277.42 |
| 12.146 | 12.146 (0.788) | 96 | 96167 | | | 0.00- 30.00 | 156.96 |
| 24 Acetone | | | | | CAS #: 67-64-1 | | |
| 12.436 | 12.436 (0.807) | 58 | 58476 | 2.00000 | 2.164 | 70.00- 130.00 | 100.00 |
| 12.436 | 12.436 (0.807) | 43 | 182455 | | | 0.00- 30.00 | 312.02 |
| 26 Carbon Disulfide | | | | | CAS #: 75-15-0 | | |
| 12.499 | 12.499 (0.811) | 76 | 223171 | 2.00000 | 2.012 | 70.00- 130.00 | 100.00 |
| 28 3-Chloroprene | | | | | CAS #: 107-05-1 | | |
| 12.913 | 12.913 (0.838) | 76 | 12906 | 2.00000 | 1.153 | 70.00- 130.00 | 100.00 |
| 12.913 | 12.913 (0.838) | 41 | 37340 | | | 0.00- 30.00 | 289.32 |
| 27 2-Propanol | | | | | CAS #: 67-63-0 | | |
| 12.727 | 12.727 (0.826) | 45 | 259838 | 2.00000 | 2.082 | 70.00- 130.00 | 100.00 |
| 12.727 | 12.727 (0.826) | 43 | 51643 | | | 0.00- 30.00 | 19.88 |
| 12.727 | 12.727 (0.826) | 59 | 9922 | | | 0.00- 30.00 | 3.82 |
| 33 Methylene Chloride | | | | | CAS #: 75-09-2 | | |
| 13.187 | 13.187 (0.856) | 84 | 92772 | 2.00000 | 1.978 | 70.00- 130.00 | 100.00 |
| 13.187 | 13.187 (0.856) | 49 | 130992 | | | 0.00- 30.00 | 141.20 |
| 13.187 | 13.187 (0.856) | 51 | 40361 | | | 0.00- 30.00 | 43.51 |
| 34 tert-butyl alcohol | | | | | CAS #: 75-65-0 | | |
| 13.379 | 13.379 (0.868) | 59 | 151580 | 2.00000 | 1.829 | 70.00- 130.00 | 100.00 |
| 13.379 | 13.379 (0.868) | 41 | 34269 | | | 0.00- 30.00 | 22.61 |
| 13.379 | 13.379 (0.868) | 57 | 17060 | | | 0.00- 30.00 | 11.25 |
| 35 MTBE | | | | | CAS #: 1634-04-4 | | |
| 13.517 | 13.517 (0.877) | 73 | 294384 | 2.00000 | 1.893 | 70.00- 130.00 | 100.00 |

| RT | EXP RT (REL RT) | MASS | RESPONSE | AMOUNTS CAL-AMT ( PPBV) | ON-COL ( PPBV) | TARGET RANGE | RATIO |
|---|---|---|---|---|---|---|---|
| 35 MTBE (continued) | | | | | | | |
| 13.517 | 13.517 (0.877) | 57 | 71263 | | | 0.00- 30.00 | 24.21 |
| 13.517 | 13.517 (0.877) | 41 | 67650 | | | 0.00- 30.00 | 22.98 |
| 36 trans-1,2-Dichloroethene | | | | | CAS #: 156-60-5 | | |
| 13.544 | 13.544 (0.879) | 98 | 63177 | 2.00000 | 1.830 | 70.00- 130.00 | 100.00 |
| 13.544 | 13.544 (0.879) | 61 | 155440 | | | 0.00- 30.00 | 246.04 |
| 13.544 | 13.544 (0.879) | 96 | 101690 | | | 0.00- 30.00 | 160.96 |
| 40 Hexane | | | | | CAS #: 110-54-3 | | |
| 13.846 | 13.846 (0.899) | 57 | 202002 | 2.00000 | 1.942 | 70.00- 130.00 | 100.00 |
| 13.846 | 13.846 (0.899) | 43 | 126760 | | | 0.00- 30.00 | 62.75 |
| 13.846 | 13.846 (0.899) | 86 | 32985 | | | 0.00- 30.00 | 16.33 |
| 41 Isopropyl ether | | | | | CAS #: 108-20-3 | | |
| 14.203 | 14.203 (0.922) | 45 | 431028 | 2.00000 | 2.025 | 70.00- 130.00 | 100.00 |
| 14.203 | 14.203 (0.922) | 87 | 107179 | | | 0.00- 30.00 | 24.87 |
| 14.203 | 14.203 (0.922) | 59 | 48382 | | | 0.00- 30.00 | 11.22 |
| 42 1,1-Dichloroethane | | | | | CAS #: 75-34-3 | | |
| 14.258 | 14.258 (0.926) | 63 | 176961 | 2.00000 | 1.811 | 70.00- 130.00 | 100.00 |
| 14.258 | 14.258 (0.926) | 65 | 56867 | | | 0.00- 30.00 | 32.14 |
| 44 Vinyl Acetate | | | | | CAS #: 108-05-4 | | |
| 14.258 | 14.258 (0.926) | 86 | 21539 | 2.00000 | 1.926 | 70.00- 130.00 | 100.00 |
| 14.258 | 14.258 (0.926) | 42 | 19859 | | | 0.00- 30.00 | 92.20 |
| 14.258 | 14.258 (0.926) | 43 | 230047 | | | 0.00- 30.00 | 1068.05 |
| 46 Ethyl-tert-butyl ether | | | | | CAS #: 637-92-3 | | |
| 14.692 | 14.692 (0.954) | 59 | 406154 | 2.00000 | 1.997 | 70.00- 130.00 | 100.00 |
| 14.692 | 14.692 (0.954) | 87 | 158435 | | | 0.00- 30.00 | 39.01 |
| 14.692 | 14.692 (0.954) | 41 | 73555 | | | 0.00- 30.00 | 18.11 |
| 48 2-Butanone | | | | | CAS #: 78-93-3 | | |
| 15.085 | 15.085 (0.979) | 72 | 57269 | 2.00000 | 1.849 | 70.00- 130.00 | 100.00 |
| 15.085 | 15.085 (0.979) | 43 | 235346 | | | 0.00- 30.00 | 410.95 |
| 15.085 | 15.085 (0.979) | 57 | 18896 | | | 0.00- 30.00 | 33.00 |
| 47 cis-1,2-Dichloroethene | | | | | CAS #: 156-59-2 | | |
| 15.065 | 15.065 (0.978) | 98 | 70565 | 2.00000 | 1.836 | 70.00- 130.00 | 100.00 |
| 15.065 | 15.065 (0.978) | 61 | 155736 | | | 0.00- 30.00 | 220.70 |
| 15.065 | 15.065 (0.978) | 96 | 111774 | | | 128.26- 188.26 | 158.40 |
| 51 Tetrahydrofuran | | | | | CAS #: 109-99-9 | | |
| 15.405 | 15.405 (1.000) | 42 | 137484 | 2.00000 | 2.010 | 70.00- 130.00 | 100.00 |
| 15.405 | 15.405 (1.000) | 71 | 52706 | | | 0.00- 30.00 | 38.34 |

| RT | EXP RT (REL RT) | MASS | RESPONSE | AMOUNTS CAL-AMT ( PPBV) | ON-COL ( PPBV) | TARGET RANGE | RATIO |
|---|---|---|---|---|---|---|---|
| 51 Tetrahydrofuran (continued) | | | | | | | |
| 15.405 | 15.405 (1.000) | 72 | 55927 | | | 0.00- 30.00 | 40.68 |
| 53 Chloroform | | | | | CAS #: 67-66-3 | | |
| 15.467 | 15.467 (1.004) | 83 | 219846 | 2.00000 | 1.860 | 70.00- 130.00 | 100.00 |
| 15.467 | 15.467 (1.004) | 85 | 142178 | | | 0.00- 30.00 | 64.67 |
| 56 1,1,1-Trichloroethane | | | | | CAS #: 71-55-6 | | |
| 15.714 | 15.714 (1.020) | 97 | 238465 | 2.00000 | 1.889 | 70.00- 130.00 | 100.00 |
| 15.714 | 15.714 (1.020) | 99 | 152379 | | | 0.00- 30.00 | 63.90 |
| 55 Cyclohexane | | | | | CAS #: 110-82-7 | | |
| 15.714 | 15.714 (1.020) | 84 | 163727 | 2.00000 | 1.888 | 70.00- 130.00 | 100.00 |
| 15.714 | 15.714 (1.020) | 56 | 209419 | | | 0.00- 30.00 | 127.91 |
| 15.714 | 15.714 (1.020) | 41 | 113373 | | | 0.00- 30.00 | 69.25 |
| 57 Carbon Tetrachloride | | | | | CAS #: 56-23-5 | | |
| 15.929 | 15.929 (1.034) | 119 | 188283 | 2.00000 | 1.989 | 70.00- 130.00 | 100.00 |
| 15.929 | 15.929 (1.034) | 117 | 199237 | | | 0.00- 30.00 | 105.82 |
| 59 2,2,4-Trimethylpentane | | | | | CAS #: 540-84-1 | | |
| 16.193 | 16.193 (1.051) | 56 | 277463 | 2.00000 | 2.086 | 70.00- 130.00 | 100.00 |
| 16.193 | 16.193 (1.051) | 57 | 802962 | | | 0.00- 30.00 | 289.39 |
| 16.193 | 16.193 (1.051) | 41 | 221019 | | | 0.00- 30.00 | 79.66 |
| 60 Benzene | | | | | CAS #: 71-43-2 | | |
| 16.276 | 16.276 (0.967) | 78 | 360579 | 2.00000 | 1.933 | 70.00- 130.00 | 100.00 |
| 16.276 | 16.276 (0.967) | 77 | 80683 | | | 0.00- 30.00 | 22.38 |
| 62 tert-amyl methyl ether | | | | | CAS #: 994-05-8 | | |
| 16.303 | 16.303 (0.969) | 87 | 85507 | 2.00000 | 1.997 | 70.00- 130.00 | 100.00 |
| 16.303 | 16.303 (0.969) | 73 | 358780 | | | 0.00- 30.00 | 419.59 |
| 16.303 | 16.303 (0.969) | 55 | 98088 | | | 0.00- 30.00 | 114.71 |
| 63 1,2-Dichloroethane | | | | | CAS #: 107-06-2 | | |
| 16.385 | 16.385 (0.974) | 62 | 163090 | 2.00000 | 1.850 | 70.00- 130.00 | 100.00 |
| 16.385 | 16.385 (0.974) | 64 | 50219 | | | 0.00- 30.00 | 30.79 |
| 64 Heptane | | | | | CAS #: 142-82-5 | | |
| 16.413 | 16.413 (0.976) | 57 | 120790 | 2.00000 | 1.943 | 70.00- 130.00 | 100.00 |
| 16.413 | 16.413 (0.976) | 100 | 50450 | | | 0.00- 30.00 | 41.77 |
| 16.413 | 16.413 (0.976) | 43 | 228453 | | | 0.00- 30.00 | 189.13 |
| 67 Trichloroethene | | | | | CAS #: 79-01-6 | | |
| 17.237 | 17.237 (1.024) | 130 | 156347 | 2.00000 | 1.963 | 70.00- 130.00 | 100.00 |
| 17.237 | 17.237 (1.024) | 95 | 161601 | | | 0.00- 30.00 | 103.36 |

| RT | EXP RT (REL RT) | MASS | RESPONSE | AMOUNTS CAL-AMT ( PPBV) | ON-COL ( PPBV) | TARGET RANGE | RATIO |
|---|---|---|---|---|---|---|---|
| 67 Trichloroethene (continued) | | | | | | | |
| 17.237 | 17.237 (1.024) | 97 | 104286 | | | 0.00- 30.00 | 66.70 |
| 69 Methylcyclohexane | | | | | CAS #: 108-87-2 | | |
| 17.484 | 17.484 (1.039) | 83 | 220502 | 2.00000 | 1.995 | 70.00- 130.00 | 100.00 |
| 17.484 | 17.484 (1.039) | 98 | 108540 | | | 0.00- 30.00 | 49.22 |
| 17.484 | 17.484 (1.039) | 55 | 193235 | | | 0.00- 30.00 | 87.63 |
| 72 1,2-Dichloropropane | | | | | CAS #: 78-87-5 | | |
| 17.731 | 17.731 (1.054) | 63 | 137104 | 2.00000 | 1.850 | 70.00- 130.00 | 100.00 |
| 17.731 | 17.731 (1.054) | 62 | 98533 | | | 0.00- 30.00 | 71.87 |
| 17.731 | 17.731 (1.054) | 41 | 82540 | | | 29.22- 89.22 | 60.20 |
| 74 1,4-Dioxane | | | | | CAS #: 123-91-1 | | |
| 17.868 | 17.868 (1.062) | 88 | 85665 | 2.00000 | 1.939 | 70.00- 130.00 | 100.00 |
| 17.868 | 17.868 (1.062) | 58 | 65721 | | | 0.00- 30.00 | 76.72 |
| 17.868 | 17.868 (1.062) | 57 | 21676 | | | 0.00- 30.00 | 25.30 |
| 76 Bromodichloromethane | | | | | CAS #: 75-27-4 | | |
| 18.170 | 18.170 (1.080) | 83 | 237859 | 2.00000 | 1.864 | 70.00- 130.00 | 100.00 |
| 18.170 | 18.170 (1.080) | 85 | 155357 | | | 0.00- 30.00 | 65.31 |
| 77 cis-1,3-Dichloropropene | | | | | CAS #: 10061-01-5 | | |
| 18.985 | 18.985 (1.128) | 75 | 190267 | 2.00000 | 1.879 | 70.00- 130.00 | 100.00 |
| 19.008 | 19.008 (1.130) | 77 | 59213 | | | 0.00- 30.00 | 31.12 |
| 18.985 | 18.985 (1.128) | 39 | 99004 | | | 21.94- 81.94 | 52.03 |
| 78 4-Methyl-2-pentanone | | | | | CAS #: 108-10-1 | | |
| 19.187 | 19.187 (1.140) | 43 | 293954 | 2.00000 | 1.919 | 70.00- 130.00 | 100.00 |
| 19.187 | 19.187 (1.140) | 58 | 118226 | | | 0.00- 30.00 | 40.22 |
| 19.187 | 19.187 (1.140) | 85 | 49149 | | | 0.00- 30.00 | 16.72 |
| 81 Toluene | | | | | CAS #: 108-88-3 | | |
| 19.523 | 19.523 (1.160) | 91 | 419654 | 2.00000 | 1.967 | 70.00- 130.00 | 100.00 |
| 19.523 | 19.523 (1.160) | 92 | 249048 | | | 0.00- 30.00 | 59.35 |
| 82 trans-1,3-Dichloropropene | | | | | CAS #: 10061-02-6 | | |
| 19.942 | 19.942 (0.923) | 75 | 194139 | 2.00000 | 1.892 | 70.00- 130.00 | 100.00 |
| 19.942 | 19.942 (0.923) | 77 | 59516 | | | 0.00- 30.00 | 30.66 |
| 19.910 | 19.910 (0.921) | 39 | 97011 | | | 20.28- 80.28 | 49.97 |
| 83 1,1,2-Trichloroethane | | | | | CAS #: 79-00-5 | | |
| 20.235 | 20.235 (0.936) | 97 | 153303 | 2.00000 | 1.877 | 70.00- 130.00 | 100.00 |
| 20.235 | 20.235 (0.936) | 99 | 93616 | | | 0.00- 30.00 | 61.07 |
| 20.235 | 20.235 (0.936) | 83 | 129361 | | | 57.12- 117.12 | 84.38 |

| RT | EXP RT (REL RT) | MASS | RESPONSE | AMOUNTS CAL-AMT ( PPBV) | ON-COL ( PPBV) | TARGET RANGE | RATIO |
|---|---|---|---|---|---|---|---|
| 84 Tetrachloroethene | | | | | CAS #: 127-18-4 | | |
| 20.365 | 20.365 (0.942) | 166 | 184258 | 2.00000 | 1.957 | 70.00- 130.00 | 100.00 |
| 20.365 | 20.365 (0.942) | 129 | 144837 | | | 0.00- 30.00 | 78.61 |
| 20.365 | 20.365 (0.942) | 131 | 140065 | | | 0.00- 30.00 | 76.02 |
| 85 2-Hexanone | | | | | CAS #: 591-78-6 | | |
| 20.495 | 20.495 (0.948) | 58 | 156463 | 2.00000 | 1.912 | 70.00- 130.00 | 100.00 |
| 20.495 | 20.495 (0.948) | 43 | 283977 | | | 0.00- 30.00 | 181.50 |
| 20.495 | 20.495 (0.948) | 100 | 32709 | | | 0.00- 30.00 | 20.91 |
| 86 Dibromochloromethane | | | | | CAS #: 124-48-1 | | |
| 20.820 | 20.820 (0.963) | 129 | 227500 | 2.00000 | 1.889 | 70.00- 130.00 | 100.00 |
| 20.820 | 20.820 (0.963) | 127 | 174413 | | | 0.00- 30.00 | 76.67 |
| 87 1,2-Dibromoethane | | | | | CAS #: 106-93-4 | | |
| 21.048 | 21.048 (0.974) | 107 | 226511 | 2.00000 | 1.946 | 70.00- 130.00 | 100.00 |
| 21.048 | 21.048 (0.974) | 109 | 212740 | | | 0.00- 30.00 | 93.92 |
| 89 Chlorobenzene | | | | | CAS #: 108-90-7 | | |
| 21.662 | 21.662 (1.002) | 112 | 322214 | 2.00000 | 1.945 | 70.00- 130.00 | 100.00 |
| 21.662 | 21.662 (1.002) | 114 | 103799 | | | 0.00- 30.00 | 32.21 |
| 21.662 | 21.662 (1.002) | 77 | 206437 | | | 32.21- 92.21 | 64.07 |
| 91 Ethyl Benzene | | | | | CAS #: 100-41-4 | | |
| 21.710 | 21.710 (1.004) | 106 | 160885 | 2.00000 | 1.892 | 70.00- 130.00 | 100.00 |
| 21.710 | 21.710 (1.004) | 91 | 523444 | | | 0.00- 30.00 | 325.35 |
| 93 m,p-Xylene | | | | | CAS #: 108-38-3 | | |
| 21.879 | 21.879 (1.012) | 106 | 177722 | 2.00000 | 1.912 | 70.00- 130.00 | 100.00 |
| 21.879 | 21.879 (1.012) | 91 | 352792 | | | 0.00- 30.00 | 198.51 |
| 94 o-Xylene | | | | | CAS #: 95-47-6 | | |
| 22.409 | 22.409 (1.037) | 106 | 171047 | 2.00000 | 1.912 | 70.00- 130.00 | 100.00 |
| 22.385 | 22.385 (1.036) | 91 | 368943 | | | 0.00- 30.00 | 215.70 |
| 95 Styrene | | | | | CAS #: 100-42-5 | | |
| 22.433 | 22.433 (1.038) | 104 | 273523 | 2.00000 | 1.882 | 70.00- 130.00 | 100.00 |
| 22.409 | 22.409 (1.037) | 78 | 140728 | | | 0.00- 30.00 | 51.45 |
| 97 Bromoform | | | | | CAS #: 75-25-2 | | |
| 22.707 | 22.707 (1.051) | 173 | 195641 | 2.00000 | 1.906 | 70.00- 130.00 | 100.00 |
| 22.707 | 22.707 (1.051) | 171 | 99673 | | | 0.00- 30.00 | 50.95 |
| 98 Cumene | | | | | CAS #: 98-82-8 | | |
| 22.810 | 22.810 (1.055) | 105 | 505817 | 2.00000 | 1.884 | 70.00- 130.00 | 100.00 |
| 22.810 | 22.810 (1.055) | 120 | 132825 | | | 0.00- 30.00 | 26.26 |

| RT | EXP RT (REL RT) | MASS | RESPONSE | AMOUNTS CAL-AMT ( PPBV) | AMOUNTS ON-COL ( PPBV) | TARGET RANGE | RATIO |
|---|---|---|---|---|---|---|---|
| 103 1,1,2,2-Tetrachloroethane | | | | | CAS #: 79-34-5 | | |
| 23.222 | 23.222 (1.074) | 83 | 302088 | 2.00000 | 1.949 | 70.00- 130.00 | 100.00 |
| 23.222 | 23.222 (1.074) | 85 | 194732 | | | 0.00- 30.00 | 64.46 |
| 104 Propylbenzene | | | | | CAS #: 103-65-1 | | |
| 23.300 | 23.300 (1.078) | 91 | 505145 | 2.00000 | 1.818 | 70.00- 130.00 | 100.00 |
| 23.300 | 23.300 (1.078) | 120 | 113765 | | | 0.00- 30.00 | 22.52 |
| 107 4-Ethyltoluene | | | | | CAS #: 622-96-8 | | |
| 23.403 | 23.403 (1.083) | 105 | 457806 | 2.00000 | 1.806 | 70.00- 130.00 | 100.00 |
| 23.403 | 23.403 (1.083) | 120 | 140712 | | | 0.00- 30.00 | 30.74 |
| 109 1,3,5-Trimethylbenzene | | | | | CAS #: 108-67-8 | | |
| 23.480 | 23.480 (1.086) | 105 | 362469 | 2.00000 | 1.810 | 70.00- 130.00 | 100.00 |
| 23.480 | 23.480 (1.086) | 120 | 175992 | | | 0.00- 30.00 | 48.55 |
| 112 1,2,4-Trimethylbenzene | | | | | CAS #: 95-63-6 | | |
| 23.893 | 23.893 (1.105) | 105 | 333158 | 2.00000 | 1.782 | 70.00- 130.00 | 100.00 |
| 23.893 | 23.893 (1.105) | 120 | 151174 | | | 0.00- 30.00 | 45.38 |
| 115 1,3-Dichlorobenzene | | | | | CAS #: 541-73-1 | | |
| 24.280 | 24.280 (1.123) | 146 | 224484 | 2.00000 | 1.708 | 70.00- 130.00 | 100.00 |
| 24.280 | 24.280 (1.123) | 148 | 142555 | | | 0.00- 30.00 | 63.50 |
| 24.280 | 24.280 (1.123) | 111 | 98428 | | | 0.00- 30.00 | 43.85 |
| 117 1,4-Dichlorobenzene | | | | | CAS #: 106-46-7 | | |
| 24.383 | 24.383 (1.128) | 146 | 202180 | 2.00000 | 1.714 | 70.00- 130.00 | 100.00 |
| 24.383 | 24.383 (1.128) | 148 | 127805 | | | 0.00- 30.00 | 63.21 |
| 24.383 | 24.383 (1.128) | 111 | 86030 | | | 0.00- 30.00 | 42.55 |
| 118 alpha-chlorotoluene | | | | | CAS #: 100-44-7 | | |
| 24.512 | 24.512 (1.134) | 91 | 346422 | 2.00000 | 1.908 | 70.00- 130.00 | 100.00 |
| 24.512 | 24.512 (1.134) | 126 | 67836 | | | 0.00- 30.00 | 19.58 |
| 121 1,2-Dichlorobenzene | | | | | CAS #: 95-50-1 | | |
| 24.796 | 24.796 (1.147) | 146 | 199802 | 2.00000 | 1.728 | 70.00- 130.00 | 100.00 |
| 24.796 | 24.796 (1.147) | 148 | 127673 | | | 31.61- 91.61 | 63.90 |
| 24.796 | 24.796 (1.147) | 111 | 90820 | | | 15.03- 75.03 | 45.46 |
| 126 1,2,4-Trichlorobenzene | | | | | CAS #: 120-82-1 | | |
| 26.550 | 26.550 (1.228) | 180 | 162611 | 2.00000 | 2.445 | 70.00- 130.00 | 100.00 |
| 26.550 | 26.550 (1.228) | 182 | 152213 | | | 0.00- 30.00 | 93.61 |
| 128 Hexachlorobutadiene | | | | | CAS #: 87-68-3 | | |
| 26.653 | 26.653 (1.233) | 225 | 121874 | 2.00000 | 2.458 | 70.00- 130.00 | 100.00 |
| 26.653 | 26.653 (1.233) | 223 | 76763 | | | 0.00- 30.00 | 62.99 |

| | | | | AMOUNTS | | | |
|---|---|---|---|---|---|---|---|
| | | | | CAL-AMT | ON-COL | | |
| RT | EXP RT (REL RT) | MASS | RESPONSE | ( PPBV) | ( PPBV) | TARGET RANGE | RATIO |
| == | ====== ======== | ==== | ======== | ======= | ======= | ========== | ===== |
| 129 Naphthalene | | | | | CAS #: 91-20-3 | | |
| 26.885 | 26.885 (1.244) | 128 | 352793 | 2.00000 | 2.542 | 70.00- 130.00 | 100.00 |
| 26.885 | 26.885 (1.244) | 127 | 45781 | | | 0.00- 30.00 | 12.98 |

QC Flag Legend

H - Operator selected an alternate compound hit.

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msda.i
Lab File ID: a081808.d
Lab Smp Id: ICAL
Analysis Type: VOA
Quant Type: ISTD
Operator: jc
Method File: /chem/msda.i/18Aug2011.b/a11l0818a.m
Misc Info: 2.0ppbv (2.0ppbv)

Calibration Date: 18-AUG-2011
Calibration Time: 17:09
Client Smp ID: Level 7
Level: LOW
Sample Type: AIR

| | | AREA LIMIT | | | |
|---|---|---|---|---|---|
| COMPOUND | STANDARD | LOWER | UPPER | SAMPLE | %DIFF |
| 52 Bromochloromethan | 220017 | 132010 | 308024 | 207789 | -5.56 |
| 66 1,4-Difluorobenze | 1019583 | 611750 | 1427416 | 1004248 | -1.50 |
| 88 Chlorobenzene-d5 | 873528 | 524117 | 1222939 | 871640 | -0.22 |

| | | RT LIMIT | | | |
|---|---|---|---|---|---|
| COMPOUND | STANDARD | LOWER | UPPER | SAMPLE | %DIFF |
| 52 Bromochloromethan | 15.41 | 15.08 | 15.74 | 15.41 | 0.00 |
| 66 1,4-Difluorobenze | 16.83 | 16.50 | 17.16 | 16.82 | 0.00 |
| 88 Chlorobenzene-d5 | 21.61 | 21.28 | 21.94 | 21.61 | 0.00 |

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Data File: /chem/msda.i/18Aug2011.b/a081808.d

Date : 18-AUG-2011 16:34

Client ID: Level 7

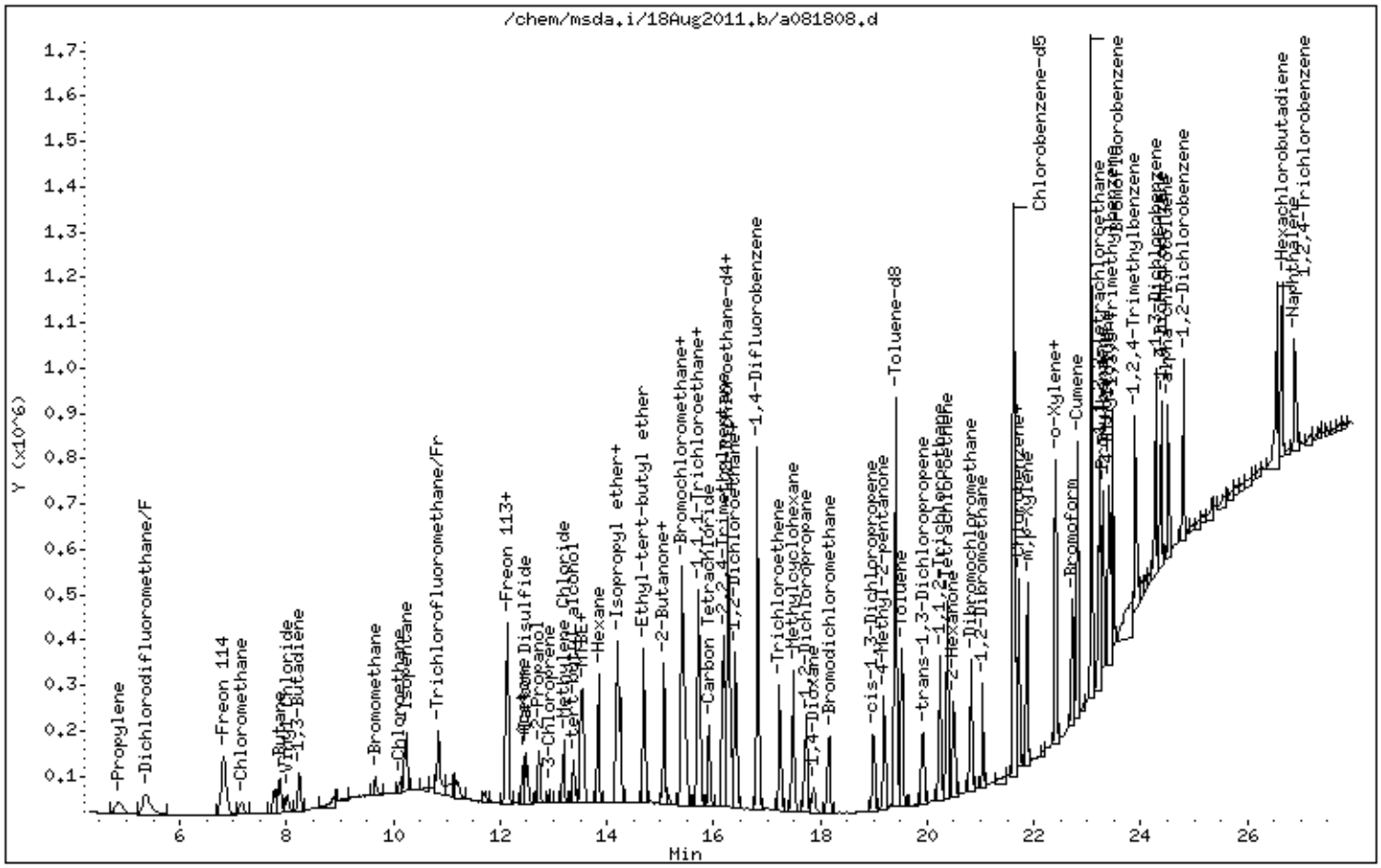
Instrument: msda.i

Sample Info: 250mL #2296-166

Operator: jc

Column phase: RTx-624

Column diameter: 0.32



Air Toxics Ltd.

AMBIENT AIR METHOD TO14/TO15

Data file : /chem/msda.i/18Aug2011.b/a081809.d
Lab Smp Id: ICAL Client Smp ID: Level 8
Inj Date : 18-AUG-2011 17:09
Operator : jc Inst ID: msda.i
Smp Info : 25mL #2296-84
Misc Info : 5.0ppbv (50ppbv)
Comment :
Method : /chem/msda.i/18Aug2011.b/a11l0818a.m
Meth Date : 29-Aug-2011 10:21 croush Quant Type: ISTD
Cal Date : 18-AUG-2011 17:09 Cal File: a081809.d
Als bottle: 18 Calibration Sample, Level: 8
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: HILOcrvFULL.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

| | | | | AMOUNTS | | | |
|---|---|---|---|---|---|---|---|
| | | | | CAL-AMT | ON-COL | | |
| RT | EXP RT (REL RT) | MASS | RESPONSE | ( PPBV) | ( PPBV) | TARGET RANGE | RATIO |
| == | ====== ======== | ==== | ======== | ======= | ======= | ========== | ===== |
| * 52 Bromochloromethane | | | | | | CAS #: 74-97-5 | |
| 15.406 | 15.406 (1.000) | 130 | 220017 | 10.0000 | | 80.00- 120.00 | 100.00 |
| 15.406 | 15.406 (1.000) | 128 | 169273 | | | 0.00- 30.00 | 76.94 |
| 15.406 | 15.406 (1.000) | 49 | 410317 | | | 0.00- 30.00 | 186.49 |
| * 66 1,4-Difluorobenzene | | | | | | CAS #: 540-36-3 | |
| 16.825 | 16.825 (1.000) | 114 | 1019583 | 10.0000 | | 80.00- 120.00 | 100.00 |
| 16.825 | 16.825 (1.000) | 88 | 176037 | | | 0.00- 30.00 | 17.27 |
| * 88 Chlorobenzene-d5 | | | | | | CAS #: 3114-55-4 | |
| 21.614 | 21.614 (1.000) | 117 | 873528 | 10.0000 | | 80.00- 120.00 | 100.00 |
| 21.614 | 21.614 (1.000) | 82 | 518456 | | | 0.00- 30.00 | 59.35 |
| $ 61 1,2-Dichloroethane-d4 | | | | | | CAS #: 17060-07-0 | |
| 16.249 | 16.249 (1.055) | 65 | 398211 | 10.0000 | 10.058 | 80.00- 120.00 | 100.00 |
| 16.249 | 16.249 (1.055) | 67 | 209278 | | | 0.00- 30.00 | 52.55 |
| $ 80 Toluene-d8 | | | | | | CAS #: 2037-26-5 | |
| 19.412 | 19.412 (1.154) | 98 | 995008 | 10.0000 | 10.039 | 80.00- 120.00 | 100.00 |
| 19.412 | 19.412 (1.154) | 70 | 117785 | | | 0.00- 30.00 | 11.84 |

| RT | EXP RT (REL RT) | MASS | RESPONSE | AMOUNTS CAL-AMT ( PPBV) | AMOUNTS ON-COL ( PPBV) | TARGET RANGE | RATIO |
|---|---|---|---|---|---|---|---|
| $ 80 Toluene-d8 (continued) | | | | | | | |
| 19.412 | 19.412 (1.154) | 100 | 671099 | | | 37.45- 97.45 | 67.45 |
| $ 100 Bromofluorobenzene | | | | | CAS #: 460-00-4 | | |
| 23.068 | 23.068 (1.067) | 174 | 448250 | 10.0000 | 9.852 | 80.00- 120.00 | 100.00 |
| 23.068 | 23.068 (1.067) | 95 | 667597 | | | 118.93- 178.93 | 148.93 |
| 23.068 | 23.068 (1.067) | 176 | 427952 | | | 65.47- 125.47 | 95.47 |
| 2 Propylene | | | | | CAS #: 115-07-1 | | |
| 5.083 | 5.083 (0.330) | 41 | 224000 | 5.00000 | 4.753 | 80.00- 120.00 | 100.00 |
| 5.059 | 5.059 (0.328) | 42 | 150393 | | | 0.00- 30.00 | 67.14 |
| 5.059 | 5.059 (0.328) | 39 | 159459 | | | 0.00- 30.00 | 71.19 |
| 4 Dichlorodifluoromethane/Fr12 | | | | | CAS #: 75-71-8 | | |
| 5.565 | 5.565 (0.361) | 85 | 711505 | 5.00000 | 4.922 | 80.00- 120.00 | 100.00 |
| 5.565 | 5.565 (0.361) | 87 | 230125 | | | 2.34- 62.34 | 32.34 |
| 6 Freon 114 | | | | | CAS #: 76-14-2 | | |
| 6.939 | 6.939 (0.450) | 135 | 446880 | 5.00000 | 4.885 | 80.00- 120.00 | 100.00 |
| 6.939 | 6.939 (0.450) | 137 | 139975 | | | 0.00- 30.00 | 31.32 |
| 6.939 | 6.939 (0.450) | 85 | 731876 | | | 0.00- 30.00 | 163.77 |
| 7 Chloromethane | | | | | CAS #: 74-87-3 | | |
| 7.252 | 7.252 (0.471) | 50 | 247519 | 5.00000 | 4.659 | 80.00- 120.00 | 100.00 |
| 7.252 | 7.252 (0.471) | 52 | 82657 | | | 0.00- 30.00 | 33.39 |
| 9 Butane | | | | | CAS #: 106-97-8 | | |
| 7.937 | 7.937 (0.515) | 58 | 65842 | 5.00000 | 4.950 | 80.00- 120.00 | 100.00 |
| 7.937 | 7.937 (0.515) | 43 | 451774 | | | 0.00- 30.00 | 686.15 |
| 10 Vinyl Chloride | | | | | CAS #: 75-01-4 | | |
| 8.076 | 8.076 (0.524) | 62 | 288033 | 5.00000 | 4.804 | 80.00- 120.00 | 100.00 |
| 8.076 | 8.076 (0.524) | 64 | 90866 | | | 1.55- 61.55 | 31.55 |
| 11 1,3-Butadiene | | | | | CAS #: 106-99-0 | | |
| 8.284 | 8.284 (0.538) | 54 | 230489 | 5.00000 | 4.904 | 80.00- 120.00 | 100.00 |
| 8.284 | 8.284 (0.538) | 39 | 218109 | | | 0.00- 30.00 | 94.63 |
| 12 Bromomethane | | | | | CAS #: 74-83-9 | | |
| 9.680 | 9.680 (0.628) | 94 | 115012 | 5.00000 | 4.120 | 80.00- 120.00 | 100.00 |
| 9.680 | 9.680 (0.628) | 96 | 110648 | | | 66.21- 126.21 | 96.21 |
| 13 Chloroethane | | | | | CAS #: 75-00-3 | | |
| 10.136 | 10.136 (0.658) | 64 | 93241 | 5.00000 | 4.406 | 80.00- 120.00 | 100.00 |
| 10.136 | 10.136 (0.658) | 66 | 31168 | | | 0.00- 30.00 | 33.43 |

| RT | EXP RT (REL RT) | MASS | RESPONSE | AMOUNTS CAL-AMT ( PPBV) | ON-COL ( PPBV) | TARGET RANGE | RATIO |
|---|---|---|---|---|---|---|---|
| 14 Isopentane | | | | | CAS #: 78-78-4 | | |
| 10.260 | 10.260 (0.666) | 57 | 225221 | 5.00000 | 5.142 | 80.00- 120.00 | 100.00 |
| 10.240 | 10.240 (0.665) | 43 | 315517 | | | 0.00- 30.00 | 140.09 |
| 10.240 | 10.240 (0.665) | 42 | 272312 | | | 0.00- 30.00 | 120.91 |
| 16 Trichlorofluoromethane/Fr11 | | | | | CAS #: 75-69-4 | | |
| 10.841 | 10.841 (0.704) | 101 | 518982 | 5.00000 | 4.514 | 80.00- 120.00 | 100.00 |
| 10.841 | 10.841 (0.704) | 103 | 339601 | | | 35.44- 95.44 | 65.44 |
| 22 Freon 113 | | | | | CAS #: 76-13-1 | | |
| 12.126 | 12.126 (0.787) | 151 | 442404 | 5.00000 | 5.687 | 80.00- 120.00 | 100.00 |
| 12.126 | 12.126 (0.787) | 153 | 279900 | | | 33.27- 93.27 | 63.27 |
| 12.126 | 12.126 (0.787) | 101 | 617989 | | | 0.00- 30.00 | 139.69 |
| 23 1,1-Dichloroethene | | | | | CAS #: 75-35-4 | | |
| 12.147 | 12.147 (0.788) | 98 | 171468 | 5.00000 | 5.365 | 80.00- 120.00 | 100.00 |
| 12.147 | 12.147 (0.788) | 61 | 468742 | | | 0.00- 30.00 | 273.37 |
| 12.147 | 12.147 (0.788) | 96 | 265958 | | | 0.00- 30.00 | 155.11 |
| 24 Acetone | | | | | CAS #: 67-64-1 | | |
| 12.416 | 12.416 (0.806) | 58 | 146118 | 5.00000 | 5.106 | 80.00- 120.00 | 100.00 |
| 12.416 | 12.416 (0.806) | 43 | 453223 | | | 0.00- 30.00 | 310.18 |
| 26 Carbon Disulfide | | | | | CAS #: 75-15-0 | | |
| 12.499 | 12.499 (0.811) | 76 | 610126 | 5.00000 | 5.196 | 80.00- 120.00 | 100.00 |
| 28 3-Chloroprene | | | | | CAS #: 107-05-1 | | |
| 12.913 | 12.913 (0.838) | 76 | 69870 | 5.00000 | 5.897 | 80.00- 120.00 | 100.00 |
| 12.913 | 12.913 (0.838) | 41 | 202286 | | | 0.00- 30.00 | 289.52 |
| 27 2-Propanol | | | | | CAS #: 67-63-0 | | |
| 12.727 | 12.727 (0.826) | 45 | 677953 | 5.00000 | 5.131 | 80.00- 120.00 | 100.00 |
| 12.727 | 12.727 (0.826) | 43 | 131353 | | | 0.00- 30.00 | 19.37 |
| 12.727 | 12.727 (0.826) | 59 | 28003 | | | 0.00- 30.00 | 4.13 |
| 33 Methylene Chloride | | | | | CAS #: 75-09-2 | | |
| 13.188 | 13.188 (0.856) | 84 | 224205 | 5.00000 | 4.513 | 80.00- 120.00 | 100.00 |
| 13.160 | 13.160 (0.854) | 49 | 323911 | | | 0.00- 30.00 | 144.47 |
| 13.188 | 13.188 (0.856) | 51 | 94765 | | | 0.00- 30.00 | 42.27 |
| 34 tert-butyl alcohol | | | | | CAS #: 75-65-0 | | |
| 13.380 | 13.380 (0.868) | 59 | 535913 | 5.00000 | 6.106 | 80.00- 120.00 | 100.00 |
| 13.380 | 13.380 (0.868) | 41 | 117809 | | | 0.00- 30.00 | 21.98 |
| 13.380 | 13.380 (0.868) | 57 | 55734 | | | 0.00- 30.00 | 10.40 |
| 35 MTBE | | | | | CAS #: 1634-04-4 | | |
| 13.517 | 13.517 (0.877) | 73 | 817637 | 5.00000 | 4.964 | 80.00- 120.00 | 100.00 |

| RT | EXP RT (REL RT) | MASS | RESPONSE | AMOUNTS CAL-AMT ( PPBV) | ON-COL ( PPBV) | TARGET RANGE | RATIO |
|---|---|---|---|---|---|---|---|
| 35 MTBE (continued) | | | | | | | |
| 13.517 | 13.517 (0.877) | 57 | 199887 | | | 0.00- 30.00 | 24.45 |
| 13.517 | 13.517 (0.877) | 41 | 188136 | | | 0.00- 30.00 | 23.01 |
| 36 trans-1,2-Dichloroethene | | | | | CAS #: 156-60-5 | | |
| 13.544 | 13.544 (0.879) | 98 | 182633 | 5.00000 | 4.997 | 80.00- 120.00 | 100.00 |
| 13.544 | 13.544 (0.879) | 61 | 440788 | | | 0.00- 30.00 | 241.35 |
| 13.544 | 13.544 (0.879) | 96 | 291477 | | | 0.00- 30.00 | 159.60 |
| 40 Hexane | | | | | CAS #: 110-54-3 | | |
| 13.846 | 13.846 (0.899) | 57 | 529807 | 5.00000 | 4.812 | 80.00- 120.00 | 100.00 |
| 13.846 | 13.846 (0.899) | 43 | 336110 | | | 0.00- 30.00 | 63.44 |
| 13.846 | 13.846 (0.899) | 86 | 87626 | | | 0.00- 30.00 | 16.54 |
| 41 Isopropyl ether | | | | | CAS #: 108-20-3 | | |
| 14.203 | 14.203 (0.922) | 45 | 1138265 | 5.00000 | 5.052 | 80.00- 120.00 | 100.00 |
| 14.203 | 14.203 (0.922) | 87 | 286576 | | | 0.00- 30.00 | 25.18 |
| 14.203 | 14.203 (0.922) | 59 | 132794 | | | 0.00- 30.00 | 11.67 |
| 42 1,1-Dichloroethane | | | | | CAS #: 75-34-3 | | |
| 14.231 | 14.231 (0.924) | 63 | 543917 | 5.00000 | 5.256 | 80.00- 120.00 | 100.00 |
| 14.258 | 14.258 (0.926) | 65 | 173260 | | | 0.00- 30.00 | 31.85 |
| 44 Vinyl Acetate | | | | | CAS #: 108-05-4 | | |
| 14.258 | 14.258 (0.926) | 86 | 53446 | 5.00000 | 4.513 | 80.00- 120.00 | 100.00 |
| 14.258 | 14.258 (0.926) | 42 | 52188 | | | 0.00- 30.00 | 97.65 |
| 14.258 | 14.258 (0.926) | 43 | 597553 | | | 0.00- 30.00 | 1118.05 |
| 46 Ethyl-tert-butyl ether | | | | | CAS #: 637-92-3 | | |
| 14.692 | 14.692 (0.954) | 59 | 1094193 | 5.00000 | 5.081 | 80.00- 120.00 | 100.00 |
| 14.692 | 14.692 (0.954) | 87 | 418668 | | | 0.00- 30.00 | 38.26 |
| 14.692 | 14.692 (0.954) | 41 | 195454 | | | 0.00- 30.00 | 17.86 |
| 48 2-Butanone | | | | | CAS #: 78-93-3 | | |
| 15.065 | 15.065 (0.978) | 72 | 157518 | 5.00000 | 4.803 | 80.00- 120.00 | 100.00 |
| 15.065 | 15.065 (0.978) | 43 | 665783 | | | 0.00- 30.00 | 422.67 |
| 15.065 | 15.065 (0.978) | 57 | 54269 | | | 0.00- 30.00 | 34.45 |
| 47 cis-1,2-Dichloroethene | | | | | CAS #: 156-59-2 | | |
| 15.065 | 15.065 (0.978) | 98 | 203869 | 5.00000 | 5.008 | 80.00- 120.00 | 100.00 |
| 15.065 | 15.065 (0.978) | 61 | 446967 | | | 0.00- 30.00 | 219.24 |
| 15.065 | 15.065 (0.978) | 96 | 321631 | | | 127.76- 187.76 | 157.76 |
| 51 Tetrahydrofuran | | | | | CAS #: 109-99-9 | | |
| 15.406 | 15.406 (1.000) | 42 | 379297 | 5.00000 | 5.237 | 80.00- 120.00 | 100.00 |
| 15.406 | 15.406 (1.000) | 71 | 142272 | | | 0.00- 30.00 | 37.51 |

| RT | EXP RT (REL RT) | MASS | RESPONSE | AMOUNTS CAL-AMT ( PPBV) | ON-COL ( PPBV) | TARGET RANGE | RATIO |
|---|---|---|---|---|---|---|---|
| 51 Tetrahydrofuran (continued) | | | | | | | |
| 15.406 | 15.406 (1.000) | 72 | 153074 | | | 0.00- 30.00 | 40.36 |
| 53 Chloroform | | | | | CAS #: 67-66-3 | | |
| 15.467 | 15.467 (1.004) | 83 | 620658 | 5.00000 | 4.960 | 80.00- 120.00 | 100.00 |
| 15.467 | 15.467 (1.004) | 85 | 401424 | | | 0.00- 30.00 | 64.68 |
| 56 1,1,1-Trichloroethane | | | | | CAS #: 71-55-6 | | |
| 15.714 | 15.714 (1.020) | 97 | 664617 | 5.00000 | 4.972 | 80.00- 120.00 | 100.00 |
| 15.714 | 15.714 (1.020) | 99 | 421080 | | | 0.00- 30.00 | 63.36 |
| 55 Cyclohexane | | | | | CAS #: 110-82-7 | | |
| 15.714 | 15.714 (1.020) | 84 | 452502 | 5.00000 | 4.928 | 80.00- 120.00 | 100.00 |
| 15.714 | 15.714 (1.020) | 56 | 577842 | | | 0.00- 30.00 | 127.70 |
| 15.714 | 15.714 (1.020) | 41 | 311930 | | | 0.00- 30.00 | 68.93 |
| 57 Carbon Tetrachloride | | | | | CAS #: 56-23-5 | | |
| 15.930 | 15.930 (1.034) | 119 | 547187 | 5.00000 | 5.460 | 80.00- 120.00 | 100.00 |
| 15.930 | 15.930 (1.034) | 117 | 566391 | | | 0.00- 30.00 | 103.51 |
| 59 2,2,4-Trimethylpentane | | | | | CAS #: 540-84-1 | | |
| 16.194 | 16.194 (1.051) | 56 | 750715 | 5.00000 | 5.330 | 80.00- 120.00 | 100.00 |
| 16.194 | 16.194 (1.051) | 57 | 2135510 | | | 0.00- 30.00 | 284.46 |
| 16.194 | 16.194 (1.051) | 41 | 579826 | | | 0.00- 30.00 | 77.24 |
| 60 Benzene | | | | | CAS #: 71-43-2 | | |
| 16.276 | 16.276 (0.967) | 78 | 960193 | 5.00000 | 5.070 | 80.00- 120.00 | 100.00 |
| 16.276 | 16.276 (0.967) | 77 | 216061 | | | 0.00- 30.00 | 22.50 |
| 62 tert-amyl methyl ether | | | | | CAS #: 994-05-8 | | |
| 16.303 | 16.303 (0.969) | 87 | 227526 | 5.00000 | 5.234 | 80.00- 120.00 | 100.00 |
| 16.303 | 16.303 (0.969) | 73 | 959705 | | | 0.00- 30.00 | 421.80 |
| 16.303 | 16.303 (0.969) | 55 | 262951 | | | 0.00- 30.00 | 115.57 |
| 63 1,2-Dichloroethane | | | | | CAS #: 107-06-2 | | |
| 16.386 | 16.386 (0.974) | 62 | 457204 | 5.00000 | 5.109 | 80.00- 120.00 | 100.00 |
| 16.386 | 16.386 (0.974) | 64 | 149946 | | | 0.00- 30.00 | 32.80 |
| 64 Heptane | | | | | CAS #: 142-82-5 | | |
| 16.413 | 16.413 (0.976) | 57 | 321778 | 5.00000 | 5.098 | 80.00- 120.00 | 100.00 |
| 16.413 | 16.413 (0.976) | 100 | 131789 | | | 0.00- 30.00 | 40.96 |
| 16.413 | 16.413 (0.976) | 43 | 596487 | | | 0.00- 30.00 | 185.37 |
| 67 Trichloroethene | | | | | CAS #: 79-01-6 | | |
| 17.237 | 17.237 (1.024) | 130 | 420244 | 5.00000 | 5.197 | 80.00- 120.00 | 100.00 |
| 17.237 | 17.237 (1.024) | 95 | 436239 | | | 0.00- 30.00 | 103.81 |

| RT | EXP RT (REL RT) | MASS | RESPONSE | AMOUNTS CAL-AMT ( PPBV) | ON-COL ( PPBV) | TARGET RANGE | RATIO |
|---|---|---|---|---|---|---|---|
| 67 Trichloroethene (continued) | | | | | | | |
| 17.237 | 17.237 (1.024) | 97 | 281976 | | | 0.00- 30.00 | 67.10 |
| 69 Methylcyclohexane | | | | | CAS #: 108-87-2 | | |
| 17.484 | 17.484 (1.039) | 83 | 584128 | 5.00000 | 5.205 | 80.00- 120.00 | 100.00 |
| 17.484 | 17.484 (1.039) | 98 | 277737 | | | 0.00- 30.00 | 47.55 |
| 17.484 | 17.484 (1.039) | 55 | 511732 | | | 0.00- 30.00 | 87.61 |
| 72 1,2-Dichloropropane | | | | | CAS #: 78-87-5 | | |
| 17.731 | 17.731 (1.054) | 63 | 374401 | 5.00000 | 4.977 | 80.00- 120.00 | 100.00 |
| 17.731 | 17.731 (1.054) | 62 | 275889 | | | 0.00- 30.00 | 73.69 |
| 17.731 | 17.731 (1.054) | 41 | 221737 | | | 29.22- 89.22 | 59.22 |
| 74 1,4-Dioxane | | | | | CAS #: 123-91-1 | | |
| 17.869 | 17.869 (1.062) | 88 | 219930 | 5.00000 | 4.903 | 80.00- 120.00 | 100.00 |
| 17.869 | 17.869 (1.062) | 58 | 166844 | | | 0.00- 30.00 | 75.86 |
| 17.869 | 17.869 (1.062) | 57 | 54367 | | | 0.00- 30.00 | 24.72 |
| 76 Bromodichloromethane | | | | | CAS #: 75-27-4 | | |
| 18.143 | 18.143 (1.078) | 83 | 691661 | 5.00000 | 5.338 | 80.00- 120.00 | 100.00 |
| 18.143 | 18.143 (1.078) | 85 | 435293 | | | 0.00- 30.00 | 62.93 |
| 77 cis-1,3-Dichloropropene | | | | | CAS #: 10061-01-5 | | |
| 18.986 | 18.986 (1.128) | 75 | 530559 | 5.00000 | 5.160 | 80.00- 120.00 | 100.00 |
| 18.986 | 18.986 (1.128) | 77 | 165574 | | | 0.00- 30.00 | 31.21 |
| 18.986 | 18.986 (1.128) | 39 | 275558 | | | 21.94- 81.94 | 51.94 |
| 78 4-Methyl-2-pentanone | | | | | CAS #: 108-10-1 | | |
| 19.187 | 19.187 (1.140) | 43 | 791266 | 5.00000 | 5.088 | 80.00- 120.00 | 100.00 |
| 19.187 | 19.187 (1.140) | 58 | 318889 | | | 0.00- 30.00 | 40.30 |
| 19.187 | 19.187 (1.140) | 85 | 128452 | | | 0.00- 30.00 | 16.23 |
| 81 Toluene | | | | | CAS #: 108-88-3 | | |
| 19.524 | 19.524 (1.160) | 91 | 1075634 | 5.00000 | 4.966 | 80.00- 120.00 | 100.00 |
| 19.524 | 19.524 (1.160) | 92 | 655300 | | | 0.00- 30.00 | 60.92 |
| 82 trans-1,3-Dichloropropene | | | | | CAS #: 10061-02-6 | | |
| 19.910 | 19.910 (0.921) | 75 | 520005 | 5.00000 | 5.057 | 80.00- 120.00 | 100.00 |
| 19.910 | 19.910 (0.921) | 77 | 164021 | | | 0.00- 30.00 | 31.54 |
| 19.910 | 19.910 (0.921) | 39 | 261249 | | | 20.24- 80.24 | 50.24 |
| 83 1,1,2-Trichloroethane | | | | | CAS #: 79-00-5 | | |
| 20.235 | 20.235 (0.936) | 97 | 395226 | 5.00000 | 4.829 | 80.00- 120.00 | 100.00 |
| 20.235 | 20.235 (0.936) | 99 | 246524 | | | 0.00- 30.00 | 62.38 |
| 20.235 | 20.235 (0.936) | 83 | 344195 | | | 57.09- 117.09 | 87.09 |

| RT | EXP RT (REL RT) | MASS | RESPONSE | AMOUNTS CAL-AMT ( PPBV) | ON-COL ( PPBV) | TARGET RANGE | RATIO |
|---|---|---|---|---|---|---|---|
| 84 Tetrachloroethene | | | | | CAS #: 127-18-4 | | |
| 20.365 | 20.365 (0.942) | 166 | 475298 | 5.00000 | 5.038 | 80.00- 120.00 | 100.00 |
| 20.365 | 20.365 (0.942) | 129 | 368527 | | | 0.00- 30.00 | 77.54 |
| 20.365 | 20.365 (0.942) | 131 | 365759 | | | 0.00- 30.00 | 76.95 |
| 85 2-Hexanone | | | | | CAS #: 591-78-6 | | |
| 20.496 | 20.496 (0.948) | 58 | 424121 | 5.00000 | 5.171 | 80.00- 120.00 | 100.00 |
| 20.496 | 20.496 (0.948) | 43 | 762692 | | | 0.00- 30.00 | 179.83 |
| 20.496 | 20.496 (0.948) | 100 | 84083 | | | 0.00- 30.00 | 19.83 |
| 86 Dibromochloromethane | | | | | CAS #: 124-48-1 | | |
| 20.821 | 20.821 (0.963) | 129 | 644128 | 5.00000 | 5.337 | 80.00- 120.00 | 100.00 |
| 20.821 | 20.821 (0.963) | 127 | 496979 | | | 0.00- 30.00 | 77.16 |
| 87 1,2-Dibromoethane | | | | | CAS #: 106-93-4 | | |
| 21.048 | 21.048 (0.974) | 107 | 598113 | 5.00000 | 5.128 | 80.00- 120.00 | 100.00 |
| 21.048 | 21.048 (0.974) | 109 | 558930 | | | 0.00- 30.00 | 93.45 |
| 89 Chlorobenzene | | | | | CAS #: 108-90-7 | | |
| 21.663 | 21.663 (1.002) | 112 | 828476 | 5.00000 | 4.989 | 80.00- 120.00 | 100.00 |
| 21.663 | 21.663 (1.002) | 114 | 262771 | | | 0.00- 30.00 | 31.72 |
| 21.663 | 21.663 (1.002) | 77 | 515355 | | | 32.21- 92.21 | 62.21 |
| 91 Ethyl Benzene | | | | | CAS #: 100-41-4 | | |
| 21.711 | 21.711 (1.004) | 106 | 415841 | 5.00000 | 4.881 | 80.00- 120.00 | 100.00 |
| 21.711 | 21.711 (1.004) | 91 | 1335153 | | | 0.00- 30.00 | 321.07 |
| 93 m,p-Xylene | | | | | CAS #: 108-38-3 | | |
| 21.879 | 21.879 (1.012) | 106 | 451914 | 5.00000 | 4.851 | 80.00- 120.00 | 100.00 |
| 21.879 | 21.879 (1.012) | 91 | 935871 | | | 0.00- 30.00 | 207.09 |
| 94 o-Xylene | | | | | CAS #: 95-47-6 | | |
| 22.409 | 22.409 (1.037) | 106 | 444394 | 5.00000 | 4.958 | 80.00- 120.00 | 100.00 |
| 22.385 | 22.385 (1.036) | 91 | 950655 | | | 0.00- 30.00 | 213.92 |
| 95 Styrene | | | | | CAS #: 100-42-5 | | |
| 22.433 | 22.433 (1.038) | 104 | 716768 | 5.00000 | 4.920 | 80.00- 120.00 | 100.00 |
| 22.409 | 22.409 (1.037) | 78 | 372948 | | | 0.00- 30.00 | 52.03 |
| 97 Bromoform | | | | | CAS #: 75-25-2 | | |
| 22.707 | 22.707 (1.051) | 173 | 535309 | 5.00000 | 5.203 | 80.00- 120.00 | 100.00 |
| 22.707 | 22.707 (1.051) | 171 | 277308 | | | 0.00- 30.00 | 51.80 |
| 98 Cumene | | | | | CAS #: 98-82-8 | | |
| 22.810 | 22.810 (1.055) | 105 | 1315616 | 5.00000 | 4.890 | 80.00- 120.00 | 100.00 |
| 22.810 | 22.810 (1.055) | 120 | 341071 | | | 0.00- 30.00 | 25.92 |

| RT | EXP RT (REL RT) | MASS | RESPONSE | AMOUNTS CAL-AMT ( PPBV) | ON-COL ( PPBV) | TARGET RANGE | RATIO |
|---|---|---|---|---|---|---|---|
| 103 1,1,2,2-Tetrachloroethane | | | | | CAS #: 79-34-5 | | |
| 23.223 | 23.223 (1.074) | 83 | 777263 | 5.00000 | 5.004 | 80.00- 120.00 | 100.00 |
| 23.223 | 23.223 (1.074) | 85 | 498361 | | | 0.00- 30.00 | 64.12 |
| 104 Propylbenzene | | | | | CAS #: 103-65-1 | | |
| 23.300 | 23.300 (1.078) | 91 | 1307333 | 5.00000 | 4.696 | 80.00- 120.00 | 100.00 |
| 23.300 | 23.300 (1.078) | 120 | 296642 | | | 0.00- 30.00 | 22.69 |
| 107 4-Ethyltoluene | | | | | CAS #: 622-96-8 | | |
| 23.403 | 23.403 (1.083) | 105 | 1196827 | 5.00000 | 4.710 | 80.00- 120.00 | 100.00 |
| 23.403 | 23.403 (1.083) | 120 | 362020 | | | 0.00- 30.00 | 30.25 |
| 109 1,3,5-Trimethylbenzene | | | | | CAS #: 108-67-8 | | |
| 23.481 | 23.481 (1.086) | 105 | 983642 | 5.00000 | 4.900 | 80.00- 120.00 | 100.00 |
| 23.481 | 23.481 (1.086) | 120 | 473742 | | | 0.00- 30.00 | 48.16 |
| 112 1,2,4-Trimethylbenzene | | | | | CAS #: 95-63-6 | | |
| 23.893 | 23.893 (1.105) | 105 | 896008 | 5.00000 | 4.783 | 80.00- 120.00 | 100.00 |
| 23.893 | 23.893 (1.105) | 120 | 400621 | | | 0.00- 30.00 | 44.71 |
| 115 1,3-Dichlorobenzene | | | | | CAS #: 541-73-1 | | |
| 24.280 | 24.280 (1.123) | 146 | 567022 | 5.00000 | 4.306 | 80.00- 120.00 | 100.00 |
| 24.280 | 24.280 (1.123) | 148 | 359611 | | | 0.00- 30.00 | 63.42 |
| 24.280 | 24.280 (1.123) | 111 | 249196 | | | 0.00- 30.00 | 43.95 |
| 117 1,4-Dichlorobenzene | | | | | CAS #: 106-46-7 | | |
| 24.383 | 24.383 (1.128) | 146 | 525253 | 5.00000 | 4.442 | 80.00- 120.00 | 100.00 |
| 24.383 | 24.383 (1.128) | 148 | 330563 | | | 0.00- 30.00 | 62.93 |
| 24.383 | 24.383 (1.128) | 111 | 223972 | | | 0.00- 30.00 | 42.64 |
| 118 alpha-chlorotoluene | | | | | CAS #: 100-44-7 | | |
| 24.512 | 24.512 (1.134) | 91 | 903903 | 5.00000 | 4.967 | 80.00- 120.00 | 100.00 |
| 24.512 | 24.512 (1.134) | 126 | 176737 | | | 0.00- 30.00 | 19.55 |
| 121 1,2-Dichlorobenzene | | | | | CAS #: 95-50-1 | | |
| 24.796 | 24.796 (1.147) | 146 | 511401 | 5.00000 | 4.414 | 80.00- 120.00 | 100.00 |
| 24.796 | 24.796 (1.147) | 148 | 315075 | | | 31.61- 91.61 | 61.61 |
| 24.796 | 24.796 (1.147) | 111 | 230279 | | | 15.03- 75.03 | 45.03 |
| 126 1,2,4-Trichlorobenzene | | | | | CAS #: 120-82-1 | | |
| 26.550 | 26.550 (1.228) | 180 | 238520 | 5.00000 | 3.579 | 80.00- 120.00 | 100.00 |
| 26.550 | 26.550 (1.228) | 182 | 230780 | | | 0.00- 30.00 | 96.75 |
| 128 Hexachlorobutadiene | | | | | CAS #: 87-68-3 | | |
| 26.653 | 26.653 (1.233) | 225 | 177672 | 5.00000 | 3.575 | 80.00- 120.00 | 100.00 |
| 26.653 | 26.653 (1.233) | 223 | 112251 | | | 0.00- 30.00 | 63.18 |

| | | | | AMOUNTS | | | |
|---|---|---|---|---|---|---|---|
| | | | | CAL-AMT | ON-COL | | |
| RT | EXP RT (REL RT) | MASS | RESPONSE | ( PPBV) | ( PPBV) | TARGET RANGE | RATIO |
| == | ====== ======== | ==== | ======== | ======= | ======= | ========== | ===== |
| 129 Naphthalene | | | | | CAS #: 91-20-3 | | |
| 26.885 | 26.885 (1.244) | 128 | 486280 | 5.00000 | 3.496 | 80.00- 120.00 | 100.00 |
| 26.885 | 26.885 (1.244) | 127 | 61661 | | | 0.00- 30.00 | 12.68 |

Report Date: 29-Aug-2011 10:21

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msda.i
Lab File ID: a081809.d
Lab Smp Id: ICAL
Analysis Type: VOA
Quant Type: ISTD
Operator: jc
Method File: /chem/msda.i/18Aug2011.b/a11l0818a.m
Misc Info: 5.0ppbv (50ppbv)

Calibration Date: 18-AUG-2011
Calibration Time: 17:09
Client Smp ID: Level 8
Level: LOW
Sample Type: AIR

| | | AREA LIMIT | | | |
|---|---|---|---|---|---|
| COMPOUND | STANDARD | LOWER | UPPER | SAMPLE | %DIFF |
| 52 Bromochloromethan | 220017 | 132010 | 308024 | 220017 | 0.00 |
| 66 1,4-Difluorobenze | 1019583 | 611750 | 1427416 | 1019583 | 0.00 |
| 88 Chlorobenzene-d5 | 873528 | 524117 | 1222939 | 873528 | 0.00 |

| | | RT LIMIT | | | |
|---|---|---|---|---|---|
| COMPOUND | STANDARD | LOWER | UPPER | SAMPLE | %DIFF |
| 52 Bromochloromethan | 15.41 | 15.08 | 15.74 | 15.41 | 0.00 |
| 66 1,4-Difluorobenze | 16.83 | 16.50 | 17.16 | 16.83 | 0.00 |
| 88 Chlorobenzene-d5 | 21.61 | 21.28 | 21.94 | 21.61 | 0.00 |

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Data File: /chem/msda.i/18Aug2011.b/a081809.d



Date : 18-AUG-2011 17:09

Client ID: Level 8

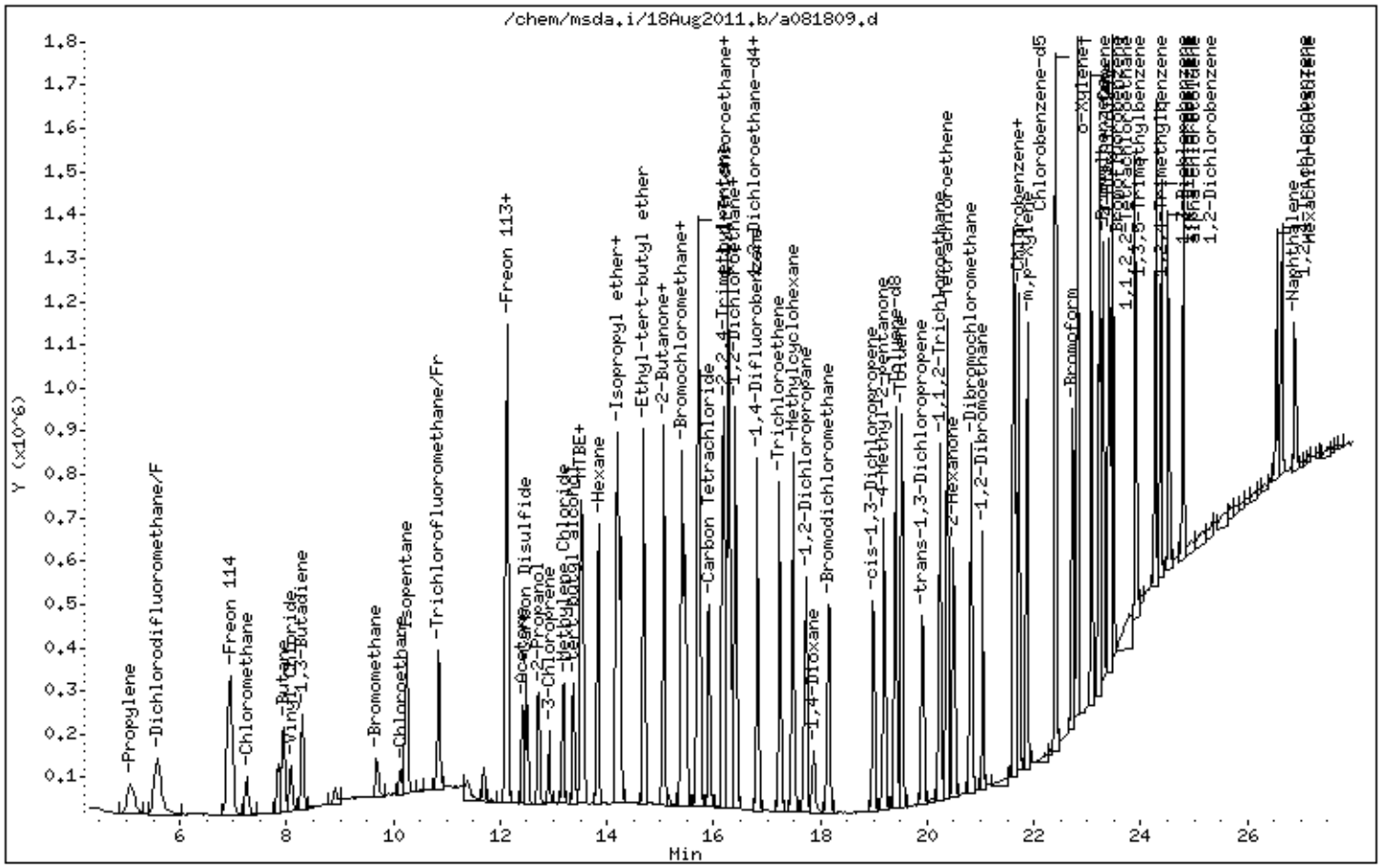
Instrument: msda.i

Sample Info: 25mL #2296-84

Operator: jc

Column phase: RTx-624

Column diameter: 0.32



Air Toxics Ltd.

AMBIENT AIR METHOD TO14/TO15

Data file : /chem/msda.i/18Aug2011.b/a081810.d
Lab Smp Id: ICAL Client Smp ID: Level 9
Inj Date : 18-AUG-2011 17:44
Operator : jc Inst ID: msda.i
Smp Info : 50mL #2296-84
Misc Info : 10.0ppbv (50ppbv)
Comment :
Method : /chem/msda.i/18Aug2011.b/a11l0818a.m
Meth Date : 29-Aug-2011 10:21 croush Quant Type: ISTD
Cal Date : 18-AUG-2011 17:44 Cal File: a081810.d
Als bottle: 19 Calibration Sample, Level: 9
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: HILOcrvFULL.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

| | | | | AMOUNTS | | | |
|---|---|---|---|---|---|---|---|
| | | | | CAL-AMT | ON-COL | | |
| RT | EXP RT (REL RT) | MASS | RESPONSE | ( PPBV) | ( PPBV) | TARGET RANGE | RATIO |
| == | ====== ======== | ==== | ======== | ======= | ======= | ========== | ===== |
| * 52 Bromochloromethane | | | | | | CAS #: 74-97-5 | |
| 15.406 | 15.406 (1.000) | 130 | 212523 | 10.0000 | | 70.00- 130.00 | 100.00 |
| 15.406 | 15.406 (1.000) | 128 | 167962 | | | 49.03- 109.03 | 79.03 |
| 15.406 | 15.406 (1.000) | 49 | 440247 | | | 177.15- 237.15 | 207.15 |
| * 66 1,4-Difluorobenzene | | | | | | CAS #: 540-36-3 | |
| 16.825 | 16.825 (1.000) | 114 | 1011469 | 10.0000 | | 70.00- 130.00 | 100.00 |
| 16.825 | 16.825 (1.000) | 88 | 173346 | | | 0.00- 47.14 | 17.14 |
| * 88 Chlorobenzene-d5 | | | | | | CAS #: 3114-55-4 | |
| 21.614 | 21.614 (1.000) | 117 | 861533 | 10.0000 | | 70.00- 130.00 | 100.00 |
| 21.614 | 21.614 (1.000) | 82 | 508736 | | | 29.05- 89.05 | 59.05 |
| $ 61 1,2-Dichloroethane-d4 | | | | | | CAS #: 17060-07-0 | |
| 16.276 | 16.276 (1.056) | 65 | 398432 | 10.0000 | 10.418 | 70.00- 130.00 | 100.00 |
| 16.276 | 16.276 (1.056) | 67 | 203865 | | | 21.17- 81.17 | 51.17 |
| $ 80 Toluene-d8 | | | | | | CAS #: 2037-26-5 | |
| 19.411 | 19.411 (1.154) | 98 | 979691 | 10.0000 | 9.963 | 70.00- 130.00 | 100.00 |
| 19.411 | 19.411 (1.154) | 70 | 117151 | | | 0.00- 41.96 | 11.96 |

| RT | EXP RT (REL RT) | MASS | RESPONSE | AMOUNTS CAL-AMT ( PPBV) | ON-COL ( PPBV) | TARGET RANGE | RATIO |
|---|---|---|---|---|---|---|---|
| $ 80 Toluene-d8 (continued) | | | | | | | |
| 19.411 | 19.411 (1.154) | 100 | 660497 | | | 37.42- 97.42 | 67.42 |
| $ 100 Bromofluorobenzene | | | | | CAS #: 460-00-4 | | |
| 23.068 | 23.068 (1.067) | 174 | 439965 | 10.0000 | 9.805 | 70.00- 130.00 | 100.00 |
| 23.068 | 23.068 (1.067) | 95 | 664339 | | | 121.00- 181.00 | 151.00 |
| 23.068 | 23.068 (1.067) | 176 | 425823 | | | 66.79- 126.79 | 96.79 |
| 2 Propylene | | | | | CAS #: 115-07-1 | | |
| 5.155 | 5.155 (0.335) | 41 | 420147 | 10.0000 | 9.229 | 70.00- 130.00 | 100.00 |
| 5.155 | 5.155 (0.335) | 42 | 280896 | | | 36.86- 96.86 | 66.86 |
| 5.155 | 5.155 (0.335) | 39 | 300374 | | | 41.49- 101.49 | 71.49 |
| 4 Dichlorodifluoromethane/Fr12 | | | | | CAS #: 75-71-8 | | |
| 5.637 | 5.637 (0.366) | 85 | 1324835 | 10.0000 | 9.488 | 70.00- 130.00 | 100.00 |
| 5.637 | 5.637 (0.366) | 87 | 432410 | | | 2.64- 62.64 | 32.64 |
| 6 Freon 114 | | | | | CAS #: 76-14-2 | | |
| 7.011 | 7.011 (0.455) | 135 | 835290 | 10.0000 | 9.452 | 70.00- 130.00 | 100.00 |
| 7.011 | 7.011 (0.455) | 137 | 261776 | | | 1.34- 61.34 | 31.34 |
| 6.987 | 6.987 (0.454) | 85 | 1363757 | | | 133.27- 193.27 | 163.27 |
| 7 Chloromethane | | | | | CAS #: 74-87-3 | | |
| 7.325 | 7.325 (0.475) | 50 | 466076 | 10.0000 | 9.083 | 70.00- 130.00 | 100.00 |
| 7.325 | 7.325 (0.475) | 52 | 150474 | | | 2.29- 62.29 | 32.29 |
| 9 Butane | | | | | CAS #: 106-97-8 | | |
| 7.989 | 7.989 (0.519) | 58 | 124403 | 10.0000 | 9.683 | 70.00- 130.00 | 100.00 |
| 7.989 | 7.989 (0.519) | 43 | 835258 | | | 641.41- 701.41 | 671.41 |
| 10 Vinyl Chloride | | | | | CAS #: 75-01-4 | | |
| 8.128 | 8.128 (0.528) | 62 | 543229 | 10.0000 | 9.380 | 70.00- 130.00 | 100.00 |
| 8.128 | 8.128 (0.528) | 64 | 169725 | | | 1.24- 61.24 | 31.24 |
| 11 1,3-Butadiene | | | | | CAS #: 106-99-0 | | |
| 8.336 | 8.336 (0.541) | 54 | 435626 | 10.0000 | 9.596 | 70.00- 130.00 | 100.00 |
| 8.336 | 8.336 (0.541) | 39 | 411057 | | | 64.36- 124.36 | 94.36 |
| 12 Bromomethane | | | | | CAS #: 74-83-9 | | |
| 9.721 | 9.721 (0.631) | 94 | 239178 | 10.0000 | 8.871 | 70.00- 130.00 | 100.00 |
| 9.721 | 9.721 (0.631) | 96 | 221888 | | | 62.77- 122.77 | 92.77 |
| 13 Chloroethane | | | | | CAS #: 75-00-3 | | |
| 10.177 | 10.177 (0.661) | 64 | 187806 | 10.0000 | 9.186 | 70.00- 130.00 | 100.00 |
| 10.177 | 10.177 (0.661) | 66 | 60693 | | | 2.32- 62.32 | 32.32 |

| RT | EXP RT (REL RT) | MASS | RESPONSE | AMOUNTS CAL-AMT ( PPBV) | ON-COL ( PPBV) | TARGET RANGE | RATIO |
|---|---|---|---|---|---|---|---|
| 14 Isopentane | | | | | CAS #: 78-78-4 | | |
| 10.281 | 10.281 (0.667) | 57 | 408351 | 10.0000 | 9.652 | 70.00- 130.00 | 100.00 |
| 10.281 | 10.281 (0.667) | 43 | 550078 | | | 104.71- 164.71 | 134.71 |
| 10.281 | 10.281 (0.667) | 42 | 486097 | | | 89.04- 149.04 | 119.04 |
| 16 Trichlorofluoromethane/Fr11 | | | | | CAS #: 75-69-4 | | |
| 10.882 | 10.882 (0.706) | 101 | 959799 | 10.0000 | 8.642 | 70.00- 130.00 | 100.00 |
| 10.882 | 10.882 (0.706) | 103 | 622713 | | | 34.88- 94.88 | 64.88 |
| 20 Ethanol | | | | | CAS #: 64-17-5 | | |
| 11.711 | 11.711 (0.760) | 45 | 77314 | 10.0000 | 10.041 | 70.00- 130.00 | 100.00 |
| 11.711 | 11.711 (0.760) | 43 | 20935 | | | 0.00- 57.08 | 27.08 |
| 11.711 | 11.711 (0.760) | 46 | 31599 | | | 10.87- 70.87 | 40.87 |
| 22 Freon 113 | | | | | CAS #: 76-13-1 | | |
| 12.126 | 12.126 (0.787) | 151 | 822585 | 10.0000 | 10.947 | 70.00- 130.00 | 100.00 |
| 12.126 | 12.126 (0.787) | 153 | 516581 | | | 32.80- 92.80 | 62.80 |
| 12.126 | 12.126 (0.787) | 101 | 1150695 | | | 109.89- 169.89 | 139.89 |
| 23 1,1-Dichloroethene | | | | | CAS #: 75-35-4 | | |
| 12.146 | 12.146 (0.788) | 98 | 311352 | 10.0000 | 10.085 | 70.00- 130.00 | 100.00 |
| 12.146 | 12.146 (0.788) | 61 | 880909 | | | 252.93- 312.93 | 282.93 |
| 12.146 | 12.146 (0.788) | 96 | 496382 | | | 129.43- 189.43 | 159.43 |
| 24 Acetone | | | | | CAS #: 67-64-1 | | |
| 12.437 | 12.437 (0.807) | 58 | 264250 | 10.0000 | 9.559 | 70.00- 130.00 | 100.00 |
| 12.437 | 12.437 (0.807) | 43 | 828520 | | | 283.54- 343.54 | 313.54 |
| 26 Carbon Disulfide | | | | | CAS #: 75-15-0 | | |
| 12.520 | 12.520 (0.813) | 76 | 1132411 | 10.0000 | 9.984 | 70.00- 130.00 | 100.00 |
| 28 3-Chloroprene | | | | | CAS #: 107-05-1 | | |
| 12.913 | 12.913 (0.838) | 76 | 116951 | 10.0000 | 10.219 | 70.00- 130.00 | 100.00 |
| 12.913 | 12.913 (0.838) | 41 | 354760 | | | 273.34- 333.34 | 303.34 |
| 27 2-Propanol | | | | | CAS #: 67-63-0 | | |
| 12.748 | 12.748 (0.827) | 45 | 1265508 | 10.0000 | 9.916 | 70.00- 130.00 | 100.00 |
| 12.748 | 12.748 (0.827) | 43 | 250124 | | | 0.00- 49.76 | 19.76 |
| 12.748 | 12.748 (0.827) | 59 | 51716 | | | 0.00- 34.09 | 4.09 |
| 33 Methylene Chloride | | | | | CAS #: 75-09-2 | | |
| 13.187 | 13.187 (0.856) | 84 | 415007 | 10.0000 | 8.649 | 70.00- 130.00 | 100.00 |
| 13.187 | 13.187 (0.856) | 49 | 589325 | | | 112.00- 172.00 | 142.00 |
| 13.187 | 13.187 (0.856) | 51 | 178850 | | | 13.10- 73.10 | 43.10 |
| 34 tert-butyl alcohol | | | | | CAS #: 75-65-0 | | |
| 13.407 | 13.407 (0.870) | 59 | 927121 | 10.0000 | 10.936 | 70.00- 130.00 | 100.00 |

| RT | EXP RT (REL RT) | MASS | RESPONSE | AMOUNTS CAL-AMT ( PPBV) | ON-COL ( PPBV) | TARGET RANGE | RATIO |
|---|---|---|---|---|---|---|---|
| 34 tert-butyl alcohol (continued) | | | | | | | |
| 13.407 | 13.407 (0.870) | 41 | 168742 | | | 0.00- 48.20 | 18.20 |
| 13.407 | 13.407 (0.870) | 57 | 79635 | | | 0.00- 38.59 | 8.59 |
| 35 MTBE | | | | | CAS #: 1634-04-4 | | |
| 13.517 | 13.517 (0.877) | 73 | 1550448 | 10.0000 | 9.746 | 70.00- 130.00 | 100.00 |
| 13.517 | 13.517 (0.877) | 57 | 398391 | | | 0.00- 55.70 | 25.70 |
| 13.517 | 13.517 (0.877) | 41 | 393013 | | | 0.00- 55.35 | 25.35 |
| 36 trans-1,2-Dichloroethene | | | | | CAS #: 156-60-5 | | |
| 13.544 | 13.544 (0.879) | 98 | 337201 | 10.0000 | 9.552 | 70.00- 130.00 | 100.00 |
| 13.544 | 13.544 (0.879) | 61 | 817394 | | | 212.41- 272.41 | 242.41 |
| 13.544 | 13.544 (0.879) | 96 | 533707 | | | 128.28- 188.28 | 158.28 |
| 40 Hexane | | | | | CAS #: 110-54-3 | | |
| 13.846 | 13.846 (0.899) | 57 | 995743 | 10.0000 | 9.362 | 70.00- 130.00 | 100.00 |
| 13.846 | 13.846 (0.899) | 43 | 631055 | | | 33.38- 93.38 | 63.38 |
| 13.846 | 13.846 (0.899) | 86 | 163566 | | | 0.00- 46.43 | 16.43 |
| 41 Isopropyl ether | | | | | CAS #: 108-20-3 | | |
| 14.203 | 14.203 (0.922) | 45 | 2157296 | 10.0000 | 9.912 | 70.00- 130.00 | 100.00 |
| 14.203 | 14.203 (0.922) | 87 | 537888 | | | 0.00- 54.93 | 24.93 |
| 14.203 | 14.203 (0.922) | 59 | 245592 | | | 0.00- 41.38 | 11.38 |
| 42 1,1-Dichloroethane | | | | | CAS #: 75-34-3 | | |
| 14.258 | 14.258 (0.926) | 63 | 1022545 | 10.0000 | 10.230 | 70.00- 130.00 | 100.00 |
| 14.258 | 14.258 (0.926) | 65 | 329684 | | | 2.24- 62.24 | 32.24 |
| 44 Vinyl Acetate | | | | | CAS #: 108-05-4 | | |
| 14.286 | 14.286 (0.927) | 86 | 122311 | 10.0000 | 10.693 | 70.00- 130.00 | 100.00 |
| 14.286 | 14.286 (0.927) | 42 | 124510 | | | 71.80- 131.80 | 101.80 |
| 14.286 | 14.286 (0.927) | 43 | 1479812 | | | 1179.88-1239.88 | 1209.88 |
| 46 Ethyl-tert-butyl ether | | | | | CAS #: 637-92-3 | | |
| 14.692 | 14.692 (0.954) | 59 | 2050652 | 10.0000 | 9.859 | 70.00- 130.00 | 100.00 |
| 14.692 | 14.692 (0.954) | 87 | 788708 | | | 8.46- 68.46 | 38.46 |
| 14.692 | 14.692 (0.954) | 41 | 361924 | | | 0.00- 47.65 | 17.65 |
| 48 2-Butanone | | | | | CAS #: 78-93-3 | | |
| 15.086 | 15.086 (0.979) | 72 | 383419 | 10.0000 | 12.103 | 70.00- 130.00 | 100.00 |
| 15.086 | 15.086 (0.979) | 43 | 1260765 | | | 298.82- 358.82 | 328.82 |
| 15.086 | 15.086 (0.979) | 57 | 100053 | | | 0.00- 56.09 | 26.09 |
| 47 cis-1,2-Dichloroethene | | | | | CAS #: 156-59-2 | | |
| 15.065 | 15.065 (0.978) | 98 | 373781 | 10.0000 | 9.506 | 70.00- 130.00 | 100.00 |
| 15.065 | 15.065 (0.978) | 61 | 827896 | | | 191.49- 251.49 | 221.49 |

| RT | EXP RT (REL RT) | MASS | RESPONSE | AMOUNTS CAL-AMT ( PPBV) | AMOUNTS ON-COL ( PPBV) | TARGET RANGE | RATIO |
|---|---|---|---|---|---|---|---|
| 47 cis-1,2-Dichloroethene (continued) | | | | | | | |
| 15.065 | 15.065 (0.978) | 96 | 588739 | | | 127.51- 187.51 | 157.51 |
| 51 Tetrahydrofuran | | | | | CAS #: 109-99-9 | | |
| 15.436 | 15.436 (1.002) | 42 | 701993 | 10.0000 | 10.034 | 70.00- 130.00 | 100.00 |
| 15.436 | 15.436 (1.002) | 71 | 258871 | | | 6.88- 66.88 | 36.88 |
| 15.436 | 15.436 (1.002) | 72 | 287795 | | | 11.00- 71.00 | 41.00 |
| 53 Chloroform | | | | | CAS #: 67-66-3 | | |
| 15.467 | 15.467 (1.004) | 83 | 1157827 | 10.0000 | 9.580 | 70.00- 130.00 | 100.00 |
| 15.467 | 15.467 (1.004) | 85 | 746259 | | | 34.45- 94.45 | 64.45 |
| 56 1,1,1-Trichloroethane | | | | | CAS #: 71-55-6 | | |
| 15.745 | 15.745 (1.022) | 97 | 1239482 | 10.0000 | 9.599 | 70.00- 130.00 | 100.00 |
| 15.745 | 15.745 (1.022) | 99 | 797875 | | | 34.37- 94.37 | 64.37 |
| 55 Cyclohexane | | | | | CAS #: 110-82-7 | | |
| 15.714 | 15.714 (1.020) | 84 | 847148 | 10.0000 | 9.551 | 70.00- 130.00 | 100.00 |
| 15.714 | 15.714 (1.020) | 56 | 1084282 | | | 97.99- 157.99 | 127.99 |
| 15.714 | 15.714 (1.020) | 41 | 575574 | | | 37.94- 97.94 | 67.94 |
| 57 Carbon Tetrachloride | | | | | CAS #: 56-23-5 | | |
| 15.930 | 15.930 (1.034) | 119 | 1038999 | 10.0000 | 10.733 | 70.00- 130.00 | 100.00 |
| 15.930 | 15.930 (1.034) | 117 | 1085641 | | | 74.49- 134.49 | 104.49 |
| 59 2,2,4-Trimethylpentane | | | | | CAS #: 540-84-1 | | |
| 16.194 | 16.194 (1.051) | 56 | 1034328 | 10.0000 | 7.603 | 70.00- 130.00 | 100.00 |
| 16.194 | 16.194 (1.051) | 57 | 3048285 | | | 264.71- 324.71 | 294.71 |
| 16.194 | 16.194 (1.051) | 41 | 1085728 | | | 74.97- 134.97 | 104.97 |
| 60 Benzene | | | | | CAS #: 71-43-2 | | |
| 16.276 | 16.276 (0.967) | 78 | 1787294 | 10.0000 | 9.514 | 70.00- 130.00 | 100.00 |
| 16.276 | 16.276 (0.967) | 77 | 413650 | | | 0.00- 53.14 | 23.14 |
| 62 tert-amyl methyl ether | | | | | CAS #: 994-05-8 | | |
| 16.303 | 16.303 (0.969) | 87 | 428144 | 10.0000 | 9.928 | 70.00- 130.00 | 100.00 |
| 16.303 | 16.303 (0.969) | 73 | 1793424 | | | 388.88- 448.88 | 418.88 |
| 16.303 | 16.303 (0.969) | 55 | 493390 | | | 85.24- 145.24 | 115.24 |
| 63 1,2-Dichloroethane | | | | | CAS #: 107-06-2 | | |
| 16.386 | 16.386 (0.974) | 62 | 864929 | 10.0000 | 9.742 | 70.00- 130.00 | 100.00 |
| 16.386 | 16.386 (0.974) | 64 | 277387 | | | 2.07- 62.07 | 32.07 |
| 64 Heptane | | | | | CAS #: 142-82-5 | | |
| 16.413 | 16.413 (0.976) | 57 | 597223 | 10.0000 | 9.538 | 70.00- 130.00 | 100.00 |
| 16.413 | 16.413 (0.976) | 100 | 245837 | | | 11.16- 71.16 | 41.16 |

| RT | EXP RT (REL RT) | MASS | RESPONSE | AMOUNTS CAL-AMT ( PPBV) | ON-COL ( PPBV) | TARGET RANGE | RATIO |
|---|---|---|---|---|---|---|---|
| 64 Heptane (continued) | | | | | | | |
| 16.413 | 16.413 (0.976) | 43 | 1124370 | | | 158.27- 218.27 | 188.27 |
| 67 Trichloroethene | | | | | CAS #: 79-01-6 | | |
| 17.237 | 17.237 (1.024) | 130 | 775610 | 10.0000 | 9.668 | 70.00- 130.00 | 100.00 |
| 17.237 | 17.237 (1.024) | 95 | 816550 | | | 75.28- 135.28 | 105.28 |
| 17.237 | 17.237 (1.024) | 97 | 519736 | | | 37.01- 97.01 | 67.01 |
| 69 Methylcyclohexane | | | | | CAS #: 108-87-2 | | |
| 17.484 | 17.484 (1.039) | 83 | 1100772 | 10.0000 | 9.887 | 70.00- 130.00 | 100.00 |
| 17.484 | 17.484 (1.039) | 98 | 523815 | | | 17.59- 77.59 | 47.59 |
| 17.484 | 17.484 (1.039) | 55 | 967430 | | | 57.89- 117.89 | 87.89 |
| 72 1,2-Dichloropropane | | | | | CAS #: 78-87-5 | | |
| 17.731 | 17.731 (1.054) | 63 | 696980 | 10.0000 | 9.340 | 70.00- 130.00 | 100.00 |
| 17.731 | 17.731 (1.054) | 62 | 510332 | | | 43.22- 103.22 | 73.22 |
| 17.731 | 17.731 (1.054) | 41 | 410102 | | | 28.84- 88.84 | 58.84 |
| 74 1,4-Dioxane | | | | | CAS #: 123-91-1 | | |
| 17.868 | 17.868 (1.062) | 88 | 440291 | 10.0000 | 9.894 | 70.00- 130.00 | 100.00 |
| 17.868 | 17.868 (1.062) | 58 | 334708 | | | 46.02- 106.02 | 76.02 |
| 17.868 | 17.868 (1.062) | 57 | 103665 | | | 0.00- 53.54 | 23.54 |
| 76 Bromodichloromethane | | | | | CAS #: 75-27-4 | | |
| 18.170 | 18.170 (1.080) | 83 | 1304670 | 10.0000 | 10.149 | 70.00- 130.00 | 100.00 |
| 18.170 | 18.170 (1.080) | 85 | 834432 | | | 33.96- 93.96 | 63.96 |
| 77 cis-1,3-Dichloropropene | | | | | CAS #: 10061-01-5 | | |
| 19.008 | 19.008 (1.130) | 75 | 1004823 | 10.0000 | 9.852 | 70.00- 130.00 | 100.00 |
| 19.008 | 19.008 (1.130) | 77 | 321433 | | | 1.99- 61.99 | 31.99 |
| 19.008 | 19.008 (1.130) | 39 | 528725 | | | 22.62- 82.62 | 52.62 |
| 78 4-Methyl-2-pentanone | | | | | CAS #: 108-10-1 | | |
| 19.187 | 19.187 (1.140) | 43 | 1405408 | 10.0000 | 9.109 | 70.00- 130.00 | 100.00 |
| 19.187 | 19.187 (1.140) | 58 | 566585 | | | 10.31- 70.31 | 40.31 |
| 19.187 | 19.187 (1.140) | 85 | 234113 | | | 0.00- 46.66 | 16.66 |
| 81 Toluene | | | | | CAS #: 108-88-3 | | |
| 19.524 | 19.524 (1.160) | 91 | 2038948 | 10.0000 | 9.490 | 70.00- 130.00 | 100.00 |
| 19.524 | 19.524 (1.160) | 92 | 1227010 | | | 30.18- 90.18 | 60.18 |
| 82 trans-1,3-Dichloropropene | | | | | CAS #: 10061-02-6 | | |
| 19.943 | 19.943 (0.923) | 75 | 1002186 | 10.0000 | 9.882 | 70.00- 130.00 | 100.00 |
| 19.943 | 19.943 (0.923) | 77 | 315809 | | | 1.51- 61.51 | 31.51 |
| 19.943 | 19.943 (0.923) | 39 | 490269 | | | 18.92- 78.92 | 48.92 |

| RT | EXP RT (REL RT) | MASS | RESPONSE | AMOUNTS CAL-AMT ( PPBV) | ON-COL ( PPBV) | TARGET RANGE | RATIO |
|---|---|---|---|---|---|---|---|
| 83 1,1,2-Trichloroethane | | | | | CAS #: 79-00-5 | | |
| 20.235 | 20.235 (0.936) | 97 | 753605 | 10.0000 | 9.337 | 70.00- 130.00 | 100.00 |
| 20.235 | 20.235 (0.936) | 99 | 467298 | | | 32.01- 92.01 | 62.01 |
| 20.235 | 20.235 (0.936) | 83 | 648625 | | | 56.07- 116.07 | 86.07 |
| 84 Tetrachloroethene | | | | | CAS #: 127-18-4 | | |
| 20.365 | 20.365 (0.942) | 166 | 898815 | 10.0000 | 9.660 | 70.00- 130.00 | 100.00 |
| 20.365 | 20.365 (0.942) | 129 | 708618 | | | 48.84- 108.84 | 78.84 |
| 20.365 | 20.365 (0.942) | 131 | 683911 | | | 46.09- 106.09 | 76.09 |
| 85 2-Hexanone | | | | | CAS #: 591-78-6 | | |
| 20.495 | 20.495 (0.948) | 58 | 807808 | 10.0000 | 9.986 | 70.00- 130.00 | 100.00 |
| 20.495 | 20.495 (0.948) | 43 | 1316013 | | | 132.91- 192.91 | 162.91 |
| 20.528 | 20.528 (0.950) | 100 | 161328 | | | 0.00- 49.97 | 19.97 |
| 86 Dibromochloromethane | | | | | CAS #: 124-48-1 | | |
| 20.821 | 20.821 (0.963) | 129 | 1240010 | 10.0000 | 10.417 | 70.00- 130.00 | 100.00 |
| 20.821 | 20.821 (0.963) | 127 | 968726 | | | 48.12- 108.12 | 78.12 |
| 87 1,2-Dibromoethane | | | | | CAS #: 106-93-4 | | |
| 21.048 | 21.048 (0.974) | 107 | 1139747 | 10.0000 | 9.909 | 70.00- 130.00 | 100.00 |
| 21.048 | 21.048 (0.974) | 109 | 1076030 | | | 64.41- 124.41 | 94.41 |
| 89 Chlorobenzene | | | | | CAS #: 108-90-7 | | |
| 21.662 | 21.662 (1.002) | 112 | 1547294 | 10.0000 | 9.448 | 70.00- 130.00 | 100.00 |
| 21.662 | 21.662 (1.002) | 114 | 495109 | | | 2.00- 62.00 | 32.00 |
| 21.662 | 21.662 (1.002) | 77 | 954074 | | | 31.66- 91.66 | 61.66 |
| 91 Ethyl Benzene | | | | | CAS #: 100-41-4 | | |
| 21.711 | 21.711 (1.004) | 106 | 788279 | 10.0000 | 9.382 | 70.00- 130.00 | 100.00 |
| 21.711 | 21.711 (1.004) | 91 | 2532105 | | | 291.22- 351.22 | 321.22 |
| 93 m,p-Xylene | | | | | CAS #: 108-38-3 | | |
| 21.879 | 21.879 (1.012) | 106 | 864356 | 10.0000 | 9.408 | 70.00- 130.00 | 100.00 |
| 21.879 | 21.879 (1.012) | 91 | 1755948 | | | 173.15- 233.15 | 203.15 |
| 94 o-Xylene | | | | | CAS #: 95-47-6 | | |
| 22.409 | 22.409 (1.037) | 106 | 836081 | 10.0000 | 9.458 | 70.00- 130.00 | 100.00 |
| 22.409 | 22.409 (1.037) | 91 | 1799260 | | | 185.20- 245.20 | 215.20 |
| 95 Styrene | | | | | CAS #: 100-42-5 | | |
| 22.433 | 22.433 (1.038) | 104 | 1370337 | 10.0000 | 9.538 | 70.00- 130.00 | 100.00 |
| 22.409 | 22.409 (1.037) | 78 | 711934 | | | 21.95- 81.95 | 51.95 |
| 97 Bromoform | | | | | CAS #: 75-25-2 | | |
| 22.707 | 22.707 (1.051) | 173 | 1051100 | 10.0000 | 10.359 | 70.00- 130.00 | 100.00 |

| RT | EXP RT (REL RT) | MASS | RESPONSE | AMOUNTS CAL-AMT ( PPBV) | ON-COL ( PPBV) | TARGET RANGE | RATIO |
|---|---|---|---|---|---|---|---|
| 97 Bromoform (continued) | | | | | | | |
| 22.707 | 22.707 (1.051) | 171 | 547814 | | | 22.12- 82.12 | 52.12 |
| 98 Cumene | | | | | CAS #: 98-82-8 | | |
| 22.810 | 22.810 (1.055) | 105 | 2471698 | 10.0000 | 9.314 | 70.00- 130.00 | 100.00 |
| 22.810 | 22.810 (1.055) | 120 | 645768 | | | 0.00- 56.13 | 26.13 |
| 103 1,1,2,2-Tetrachloroethane | | | | | CAS #: 79-34-5 | | |
| 23.223 | 23.223 (1.074) | 83 | 1460029 | 10.0000 | 9.531 | 70.00- 130.00 | 100.00 |
| 23.223 | 23.223 (1.074) | 85 | 940780 | | | 34.44- 94.44 | 64.44 |
| 104 Propylbenzene | | | | | CAS #: 103-65-1 | | |
| 23.300 | 23.300 (1.078) | 91 | 2474677 | 10.0000 | 9.012 | 70.00- 130.00 | 100.00 |
| 23.300 | 23.300 (1.078) | 120 | 554356 | | | 0.00- 52.40 | 22.40 |
| 107 4-Ethyltoluene | | | | | CAS #: 622-96-8 | | |
| 23.403 | 23.403 (1.083) | 105 | 2235561 | 10.0000 | 8.921 | 70.00- 130.00 | 100.00 |
| 23.403 | 23.403 (1.083) | 120 | 677512 | | | 0.31- 60.31 | 30.31 |
| 109 1,3,5-Trimethylbenzene | | | | | CAS #: 108-67-8 | | |
| 23.481 | 23.481 (1.086) | 105 | 1859808 | 10.0000 | 9.394 | 70.00- 130.00 | 100.00 |
| 23.481 | 23.481 (1.086) | 120 | 897561 | | | 18.26- 78.26 | 48.26 |
| 112 1,2,4-Trimethylbenzene | | | | | CAS #: 95-63-6 | | |
| 23.893 | 23.893 (1.105) | 105 | 1664739 | 10.0000 | 9.010 | 70.00- 130.00 | 100.00 |
| 23.893 | 23.893 (1.105) | 120 | 753360 | | | 15.25- 75.25 | 45.25 |
| 115 1,3-Dichlorobenzene | | | | | CAS #: 541-73-1 | | |
| 24.280 | 24.280 (1.123) | 146 | 1106517 | 10.0000 | 8.519 | 70.00- 130.00 | 100.00 |
| 24.280 | 24.280 (1.123) | 148 | 703276 | | | 33.56- 93.56 | 63.56 |
| 24.280 | 24.280 (1.123) | 111 | 494409 | | | 14.68- 74.68 | 44.68 |
| 117 1,4-Dichlorobenzene | | | | | CAS #: 106-46-7 | | |
| 24.383 | 24.383 (1.128) | 146 | 1015720 | 10.0000 | 8.710 | 70.00- 130.00 | 100.00 |
| 24.383 | 24.383 (1.128) | 148 | 643908 | | | 33.39- 93.39 | 63.39 |
| 24.383 | 24.383 (1.128) | 111 | 433724 | | | 12.70- 72.70 | 42.70 |
| 118 alpha-chlorotoluene | | | | | CAS #: 100-44-7 | | |
| 24.512 | 24.512 (1.134) | 91 | 1822383 | 10.0000 | 10.154 | 70.00- 130.00 | 100.00 |
| 24.512 | 24.512 (1.134) | 126 | 352946 | | | 0.00- 49.37 | 19.37 |
| 121 1,2-Dichlorobenzene | | | | | CAS #: 95-50-1 | | |
| 24.796 | 24.796 (1.147) | 146 | 1006469 | 10.0000 | 8.809 | 70.00- 130.00 | 100.00 |
| 24.796 | 24.796 (1.147) | 148 | 627844 | | | 32.38- 92.38 | 62.38 |
| 24.796 | 24.796 (1.147) | 111 | 467378 | | | 16.44- 76.44 | 46.44 |

| RT | EXP RT (REL RT) | MASS | RESPONSE | AMOUNTS CAL-AMT ( PPBV) | AMOUNTS ON-COL ( PPBV) | TARGET RANGE | RATIO |
|---|---|---|---|---|---|---|---|
| 126 1,2,4-Trichlorobenzene | | | | | CAS #: 120-82-1 | | |
| 26.550 | 26.550 (1.228) | 180 | 620410 | 10.0000 | 9.439 | 70.00- 130.00 | 100.00 |
| 26.550 | 26.550 (1.228) | 182 | 576711 | | | 62.96- 122.96 | 92.96 |
| 128 Hexachlorobutadiene | | | | | CAS #: 87-68-3 | | |
| 26.653 | 26.653 (1.233) | 225 | 457851 | 10.0000 | 9.341 | 70.00- 130.00 | 100.00 |
| 26.653 | 26.653 (1.233) | 223 | 293745 | | | 34.16- 94.16 | 64.16 |
| 129 Naphthalene | | | | | CAS #: 91-20-3 | | |
| 26.885 | 26.885 (1.244) | 128 | 1249888 | 10.0000 | 9.111 | 70.00- 130.00 | 100.00 |
| 26.885 | 26.885 (1.244) | 127 | 158542 | | | 0.00- 42.68 | 12.68 |

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msda.i
Lab File ID: a081810.d
Lab Smp Id: ICAL
Analysis Type: VOA
Quant Type: ISTD
Operator: jc
Method File: /chem/msda.i/18Aug2011.b/a11l0818a.m
Misc Info: 10.0ppbv (50ppbv)

Calibration Date: 18-AUG-2011
Calibration Time: 17:09
Client Smp ID: Level 9
Level: LOW
Sample Type: AIR

| | | AREA LIMIT | | | |
|---|---|---|---|---|---|
| COMPOUND | STANDARD | LOWER | UPPER | SAMPLE | %DIFF |
| 52 Bromochloromethan | 220017 | 132010 | 308024 | 212523 | -3.41 |
| 66 1,4-Difluorobenze | 1019583 | 611750 | 1427416 | 1011469 | -0.80 |
| 88 Chlorobenzene-d5 | 873528 | 524117 | 1222939 | 861533 | -1.37 |

| | | RT LIMIT | | | |
|---|---|---|---|---|---|
| COMPOUND | STANDARD | LOWER | UPPER | SAMPLE | %DIFF |
| 52 Bromochloromethan | 15.41 | 15.08 | 15.74 | 15.41 | 0.00 |
| 66 1,4-Difluorobenze | 16.83 | 16.50 | 17.16 | 16.82 | 0.00 |
| 88 Chlorobenzene-d5 | 21.61 | 21.28 | 21.94 | 21.61 | 0.00 |

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Data File: /chem/msda.i/18Aug2011.b/a081810.d

Date : 18-AUG-2011 17:44

Client ID: Level 9

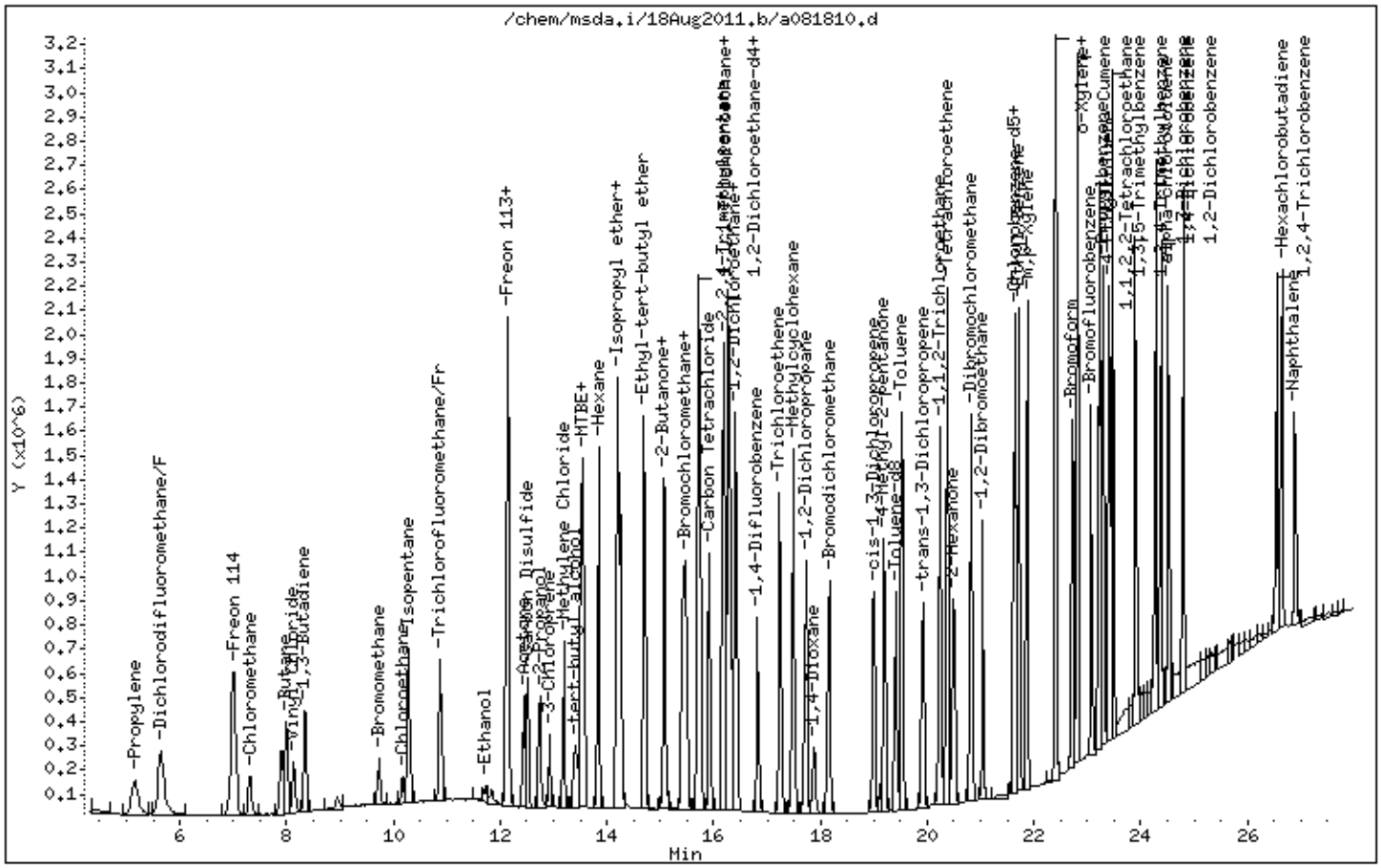
Instrument: msda.i

Sample Info: 50mL #2296-84

Operator: jc

Column phase: RTx-624

Column diameter: 0.32



Air Toxics Ltd.

AMBIENT AIR METHOD TO14/TO15

Data file : /chem/msda.i/18Aug2011.b/a081811.d
Lab Smp Id: ICAL Client Smp ID: Level 10
Inj Date : 18-AUG-2011 18:19
Operator : jc Inst ID: msda.i
Smp Info : 100mL #2296-84
Misc Info : 20.0ppbv (50ppbv)
Comment :
Method : /chem/msda.i/18Aug2011.b/a11l0818a.m
Meth Date : 29-Aug-2011 10:21 croush Quant Type: ISTD
Cal Date : 18-AUG-2011 18:19 Cal File: a081811.d
Als bottle: 20 Calibration Sample, Level: 10
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: HILOcrvFULL.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

| | | | | AMOUNTS | | | |
|---|---|---|---|---|---|---|---|
| | | | | CAL-AMT | ON-COL | | |
| RT | EXP RT (REL RT) | MASS | RESPONSE | ( PPBV) | ( PPBV) | TARGET RANGE | RATIO |
| == | ====== ======== | ==== | ======== | ======= | ======= | ========== | ===== |
| * 52 Bromochloromethane | | | | | CAS #: 74-97-5 | | |
| 15.406 | 15.406 (1.000) | 130 | 211107 | 10.0000 | | 70.00- 130.00 | 100.00 |
| 15.406 | 15.406 (1.000) | 128 | 164435 | | | 49.03- 109.03 | 77.89 |
| 15.406 | 15.406 (1.000) | 49 | 533381 | | | 177.15- 237.15 | 252.66 |
| * 66 1,4-Difluorobenzene | | | | | CAS #: 540-36-3 | | |
| 16.825 | 16.825 (1.000) | 114 | 996706 | 10.0000 | | 70.00- 130.00 | 100.00 |
| 16.825 | 16.825 (1.000) | 88 | 173429 | | | 0.00- 47.14 | 17.40 |
| * 88 Chlorobenzene-d5 | | | | | CAS #: 3114-55-4 | | |
| 21.614 | 21.614 (1.000) | 117 | 863806 | 10.0000 | | 70.00- 130.00 | 100.00 |
| 21.614 | 21.614 (1.000) | 82 | 514361 | | | 29.05- 89.05 | 59.55 |
| $ 61 1,2-Dichloroethane-d4 | | | | | CAS #: 17060-07-0 | | |
| 16.249 | 16.249 (1.055) | 65 | 387650 | 10.0000 | 10.204 | 70.00- 130.00 | 100.00 |
| 16.249 | 16.249 (1.055) | 67 | 200964 | | | 21.17- 81.17 | 51.84 |
| $ 80 Toluene-d8 | | | | | CAS #: 2037-26-5 | | |
| 19.412 | 19.412 (1.154) | 98 | 985999 | 10.0000 | 10.176 | 70.00- 130.00 | 100.00 |
| 19.412 | 19.412 (1.154) | 70 | 117482 | | | 0.00- 41.96 | 11.92 |

| RT | EXP RT (REL RT) | MASS | RESPONSE | AMOUNTS CAL-AMT ( PPBV) | AMOUNTS ON-COL ( PPBV) | TARGET RANGE | RATIO |
|---|---|---|---|---|---|---|---|
| $ 80 Toluene-d8 (continued) | | | | | | | |
| 19.412 | 19.412 (1.154) | 100 | 659631 | | | 37.42- 97.42 | 66.90 |
| $ 100 Bromofluorobenzene | | | | | CAS #: 460-00-4 | | |
| 23.068 | 23.068 (1.067) | 174 | 459132 | 10.0000 | 10.205 | 70.00- 130.00 | 100.00 |
| 23.068 | 23.068 (1.067) | 95 | 688644 | | | 121.00- 181.00 | 149.99 |
| 23.068 | 23.068 (1.067) | 176 | 442417 | | | 66.79- 126.79 | 96.36 |
| 2 Propylene | | | | | CAS #: 115-07-1 | | |
| 5.131 | 5.131 (0.333) | 41 | 800379 | 20.0000 | 17.700 | 70.00- 130.00 | 100.00 |
| 5.131 | 5.131 (0.333) | 42 | 537126 | | | 36.86- 96.86 | 67.11 |
| 5.131 | 5.131 (0.333) | 39 | 562023 | | | 41.49- 101.49 | 70.22 |
| 4 Dichlorodifluoromethane/Fr12 | | | | | CAS #: 75-71-8 | | |
| 5.613 | 5.613 (0.364) | 85 | 2547832 | 20.0000 | 18.370 | 70.00- 130.00 | 100.00 |
| 5.589 | 5.589 (0.363) | 87 | 818206 | | | 2.64- 62.64 | 32.11 |
| 6 Freon 114 | | | | | CAS #: 76-14-2 | | |
| 6.963 | 6.963 (0.452) | 135 | 1590133 | 20.0000 | 18.115 | 70.00- 130.00 | 100.00 |
| 6.963 | 6.963 (0.452) | 137 | 504216 | | | 1.34- 61.34 | 31.71 |
| 6.963 | 6.963 (0.452) | 85 | 2615699 | | | 133.27- 193.27 | 164.50 |
| 7 Chloromethane | | | | | CAS #: 74-87-3 | | |
| 7.277 | 7.277 (0.472) | 50 | 891877 | 20.0000 | 17.498 | 70.00- 130.00 | 100.00 |
| 7.277 | 7.277 (0.472) | 52 | 289413 | | | 2.29- 62.29 | 32.45 |
| 9 Butane | | | | | CAS #: 106-97-8 | | |
| 7.954 | 7.954 (0.516) | 58 | 236967 | 20.0000 | 18.569 | 70.00- 130.00 | 100.00 |
| 7.954 | 7.954 (0.516) | 43 | 1597690 | | | 641.41- 701.41 | 674.22 |
| 10 Vinyl Chloride | | | | | CAS #: 75-01-4 | | |
| 8.076 | 8.076 (0.524) | 62 | 1038263 | 20.0000 | 18.048 | 70.00- 130.00 | 100.00 |
| 8.076 | 8.076 (0.524) | 64 | 322882 | | | 1.24- 61.24 | 31.10 |
| 11 1,3-Butadiene | | | | | CAS #: 106-99-0 | | |
| 8.302 | 8.302 (0.539) | 54 | 822699 | 20.0000 | 18.244 | 70.00- 130.00 | 100.00 |
| 8.302 | 8.302 (0.539) | 39 | 761601 | | | 64.36- 124.36 | 92.57 |
| 12 Bromomethane | | | | | CAS #: 74-83-9 | | |
| 9.680 | 9.680 (0.628) | 94 | 482663 | 20.0000 | 18.022 | 70.00- 130.00 | 100.00 |
| 9.680 | 9.680 (0.628) | 96 | 456846 | | | 62.77- 122.77 | 94.65 |
| 13 Chloroethane | | | | | CAS #: 75-00-3 | | |
| 10.136 | 10.136 (0.658) | 64 | 411349 | 20.0000 | 20.256 | 70.00- 130.00 | 100.00(A) |
| 10.136 | 10.136 (0.658) | 66 | 129520 | | | 2.32- 62.32 | 31.49 |

| RT | EXP RT (REL RT) | MASS | RESPONSE | AMOUNTS CAL-AMT ( PPBV) | ON-COL ( PPBV) | TARGET RANGE | RATIO |
|---|---|---|---|---|---|---|---|
| 14 Isopentane | | | | | CAS #: 78-78-4 | | |
| 10.260 | 10.260 (0.666) | 57 | 808844 | 20.0000 | 19.246 | 70.00- 130.00 | 100.00 |
| 10.260 | 10.260 (0.666) | 43 | 1103462 | | | 104.71- 164.71 | 136.42 |
| 10.260 | 10.260 (0.666) | 42 | 962721 | | | 89.04- 149.04 | 119.02 |
| 16 Trichlorofluoromethane/Fr11 | | | | | CAS #: 75-69-4 | | |
| 10.841 | 10.841 (0.704) | 101 | 1866973 | 20.0000 | 16.923 | 70.00- 130.00 | 100.00 |
| 10.841 | 10.841 (0.704) | 103 | 1207059 | | | 34.88- 94.88 | 64.65 |
| 20 Ethanol | | | | | CAS #: 64-17-5 | | |
| 11.691 | 11.691 (0.759) | 45 | 152350 | 20.0000 | 19.919 | 70.00- 130.00 | 100.00 |
| 11.691 | 11.691 (0.759) | 43 | 39167 | | | 0.00- 57.08 | 25.71 |
| 11.691 | 11.691 (0.759) | 46 | 58226 | | | 10.87- 70.87 | 38.22 |
| 22 Freon 113 | | | | | CAS #: 76-13-1 | | |
| 12.105 | 12.105 (0.786) | 151 | 703741 | 20.0000 | 9.428 | 70.00- 130.00 | 100.00 |
| 12.105 | 12.105 (0.786) | 153 | 450917 | | | 32.80- 92.80 | 64.07 |
| 12.105 | 12.105 (0.786) | 101 | 951250 | | | 109.89- 169.89 | 135.17 |
| 23 1,1-Dichloroethene | | | | | CAS #: 75-35-4 | | |
| 12.126 | 12.126 (0.787) | 98 | 243390 | 20.0000 | 7.936 | 70.00- 130.00 | 100.00 |
| 12.126 | 12.126 (0.787) | 61 | 687996 | | | 252.93- 312.93 | 282.67 |
| 12.126 | 12.126 (0.787) | 96 | 383147 | | | 129.43- 189.43 | 157.42 |
| 24 Acetone | | | | | CAS #: 67-64-1 | | |
| 12.416 | 12.416 (0.806) | 58 | 507473 | 20.0000 | 18.481 | 70.00- 130.00 | 100.00 |
| 12.416 | 12.416 (0.806) | 43 | 1570882 | | | 283.54- 343.54 | 309.55 |
| 26 Carbon Disulfide | | | | | CAS #: 75-15-0 | | |
| 12.499 | 12.499 (0.811) | 76 | 2154547 | 20.0000 | 19.123 | 70.00- 130.00 | 100.00 |
| 28 3-Chloroprene | | | | | CAS #: 107-05-1 | | |
| 12.913 | 12.913 (0.838) | 76 | 296521 | 20.0000 | 26.083 | 70.00- 130.00 | 100.00 |
| 12.913 | 12.913 (0.838) | 41 | 916923 | | | 273.34- 333.34 | 309.23 |
| 27 2-Propanol | | | | | CAS #: 67-63-0 | | |
| 12.727 | 12.727 (0.826) | 45 | 2452202 | 20.0000 | 19.343 | 70.00- 130.00 | 100.00 |
| 12.727 | 12.727 (0.826) | 43 | 471161 | | | 0.00- 49.76 | 19.21 |
| 12.727 | 12.727 (0.826) | 59 | 75253 | | | 0.00- 34.09 | 3.07 |
| 33 Methylene Chloride | | | | | CAS #: 75-09-2 | | |
| 13.160 | 13.160 (0.854) | 84 | 784189 | 20.0000 | 16.453 | 70.00- 130.00 | 100.00 |
| 13.160 | 13.160 (0.854) | 49 | 1121011 | | | 112.00- 172.00 | 142.95 |
| 13.160 | 13.160 (0.854) | 51 | 346101 | | | 13.10- 73.10 | 44.13 |
| 34 tert-butyl alcohol | | | | | CAS #: 75-65-0 | | |
| 13.380 | 13.380 (0.868) | 59 | 1360857 | 20.0000 | 16.160 | 70.00- 130.00 | 100.00 |

| RT | EXP RT (REL RT) | MASS | RESPONSE | AMOUNTS CAL-AMT ( PPBV) | AMOUNTS ON-COL ( PPBV) | TARGET RANGE | RATIO |
|---|---|---|---|---|---|---|---|
| 34 tert-butyl alcohol (continued) | | | | | | | |
| 13.380 | 13.380 (0.868) | 41 | 299607 | | | 0.00- 48.20 | 22.02 |
| 13.380 | 13.380 (0.868) | 57 | 141438 | | | 0.00- 38.59 | 10.39 |
| 35 MTBE | | | | | CAS #: 1634-04-4 | | |
| 13.517 | 13.517 (0.877) | 73 | 2928735 | 20.0000 | 18.533 | 70.00- 130.00 | 100.00 |
| 13.517 | 13.517 (0.877) | 57 | 713538 | | | 0.00- 55.70 | 24.36 |
| 13.517 | 13.517 (0.877) | 41 | 660934 | | | 0.00- 55.35 | 22.57 |
| 36 trans-1,2-Dichloroethene | | | | | CAS #: 156-60-5 | | |
| 13.544 | 13.544 (0.879) | 98 | 638254 | 20.0000 | 18.200 | 70.00- 130.00 | 100.00 |
| 13.544 | 13.544 (0.879) | 61 | 1549942 | | | 212.41- 272.41 | 242.84 |
| 13.544 | 13.544 (0.879) | 96 | 1008663 | | | 128.28- 188.28 | 158.03 |
| 40 Hexane | | | | | CAS #: 110-54-3 | | |
| 13.819 | 13.819 (0.897) | 57 | 1914275 | 20.0000 | 18.120 | 70.00- 130.00 | 100.00 |
| 13.819 | 13.819 (0.897) | 43 | 1215185 | | | 33.38- 93.38 | 63.48 |
| 13.819 | 13.819 (0.897) | 86 | 323440 | | | 0.00- 46.43 | 16.90 |
| 41 Isopropyl ether | | | | | CAS #: 108-20-3 | | |
| 14.203 | 14.203 (0.922) | 45 | 4170051 | 20.0000 | 19.288 | 70.00- 130.00 | 100.00 |
| 14.203 | 14.203 (0.922) | 87 | 1042285 | | | 0.00- 54.93 | 24.99 |
| 14.203 | 14.203 (0.922) | 59 | 476771 | | | 0.00- 41.38 | 11.43 |
| 42 1,1-Dichloroethane | | | | | CAS #: 75-34-3 | | |
| 14.231 | 14.231 (0.924) | 63 | 1911377 | 20.0000 | 19.251 | 70.00- 130.00 | 100.00 |
| 14.231 | 14.231 (0.924) | 65 | 610425 | | | 2.24- 62.24 | 31.94 |
| 44 Vinyl Acetate | | | | | CAS #: 108-05-4 | | |
| 14.258 | 14.258 (0.926) | 86 | 265739 | 20.0000 | 23.389 | 70.00- 130.00 | 100.00(A) |
| 14.258 | 14.258 (0.926) | 42 | 242875 | | | 71.80- 131.80 | 91.40 |
| 14.258 | 14.258 (0.926) | 43 | 2907944 | | | 1179.88-1239.88 | 1094.29 |
| 46 Ethyl-tert-butyl ether | | | | | CAS #: 637-92-3 | | |
| 14.692 | 14.692 (0.954) | 59 | 3954479 | 20.0000 | 19.140 | 70.00- 130.00 | 100.00 |
| 14.692 | 14.692 (0.954) | 87 | 1516889 | | | 8.46- 68.46 | 38.36 |
| 14.692 | 14.692 (0.954) | 41 | 689437 | | | 0.00- 47.65 | 17.43 |
| 48 2-Butanone | | | | | CAS #: 78-93-3 | | |
| 15.086 | 15.086 (0.979) | 72 | 580414 | 20.0000 | 18.445 | 70.00- 130.00 | 100.00 |
| 15.065 | 15.065 (0.978) | 43 | 2395785 | | | 298.82- 358.82 | 412.77 |
| 15.086 | 15.086 (0.979) | 57 | 190534 | | | 0.00- 56.09 | 32.83 |
| 47 cis-1,2-Dichloroethene | | | | | CAS #: 156-59-2 | | |
| 15.065 | 15.065 (0.978) | 98 | 711094 | 20.0000 | 18.207 | 70.00- 130.00 | 100.00 |
| 15.065 | 15.065 (0.978) | 61 | 1566345 | | | 191.49- 251.49 | 220.27 |

| RT | EXP RT (REL RT) | MASS | RESPONSE | AMOUNTS CAL-AMT ( PPBV) | ON-COL ( PPBV) | TARGET RANGE | RATIO |
|---|---|---|---|---|---|---|---|
| 47 cis-1,2-Dichloroethene (continued) | | | | | | | |
| 15.065 | 15.065 (0.978) | 96 | 1115437 | | | 127.51- 187.51 | 156.86 |
| 51 Tetrahydrofuran | | | | | CAS #: 109-99-9 | | |
| 15.406 | 15.406 (1.000) | 42 | 1335666 | 20.0000 | 19.219 | 70.00- 130.00 | 100.00 |
| 15.406 | 15.406 (1.000) | 71 | 489740 | | | 6.88- 66.88 | 36.67 |
| 15.406 | 15.406 (1.000) | 72 | 537706 | | | 11.00- 71.00 | 40.26 |
| 53 Chloroform | | | | | CAS #: 67-66-3 | | |
| 15.467 | 15.467 (1.004) | 83 | 2170085 | 20.0000 | 18.076 | 70.00- 130.00 | 100.00 |
| 15.467 | 15.467 (1.004) | 85 | 1411832 | | | 34.45- 94.45 | 65.06 |
| 56 1,1,1-Trichloroethane | | | | | CAS #: 71-55-6 | | |
| 15.714 | 15.714 (1.020) | 97 | 2330892 | 20.0000 | 18.173 | 70.00- 130.00 | 100.00 |
| 15.714 | 15.714 (1.020) | 99 | 1492644 | | | 34.37- 94.37 | 64.04 |
| 55 Cyclohexane | | | | | CAS #: 110-82-7 | | |
| 15.714 | 15.714 (1.020) | 84 | 1608563 | 20.0000 | 18.258 | 70.00- 130.00 | 100.00 |
| 15.714 | 15.714 (1.020) | 56 | 2057730 | | | 97.99- 157.99 | 127.92 |
| 15.714 | 15.714 (1.020) | 41 | 1086592 | | | 37.94- 97.94 | 67.55 |
| 57 Carbon Tetrachloride | | | | | CAS #: 56-23-5 | | |
| 15.930 | 15.930 (1.034) | 119 | 1973050 | 20.0000 | 20.519 | 70.00- 130.00 | 100.00(A) |
| 15.930 | 15.930 (1.034) | 117 | 2073580 | | | 74.49- 134.49 | 105.10 |
| 59 2,2,4-Trimethylpentane | | | | | CAS #: 540-84-1 | | |
| 16.194 | 16.194 (1.051) | 56 | 2740394 | 20.0000 | 20.278 | 70.00- 130.00 | 100.00 |
| 16.194 | 16.194 (1.051) | 57 | 7783348 | | | 264.71- 324.71 | 284.02 |
| 16.194 | 16.194 (1.051) | 41 | 2106478 | | | 74.97- 134.97 | 76.87 |
| 60 Benzene | | | | | CAS #: 71-43-2 | | |
| 16.276 | 16.276 (0.967) | 78 | 3411220 | 20.0000 | 18.427 | 70.00- 130.00 | 100.00 |
| 16.276 | 16.276 (0.967) | 77 | 780243 | | | 0.00- 53.14 | 22.87 |
| 62 tert-amyl methyl ether | | | | | CAS #: 994-05-8 | | |
| 16.304 | 16.304 (0.969) | 87 | 829643 | 20.0000 | 19.524 | 70.00- 130.00 | 100.00 |
| 16.304 | 16.304 (0.969) | 73 | 3496122 | | | 388.88- 448.88 | 421.40 |
| 16.304 | 16.304 (0.969) | 55 | 920484 | | | 85.24- 145.24 | 110.95 |
| 63 1,2-Dichloroethane | | | | | CAS #: 107-06-2 | | |
| 16.386 | 16.386 (0.974) | 62 | 1607834 | 20.0000 | 18.379 | 70.00- 130.00 | 100.00 |
| 16.386 | 16.386 (0.974) | 64 | 512156 | | | 2.07- 62.07 | 31.85 |
| 64 Heptane | | | | | CAS #: 142-82-5 | | |
| 16.413 | 16.413 (0.976) | 57 | 1149232 | 20.0000 | 18.626 | 70.00- 130.00 | 100.00 |
| 16.413 | 16.413 (0.976) | 100 | 472521 | | | 11.16- 71.16 | 41.12 |

| RT | EXP RT (REL RT) | MASS | RESPONSE | AMOUNTS CAL-AMT ( PPBV) | ON-COL ( PPBV) | TARGET RANGE | RATIO |
|---|---|---|---|---|---|---|---|
| 64 Heptane (continued) | | | | | | | |
| 16.413 | 16.413 (0.976) | 43 | 2153958 | | | 158.27- 218.27 | 187.43 |
| 67 Trichloroethene | | | | | CAS #: 79-01-6 | | |
| 17.237 | 17.237 (1.024) | 130 | 1473196 | 20.0000 | 18.636 | 70.00- 130.00 | 100.00 |
| 17.237 | 17.237 (1.024) | 95 | 1533872 | | | 75.28- 135.28 | 104.12 |
| 17.237 | 17.237 (1.024) | 97 | 992066 | | | 37.01- 97.01 | 67.34 |
| 69 Methylcyclohexane | | | | | CAS #: 108-87-2 | | |
| 17.484 | 17.484 (1.039) | 83 | 2125846 | 20.0000 | 19.376 | 70.00- 130.00 | 100.00 |
| 17.484 | 17.484 (1.039) | 98 | 1008250 | | | 17.59- 77.59 | 47.43 |
| 17.484 | 17.484 (1.039) | 55 | 1851729 | | | 57.89- 117.89 | 87.11 |
| 72 1,2-Dichloropropane | | | | | CAS #: 78-87-5 | | |
| 17.731 | 17.731 (1.054) | 63 | 1334144 | 20.0000 | 18.143 | 70.00- 130.00 | 100.00 |
| 17.731 | 17.731 (1.054) | 62 | 980876 | | | 43.22- 103.22 | 73.52 |
| 17.731 | 17.731 (1.054) | 41 | 771425 | | | 28.84- 88.84 | 57.82 |
| 74 1,4-Dioxane | | | | | CAS #: 123-91-1 | | |
| 17.869 | 17.869 (1.062) | 88 | 827427 | 20.0000 | 18.869 | 70.00- 130.00 | 100.00 |
| 17.869 | 17.869 (1.062) | 58 | 626877 | | | 46.02- 106.02 | 75.76 |
| 17.869 | 17.869 (1.062) | 57 | 197775 | | | 0.00- 53.54 | 23.90 |
| 76 Bromodichloromethane | | | | | CAS #: 75-27-4 | | |
| 18.171 | 18.171 (1.080) | 83 | 2493189 | 20.0000 | 19.682 | 70.00- 130.00 | 100.00 |
| 18.171 | 18.171 (1.080) | 85 | 1586515 | | | 33.96- 93.96 | 63.63 |
| 77 cis-1,3-Dichloropropene | | | | | CAS #: 10061-01-5 | | |
| 18.986 | 18.986 (1.128) | 75 | 1948359 | 20.0000 | 19.386 | 70.00- 130.00 | 100.00 |
| 18.986 | 18.986 (1.128) | 77 | 617748 | | | 1.99- 61.99 | 31.71 |
| 18.986 | 18.986 (1.128) | 39 | 1017989 | | | 22.62- 82.62 | 52.25 |
| 78 4-Methyl-2-pentanone | | | | | CAS #: 108-10-1 | | |
| 19.188 | 19.188 (1.140) | 43 | 2992139 | 20.0000 | 19.681 | 70.00- 130.00 | 100.00 |
| 19.188 | 19.188 (1.140) | 58 | 1209326 | | | 10.31- 70.31 | 40.42 |
| 19.188 | 19.188 (1.140) | 85 | 496278 | | | 0.00- 46.66 | 16.59 |
| 81 Toluene | | | | | CAS #: 108-88-3 | | |
| 19.524 | 19.524 (1.160) | 91 | 3949607 | 20.0000 | 18.655 | 70.00- 130.00 | 100.00 |
| 19.524 | 19.524 (1.160) | 92 | 2361574 | | | 30.18- 90.18 | 59.79 |
| 82 trans-1,3-Dichloropropene | | | | | CAS #: 10061-02-6 | | |
| 19.910 | 19.910 (0.921) | 75 | 1951389 | 20.0000 | 19.191 | 70.00- 130.00 | 100.00 |
| 19.943 | 19.943 (0.923) | 77 | 612644 | | | 1.51- 61.51 | 31.40 |
| 19.910 | 19.910 (0.921) | 39 | 969695 | | | 18.92- 78.92 | 49.69 |

| RT | EXP RT (REL RT) | MASS | RESPONSE | AMOUNTS CAL-AMT ( PPBV) | ON-COL ( PPBV) | TARGET RANGE | RATIO |
|---|---|---|---|---|---|---|---|
| 83 1,1,2-Trichloroethane | | | | | CAS #: 79-00-5 | | |
| 20.235 | 20.235 (0.936) | 97 | 1432776 | 20.0000 | 17.705 | 70.00- 130.00 | 100.00 |
| 20.235 | 20.235 (0.936) | 99 | 898569 | | | 32.01- 92.01 | 62.72 |
| 20.235 | 20.235 (0.936) | 83 | 1235106 | | | 56.07- 116.07 | 86.20 |
| 84 Tetrachloroethene | | | | | CAS #: 127-18-4 | | |
| 20.366 | 20.366 (0.942) | 166 | 1723313 | 20.0000 | 18.473 | 70.00- 130.00 | 100.00 |
| 20.366 | 20.366 (0.942) | 129 | 1359001 | | | 48.84- 108.84 | 78.86 |
| 20.366 | 20.366 (0.942) | 131 | 1295916 | | | 46.09- 106.09 | 75.20 |
| 85 2-Hexanone | | | | | CAS #: 591-78-6 | | |
| 20.496 | 20.496 (0.948) | 58 | 1614331 | 20.0000 | 19.904 | 70.00- 130.00 | 100.00 |
| 20.496 | 20.496 (0.948) | 43 | 2875822 | | | 132.91- 192.91 | 178.14 |
| 20.528 | 20.528 (0.950) | 100 | 326581 | | | 0.00- 49.97 | 20.23 |
| 86 Dibromochloromethane | | | | | CAS #: 124-48-1 | | |
| 20.821 | 20.821 (0.963) | 129 | 2426135 | 20.0000 | 20.327 | 70.00- 130.00 | 100.00(A) |
| 20.821 | 20.821 (0.963) | 127 | 1894369 | | | 48.12- 108.12 | 78.08 |
| 87 1,2-Dibromoethane | | | | | CAS #: 106-93-4 | | |
| 21.048 | 21.048 (0.974) | 107 | 2188852 | 20.0000 | 18.979 | 70.00- 130.00 | 100.00 |
| 21.048 | 21.048 (0.974) | 109 | 2051551 | | | 64.41- 124.41 | 93.73 |
| 89 Chlorobenzene | | | | | CAS #: 108-90-7 | | |
| 21.663 | 21.663 (1.002) | 112 | 3011673 | 20.0000 | 18.342 | 70.00- 130.00 | 100.00 |
| 21.663 | 21.663 (1.002) | 114 | 974614 | | | 2.00- 62.00 | 32.36 |
| 21.663 | 21.663 (1.002) | 77 | 1844167 | | | 31.66- 91.66 | 61.23 |
| 91 Ethyl Benzene | | | | | CAS #: 100-41-4 | | |
| 21.711 | 21.711 (1.004) | 106 | 1534070 | 20.0000 | 18.210 | 70.00- 130.00 | 100.00 |
| 21.711 | 21.711 (1.004) | 91 | 4914113 | | | 291.22- 351.22 | 320.33 |
| 93 m,p-Xylene | | | | | CAS #: 108-38-3 | | |
| 21.879 | 21.879 (1.012) | 106 | 1691869 | 20.0000 | 18.366 | 70.00- 130.00 | 100.00 |
| 21.879 | 21.879 (1.012) | 91 | 3409135 | | | 173.15- 233.15 | 201.50 |
| 94 o-Xylene | | | | | CAS #: 95-47-6 | | |
| 22.385 | 22.385 (1.036) | 106 | 1653921 | 20.0000 | 18.661 | 70.00- 130.00 | 100.00 |
| 22.385 | 22.385 (1.036) | 91 | 3542298 | | | 185.20- 245.20 | 214.18 |
| 95 Styrene | | | | | CAS #: 100-42-5 | | |
| 22.434 | 22.434 (1.038) | 104 | 2728016 | 20.0000 | 18.938 | 70.00- 130.00 | 100.00 |
| 22.409 | 22.409 (1.037) | 78 | 1411677 | | | 21.95- 81.95 | 51.75 |
| 97 Bromoform | | | | | CAS #: 75-25-2 | | |
| 22.707 | 22.707 (1.051) | 173 | 2118396 | 20.0000 | 20.823 | 70.00- 130.00 | 100.00(A) |

| RT | EXP RT (REL RT) | MASS | RESPONSE | AMOUNTS CAL-AMT ( PPBV) | ON-COL ( PPBV) | TARGET RANGE | RATIO |
|---|---|---|---|---|---|---|---|
| 97 Bromoform (continued) | | | | | | | |
| 22.707 | 22.707 (1.051) | 171 | 1108315 | | | 22.12- 82.12 | 52.32 |
| 98 Cumene | | | | | CAS #: 98-82-8 | | |
| 22.810 | 22.810 (1.055) | 105 | 4983909 | 20.0000 | 18.732 | 70.00- 130.00 | 100.00 |
| 22.810 | 22.810 (1.055) | 120 | 1298056 | | | 0.00- 56.13 | 26.04 |
| 103 1,1,2,2-Tetrachloroethane | | | | | CAS #: 79-34-5 | | |
| 23.223 | 23.223 (1.074) | 83 | 2932641 | 20.0000 | 19.094 | 70.00- 130.00 | 100.00 |
| 23.223 | 23.223 (1.074) | 85 | 1891886 | | | 34.44- 94.44 | 64.51 |
| 104 Propylbenzene | | | | | CAS #: 103-65-1 | | |
| 23.300 | 23.300 (1.078) | 91 | 5040276 | 20.0000 | 18.307 | 70.00- 130.00 | 100.00 |
| 23.300 | 23.300 (1.078) | 120 | 1116961 | | | 0.00- 52.40 | 22.16 |
| 107 4-Ethyltoluene | | | | | CAS #: 622-96-8 | | |
| 23.403 | 23.403 (1.083) | 105 | 4530020 | 20.0000 | 18.029 | 70.00- 130.00 | 100.00 |
| 23.403 | 23.403 (1.083) | 120 | 1386578 | | | 0.31- 60.31 | 30.61 |
| 109 1,3,5-Trimethylbenzene | | | | | CAS #: 108-67-8 | | |
| 23.481 | 23.481 (1.086) | 105 | 3593045 | 20.0000 | 18.102 | 70.00- 130.00 | 100.00 |
| 23.481 | 23.481 (1.086) | 120 | 1735502 | | | 18.26- 78.26 | 48.30 |
| 112 1,2,4-Trimethylbenzene | | | | | CAS #: 95-63-6 | | |
| 23.893 | 23.893 (1.105) | 105 | 3209847 | 20.0000 | 17.326 | 70.00- 130.00 | 100.00 |
| 23.893 | 23.893 (1.105) | 120 | 1428085 | | | 15.25- 75.25 | 44.49 |
| 115 1,3-Dichlorobenzene | | | | | CAS #: 541-73-1 | | |
| 24.280 | 24.280 (1.123) | 146 | 2232221 | 20.0000 | 17.141 | 70.00- 130.00 | 100.00 |
| 24.280 | 24.280 (1.123) | 148 | 1417468 | | | 33.56- 93.56 | 63.50 |
| 24.280 | 24.280 (1.123) | 111 | 998192 | | | 14.68- 74.68 | 44.72 |
| 117 1,4-Dichlorobenzene | | | | | CAS #: 106-46-7 | | |
| 24.384 | 24.384 (1.128) | 146 | 2050914 | 20.0000 | 17.540 | 70.00- 130.00 | 100.00 |
| 24.384 | 24.384 (1.128) | 148 | 1305957 | | | 33.39- 93.39 | 63.68 |
| 24.384 | 24.384 (1.128) | 111 | 873596 | | | 12.70- 72.70 | 42.60 |
| 118 alpha-chlorotoluene | | | | | CAS #: 100-44-7 | | |
| 24.512 | 24.512 (1.134) | 91 | 3815461 | 20.0000 | 21.203 | 70.00- 130.00 | 100.00(A) |
| 24.512 | 24.512 (1.134) | 126 | 739310 | | | 0.00- 49.37 | 19.38 |
| 121 1,2-Dichlorobenzene | | | | | CAS #: 95-50-1 | | |
| 24.796 | 24.796 (1.147) | 146 | 2036771 | 20.0000 | 17.779 | 70.00- 130.00 | 100.00 |
| 24.796 | 24.796 (1.147) | 148 | 1285136 | | | 32.38- 92.38 | 63.10 |
| 24.796 | 24.796 (1.147) | 111 | 941170 | | | 16.44- 76.44 | 46.21 |

| RT | EXP RT (REL RT) | MASS | RESPONSE | AMOUNTS CAL-AMT ( PPBV) | ON-COL ( PPBV) | TARGET RANGE | RATIO |
|---|---|---|---|---|---|---|---|
| 126 1,2,4-Trichlorobenzene | | | | | CAS #: 120-82-1 | | |
| 26.550 | 26.550 (1.228) | 180 | 1333439 | 20.0000 | 20.233 | 70.00- 130.00 | 100.00(A) |
| 26.550 | 26.550 (1.228) | 182 | 1256331 | | | 62.96- 122.96 | 94.22 |
| 128 Hexachlorobutadiene | | | | | CAS #: 87-68-3 | | |
| 26.653 | 26.653 (1.233) | 225 | 1020120 | 20.0000 | 20.757 | 70.00- 130.00 | 100.00(A) |
| 26.653 | 26.653 (1.233) | 223 | 644485 | | | 34.16- 94.16 | 63.18 |
| 129 Naphthalene | | | | | CAS #: 91-20-3 | | |
| 26.885 | 26.885 (1.244) | 128 | 2713400 | 20.0000 | 19.727 | 70.00- 130.00 | 100.00 |
| 26.885 | 26.885 (1.244) | 127 | 341046 | | | 0.00- 42.68 | 12.57 |

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msda.i
Lab File ID: a081811.d
Lab Smp Id: ICAL
Analysis Type: VOA
Quant Type: ISTD
Operator: jc
Method File: /chem/msda.i/18Aug2011.b/a11l0818a.m
Misc Info: 20.0ppbv (50ppbv)

Calibration Date: 18-AUG-2011
Calibration Time: 17:09
Client Smp ID: Level 10
Level: LOW
Sample Type: AIR

| | | AREA LIMIT | | | |
|---|---|---|---|---|---|
| COMPOUND | STANDARD | LOWER | UPPER | SAMPLE | %DIFF |
| 52 Bromochloromethan | 220017 | 132010 | 308024 | 211107 | -4.05 |
| 66 1,4-Difluorobenze | 1019583 | 611750 | 1427416 | 996706 | -2.24 |
| 88 Chlorobenzene-d5 | 873528 | 524117 | 1222939 | 863806 | -1.11 |

| | | RT LIMIT | | | |
|---|---|---|---|---|---|
| COMPOUND | STANDARD | LOWER | UPPER | SAMPLE | %DIFF |
| 52 Bromochloromethan | 15.41 | 15.08 | 15.74 | 15.41 | 0.00 |
| 66 1,4-Difluorobenze | 16.83 | 16.50 | 17.16 | 16.83 | 0.00 |
| 88 Chlorobenzene-d5 | 21.61 | 21.28 | 21.94 | 21.61 | 0.00 |

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Data File: /chem/msda.i/18Aug2011.b/a081811.d



Date : 18-AUG-2011 18:19

Client ID: Level 10

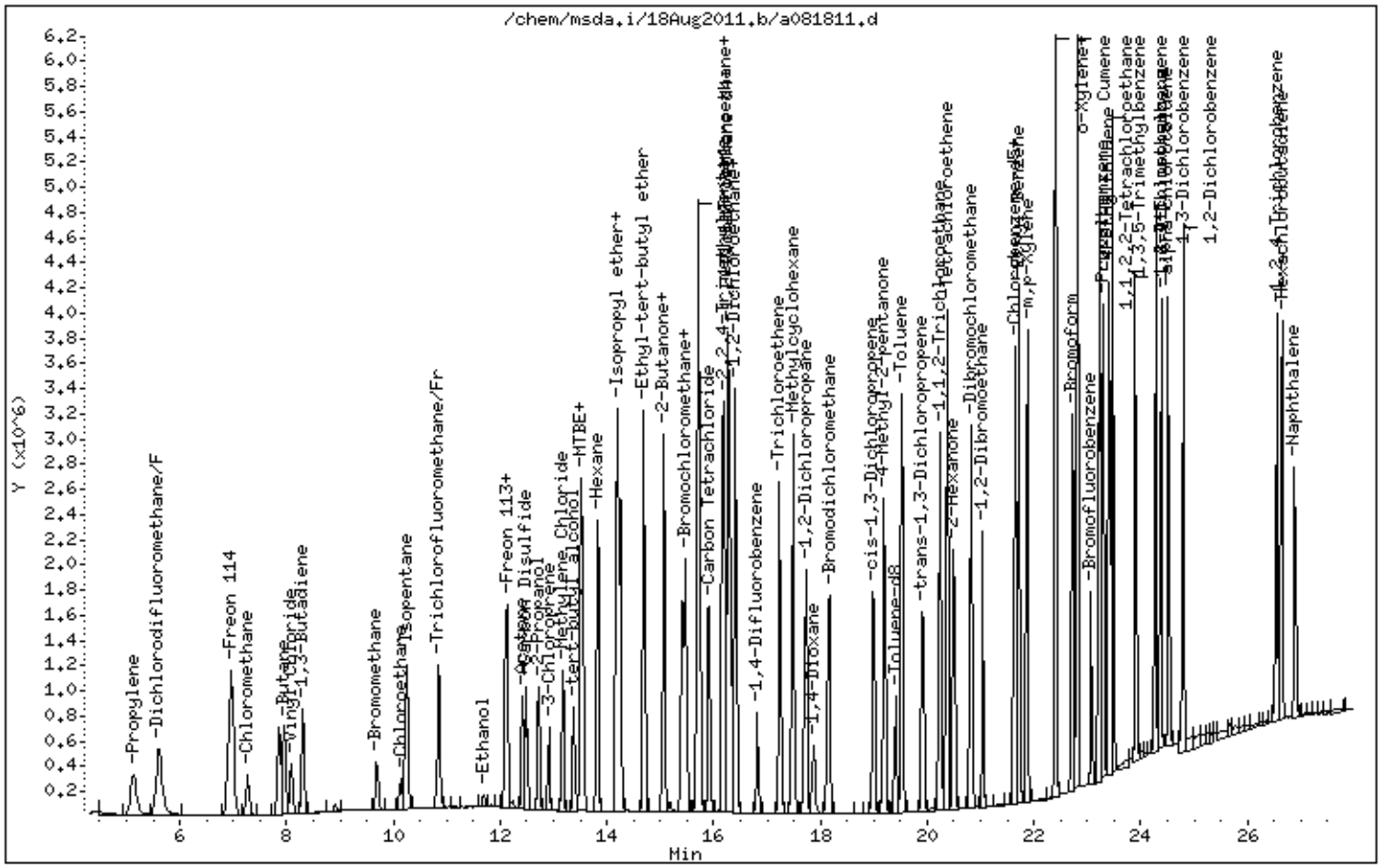
Instrument: msda.i

Sample Info: 100mL #2296-84

Operator: jc

Column phase: RTx-624

Column diameter: 0.32



Air Toxics Ltd.

AMBIENT AIR METHOD TO14/TO15

Data file : /chem/msda.i/19Aug2011.b/a081906.d
Lab Smp Id: ICAL Client Smp ID: Level #11
Inj Date : 19-AUG-2011 14:02
Operator : cr Inst ID: msda.i
Smp Info : 100mL #2296-42A
Misc Info : 1.0ppbv (2.5ppbv) AT-4
Comment :
Method : /chem/msda.i/19Aug2011.b/a11l0818a.m
Meth Date : 29-Aug-2011 10:27 croush Quant Type: ISTD
Cal Date : 19-AUG-2011 14:02 Cal File: a081906.d
Als bottle: 5 Calibration Sample, Level: 11
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AT4.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

| | | | | AMOUNTS | | | |
|---|---|---|---|---|---|---|---|
| | | | | CAL-AMT | ON-COL | | |
| RT | EXP RT (REL RT) | MASS | RESPONSE | ( PPBV) | ( PPBV) | TARGET RANGE | RATIO |
| * 52 Bromochloromethane | | | | | | CAS #: 74-97-5 | |
| 15.406 | 15.406 (1.000) | 130 | 206907 | 10.0000 | | 70.00- 130.00 | 100.00 |
| 15.406 | 15.406 (1.000) | 128 | 160743 | | | 0.00- 30.00 | 77.69 |
| 15.406 | 15.406 (1.000) | 49 | 329660 | | | 0.00- 30.00 | 159.33 |
| * 66 1,4-Difluorobenzene | | | | | | CAS #: 540-36-3 | |
| 16.825 | 16.825 (1.000) | 114 | 1037564 | 10.0000 | | 70.00- 130.00 | 100.00 |
| 16.825 | 16.825 (1.000) | 88 | 176870 | | | 0.00- 30.00 | 17.05 |
| * 88 Chlorobenzene-d5 | | | | | | CAS #: 3114-55-4 | |
| 21.614 | 21.614 (1.000) | 117 | 881062 | 10.0000 | | 70.00- 130.00 | 100.00 |
| 21.614 | 21.614 (1.000) | 82 | 522981 | | | 0.00- 30.00 | 59.36 |
| 15 Vinyl Bromide | | | | | | CAS #: 593-60-2 | |
| 10.696 | 10.696 (0.694) | 106 | 34767 | 1.00000 | 0.9614 | 0.00- 30.00 | 100.00 |
| 10.696 | 10.696 (0.694) | 108 | 31451 | | | 0.00- 30.00 | 90.46 |
| 31 Acetonitrile | | | | | | CAS #: 75-05-8 | |
| 13.050 | 13.050 (0.847) | 41 | 58622 | 1.00000 | 1.005 | 0.00- 30.00 | 100.00 |
| 13.050 | 13.050 (0.847) | 40 | 31675 | | | 0.00- 30.00 | 54.03 |

| RT | EXP RT (REL RT) | MASS | RESPONSE | AMOUNTS CAL-AMT ( PPBV) | ON-COL ( PPBV) | TARGET RANGE | RATIO |
|---|---|---|---|---|---|---|---|
| 31 Acetonitrile (continued) | | | | | | | |
| 13.050 | 13.050 (0.847) | 39 | 13171 | | | 0.00- 30.00 | 22.47 |
| 37 Acrylonitrile | | | | | CAS #: 107-13-1 | | |
| 13.682 | 13.682 (0.888) | 53 | 46258 | 1.00000 | 0.9330 | 0.00- 30.00 | 100.00 |
| 13.682 | 13.682 (0.888) | 52 | 37672 | | | 0.00- 30.00 | 81.44 |
| 43 Chloroprene | | | | | CAS #: 126-99-8 | | |
| 14.313 | 14.313 (0.929) | 53 | 76286 | 1.00000 | 0.9975 | 0.00- 30.00 | 100.00 |
| 14.313 | 14.313 (0.929) | 88 | 39077 | | | 0.00- 30.00 | 51.22 |

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msda.i
Lab File ID: a081906.d
Lab Smp Id: ICAL
Analysis Type: VOA
Quant Type: ISTD
Operator: cr
Method File: /chem/msda.i/19Aug2011.b/a11l0818a.m
Misc Info: 1.0ppbv (2.5ppbv) AT-4

Calibration Date: 19-AUG-2011
Calibration Time: 14:02
Client Smp ID: Level #11
Level: LOW
Sample Type: AIR

| | | AREA LIMIT | | | |
|---|---|---|---|---|---|
| COMPOUND | STANDARD | LOWER | UPPER | SAMPLE | %DIFF |
| 52 Bromochloromethan | 206907 | 124144 | 289670 | 206907 | 0.00 |
| 66 1,4-Difluorobenze | 1037564 | 622538 | 1452590 | 1037564 | 0.00 |
| 88 Chlorobenzene-d5 | 881062 | 528637 | 1233487 | 881062 | 0.00 |

| | | RT LIMIT | | | |
|---|---|---|---|---|---|
| COMPOUND | STANDARD | LOWER | UPPER | SAMPLE | %DIFF |
| 52 Bromochloromethan | 15.41 | 15.08 | 15.74 | 15.41 | 0.00 |
| 66 1,4-Difluorobenze | 16.83 | 16.50 | 17.16 | 16.83 | 0.00 |
| 88 Chlorobenzene-d5 | 21.61 | 21.28 | 21.94 | 21.61 | 0.00 |

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Data File: /chem/msda.i/19Aug2011.b/a081906.d

Date : 19-AUG-2011 14:02

Client ID: Level #11

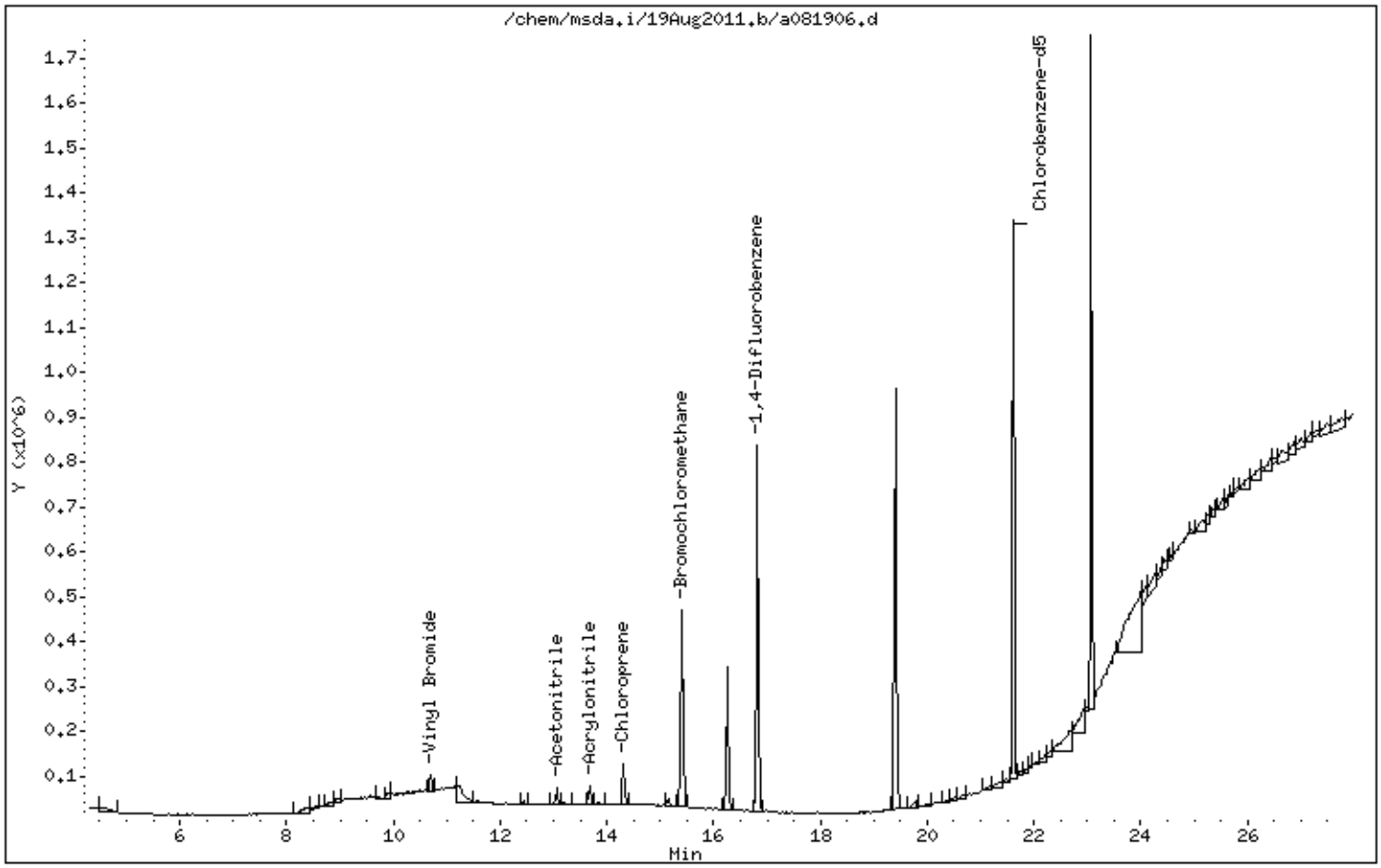
Instrument: msda.i

Sample Info: 100mL #2296-42A

Operator: cr

Column phase: RTx-624

Column diameter: 0.32



Air Toxics Ltd.

AMBIENT AIR METHOD TO14/TO15

Data file : /chem/msda.i/18Aug2011.b/a081812.d
Lab Smp Id: ICAL Client Smp ID: Level 11
Inj Date : 18-AUG-2011 18:56
Operator : jc Inst ID: msda.i
Smp Info : 200mL #2296-84
Misc Info : 40.0ppbv (50ppbv)
Comment :
Method : /chem/msda.i/18Aug2011.b/a11l0818a.m
Meth Date : 29-Aug-2011 10:21 croush Quant Type: ISTD
Cal Date : 18-AUG-2011 18:56 Cal File: a081812.d
Als bottle: 21 Calibration Sample, Level: 11
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: HILOcrvFULL.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

| | | | | AMOUNTS | | | |
|---|---|---|---|---|---|---|---|
| | | | | CAL-AMT | ON-COL | | |
| RT | EXP RT (REL RT) | MASS | RESPONSE | ( PPBV) | ( PPBV) | TARGET RANGE | RATIO |
| == | ====== ======== | ==== | ======== | ======= | ======= | ========== | ===== |
| * 52 Bromochloromethane | | | | | CAS #: 74-97-5 | | |
| 15.406 | 15.406 (1.000) | 130 | 198841 | 10.0000 | | 70.00- 130.00 | 100.00 |
| 15.406 | 15.406 (1.000) | 128 | 155192 | | | 49.03- 109.03 | 78.05 |
| 15.467 | 15.467 (1.000) | 49 | 680127 | | | 177.15- 237.15 | 342.05 |
| * 66 1,4-Difluorobenzene | | | | | CAS #: 540-36-3 | | |
| 16.825 | 16.825 (1.000) | 114 | 954770 | 10.0000 | | 70.00- 130.00 | 100.00 |
| 16.825 | 16.825 (1.000) | 88 | 164939 | | | 0.00- 47.14 | 17.28 |
| * 88 Chlorobenzene-d5 | | | | | CAS #: 3114-55-4 | | |
| 21.614 | 21.614 (1.000) | 117 | 843954 | 10.0000 | | 70.00- 130.00 | 100.00 |
| 21.614 | 21.614 (1.000) | 82 | 507089 | | | 29.05- 89.05 | 60.08 |
| $ 61 1,2-Dichloroethane-d4 | | | | | CAS #: 17060-07-0 | | |
| 16.248 | 16.248 (1.055) | 65 | 365961 | 10.0000 | 10.228 | 70.00- 130.00 | 100.00 |
| 16.276 | 16.276 (1.056) | 67 | 201568 | | | 21.17- 81.17 | 55.08 |
| $ 80 Toluene-d8 | | | | | CAS #: 2037-26-5 | | |
| 19.411 | 19.411 (1.154) | 98 | 956421 | 10.0000 | 10.304 | 70.00- 130.00 | 100.00 |
| 19.411 | 19.411 (1.154) | 70 | 112515 | | | 0.00- 41.96 | 11.76 |

| RT | EXP RT (REL RT) | MASS | RESPONSE | AMOUNTS CAL-AMT ( PPBV) | AMOUNTS ON-COL ( PPBV) | TARGET RANGE | RATIO |
|---|---|---|---|---|---|---|---|
| $ 80 Toluene-d8 (continued) | | | | | | | |
| 19.411 | 19.411 (1.154) | 100 | 641664 | | | 37.42- 97.42 | 67.09 |
| $ 100 Bromofluorobenzene | | | | | CAS #: 460-00-4 | | |
| 23.068 | 23.068 (1.067) | 174 | 456391 | 10.0000 | 10.383 | 70.00- 130.00 | 100.00 |
| 23.068 | 23.068 (1.067) | 95 | 678941 | | | 121.00- 181.00 | 148.76 |
| 23.068 | 23.068 (1.067) | 176 | 439924 | | | 66.79- 126.79 | 96.39 |
| 2 Propylene | | | | | CAS #: 115-07-1 | | |
| 5.107 | 5.107 (0.332) | 41 | 1512726 | 40.0000 | 35.516 | 70.00- 130.00 | 100.00(A) |
| 5.107 | 5.107 (0.332) | 42 | 1011460 | | | 36.86- 96.86 | 66.86 |
| 5.107 | 5.107 (0.332) | 39 | 1084262 | | | 41.49- 101.49 | 71.68 |
| 4 Dichlorodifluoromethane/Fr12 | | | | | CAS #: 75-71-8 | | |
| 5.589 | 5.589 (0.363) | 85 | 4782078 | 40.0000 | 36.606 | 70.00- 130.00 | 100.00(A) |
| 5.589 | 5.589 (0.363) | 87 | 1540135 | | | 2.64- 62.64 | 32.21 |
| 6 Freon 114 | | | | | CAS #: 76-14-2 | | |
| 6.963 | 6.963 (0.452) | 135 | 2934637 | 40.0000 | 35.494 | 70.00- 130.00 | 100.00(A) |
| 6.963 | 6.963 (0.452) | 137 | 932736 | | | 1.34- 61.34 | 31.78 |
| 6.963 | 6.963 (0.452) | 85 | 4804617 | | | 133.27- 193.27 | 163.72 |
| 7 Chloromethane | | | | | CAS #: 74-87-3 | | |
| 7.276 | 7.276 (0.472) | 50 | 1773522 | 40.0000 | 36.941 | 70.00- 130.00 | 100.00(A) |
| 7.276 | 7.276 (0.472) | 52 | 545859 | | | 2.29- 62.29 | 30.78 |
| 9 Butane | | | | | CAS #: 106-97-8 | | |
| 7.954 | 7.954 (0.516) | 58 | 429545 | 40.0000 | 35.736 | 70.00- 130.00 | 100.00 |
| 7.954 | 7.954 (0.516) | 43 | 2918573 | | | 641.41- 701.41 | 679.46 |
| 10 Vinyl Chloride | | | | | CAS #: 75-01-4 | | |
| 8.076 | 8.076 (0.524) | 62 | 1946301 | 40.0000 | 35.919 | 70.00- 130.00 | 100.00(A) |
| 8.076 | 8.076 (0.524) | 64 | 603410 | | | 1.24- 61.24 | 31.00 |
| 11 1,3-Butadiene | | | | | CAS #: 106-99-0 | | |
| 8.301 | 8.301 (0.539) | 54 | 1502344 | 40.0000 | 35.371 | 70.00- 130.00 | 100.00(A) |
| 8.301 | 8.301 (0.539) | 39 | 1390133 | | | 64.36- 124.36 | 92.53 |
| 12 Bromomethane | | | | | CAS #: 74-83-9 | | |
| 9.680 | 9.680 (0.628) | 94 | 986739 | 40.0000 | 39.116 | 70.00- 130.00 | 100.00(A) |
| 9.680 | 9.680 (0.628) | 96 | 920880 | | | 62.77- 122.77 | 93.33 |
| 13 Chloroethane | | | | | CAS #: 75-00-3 | | |
| 10.136 | 10.136 (0.658) | 64 | 842910 | 40.0000 | 44.068 | 70.00- 130.00 | 100.00(A) |
| 10.136 | 10.136 (0.658) | 66 | 260936 | | | 2.32- 62.32 | 30.96 |

| RT | EXP RT (REL RT) | MASS | RESPONSE | AMOUNTS CAL-AMT ( PPBV) | ON-COL ( PPBV) | TARGET RANGE | RATIO |
|---|---|---|---|---|---|---|---|
| 14 Isopentane | | | | | CAS #: 78-78-4 | | |
| 10.260 | 10.260 (0.666) | 57 | 1470448 | 40.0000 | 37.147 | 70.00- 130.00 | 100.00 |
| 10.260 | 10.260 (0.666) | 43 | 1997990 | | | 104.71- 164.71 | 135.88 |
| 10.260 | 10.260 (0.666) | 42 | 1738356 | | | 89.04- 149.04 | 118.22 |
| 16 Trichlorofluoromethane/Fr11 | | | | | CAS #: 75-69-4 | | |
| 10.840 | 10.840 (0.704) | 101 | 3405272 | 40.0000 | 32.771 | 70.00- 130.00 | 100.00(A) |
| 10.840 | 10.840 (0.704) | 103 | 2195702 | | | 34.88- 94.88 | 64.48 |
| 20 Ethanol | | | | | CAS #: 64-17-5 | | |
| 11.690 | 11.690 (0.759) | 45 | 288129 | 40.0000 | 39.996 | 70.00- 130.00 | 100.00(A) |
| 11.690 | 11.690 (0.759) | 43 | 68634 | | | 0.00- 57.08 | 23.82 |
| 11.690 | 11.690 (0.759) | 46 | 112388 | | | 10.87- 70.87 | 39.01 |
| 22 Freon 113 | | | | | CAS #: 76-13-1 | | |
| 12.126 | 12.126 (0.787) | 151 | 1885995 | 40.0000 | 26.825 | 70.00- 130.00 | 100.00(A) |
| 12.126 | 12.126 (0.787) | 153 | 1195648 | | | 32.80- 92.80 | 63.40 |
| 12.126 | 12.126 (0.787) | 101 | 2616503 | | | 109.89- 169.89 | 138.73 |
| 23 1,1-Dichloroethene | | | | | CAS #: 75-35-4 | | |
| 12.146 | 12.146 (0.788) | 98 | 927033 | 40.0000 | 32.094 | 70.00- 130.00 | 100.00(A) |
| 12.146 | 12.146 (0.788) | 61 | 2572039 | | | 252.93- 312.93 | 277.45 |
| 12.146 | 12.146 (0.788) | 96 | 1465795 | | | 129.43- 189.43 | 158.12 |
| 24 Acetone | | | | | CAS #: 67-64-1 | | |
| 12.416 | 12.416 (0.806) | 58 | 927246 | 40.0000 | 35.852 | 70.00- 130.00 | 100.00(A) |
| 12.416 | 12.416 (0.806) | 43 | 2869082 | | | 283.54- 343.54 | 309.42 |
| 26 Carbon Disulfide | | | | | CAS #: 75-15-0 | | |
| 12.499 | 12.499 (0.811) | 76 | 3992943 | 40.0000 | 37.625 | 70.00- 130.00 | 100.00 |
| 28 3-Chloroprene | | | | | CAS #: 107-05-1 | | |
| 12.913 | 12.913 (0.838) | 76 | 577910 | 40.0000 | 53.971 | 70.00- 130.00 | 100.00(A) |
| 12.913 | 12.913 (0.838) | 41 | 1723580 | | | 273.34- 333.34 | 298.24 |
| 27 2-Propanol | | | | | CAS #: 67-63-0 | | |
| 12.727 | 12.727 (0.826) | 45 | 4474907 | 40.0000 | 37.475 | 70.00- 130.00 | 100.00(A) |
| 12.727 | 12.727 (0.826) | 43 | 853305 | | | 0.00- 49.76 | 19.07 |
| 12.727 | 12.727 (0.826) | 59 | 178074 | | | 0.00- 34.09 | 3.98 |
| 33 Methylene Chloride | | | | | CAS #: 75-09-2 | | |
| 13.187 | 13.187 (0.856) | 84 | 1496700 | 40.0000 | 33.339 | 70.00- 130.00 | 100.00 |
| 13.160 | 13.160 (0.854) | 49 | 2148978 | | | 112.00- 172.00 | 143.58 |
| 13.160 | 13.160 (0.854) | 51 | 656374 | | | 13.10- 73.10 | 43.85 |
| 34 tert-butyl alcohol | | | | | CAS #: 75-65-0 | | |
| 13.380 | 13.380 (0.868) | 59 | 2000859 | 40.0000 | 25.226 | 70.00- 130.00 | 100.00 |

| RT | EXP RT (REL RT) | MASS | RESPONSE | AMOUNTS CAL-AMT ( PPBV) | ON-COL ( PPBV) | TARGET RANGE | RATIO |
|---|---|---|---|---|---|---|---|
| 34 tert-butyl alcohol (continued) | | | | | | | |
| 13.380 | 13.380 (0.868) | 41 | 445847 | | | 0.00- 48.20 | 22.28 |
| 13.380 | 13.380 (0.868) | 57 | 210105 | | | 0.00- 38.59 | 10.50 |
| 35 MTBE | | | | | CAS #: 1634-04-4 | | |
| 13.517 | 13.517 (0.877) | 73 | 5521988 | 40.0000 | 37.099 | 70.00- 130.00 | 100.00(A) |
| 13.517 | 13.517 (0.877) | 57 | 1341248 | | | 0.00- 55.70 | 24.29 |
| 13.517 | 13.517 (0.877) | 41 | 1226193 | | | 0.00- 55.35 | 22.21 |
| 36 trans-1,2-Dichloroethene | | | | | CAS #: 156-60-5 | | |
| 13.544 | 13.544 (0.879) | 98 | 1169914 | 40.0000 | 35.419 | 70.00- 130.00 | 100.00(A) |
| 13.544 | 13.544 (0.879) | 61 | 2826120 | | | 212.41- 272.41 | 241.57 |
| 13.544 | 13.544 (0.879) | 96 | 1848390 | | | 128.28- 188.28 | 157.99 |
| 40 Hexane | | | | | CAS #: 110-54-3 | | |
| 13.846 | 13.846 (0.899) | 57 | 3587734 | 40.0000 | 36.055 | 70.00- 130.00 | 100.00(A) |
| 13.846 | 13.846 (0.899) | 43 | 2276759 | | | 33.38- 93.38 | 63.46 |
| 13.846 | 13.846 (0.899) | 86 | 602979 | | | 0.00- 46.43 | 16.81 |
| 41 Isopropyl ether | | | | | CAS #: 108-20-3 | | |
| 14.203 | 14.203 (0.922) | 45 | 7785493 | 40.0000 | 38.232 | 70.00- 130.00 | 100.00 |
| 14.203 | 14.203 (0.922) | 87 | 1956537 | | | 0.00- 54.93 | 25.13 |
| 14.203 | 14.203 (0.922) | 59 | 892617 | | | 0.00- 41.38 | 11.47 |
| 42 1,1-Dichloroethane | | | | | CAS #: 75-34-3 | | |
| 14.258 | 14.258 (0.926) | 63 | 3491743 | 40.0000 | 37.338 | 70.00- 130.00 | 100.00(A) |
| 14.258 | 14.258 (0.926) | 65 | 1113571 | | | 2.24- 62.24 | 31.89 |
| 44 Vinyl Acetate | | | | | CAS #: 108-05-4 | | |
| 14.258 | 14.258 (0.926) | 86 | 538986 | 40.0000 | 50.364 | 70.00- 130.00 | 100.00(A) |
| 14.258 | 14.258 (0.926) | 42 | 479122 | | | 71.80- 131.80 | 88.89 |
| 14.258 | 14.258 (0.926) | 43 | 5845424 | | | 1179.88-1239.88 | 1084.52 |
| 46 Ethyl-tert-butyl ether | | | | | CAS #: 637-92-3 | | |
| 14.692 | 14.692 (0.954) | 59 | 7497747 | 40.0000 | 38.528 | 70.00- 130.00 | 100.00 |
| 14.692 | 14.692 (0.954) | 87 | 2880185 | | | 8.46- 68.46 | 38.41 |
| 14.692 | 14.692 (0.954) | 41 | 1297758 | | | 0.00- 47.65 | 17.31 |
| 48 2-Butanone | | | | | CAS #: 78-93-3 | | |
| 15.086 | 15.086 (0.979) | 72 | 1073281 | 40.0000 | 36.211 | 70.00- 130.00 | 100.00(A) |
| 15.065 | 15.065 (0.978) | 43 | 4440449 | | | 298.82- 358.82 | 413.73 |
| 15.086 | 15.086 (0.979) | 57 | 353901 | | | 0.00- 56.09 | 32.97 |
| 47 cis-1,2-Dichloroethene | | | | | CAS #: 156-59-2 | | |
| 15.065 | 15.065 (0.978) | 98 | 1291434 | 40.0000 | 35.105 | 70.00- 130.00 | 100.00(A) |
| 15.065 | 15.065 (0.978) | 61 | 2862802 | | | 191.49- 251.49 | 221.68 |

| RT | EXP RT (REL RT) | MASS | RESPONSE | AMOUNTS CAL-AMT ( PPBV) | ON-COL ( PPBV) | TARGET RANGE | RATIO |
|---|---|---|---|---|---|---|---|
| 47 cis-1,2-Dichloroethene (continued) | | | | | | | |
| 15.065 | 15.065 (0.978) | 96 | 2021211 | | | 127.51- 187.51 | 156.51 |
| 51 Tetrahydrofuran | | | | | CAS #: 109-99-9 | | |
| 15.406 | 15.406 (1.000) | 42 | 2422961 | 40.0000 | 37.014 | 70.00- 130.00 | 100.00(A) |
| 15.406 | 15.406 (1.000) | 71 | 899507 | | | 6.88- 66.88 | 37.12 |
| 15.406 | 15.406 (1.000) | 72 | 981114 | | | 11.00- 71.00 | 40.49 |
| 53 Chloroform | | | | | CAS #: 67-66-3 | | |
| 15.467 | 15.467 (1.004) | 83 | 3967713 | 40.0000 | 35.088 | 70.00- 130.00 | 100.00(A) |
| 15.467 | 15.467 (1.004) | 85 | 2561742 | | | 34.45- 94.45 | 64.56 |
| 56 1,1,1-Trichloroethane | | | | | CAS #: 71-55-6 | | |
| 15.714 | 15.714 (1.020) | 97 | 4257039 | 40.0000 | 35.238 | 70.00- 130.00 | 100.00(A) |
| 15.714 | 15.714 (1.020) | 99 | 2731432 | | | 34.37- 94.37 | 64.16 |
| 55 Cyclohexane | | | | | CAS #: 110-82-7 | | |
| 15.714 | 15.714 (1.020) | 84 | 2961154 | 40.0000 | 35.683 | 70.00- 130.00 | 100.00(A) |
| 15.714 | 15.714 (1.020) | 56 | 3781618 | | | 97.99- 157.99 | 127.71 |
| 15.714 | 15.714 (1.020) | 41 | 1956092 | | | 37.94- 97.94 | 66.06 |
| 57 Carbon Tetrachloride | | | | | CAS #: 56-23-5 | | |
| 15.930 | 15.930 (1.034) | 119 | 3668516 | 40.0000 | 40.505 | 70.00- 130.00 | 100.00(A) |
| 15.930 | 15.930 (1.034) | 117 | 3829752 | | | 74.49- 134.49 | 104.40 |
| 59 2,2,4-Trimethylpentane | | | | | CAS #: 540-84-1 | | |
| 16.193 | 16.193 (1.051) | 56 | 5275887 | 40.0000 | 41.449 | 70.00- 130.00 | 100.00(A) |
| 16.193 | 16.193 (1.051) | 57 | 14890544 | | | 264.71- 324.71 | 282.24 |
| 16.193 | 16.193 (1.051) | 41 | 3958969 | | | 74.97- 134.97 | 75.04 |
| 60 Benzene | | | | | CAS #: 71-43-2 | | |
| 16.276 | 16.276 (0.967) | 78 | 6329341 | 40.0000 | 35.692 | 70.00- 130.00 | 100.00(A) |
| 16.276 | 16.276 (0.967) | 77 | 1439559 | | | 0.00- 53.14 | 22.74 |
| 62 tert-amyl methyl ether | | | | | CAS #: 994-05-8 | | |
| 16.303 | 16.303 (0.969) | 87 | 1575042 | 40.0000 | 38.693 | 70.00- 130.00 | 100.00 |
| 16.303 | 16.303 (0.969) | 73 | 6631505 | | | 388.88- 448.88 | 421.04 |
| 16.303 | 16.303 (0.969) | 55 | 1730675 | | | 85.24- 145.24 | 109.88 |
| 63 1,2-Dichloroethane | | | | | CAS #: 107-06-2 | | |
| 16.386 | 16.386 (0.974) | 62 | 2912061 | 40.0000 | 34.749 | 70.00- 130.00 | 100.00(A) |
| 16.386 | 16.386 (0.974) | 64 | 930948 | | | 2.07- 62.07 | 31.97 |
| 64 Heptane | | | | | CAS #: 142-82-5 | | |
| 16.413 | 16.413 (0.976) | 57 | 2199618 | 40.0000 | 37.217 | 70.00- 130.00 | 100.00(A) |
| 16.413 | 16.413 (0.976) | 100 | 895292 | | | 11.16- 71.16 | 40.70 |

| RT | EXP RT (REL RT) | MASS | RESPONSE | AMOUNTS CAL-AMT ( PPBV) | ON-COL ( PPBV) | TARGET RANGE | RATIO |
|---|---|---|---|---|---|---|---|
| 64 Heptane (continued) | | | | | | | |
| 16.413 | 16.413 (0.976) | 43 | 4091588 | | | 158.27- 218.27 | 186.01 |
| 67 Trichloroethene | | | | | CAS #: 79-01-6 | | |
| 17.237 | 17.237 (1.024) | 130 | 2713737 | 40.0000 | 35.838 | 70.00- 130.00 | 100.00(A) |
| 17.237 | 17.237 (1.024) | 95 | 2851796 | | | 75.28- 135.28 | 105.09 |
| 17.237 | 17.237 (1.024) | 97 | 1834507 | | | 37.01- 97.01 | 67.60 |
| 69 Methylcyclohexane | | | | | CAS #: 108-87-2 | | |
| 17.484 | 17.484 (1.039) | 83 | 4003702 | 40.0000 | 38.095 | 70.00- 130.00 | 100.00 |
| 17.484 | 17.484 (1.039) | 98 | 1917993 | | | 17.59- 77.59 | 47.91 |
| 17.484 | 17.484 (1.039) | 55 | 3476369 | | | 57.89- 117.89 | 86.83 |
| 72 1,2-Dichloropropane | | | | | CAS #: 78-87-5 | | |
| 17.731 | 17.731 (1.054) | 63 | 2493681 | 40.0000 | 35.402 | 70.00- 130.00 | 100.00(A) |
| 17.731 | 17.731 (1.054) | 62 | 1835166 | | | 43.22- 103.22 | 73.59 |
| 17.731 | 17.731 (1.054) | 41 | 1429790 | | | 28.84- 88.84 | 57.34 |
| 74 1,4-Dioxane | | | | | CAS #: 123-91-1 | | |
| 17.868 | 17.868 (1.062) | 88 | 1584546 | 40.0000 | 37.723 | 70.00- 130.00 | 100.00(A) |
| 17.868 | 17.868 (1.062) | 58 | 1200752 | | | 46.02- 106.02 | 75.78 |
| 17.868 | 17.868 (1.062) | 57 | 380055 | | | 0.00- 53.54 | 23.99 |
| 76 Bromodichloromethane | | | | | CAS #: 75-27-4 | | |
| 18.143 | 18.143 (1.078) | 83 | 4678599 | 40.0000 | 38.557 | 70.00- 130.00 | 100.00(A) |
| 18.143 | 18.143 (1.078) | 85 | 2979564 | | | 33.96- 93.96 | 63.68 |
| 77 cis-1,3-Dichloropropene | | | | | CAS #: 10061-01-5 | | |
| 18.986 | 18.986 (1.128) | 75 | 3683997 | 40.0000 | 38.265 | 70.00- 130.00 | 100.00(A) |
| 19.008 | 19.008 (1.130) | 77 | 1161832 | | | 1.99- 61.99 | 31.54 |
| 18.986 | 18.986 (1.128) | 39 | 1910324 | | | 22.62- 82.62 | 51.85 |
| 78 4-Methyl-2-pentanone | | | | | CAS #: 108-10-1 | | |
| 19.187 | 19.187 (1.140) | 43 | 5737295 | 40.0000 | 39.395 | 70.00- 130.00 | 100.00(A) |
| 19.187 | 19.187 (1.140) | 58 | 2341651 | | | 10.31- 70.31 | 40.81 |
| 19.187 | 19.187 (1.140) | 85 | 963541 | | | 0.00- 46.66 | 16.79 |
| 81 Toluene | | | | | CAS #: 108-88-3 | | |
| 19.523 | 19.523 (1.160) | 91 | 7450996 | 40.0000 | 36.739 | 70.00- 130.00 | 100.00(A) |
| 19.523 | 19.523 (1.160) | 92 | 4504782 | | | 30.18- 90.18 | 60.46 |
| 82 trans-1,3-Dichloropropene | | | | | CAS #: 10061-02-6 | | |
| 19.943 | 19.943 (0.923) | 75 | 3754343 | 40.0000 | 37.790 | 70.00- 130.00 | 100.00(A) |
| 19.943 | 19.943 (0.923) | 77 | 1193684 | | | 1.51- 61.51 | 31.79 |
| 19.910 | 19.910 (0.921) | 39 | 1837762 | | | 18.92- 78.92 | 48.95 |

| RT | EXP RT (REL RT) | MASS | RESPONSE | AMOUNTS CAL-AMT ( PPBV) | ON-COL ( PPBV) | TARGET RANGE | RATIO |
|---|---|---|---|---|---|---|---|
| 83 1,1,2-Trichloroethane | | | | | | CAS #: 79-00-5 | |
| 20.235 | 20.235 (0.936) | 97 | 2692745 | 40.0000 | 34.057 | 70.00- 130.00 | 100.00(A) |
| 20.235 | 20.235 (0.936) | 99 | 1681829 | | | 32.01- 92.01 | 62.46 |
| 20.235 | 20.235 (0.936) | 83 | 2321278 | | | 56.07- 116.07 | 86.20 |
| 84 Tetrachloroethene | | | | | | CAS #: 127-18-4 | |
| 20.365 | 20.365 (0.942) | 166 | 3199569 | 40.0000 | 35.105 | 70.00- 130.00 | 100.00(A) |
| 20.365 | 20.365 (0.942) | 129 | 2522230 | | | 48.84- 108.84 | 78.83 |
| 20.365 | 20.365 (0.942) | 131 | 2435862 | | | 46.09- 106.09 | 76.13 |
| 85 2-Hexanone | | | | | | CAS #: 591-78-6 | |
| 20.495 | 20.495 (0.948) | 58 | 3073220 | 40.0000 | 38.783 | 70.00- 130.00 | 100.00(A) |
| 20.495 | 20.495 (0.948) | 43 | 5448906 | | | 132.91- 192.91 | 177.30 |
| 20.528 | 20.528 (0.950) | 100 | 622896 | | | 0.00- 49.97 | 20.27 |
| 86 Dibromochloromethane | | | | | | CAS #: 124-48-1 | |
| 20.820 | 20.820 (0.963) | 129 | 4556438 | 40.0000 | 39.074 | 70.00- 130.00 | 100.00(A) |
| 20.820 | 20.820 (0.963) | 127 | 3537801 | | | 48.12- 108.12 | 77.64 |
| 87 1,2-Dibromoethane | | | | | | CAS #: 106-93-4 | |
| 21.048 | 21.048 (0.974) | 107 | 4081639 | 40.0000 | 36.224 | 70.00- 130.00 | 100.00(A) |
| 21.048 | 21.048 (0.974) | 109 | 3834597 | | | 64.41- 124.41 | 93.95 |
| 89 Chlorobenzene | | | | | | CAS #: 108-90-7 | |
| 21.662 | 21.662 (1.002) | 112 | 5748100 | 40.0000 | 35.831 | 70.00- 130.00 | 100.00(A) |
| 21.662 | 21.662 (1.002) | 114 | 1838145 | | | 2.00- 62.00 | 31.98 |
| 21.662 | 21.662 (1.002) | 77 | 3503508 | | | 31.66- 91.66 | 60.95 |
| 91 Ethyl Benzene | | | | | | CAS #: 100-41-4 | |
| 21.710 | 21.710 (1.004) | 106 | 2969745 | 40.0000 | 36.081 | 70.00- 130.00 | 100.00(A) |
| 21.710 | 21.710 (1.004) | 91 | 9459481 | | | 291.22- 351.22 | 318.53 |
| 93 m,p-Xylene | | | | | | CAS #: 108-38-3 | |
| 21.879 | 21.879 (1.012) | 106 | 3300486 | 40.0000 | 36.672 | 70.00- 130.00 | 100.00(A) |
| 21.879 | 21.879 (1.012) | 91 | 6702202 | | | 173.15- 233.15 | 203.07 |
| 94 o-Xylene | | | | | | CAS #: 95-47-6 | |
| 22.385 | 22.385 (1.036) | 106 | 3202767 | 40.0000 | 36.987 | 70.00- 130.00 | 100.00(A) |
| 22.385 | 22.385 (1.036) | 91 | 6846394 | | | 185.20- 245.20 | 213.76 |
| 95 Styrene | | | | | | CAS #: 100-42-5 | |
| 22.433 | 22.433 (1.038) | 104 | 5364718 | 40.0000 | 38.117 | 70.00- 130.00 | 100.00(A) |
| 22.409 | 22.409 (1.037) | 78 | 2748174 | | | 21.95- 81.95 | 51.23 |
| 97 Bromoform | | | | | | CAS #: 75-25-2 | |
| 22.707 | 22.707 (1.051) | 173 | 4055651 | 40.0000 | 40.803 | 70.00- 130.00 | 100.00(A) |

| RT | EXP RT (REL RT) | MASS | RESPONSE | AMOUNTS CAL-AMT ( PPBV) | AMOUNTS ON-COL ( PPBV) | TARGET RANGE | RATIO |
|---|---|---|---|---|---|---|---|
| 97 Bromoform (continued) | | | | | | | |
| 22.707 | 22.707 (1.051) | 171 | 2123156 | | | 22.12- 82.12 | 52.35 |
| 98 Cumene | | | | | CAS #: 98-82-8 | | |
| 22.810 | 22.810 (1.055) | 105 | 9687822 | 40.0000 | 37.268 | 70.00- 130.00 | 100.00(A) |
| 22.810 | 22.810 (1.055) | 120 | 2553239 | | | 0.00- 56.13 | 26.36 |
| 103 1,1,2,2-Tetrachloroethane | | | | | CAS #: 79-34-5 | | |
| 23.223 | 23.223 (1.074) | 83 | 5590881 | 40.0000 | 37.258 | 70.00- 130.00 | 100.00(A) |
| 23.223 | 23.223 (1.074) | 85 | 3604495 | | | 34.44- 94.44 | 64.47 |
| 104 Propylbenzene | | | | | CAS #: 103-65-1 | | |
| 23.300 | 23.300 (1.078) | 91 | 9986141 | 40.0000 | 37.125 | 70.00- 130.00 | 100.00(A) |
| 23.300 | 23.300 (1.078) | 120 | 2242414 | | | 0.00- 52.40 | 22.46 |
| 107 4-Ethyltoluene | | | | | CAS #: 622-96-8 | | |
| 23.403 | 23.403 (1.083) | 105 | 8967552 | 40.0000 | 36.529 | 70.00- 130.00 | 100.00(A) |
| 23.403 | 23.403 (1.083) | 120 | 2738412 | | | 0.31- 60.31 | 30.54 |
| 109 1,3,5-Trimethylbenzene | | | | | CAS #: 108-67-8 | | |
| 23.481 | 23.481 (1.086) | 105 | 6814289 | 40.0000 | 35.138 | 70.00- 130.00 | 100.00(A) |
| 23.481 | 23.481 (1.086) | 120 | 3317779 | | | 18.26- 78.26 | 48.69 |
| 112 1,2,4-Trimethylbenzene | | | | | CAS #: 95-63-6 | | |
| 23.893 | 23.893 (1.105) | 105 | 5994075 | 40.0000 | 33.116 | 70.00- 130.00 | 100.00(A) |
| 23.893 | 23.893 (1.105) | 120 | 2701825 | | | 15.25- 75.25 | 45.07 |
| 115 1,3-Dichlorobenzene | | | | | CAS #: 541-73-1 | | |
| 24.280 | 24.280 (1.123) | 146 | 4382954 | 40.0000 | 34.448 | 70.00- 130.00 | 100.00(A) |
| 24.280 | 24.280 (1.123) | 148 | 2777045 | | | 33.56- 93.56 | 63.36 |
| 24.280 | 24.280 (1.123) | 111 | 1957980 | | | 14.68- 74.68 | 44.67 |
| 117 1,4-Dichlorobenzene | | | | | CAS #: 106-46-7 | | |
| 24.383 | 24.383 (1.128) | 146 | 4054631 | 40.0000 | 35.492 | 70.00- 130.00 | 100.00(A) |
| 24.383 | 24.383 (1.128) | 148 | 2575145 | | | 33.39- 93.39 | 63.51 |
| 24.383 | 24.383 (1.128) | 111 | 1736137 | | | 12.70- 72.70 | 42.82 |
| 118 alpha-chlorotoluene | | | | | CAS #: 100-44-7 | | |
| 24.512 | 24.512 (1.134) | 91 | 7497147 | 40.0000 | 42.643 | 70.00- 130.00 | 100.00(A) |
| 24.512 | 24.512 (1.134) | 126 | 1479801 | | | 0.00- 49.37 | 19.74 |
| 121 1,2-Dichlorobenzene | | | | | CAS #: 95-50-1 | | |
| 24.796 | 24.796 (1.147) | 146 | 3985851 | 40.0000 | 35.611 | 70.00- 130.00 | 100.00(A) |
| 24.796 | 24.796 (1.147) | 148 | 2514883 | | | 32.38- 92.38 | 63.10 |
| 24.796 | 24.796 (1.147) | 111 | 1853818 | | | 16.44- 76.44 | 46.51 |

| RT | EXP RT (REL RT) | MASS | RESPONSE | AMOUNTS CAL-AMT ( PPBV) | ON-COL ( PPBV) | TARGET RANGE | RATIO |
|---|---|---|---|---|---|---|---|
| 126 1,2,4-Trichlorobenzene | | | | | CAS #: 120-82-1 | | |
| 26.550 | 26.550 (1.228) | 180 | 2718370 | 40.0000 | 42.218 | 70.00- 130.00 | 100.00(A) |
| 26.550 | 26.550 (1.228) | 182 | 2564523 | | | 62.96- 122.96 | 94.34 |
| 128 Hexachlorobutadiene | | | | | CAS #: 87-68-3 | | |
| 26.653 | 26.653 (1.233) | 225 | 2183627 | 40.0000 | 45.477 | 70.00- 130.00 | 100.00(A) |
| 26.653 | 26.653 (1.233) | 223 | 1391442 | | | 34.16- 94.16 | 63.72 |
| 129 Naphthalene | | | | | CAS #: 91-20-3 | | |
| 26.885 | 26.885 (1.244) | 128 | 5307271 | 40.0000 | 39.492 | 70.00- 130.00 | 100.00(A) |
| 26.885 | 26.885 (1.244) | 127 | 671226 | | | 0.00- 42.68 | 12.65 |

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.

Report Date: 29-Aug-2011 10:21

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msda.i
Lab File ID: a081812.d
Lab Smp Id: ICAL
Analysis Type: VOA
Quant Type: ISTD
Operator: jc
Method File: /chem/msda.i/18Aug2011.b/a11l0818a.m
Misc Info: 40.0ppbv (50ppbv)

Calibration Date: 18-AUG-2011
Calibration Time: 17:09
Client Smp ID: Level 11
Level: LOW
Sample Type: AIR

| | | AREA LIMIT | | | |
|---|---|---|---|---|---|
| COMPOUND | STANDARD | LOWER | UPPER | SAMPLE | %DIFF |
| 52 Bromochloromethan | 220017 | 132010 | 308024 | 198841 | -9.62 |
| 66 1,4-Difluorobenze | 1019583 | 611750 | 1427416 | 954770 | -6.36 |
| 88 Chlorobenzene-d5 | 873528 | 524117 | 1222939 | 843954 | -3.39 |

| | | RT LIMIT | | | |
|---|---|---|---|---|---|
| COMPOUND | STANDARD | LOWER | UPPER | SAMPLE | %DIFF |
| 52 Bromochloromethan | 15.41 | 15.08 | 15.74 | 15.41 | 0.00 |
| 66 1,4-Difluorobenze | 16.83 | 16.50 | 17.16 | 16.82 | 0.00 |
| 88 Chlorobenzene-d5 | 21.61 | 21.28 | 21.94 | 21.61 | 0.00 |

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Data File: /chem/msda.i/18Aug2011.b/a081812.d



Date : 18-AUG-2011 18:56

Client ID: Level 11

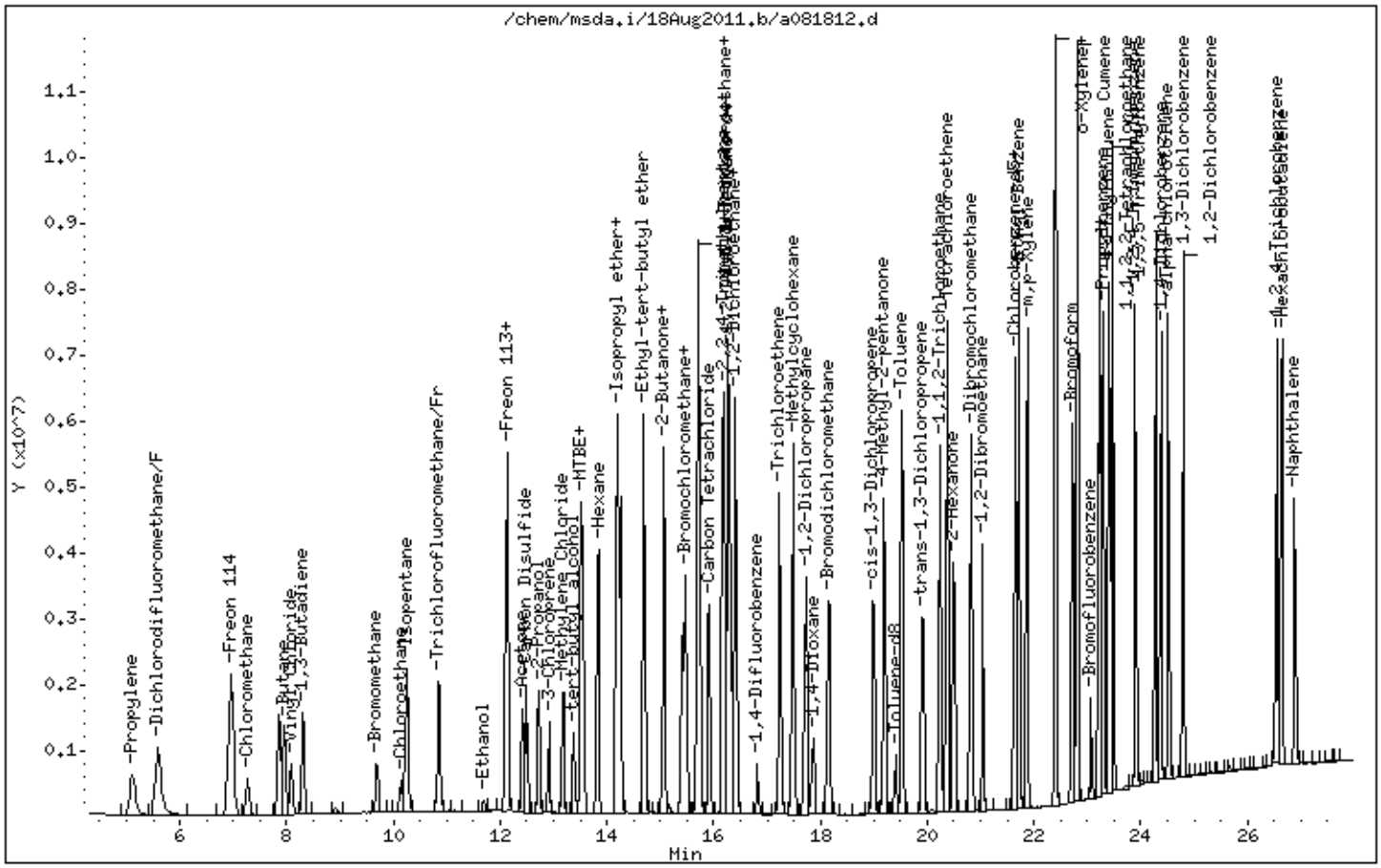
Instrument: msda.i

Sample Info: 200mL #2296-84

Operator: jc

Column phase: RTx-624

Column diameter: 0.32



Air Toxics Ltd.

AMBIENT AIR METHOD TO14/TO15

Data file : /chem/msda.i/31Aug2011.b/a083106.d
Lab Smp Id: ICAL level 12 Client Smp ID: level 12
Inj Date : 31-AUG-2011 11:39
Operator : dfm Inst ID: msda.i
Smp Info : 125mL #2296-177
Misc Info : 1.0ppbv (2.0ppbv)
Comment :
Method : /chem/msda.i/31Aug2011.b/a11l0818b.m
Meth Date : 01-Sep-2011 08:36 croush Quant Type: ISTD
Cal Date : 31-AUG-2011 11:39 Cal File: a083106.d
Als bottle: 17 Calibration Sample, Level: 12
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: spAT3.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

| | | | | AMOUNTS | | | |
|---|---|---|---|---|---|---|---|
| | | | | CAL-AMT | ON-COL | | |
| RT | EXP RT (REL RT) | MASS | RESPONSE | ( PPBV) | ( PPBV) | TARGET RANGE | RATIO |
| == | ====== ======== | ==== | ======== | ======= | ======= | ========== | ===== |
| * 52 Bromochloromethane | | | | | | CAS #: 74-97-5 | |
| 15.406 | 15.406 (1.000) | 130 | 193143 | 10.0000 | | 70.00- 130.00 | 100.00 |
| 15.406 | 15.406 (1.000) | 128 | 146835 | | | 0.00- 30.00 | 76.02 |
| 15.406 | 15.406 (1.000) | 49 | 323925 | | | 0.00- 30.00 | 167.71 |
| * 66 1,4-Difluorobenzene | | | | | | CAS #: 540-36-3 | |
| 16.825 | 16.825 (1.000) | 114 | 910364 | 10.0000 | | 70.00- 130.00 | 100.00 |
| 16.825 | 16.825 (1.000) | 88 | 153051 | | | 0.00- 30.00 | 16.81 |
| * 88 Chlorobenzene-d5 | | | | | | CAS #: 3114-55-4 | |
| 21.614 | 21.614 (1.000) | 117 | 769147 | 10.0000 | | 70.00- 130.00 | 100.00 |
| 21.614 | 21.614 (1.000) | 82 | 459191 | | | 0.00- 30.00 | 59.70 |
| 54 2,3-Dimethylpentane | | | | | | CAS #: 565-59-3 | |
| 15.683 | 15.683 (1.018) | 71 | 29031 | 1.00000 | 1.000 | 0.00- 30.00 | 100.00 |
| 15.683 | 15.683 (1.018) | 56 | 89807 | | | 0.00- 30.00 | 309.35 |
| 15.683 | 15.683 (1.018) | 43 | 70319 | | | 0.00- 30.00 | 242.22 |
| 30 2-Methylpentane | | | | | | CAS #: 107-83-5 | |
| 12.995 | 12.995 (0.844) | 71 | 32989 | 1.00000 | 1.000 | 0.00- 30.00 | 100.00 |

| RT | EXP RT (REL RT) | MASS | RESPONSE | AMOUNTS CAL-AMT ( PPBV) | ON-COL ( PPBV) | TARGET RANGE | RATIO |
|---|---|---|---|---|---|---|---|
| 30 2-Methylpentane (continued) | | | | | | | |
| 12.995 | 12.995 (0.844) | 43 | 99806 | | | 0.00- 30.00 | 302.54 |
| 12.995 | 12.995 (0.844) | 42 | 52690 | | | 0.00- 30.00 | 159.72 |
| 122 Indene | | | | | CAS #: 95-13-6 | | |
| 24.874 | 24.874 (1.151) | 115 | 25784 | 1.00000 | 1.000 | 0.00- 30.00 | 100.00(TH) |
| 24.874 | 24.874 (1.151) | 116 | 22401 | | | 0.00- 30.00 | 86.88 |
| 0.000 | 1.000 (0.000) | 0 | 0 | | | 0.00- 30.00 | 0.00 |
| 119 Indan | | | | | CAS #: 496-11-7 | | |
| 24.616 | 24.616 (1.139) | 117 | 63019 | 1.00000 | 1.000 | 0.00- 30.00 | 100.00(H) |
| 24.616 | 24.616 (1.139) | 118 | 35925 | | | 0.00- 30.00 | 57.01 |
| 24.616 | 24.616 (1.139) | 91 | 12640 | | | 0.00- 30.00 | 20.06 |
| 65 Thiophene | | | | | CAS #: 110-02-1 | | |
| 16.605 | 16.605 (0.987) | 84 | 102059 | 1.00000 | 1.000 | 0.00- 30.00 | 100.00(TH) |
| 16.605 | 16.605 (0.987) | 58 | 71318 | | | 0.00- 30.00 | 69.88 |
| 0.000 | 1.000 (0.000) | 0 | 0 | | | 0.00- 30.00 | 0.00 |

## QC Flag Legend

T - Target compound detected outside RT window.
H - Operator selected an alternate compound hit.

Report Date: 01-Sep-2011 08:36

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msda.i
Lab File ID: a083106.d
Lab Smp Id: ICAL level 12
Analysis Type: VOA
Quant Type: ISTD
Operator: dfm
Method File: /chem/msda.i/31Aug2011.b/a11l0818b.m
Misc Info: 1.0ppbv (2.0ppbv)

Calibration Date: 31-AUG-2011
Calibration Time: 08:01
Client Smp ID: level 12
Level: LOW
Sample Type: AIR

| | | AREA LIMIT | | | |
|---|---|---|---|---|---|
| COMPOUND | STANDARD | LOWER | UPPER | SAMPLE | %DIFF |
| 52 Bromochloromethan | 206450 | 123870 | 289030 | 193143 | -6.45 |
| 66 1,4-Difluorobenze | 897592 | 538555 | 1256629 | 910364 | 1.42 |
| 88 Chlorobenzene-d5 | 792197 | 475318 | 1109076 | 769147 | -2.91 |

| | | RT LIMIT | | | |
|---|---|---|---|---|---|
| COMPOUND | STANDARD | LOWER | UPPER | SAMPLE | %DIFF |
| 52 Bromochloromethan | 15.41 | 15.08 | 15.74 | 15.41 | 0.00 |
| 66 1,4-Difluorobenze | 16.82 | 16.50 | 17.15 | 16.83 | 0.00 |
| 88 Chlorobenzene-d5 | 21.61 | 21.28 | 21.94 | 21.61 | 0.00 |

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Data File: /chem/msda.i/31Aug2011.b/a083106.d



Date : 31-AUG-2011 11:39

Client ID: level 12

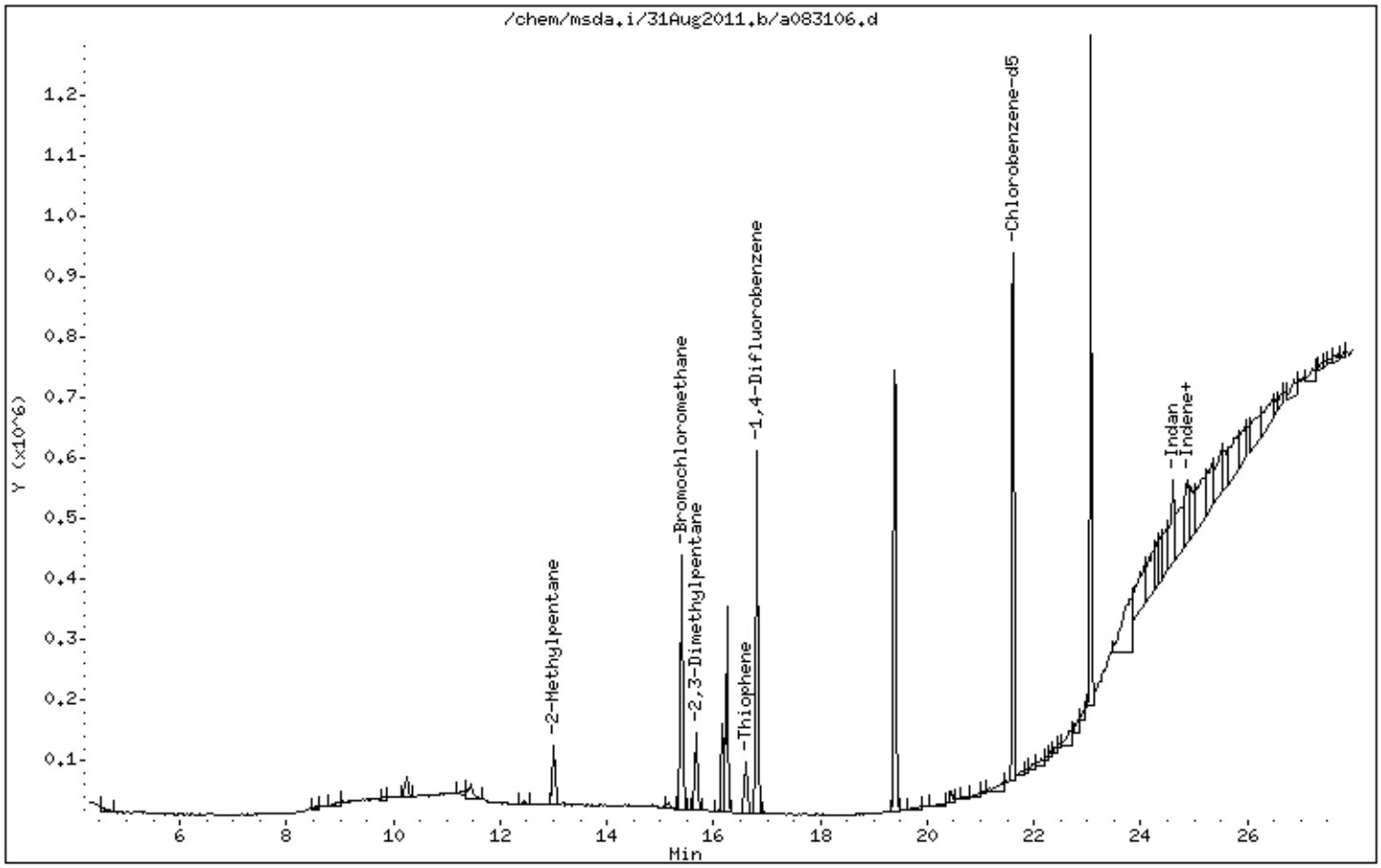
Instrument: msda.i

Sample Info: 125mL #2296-177

Operator: dfm

Column phase: RTx-624

Column diameter: 0.32



Air Toxics Ltd.

AMBIENT AIR METHOD TO14/TO15

Data file : /chem/msda.i/19Aug2011.b/a081907.d
Lab Smp Id: ICAL Client Smp ID: Level #12
Inj Date : 19-AUG-2011 14:38
Operator : cr Inst ID: msda.i
Smp Info : 150mL #2296-42A
Misc Info : 1.5ppbv (2.5ppbv) AT-4
Comment :
Method : /chem/msda.i/19Aug2011.b/a11l0818a.m
Meth Date : 29-Aug-2011 10:27 croush Quant Type: ISTD
Cal Date : 19-AUG-2011 14:38 Cal File: a081907.d
Als bottle: 5 Calibration Sample, Level: 12
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AT4.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

| | | | | AMOUNTS | | | |
|---|---|---|---|---|---|---|---|
| | | | | CAL-AMT | ON-COL | | |
| RT | EXP RT (REL RT) | MASS | RESPONSE | ( PPBV) | ( PPBV) | TARGET RANGE | RATIO |
| * 52 Bromochloromethane | | | | | | CAS #: 74-97-5 | |
| 15.406 | 15.406 (1.000) | 130 | 202340 | 10.0000 | | 80.00- 120.00 | 100.00 |
| 15.406 | 15.406 (1.000) | 128 | 157622 | | | 0.00- 30.00 | 77.90 |
| 15.406 | 15.406 (1.000) | 49 | 321626 | | | 0.00- 30.00 | 158.95 |
| * 66 1,4-Difluorobenzene | | | | | | CAS #: 540-36-3 | |
| 16.825 | 16.825 (1.000) | 114 | 1024934 | 10.0000 | | 80.00- 120.00 | 100.00 |
| 16.825 | 16.825 (1.000) | 88 | 176354 | | | 0.00- 30.00 | 17.21 |
| * 88 Chlorobenzene-d5 | | | | | | CAS #: 3114-55-4 | |
| 21.614 | 21.614 (1.000) | 117 | 876752 | 10.0000 | | 80.00- 120.00 | 100.00 |
| 21.614 | 21.614 (1.000) | 82 | 528424 | | | 0.00- 30.00 | 60.27 |
| 15 Vinyl Bromide | | | | | | CAS #: 593-60-2 | |
| 10.675 | 10.675 (0.693) | 106 | 47272 | 1.50000 | 1.425 | 80.00- 120.00 | 100.00 |
| 10.675 | 10.675 (0.693) | 108 | 43772 | | | 0.00- 30.00 | 92.60 |
| 31 Acetonitrile | | | | | | CAS #: 75-05-8 | |
| 13.050 | 13.050 (0.847) | 41 | 87401 | 1.50000 | 1.523 | 80.00- 120.00 | 100.00 |
| 13.050 | 13.050 (0.847) | 40 | 49119 | | | 0.00- 30.00 | 56.20 |

| RT | EXP RT (REL RT) | MASS | RESPONSE | AMOUNTS CAL-AMT ( PPBV) | ON-COL ( PPBV) | TARGET RANGE | RATIO |
|---|---|---|---|---|---|---|---|
| 31 Acetonitrile (continued) | | | | | | | |
| 13.050 | 13.050 (0.847) | 39 | 18528 | | | 0.00- 30.00 | 21.20 |
| 37 Acrylonitrile | | | | | CAS #: 107-13-1 | | |
| 13.682 | 13.682 (0.888) | 53 | 66854 | 1.50000 | 1.450 | 80.00- 120.00 | 100.00 |
| 13.682 | 13.682 (0.888) | 52 | 57507 | | | 0.00- 30.00 | 86.02 |
| 43 Chloroprene | | | | | CAS #: 126-99-8 | | |
| 14.313 | 14.313 (0.929) | 53 | 111122 | 1.50000 | 1.501 | 80.00- 120.00 | 100.00 |
| 14.313 | 14.313 (0.929) | 88 | 57378 | | | 0.00- 30.00 | 51.64 |

Report Date: 29-Aug-2011 10:27

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msda.i
Lab File ID: a081907.d
Lab Smp Id: ICAL
Analysis Type: VOA
Quant Type: ISTD
Operator: cr
Method File: /chem/msda.i/19Aug2011.b/a11l0818a.m
Misc Info: 1.5ppbv (2.5ppbv) AT-4

Calibration Date: 19-AUG-2011
Calibration Time: 14:38
Client Smp ID: Level #12
Level: LOW
Sample Type: AIR

| | | AREA LIMIT | | | |
|---|---|---|---|---|---|
| COMPOUND | STANDARD | LOWER | UPPER | SAMPLE | %DIFF |
| 52 Bromochloromethan | 202340 | 121404 | 283276 | 202340 | 0.00 |
| 66 1,4-Difluorobenze | 1024934 | 614960 | 1434908 | 1024934 | 0.00 |
| 88 Chlorobenzene-d5 | 876752 | 526051 | 1227453 | 876752 | 0.00 |

| | | RT LIMIT | | | |
|---|---|---|---|---|---|
| COMPOUND | STANDARD | LOWER | UPPER | SAMPLE | %DIFF |
| 52 Bromochloromethan | 15.41 | 15.08 | 15.74 | 15.41 | 0.00 |
| 66 1,4-Difluorobenze | 16.82 | 16.49 | 17.15 | 16.82 | 0.00 |
| 88 Chlorobenzene-d5 | 21.61 | 21.28 | 21.94 | 21.61 | 0.00 |

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Data File: /chem/msda.i/19Aug2011.b/a081907.d

Date : 19-AUG-2011 14:38

Client ID: Level #12

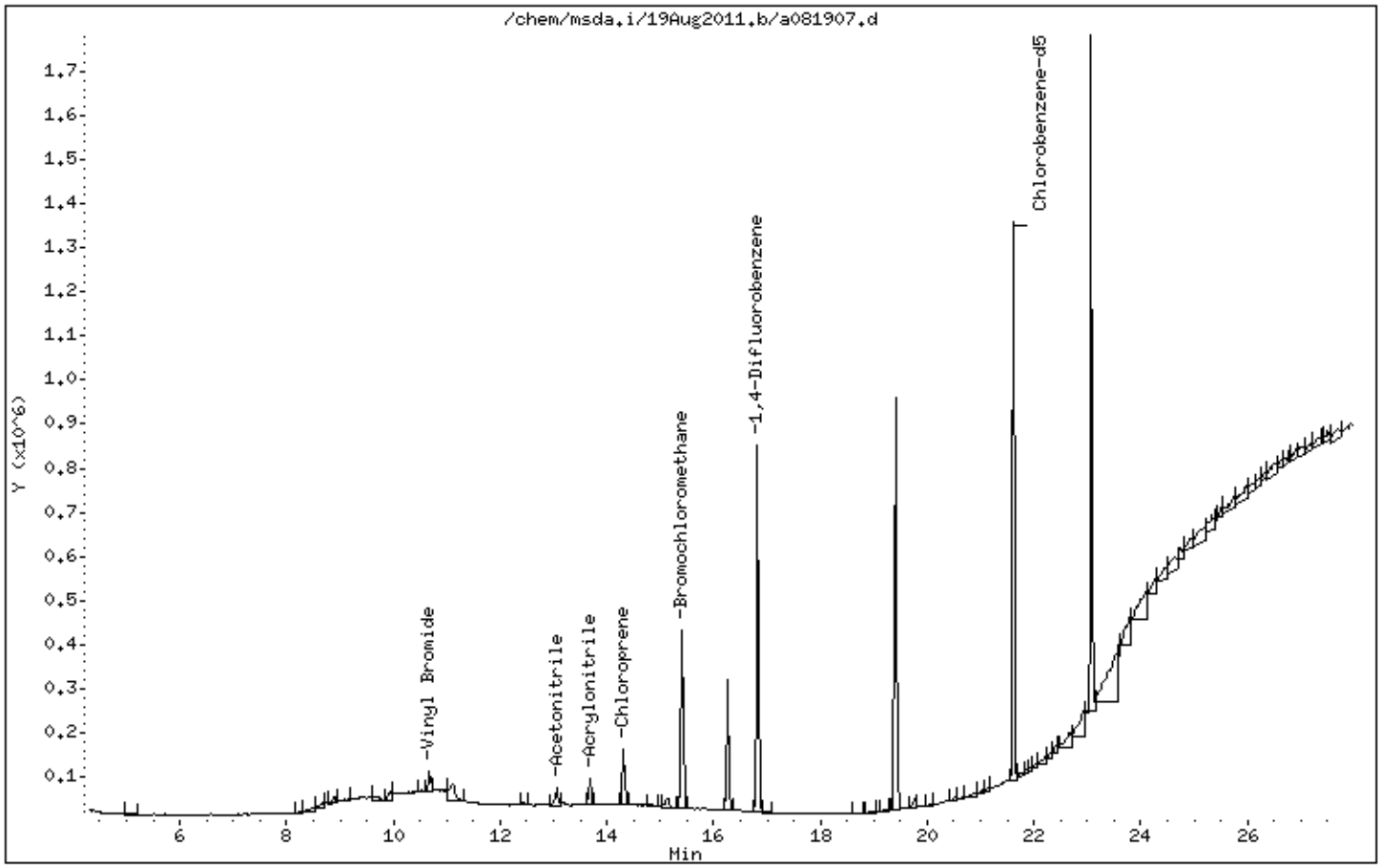
Instrument: msda.i

Sample Info: 150mL #2296-42A

Operator: cr

Column phase: RTx-624

Column diameter: 0.32



Air Toxics Ltd.

AMBIENT AIR METHOD TO14/TO15

Data file : /chem/msda.i/19Aug2011.b/a081909.d
Lab Smp Id: ICAL Client Smp ID: Level #13
Inj Date : 19-AUG-2011 16:04
Operator : ea Inst ID: msda.i
Smp Info : 250mL #2296-42A; ICAL; Level #13
Misc Info : 2.5ppbv (2.5ppbv) AT-4
Comment :
Method : /chem/msda.i/19Aug2011.b/a11l0818a.m
Meth Date : 29-Aug-2011 10:27 croush Quant Type: ISTD
Cal Date : 19-AUG-2011 16:04 Cal File: a081909.d
Als bottle: 5 Calibration Sample, Level: 13
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AT4.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

| | | | | AMOUNTS | | | |
|---|---|---|---|---|---|---|---|
| | | | | CAL-AMT | ON-COL | | |
| RT | EXP RT (REL RT) | MASS | RESPONSE | ( PPBV) | ( PPBV) | TARGET RANGE | RATIO |
| * 52 Bromochloromethane | | | | | | CAS #: 74-97-5 | |
| 15.406 | 15.406 (1.000) | 130 | 202993 | 10.0000 | | 70.00- 130.00 | 100.00 |
| 15.406 | 15.406 (1.000) | 128 | 158617 | | | 0.00- 30.00 | 78.14 |
| 15.406 | 15.406 (1.000) | 49 | 326579 | | | 0.00- 30.00 | 160.88 |
| * 66 1,4-Difluorobenzene | | | | | | CAS #: 540-36-3 | |
| 16.825 | 16.825 (1.000) | 114 | 1052553 | 10.0000 | | 70.00- 130.00 | 100.00 |
| 16.825 | 16.825 (1.000) | 88 | 177460 | | | 0.00- 30.00 | 16.86 |
| * 88 Chlorobenzene-d5 | | | | | | CAS #: 3114-55-4 | |
| 21.614 | 21.614 (1.000) | 117 | 895412 | 10.0000 | | 70.00- 130.00 | 100.00 |
| 21.614 | 21.614 (1.000) | 82 | 534599 | | | 0.00- 30.00 | 59.70 |
| 15 Vinyl Bromide | | | | | | CAS #: 593-60-2 | |
| 10.675 | 10.675 (0.693) | 106 | 79216 | 2.50000 | 2.352 | 0.00- 30.00 | 100.00 |
| 10.675 | 10.675 (0.693) | 108 | 74956 | | | 0.00- 30.00 | 94.62 |
| 31 Acetonitrile | | | | | | CAS #: 75-05-8 | |
| 13.050 | 13.050 (0.847) | 41 | 143719 | 2.50000 | 2.507 | 0.00- 30.00 | 100.00 |
| 13.050 | 13.050 (0.847) | 40 | 76212 | | | 0.00- 30.00 | 53.03 |

| RT | EXP RT (REL RT) | MASS | RESPONSE | AMOUNTS CAL-AMT ( PPBV) | AMOUNTS ON-COL ( PPBV) | TARGET RANGE | RATIO |
|---|---|---|---|---|---|---|---|
| 31 Acetonitrile (continued) | | | | | | | |
| 13.050 | 13.050 (0.847) | 39 | 30121 | | | 0.00- 30.00 | 20.96 |
| 37 Acrylonitrile | | | | | CAS #: 107-13-1 | | |
| 13.682 | 13.682 (0.888) | 53 | 111807 | 2.50000 | 2.396 | 0.00- 30.00 | 100.00 |
| 13.682 | 13.682 (0.888) | 52 | 91858 | | | 0.00- 30.00 | 82.16 |
| 43 Chloroprene | | | | | CAS #: 126-99-8 | | |
| 14.313 | 14.313 (0.929) | 53 | 186728 | 2.50000 | 2.515 | 0.00- 30.00 | 100.00 |
| 14.313 | 14.313 (0.929) | 88 | 95292 | | | 0.00- 30.00 | 51.03 |

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msda.i
Lab File ID: a081909.d
Lab Smp Id: ICAL
Analysis Type: VOA
Quant Type: ISTD
Operator: ea
Method File: /chem/msda.i/19Aug2011.b/a11l0818a.m
Misc Info: 2.5ppbv (2.5ppbv) AT-4

Calibration Date: 19-AUG-2011
Calibration Time: 16:04
Client Smp ID: Level #13
Level: LOW
Sample Type: AIR

| | | AREA LIMIT | | | |
|---|---|---|---|---|---|
| COMPOUND | STANDARD | LOWER | UPPER | SAMPLE | %DIFF |
| 52 Bromochloromethan | 202993 | 121796 | 284190 | 202993 | 0.00 |
| 66 1,4-Difluorobenze | 1052553 | 631532 | 1473574 | 1052553 | 0.00 |
| 88 Chlorobenzene-d5 | 895412 | 537247 | 1253577 | 895412 | 0.00 |

| | | RT LIMIT | | | |
|---|---|---|---|---|---|
| COMPOUND | STANDARD | LOWER | UPPER | SAMPLE | %DIFF |
| 52 Bromochloromethan | 15.41 | 15.08 | 15.74 | 15.41 | 0.00 |
| 66 1,4-Difluorobenze | 16.82 | 16.50 | 17.15 | 16.82 | 0.00 |
| 88 Chlorobenzene-d5 | 21.61 | 21.28 | 21.94 | 21.61 | 0.00 |

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Data File: /chem/msda.i/19Aug2011.b/a081909.d



Date : 19-AUG-2011 16:04

Client ID: Level #13

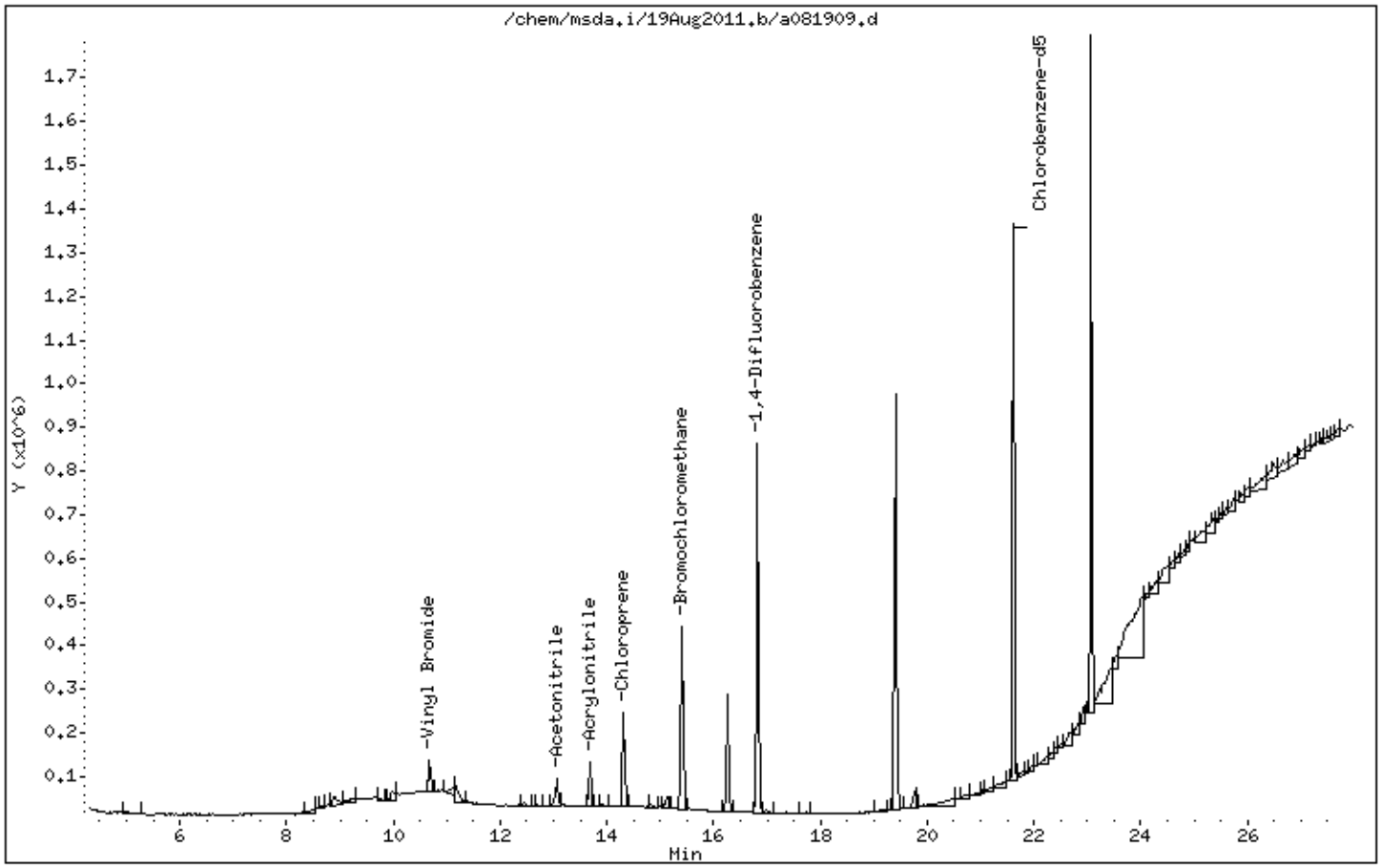
Instrument: msda.i

Sample Info: 250mL #2296-42A; ICAL; Level #13

Operator: ea

Column phase: RTx-624

Column diameter: 0.32



Air Toxics LTD.
Laboratory Services Since 1989

**Client Sample ID: CCV**

**Lab ID#: 1108582-10A**

**MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN**

| | | | |
|---|---|---|---|
| **File Name:** | **a083102** | **Date of Collection: NA** | |
| **Dil. Factor:** | **1.00** | **Date of Analysis: 8/31/11 08:01 AM** | |

| Compound | %Recovery |
|---|---|
| Freon 12 | 96 |
| Freon 114 | 94 |
| Chloromethane | 102 |
| Vinyl Chloride | 98 |
| 1,3-Butadiene | 99 |
| Bromomethane | 83 |
| Chloroethane | 90 |
| Freon 11 | 88 |
| Ethanol | 306 Q |
| Freon 113 | 106 |
| 1,1-Dichloroethene | 99 |
| Acetone | 98 |
| 2-Propanol | 96 |
| Carbon Disulfide | 97 |
| 3-Chloropropene | 100 |
| Methylene Chloride | 84 |
| Methyl tert-butyl ether | 91 |
| trans-1,2-Dichloroethene | 92 |
| Hexane | 93 |
| 1,1-Dichloroethane | 100 |
| 2-Butanone (Methyl Ethyl Ketone) | 91 |
| cis-1,2-Dichloroethene | 91 |
| Tetrahydrofuran | 106 |
| Chloroform | 92 |
| 1,1,1-Trichloroethane | 90 |
| Cyclohexane | 90 |
| Carbon Tetrachloride | 86 |
| 2,2,4-Trimethylpentane | 105 |
| Benzene | 99 |
| 1,2-Dichloroethane | 104 |
| Heptane | 104 |
| Trichloroethene | 99 |
| 1,2-Dichloropropane | 100 |
| 1,4-Dioxane | 100 |
| Bromodichloromethane | 100 |
| cis-1,3-Dichloropropene | 96 |
| 4-Methyl-2-pentanone | 108 |
| Toluene | 96 |
| trans-1,3-Dichloropropene | 93 |
| 1,1,2-Trichloroethane | 92 |
| Tetrachloroethene | 96 |

Air Toxics LTD.
Laboratory Services Since 1989

**Client Sample ID: CCV**

**Lab ID#: 1108582-10A**

**MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN**

| | | | |
|---|---|---|---|
| **File Name:** | **a083102** | **Date of Collection: NA** | |
| **Dil. Factor:** | **1.00** | **Date of Analysis: 8/31/11 08:01 AM** | |

| Compound | %Recovery |
|---|---|
| 2-Hexanone | 103 |
| Dibromochloromethane | 98 |
| 1,2-Dibromoethane (EDB) | 95 |
| Chlorobenzene | 95 |
| Ethyl Benzene | 92 |
| m,p-Xylene | 89 |
| o-Xylene | 92 |
| Styrene | 91 |
| Bromoform | 106 |
| Cumene | 91 |
| 1,1,2,2-Tetrachloroethane | 98 |
| Propylbenzene | 93 |
| 4-Ethyltoluene | 84 |
| 1,3,5-Trimethylbenzene | 96 |
| 1,2,4-Trimethylbenzene | 90 |
| 1,3-Dichlorobenzene | 85 |
| 1,4-Dichlorobenzene | 90 |
| alpha-Chlorotoluene | 100 |
| 1,2-Dichlorobenzene | 89 |
| 1,2,4-Trichlorobenzene | 101 |
| Hexachlorobutadiene | 106 |
| 2,3-Dimethylpentane | 101 |
| 2-Methylpentane | 102 |
| Indene | 118 |
| Indan | 104 |
| Isopentane | 96 |
| Naphthalene | 96 |
| Thiophene | 104 |

Q = Exceeds Quality Control limits.

**Container Type: NA - Not Applicable**

| Surrogates | %Recovery | Method Limits |
|---|---|---|
| 1,2-Dichloroethane-d4 | 103 | 70-130 |
| Toluene-d8 | 101 | 70-130 |
| 4-Bromofluorobenzene | 101 | 70-130 |

Air Toxics Ltd.

## CONTINUING CALIBRATION COMPOUNDS

Instrument ID: msda.i Injection Date: 31-AUG-2011 08:01
Lab File ID: a083102.d Init. Cal. Date(s): 18-AUG-2011 31-AUG-2011
Analysis Type: AIR Init. Cal. Times: 14:46 12:17
Lab Sample ID: CCV Quant Type: ISTD
Method: /chem/msda.i/31Aug2011.b/a11l0818b.m

| COMPOUND | RRF / AMOUNT | RF10 | MIN RRF | %D / %DRIFT | MAX %D / %DRIFT | CURVE TYPE | |
|---|---|---|---|---|---|---|---|
| $ 61 1,2-Dichloroethane-d4 | 1.79948 | 1.86132 | 0.010 | -3.43638 | 30.00000 | Averaged | |
| $ 80 Toluene-d8 | 0.97214 | 0.98413 | 0.010 | -1.23378 | 30.00000 | Averaged | |
| $ 100 Bromofluorobenzene | 0.52085 | 0.52456 | 0.010 | -0.71399 | 30.00000 | Averaged | |
| 2 Propylene | 2.14206 | 2.29271 | 0.010 | -7.03317 | 30.00000 | Averaged | |
| 4 Dichlorodifluoromethane/Fr1 | 6.56991 | 6.33445 | 0.010 | 3.58387 | 30.00000 | Averaged | |
| 6 Freon 114 | 4.15807 | 3.92341 | 0.010 | 5.64347 | 30.00000 | Averaged | |
| 7 Chloromethane | 2.41445 | 2.45906 | 0.010 | -1.84729 | 30.00000 | Averaged | |
| 9 Butane | 0.60450 | 0.61817 | 0.010 | -2.26146 | 30.00000 | Averaged | |
| 10 Vinyl Chloride | 2.72511 | 2.68415 | 0.010 | 1.50316 | 30.00000 | Averaged | |
| 11 1,3-Butadiene | 2.13605 | 2.12484 | 0.010 | 0.52477 | 30.00000 | Averaged | |
| 12 Bromomethane | 1.26865 | 1.04793 | 0.010 | 17.39819 | 30.00000 | Averaged | |
| 13 Chloroethane | 0.96195 | 0.86637 | 0.010 | 9.93634 | 30.00000 | Averaged | |
| 14 Isopentane | 1.99075 | 1.91312 | 0.010 | 3.89922 | 30.00000 | Averaged | |
| 16 Trichlorofluoromethane/Fr11 | 5.22589 | 4.62136 | 0.010 | 11.56801 | 30.00000 | Averaged | |
| 20 Ethanol | 0.36230 | 1.10868 | 0.010 | -206 | 30.00000 | Averaged | <- |
| 23 1,1-Dichloroethene | 1.45268 | 1.43391 | 0.010 | 1.29210 | 30.00000 | Averaged | |
| 22 Freon 113 | 3.53581 | 3.75500 | 0.010 | -6.19911 | 30.00000 | Averaged | |
| 24 Acetone | 1.30071 | 1.27907 | 0.010 | 1.66391 | 30.00000 | Averaged | |
| 26 Carbon Disulfide | 5.33711 | 5.19446 | 0.010 | 2.67279 | 30.00000 | Averaged | |
| 28 3-Chloroprene | 0.53851 | 0.53838 | 0.010 | 0.02397 | 30.00000 | Averaged | |
| 27 2-Propanol | 6.00531 | 5.75040 | 0.010 | 4.24472 | 30.00000 | Averaged | |
| 33 Methylene Chloride | 2.25776 | 1.90235 | 0.010 | 15.74165 | 30.00000 | Averaged | |
| 34 tert-butyl alcohol | 3.98890 | 4.05728 | 0.010 | -1.71428 | 30.00000 | Averaged | |
| 35 MTBE | 7.48562 | 6.83091 | 0.010 | 8.74624 | 30.00000 | Averaged | |
| 36 trans-1,2-Dichloroethene | 1.66115 | 1.53748 | 0.010 | 7.44471 | 30.00000 | Averaged | |
| 40 Hexane | 5.00440 | 4.66732 | 0.010 | 6.73563 | 30.00000 | Averaged | |
| 41 Isopropyl ether | 10.24120 | 10.41964 | 0.010 | -1.74234 | 30.00000 | Averaged | |
| 42 1,1-Dichloroethane | 4.70310 | 4.72217 | 0.010 | -0.40558 | 30.00000 | Averaged | |
| 44 Vinyl Acetate | 0.53820 | 0.55413 | 0.010 | -2.95881 | 30.00000 | Averaged | |
| 46 Ethyl-tert-butyl ether | 9.78698 | 9.31720 | 0.010 | 4.80009 | 30.00000 | Averaged | |
| 47 cis-1,2-Dichloroethene | 1.85010 | 1.67870 | 0.010 | 9.26429 | 30.00000 | Averaged | |
| 48 2-Butanone | 1.49062 | 1.35943 | 0.010 | 8.80055 | 30.00000 | Averaged | |
| 51 Tetrahydrofuran | 3.29206 | 3.48180 | 0.010 | -5.76355 | 30.00000 | Averaged | |
| 53 Chloroform | 5.68684 | 5.22436 | 0.010 | 8.13240 | 30.00000 | Averaged | |
| 55 Cyclohexane | 4.17343 | 3.75303 | 0.010 | 10.07329 | 30.00000 | Averaged | |
| 56 1,1,1-Trichloroethane | 6.07563 | 5.46813 | 0.010 | 9.99893 | 30.00000 | Averaged | |

Air Toxics Ltd.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: msda.i Injection Date: 31-AUG-2011 08:01
Lab File ID: a083102.d Init. Cal. Date(s): 18-AUG-2011 31-AUG-2011
Analysis Type: AIR Init. Cal. Times: 14:46 12:17
Lab Sample ID: CCV Quant Type: ISTD
Method: /chem/msda.i/31Aug2011.b/a11l0818b.m

| COMPOUND | RRF / AMOUNT | RF10 | MIN RRF | %D / %DRIFT | MAX %D / %DRIFT | CURVE TYPE |
|---|---|---|---|---|---|---|
| 57 Carbon Tetrachloride | 4.55489 | 3.94019 | 0.010 | 13.49522 | 30.00000 | Averaged |
| 59 2,2,4-Trimethylpentane | 6.40139 | 6.71999 | 0.010 | -4.97700 | 30.00000 | Averaged |
| 60 Benzene | 1.85734 | 1.83954 | 0.010 | 0.95837 | 30.00000 | Averaged |
| 62 tert-amyl methyl ether | 0.42635 | 0.41999 | 0.010 | 1.49175 | 30.00000 | Averaged |
| 63 1,2-Dichloroethane | 0.87772 | 0.90862 | 0.010 | -3.52108 | 30.00000 | Averaged |
| 64 Heptane | 0.61902 | 0.64525 | 0.010 | -4.23685 | 30.00000 | Averaged |
| 67 Trichloroethene | 0.79310 | 0.78277 | 0.010 | 1.30291 | 30.00000 | Averaged |
| 69 Methylcyclohexane | 1.10075 | 1.10190 | 0.010 | -0.10387 | 30.00000 | Averaged |
| 72 1,2-Dichloropropane | 0.73777 | 0.73674 | 0.010 | 0.13883 | 30.00000 | Averaged |
| 74 1,4-Dioxane | 0.43995 | 0.44056 | 0.010 | -0.13814 | 30.00000 | Averaged |
| 76 Bromodichloromethane | 1.27090 | 1.27032 | 0.010 | 0.04553 | 30.00000 | Averaged |
| 77 cis-1,3-Dichloropropene | 1.00836 | 0.97236 | 0.010 | 3.57001 | 30.00000 | Averaged |
| 78 4-Methyl-2-pentanone | 1.52535 | 1.64680 | 0.010 | -7.96237 | 30.00000 | Averaged |
| 81 Toluene | 2.12417 | 2.03665 | 0.010 | 4.12011 | 30.00000 | Averaged |
| 82 trans-1,3-Dichloropropene | 1.17716 | 1.09538 | 0.010 | 6.94737 | 30.00000 | Averaged |
| 83 1,1,2-Trichloroethane | 0.93685 | 0.86038 | 0.010 | 8.16212 | 30.00000 | Averaged |
| 84 Tetrachloroethene | 1.07994 | 1.03395 | 0.010 | 4.25886 | 30.00000 | Averaged |
| 85 2-Hexanone | 0.93892 | 0.97014 | 0.010 | -3.32501 | 30.00000 | Averaged |
| 86 Dibromochloromethane | 1.38173 | 1.35985 | 0.010 | 1.58348 | 30.00000 | Averaged |
| 87 1,2-Dibromoethane | 1.33511 | 1.27137 | 0.010 | 4.77424 | 30.00000 | Averaged |
| 89 Chlorobenzene | 1.90086 | 1.79957 | 0.010 | 5.32867 | 30.00000 | Averaged |
| 91 Ethyl Benzene | 0.97526 | 0.89942 | 0.010 | 7.77612 | 30.00000 | Averaged |
| 93 m,p-Xylene | 1.06641 | 0.95185 | 0.010 | 10.74267 | 30.00000 | Averaged |
| 94 o-Xylene | 1.02602 | 0.94769 | 0.010 | 7.63415 | 30.00000 | Averaged |
| 95 Styrene | 1.66765 | 1.51348 | 0.010 | 9.24500 | 30.00000 | Averaged |
| 97 Bromoform | 1.17774 | 1.24266 | 0.010 | -5.51233 | 30.00000 | Averaged |
| 98 Cumene | 3.08016 | 2.80978 | 0.010 | 8.77802 | 30.00000 | Averaged |
| 103 1,1,2,2-Tetrachloroethane | 1.77802 | 1.74204 | 0.010 | 2.02379 | 30.00000 | Averaged |
| 104 Propylbenzene | 3.18720 | 2.96620 | 0.010 | 6.93402 | 30.00000 | Averaged |
| 107 4-Ethyltoluene | 2.90881 | 2.45146 | 0.010 | 15.72308 | 30.00000 | Averaged |
| 109 1,3,5-Trimethylbenzene | 2.29788 | 2.20767 | 0.010 | 3.92570 | 30.00000 | Averaged |
| 112 1,2,4-Trimethylbenzene | 2.14466 | 1.93215 | 0.010 | 9.90870 | 30.00000 | Averaged |
| 115 1,3-Dichlorobenzene | 1.50757 | 1.27957 | 0.010 | 15.12380 | 30.00000 | Averaged |
| 117 1,4-Dichlorobenzene | 1.35364 | 1.21720 | 0.010 | 10.07970 | 30.00000 | Averaged |
| 118 alpha-chlorotoluene | 2.08319 | 2.09267 | 0.010 | -0.45523 | 30.00000 | Averaged |

Air Toxics Ltd.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: msda.i Injection Date: 31-AUG-2011 08:01
Lab File ID: a083102.d Init. Cal. Date(s): 18-AUG-2011 31-AUG-2011
Analysis Type: AIR Init. Cal. Times: 14:46 12:17
Lab Sample ID: CCV Quant Type: ISTD
Method: /chem/msda.i/31Aug2011.b/a11l0818b.m

| COMPOUND | RRF / AMOUNT | RF10 | MIN RRF | %D / %DRIFT | MAX %D / %DRIFT | CURVE TYPE |
|---|---|---|---|---|---|---|
| 121 1,2-Dichlorobenzene | 1.32621 | 1.17804 | 0.010 | 11.17231 | 30.00000 | Averaged |
| 126 1,2,4-Trichlorobenzene | 0.76294 | 0.77361 | 0.010 | -1.39861 | 30.00000 | Averaged |
| 128 Hexachlorobutadiene | 0.56894 | 0.60281 | 0.010 | -5.95349 | 30.00000 | Averaged |
| 129 Naphthalene | 1.59236 | 1.52937 | 0.010 | 3.95538 | 40.00000 | Averaged |

Air Toxics Ltd.

AMBIENT AIR METHOD TO14/TO15

Data file : /chem/msda.i/31Aug2011.b/a083102.d
Lab Smp Id: CCV Client Smp ID: CCV
Inj Date : 31-AUG-2011 08:01
Operator : cr Inst ID: msda.i
Smp Info : 50mL #2296-84
Misc Info : 10ppbv (50ppbv)
Comment :
Method : /chem/msda.i/31Aug2011.b/a11l0818b.m
Meth Date : 13-Sep-2011 10:33 ejakob Quant Type: ISTD
Cal Date : 31-AUG-2011 11:39 Cal File: a083106.d
Als bottle: 16 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AT09.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

| | | | | AMOUNTS | | | |
|---|---|---|---|---|---|---|---|
| | | | | CAL-AMT | ON-COL | | |
| RT | EXP RT (REL RT) | MASS | RESPONSE | ( PPBV) | ( PPBV) | TARGET RANGE | RATIO |
| == | ====== ======== | ==== | ======== | ======= | ======= | ========== | ===== |
| * 52 Bromochloromethane | | | | | | CAS #: 74-97-5 | |
| 15.406 | 15.406 (1.000) | 130 | 206450 | 10.0000 | | 80.00- 120.00 | 100.00 |
| 15.406 | 15.406 (1.000) | 128 | 162127 | | | 0.00- 30.00 | 78.53 |
| 15.406 | 15.406 (1.000) | 49 | 464999 | | | 0.00- 30.00 | 225.24 |
| * 66 1,4-Difluorobenzene | | | | | | CAS #: 540-36-3 | |
| 16.825 | 16.825 (1.000) | 114 | 897592 | 10.0000 | | 80.00- 120.00 | 100.00 |
| 16.825 | 16.825 (1.000) | 88 | 152726 | | | 0.00- 30.00 | 17.02 |
| * 88 Chlorobenzene-d5 | | | | | | CAS #: 3114-55-4 | |
| 21.614 | 21.614 (1.000) | 117 | 792197 | 10.0000 | | 80.00- 120.00 | 100.00 |
| 21.614 | 21.614 (1.000) | 82 | 469873 | | | 0.00- 30.00 | 59.31 |
| $ 61 1,2-Dichloroethane-d4 | | | | | | CAS #: 17060-07-0 | |
| 16.248 | 16.248 (1.055) | 65 | 384269 | 10.0000 | 10.344 | 80.00- 120.00 | 100.00 |
| 16.248 | 16.248 (1.055) | 67 | 273901 | | | 21.17- 81.17 | 71.28 |
| $ 80 Toluene-d8 | | | | | | CAS #: 2037-26-5 | |
| 19.411 | 19.411 (1.154) | 98 | 883349 | 10.0000 | 10.123 | 80.00- 120.00 | 100.00 |
| 19.389 | 19.389 (1.152) | 70 | 103852 | | | 0.00- 41.96 | 11.76 |

| RT | EXP RT (REL RT) | MASS | RESPONSE | AMOUNTS CAL-AMT ( PPBV) | AMOUNTS ON-COL ( PPBV) | TARGET RANGE | RATIO |
|---|---|---|---|---|---|---|---|
| $ 80 Toluene-d8 (continued) | | | | | | | |
| 19.411 | 19.411 (1.154) | 100 | 591027 | | | 36.91- 96.91 | 66.91 |
| $ 100 Bromofluorobenzene | | | | | CAS #: 460-00-4 | | |
| 23.068 | 23.068 (1.067) | 174 | 415558 | 10.0000 | 10.071 | 80.00- 120.00 | 100.00 |
| 23.068 | 23.068 (1.067) | 95 | 602456 | | | 114.98- 174.98 | 144.98 |
| 23.068 | 23.068 (1.067) | 176 | 404038 | | | 67.23- 127.23 | 97.23 |
| 2 Propylene | | | | | CAS #: 115-07-1 | | |
| 5.131 | 5.131 (0.333) | 41 | 473331 | 10.0000 | 10.703 | 80.00- 120.00 | 100.00(H) |
| 5.131 | 5.131 (0.333) | 42 | 311427 | | | 36.86- 96.86 | 65.79 |
| 5.131 | 5.131 (0.333) | 39 | 334018 | | | 41.49- 101.49 | 70.57 |
| 4 Dichlorodifluoromethane/Fr12 | | | | | CAS #: 75-71-8 | | |
| 5.613 | 5.613 (0.364) | 85 | 1307748 | 10.0000 | 9.642 | 80.00- 120.00 | 100.00 |
| 5.613 | 5.613 (0.364) | 87 | 422258 | | | 2.29- 62.29 | 32.29 |
| 6 Freon 114 | | | | | CAS #: 76-14-2 | | |
| 6.963 | 6.963 (0.452) | 135 | 809988 | 10.0000 | 9.436 | 80.00- 120.00 | 100.00 |
| 6.963 | 6.963 (0.452) | 137 | 260051 | | | 1.34- 61.34 | 32.11 |
| 6.963 | 6.963 (0.452) | 85 | 1356496 | | | 133.27- 193.27 | 167.47 |
| 7 Chloromethane | | | | | CAS #: 74-87-3 | | |
| 7.276 | 7.276 (0.472) | 50 | 507672 | 10.0000 | 10.185 | 80.00- 120.00 | 100.00 |
| 7.276 | 7.276 (0.472) | 52 | 165208 | | | 2.29- 62.29 | 32.54 |
| 9 Butane | | | | | CAS #: 106-97-8 | | |
| 7.954 | 7.954 (0.516) | 58 | 127622 | 10.0000 | 10.226 | 80.00- 120.00 | 100.00 |
| 7.954 | 7.954 (0.516) | 43 | 916348 | | | 641.41- 701.41 | 718.02 |
| 10 Vinyl Chloride | | | | | CAS #: 75-01-4 | | |
| 8.093 | 8.093 (0.525) | 62 | 554142 | 10.0000 | 9.850 | 80.00- 120.00 | 100.00 |
| 8.093 | 8.093 (0.525) | 64 | 170626 | | | 0.79- 60.79 | 30.79 |
| 11 1,3-Butadiene | | | | | CAS #: 106-99-0 | | |
| 8.319 | 8.319 (0.540) | 54 | 438674 | 10.0000 | 9.948 | 80.00- 120.00 | 100.00(H) |
| 8.301 | 8.301 (0.539) | 39 | 426157 | | | 64.36- 124.36 | 97.15 |
| 12 Bromomethane | | | | | CAS #: 74-83-9 | | |
| 9.701 | 9.701 (0.630) | 94 | 216345 | 10.0000 | 8.260 | 80.00- 120.00 | 100.00 |
| 9.701 | 9.701 (0.630) | 96 | 201325 | | | 63.06- 123.06 | 93.06 |
| 13 Chloroethane | | | | | CAS #: 75-00-3 | | |
| 10.136 | 10.136 (0.658) | 64 | 178862 | 10.0000 | 9.006 | 80.00- 120.00 | 100.00 |
| 10.136 | 10.136 (0.658) | 66 | 59590 | | | 2.32- 62.32 | 33.32 |

| RT | EXP RT (REL RT) | MASS | RESPONSE | AMOUNTS CAL-AMT ( PPBV) | ON-COL ( PPBV) | TARGET RANGE | RATIO |
|---|---|---|---|---|---|---|---|
| 14 Isopentane | | | | | CAS #: 78-78-4 | | |
| 10.260 | 10.260 (0.666) | 57 | 394964 | 10.0000 | 9.610 | 80.00- 120.00 | 100.00 |
| 10.260 | 10.260 (0.666) | 43 | 563204 | | | 104.71- 164.71 | 142.60 |
| 10.260 | 10.260 (0.666) | 42 | 496830 | | | 89.04- 149.04 | 125.79 |
| 16 Trichlorofluoromethane/Fr11 | | | | | CAS #: 75-69-4 | | |
| 10.841 | 10.841 (0.704) | 101 | 954080 | 10.0000 | 8.843 | 80.00- 120.00 | 100.00 |
| 10.861 | 10.861 (0.705) | 103 | 618737 | | | 34.85- 94.85 | 64.85 |
| 20 Ethanol | | | | | CAS #: 64-17-5 | | |
| 11.690 | 11.690 (0.759) | 45 | 228887 | 10.0000 | 30.602 | 80.00- 120.00 | 100.00 |
| 11.690 | 11.690 (0.759) | 43 | 49274 | | | 0.00- 57.08 | 21.53 |
| 11.690 | 11.690 (0.759) | 46 | 91802 | | | 10.87- 70.87 | 40.11 |
| 23 1,1-Dichloroethene | | | | | CAS #: 75-35-4 | | |
| 12.146 | 12.146 (0.788) | 98 | 296031 | 10.0000 | 9.871 | 80.00- 120.00 | 100.00 |
| 12.146 | 12.146 (0.788) | 61 | 857217 | | | 252.93- 312.93 | 289.57 |
| 12.146 | 12.146 (0.788) | 96 | 465868 | | | 129.43- 189.43 | 157.37 |
| 22 Freon 113 | | | | | CAS #: 76-13-1 | | |
| 12.126 | 12.126 (0.787) | 151 | 775220 | 10.0000 | 10.620 | 80.00- 120.00 | 100.00 |
| 12.126 | 12.126 (0.787) | 153 | 489503 | | | 33.14- 93.14 | 63.14 |
| 12.126 | 12.126 (0.787) | 101 | 1083999 | | | 109.89- 169.89 | 139.83 |
| 24 Acetone | | | | | CAS #: 67-64-1 | | |
| 12.416 | 12.416 (0.806) | 58 | 264063 | 10.0000 | 9.834 | 80.00- 120.00 | 100.00 |
| 12.416 | 12.416 (0.806) | 43 | 846028 | | | 283.54- 343.54 | 320.39 |
| 26 Carbon Disulfide | | | | | CAS #: 75-15-0 | | |
| 12.499 | 12.499 (0.811) | 76 | 1072396 | 10.0000 | 9.733 | 80.00- 120.00 | 100.00 |
| 28 3-Chloroprene | | | | | CAS #: 107-05-1 | | |
| 12.913 | 12.913 (0.838) | 76 | 111149 | 10.0000 | 9.998 | 80.00- 120.00 | 100.00 |
| 12.913 | 12.913 (0.838) | 41 | 369264 | | | 273.34- 333.34 | 332.22 |
| 27 2-Propanol | | | | | CAS #: 67-63-0 | | |
| 12.727 | 12.727 (0.826) | 45 | 1187170 | 10.0000 | 9.576 | 80.00- 120.00 | 100.00 |
| 12.727 | 12.727 (0.826) | 43 | 256287 | | | 0.00- 49.76 | 21.59 |
| 12.727 | 12.727 (0.826) | 59 | 50270 | | | 0.00- 34.09 | 4.23 |
| 33 Methylene Chloride | | | | | CAS #: 75-09-2 | | |
| 13.160 | 13.160 (0.854) | 84 | 392740 | 10.0000 | 8.426 | 80.00- 120.00 | 100.00 |
| 13.160 | 13.160 (0.854) | 49 | 615046 | | | 112.00- 172.00 | 156.60 |
| 13.160 | 13.160 (0.854) | 51 | 188134 | | | 13.10- 73.10 | 47.90 |
| 34 tert-butyl alcohol | | | | | CAS #: 75-65-0 | | |
| 13.380 | 13.380 (0.868) | 59 | 837626 | 10.0000 | 10.171 | 80.00- 120.00 | 100.00 |

| RT | EXP RT (REL RT) | MASS | RESPONSE | AMOUNTS CAL-AMT ( PPBV) | ON-COL ( PPBV) | TARGET RANGE | RATIO |
|---|---|---|---|---|---|---|---|
| 34 tert-butyl alcohol (continued) | | | | | | | |
| 13.380 | 13.380 (0.868) | 41 | 219277 | | | 0.00- 48.20 | 26.18 |
| 13.380 | 13.380 (0.868) | 57 | 85621 | | | 0.00- 38.59 | 10.22 |
| 35 MTBE | | | | | CAS #: 1634-04-4 | | |
| 13.489 | 13.489 (0.876) | 73 | 1410241 | 10.0000 | 9.125 | 80.00- 120.00 | 100.00 |
| 13.489 | 13.489 (0.876) | 57 | 366805 | | | 0.00- 55.70 | 26.01 |
| 13.489 | 13.489 (0.876) | 41 | 382917 | | | 0.00- 55.35 | 27.15 |
| 36 trans-1,2-Dichloroethene | | | | | CAS #: 156-60-5 | | |
| 13.544 | 13.544 (0.879) | 98 | 317413 | 10.0000 | 9.256 | 80.00- 120.00 | 100.00 |
| 13.544 | 13.544 (0.879) | 61 | 794885 | | | 212.41- 272.41 | 250.43 |
| 13.544 | 13.544 (0.879) | 96 | 506022 | | | 128.28- 188.28 | 159.42 |
| 40 Hexane | | | | | CAS #: 110-54-3 | | |
| 13.819 | 13.819 (0.897) | 57 | 963569 | 10.0000 | 9.326 | 80.00- 120.00 | 100.00 |
| 13.819 | 13.819 (0.897) | 43 | 643421 | | | 33.38- 93.38 | 66.77 |
| 13.819 | 13.819 (0.897) | 86 | 152874 | | | 0.00- 46.43 | 15.87 |
| 41 Isopropyl ether | | | | | CAS #: 108-20-3 | | |
| 14.176 | 14.176 (0.920) | 45 | 2151134 | 10.0000 | 10.174 | 80.00- 120.00 | 100.00 |
| 14.176 | 14.176 (0.920) | 87 | 490314 | | | 0.00- 54.93 | 22.79 |
| 14.176 | 14.176 (0.920) | 59 | 237868 | | | 0.00- 41.38 | 11.06 |
| 42 1,1-Dichloroethane | | | | | CAS #: 75-34-3 | | |
| 14.231 | 14.231 (0.924) | 63 | 974893 | 10.0000 | 10.040 | 80.00- 120.00 | 100.00 |
| 14.231 | 14.231 (0.924) | 65 | 311421 | | | 2.24- 62.24 | 31.94 |
| 44 Vinyl Acetate | | | | | CAS #: 108-05-4 | | |
| 14.258 | 14.258 (0.926) | 86 | 114400 | 10.0000 | 10.296 | 80.00- 120.00 | 100.00 |
| 14.258 | 14.258 (0.926) | 42 | 111130 | | | 71.80- 131.80 | 97.14 |
| 14.258 | 14.258 (0.926) | 43 | 1298609 | | | 1179.88-1239.88 | 1135.15 |
| 46 Ethyl-tert-butyl ether | | | | | CAS #: 637-92-3 | | |
| 14.671 | 14.671 (0.952) | 59 | 1923535 | 10.0000 | 9.520 | 80.00- 120.00 | 100.00 |
| 14.671 | 14.671 (0.952) | 87 | 706756 | | | 8.46- 68.46 | 36.74 |
| 14.671 | 14.671 (0.952) | 41 | 376422 | | | 0.00- 47.65 | 19.57 |
| 47 cis-1,2-Dichloroethene | | | | | CAS #: 156-59-2 | | |
| 15.044 | 15.044 (0.977) | 98 | 346567 | 10.0000 | 9.074 | 80.00- 120.00 | 100.00 |
| 15.044 | 15.044 (0.977) | 61 | 807067 | | | 191.49- 251.49 | 232.87 |
| 15.044 | 15.044 (0.977) | 96 | 553700 | | | 129.77- 189.77 | 159.77 |
| 48 2-Butanone | | | | | CAS #: 78-93-3 | | |
| 15.065 | 15.065 (0.978) | 72 | 280655 | 10.0000 | 9.120 | 80.00- 120.00 | 100.00 |
| 15.065 | 15.065 (0.978) | 43 | 1260811 | | | 298.82- 358.82 | 449.24 |

| RT | EXP RT (REL RT) | MASS | RESPONSE | AMOUNTS CAL-AMT ( PPBV) | ON-COL ( PPBV) | TARGET RANGE | RATIO |
|---|---|---|---|---|---|---|---|
| 48 2-Butanone (continued) | | | | | | | |
| 15.065 | 15.065 (0.978) | 57 | 96302 | | | 0.00- 56.09 | 34.31 |
| 51 Tetrahydrofuran | | | | | CAS #: 109-99-9 | | |
| 15.406 | 15.406 (1.000) | 42 | 718818 | 10.0000 | 10.576 | 80.00- 120.00 | 100.00 |
| 15.406 | 15.406 (1.000) | 71 | 241304 | | | 6.88- 66.88 | 33.57 |
| 15.406 | 15.406 (1.000) | 72 | 265655 | | | 11.00- 71.00 | 36.96 |
| 53 Chloroform | | | | | CAS #: 67-66-3 | | |
| 15.467 | 15.467 (1.004) | 83 | 1078569 | 10.0000 | 9.187 | 80.00- 120.00 | 100.00 |
| 15.467 | 15.467 (1.004) | 85 | 695739 | | | 34.45- 94.45 | 64.51 |
| 55 Cyclohexane | | | | | CAS #: 110-82-7 | | |
| 15.714 | 15.714 (1.020) | 84 | 774813 | 10.0000 | 8.993 | 80.00- 120.00 | 100.00 |
| 15.714 | 15.714 (1.020) | 56 | 1040826 | | | 97.99- 157.99 | 134.33 |
| 15.714 | 15.714 (1.020) | 41 | 573898 | | | 37.94- 97.94 | 74.07 |
| 56 1,1,1-Trichloroethane | | | | | CAS #: 71-55-6 | | |
| 15.714 | 15.714 (1.020) | 97 | 1128895 | 10.0000 | 9.000 | 80.00- 120.00 | 100.00 |
| 15.714 | 15.714 (1.020) | 99 | 717813 | | | 34.37- 94.37 | 63.59 |
| 57 Carbon Tetrachloride | | | | | CAS #: 56-23-5 | | |
| 15.899 | 15.899 (1.032) | 119 | 813453 | 10.0000 | 8.650 | 80.00- 120.00 | 100.00 |
| 15.899 | 15.899 (1.032) | 117 | 847768 | | | 74.49- 134.49 | 104.22 |
| 59 2,2,4-Trimethylpentane | | | | | CAS #: 540-84-1 | | |
| 16.166 | 16.166 (1.049) | 56 | 1387342 | 10.0000 | 10.498 | 80.00- 120.00 | 100.00 |
| 16.166 | 16.166 (1.049) | 57 | 3986803 | | | 264.71- 324.71 | 287.37 |
| 16.166 | 16.166 (1.049) | 41 | 1102057 | | | 74.97- 134.97 | 79.44 |
| 60 Benzene | | | | | CAS #: 71-43-2 | | |
| 16.248 | 16.248 (0.966) | 78 | 1651154 | 10.0000 | 9.904 | 80.00- 120.00 | 100.00 |
| 16.248 | 16.248 (0.966) | 77 | 376610 | | | 0.00- 53.14 | 22.81 |
| 62 tert-amyl methyl ether | | | | | CAS #: 994-05-8 | | |
| 16.303 | 16.303 (0.969) | 87 | 376978 | 10.0000 | 9.851 | 80.00- 120.00 | 100.00 |
| 16.276 | 16.276 (0.967) | 73 | 1612309 | | | 388.88- 448.88 | 427.69 |
| 16.276 | 16.276 (0.967) | 55 | 497135 | | | 85.24- 145.24 | 131.87 |
| 63 1,2-Dichloroethane | | | | | CAS #: 107-06-2 | | |
| 16.358 | 16.358 (0.972) | 62 | 815572 | 10.0000 | 10.352 | 80.00- 120.00 | 100.00 |
| 16.358 | 16.358 (0.972) | 64 | 263615 | | | 2.07- 62.07 | 32.32 |
| 64 Heptane | | | | | CAS #: 142-82-5 | | |
| 16.413 | 16.413 (0.976) | 57 | 579173 | 10.0000 | 10.424 | 80.00- 120.00 | 100.00 |
| 16.413 | 16.413 (0.976) | 100 | 223095 | | | 11.16- 71.16 | 38.52 |

| RT | EXP RT (REL RT) | MASS | RESPONSE | AMOUNTS CAL-AMT ( PPBV) | ON-COL ( PPBV) | TARGET RANGE | RATIO |
|---|---|---|---|---|---|---|---|
| 64 Heptane (continued) | | | | | | | |
| 16.413 | 16.413 (0.976) | 43 | 1125736 | | | 158.27- 218.27 | 194.37 |
| 67 Trichloroethene | | | | | CAS #: 79-01-6 | | |
| 17.237 | 17.237 (1.024) | 130 | 702604 | 10.0000 | 9.870 | 80.00- 120.00 | 100.00 |
| 17.237 | 17.237 (1.024) | 95 | 728946 | | | 75.28- 135.28 | 103.75 |
| 17.237 | 17.237 (1.024) | 97 | 468819 | | | 37.01- 97.01 | 66.73 |
| 69 Methylcyclohexane | | | | | CAS #: 108-87-2 | | |
| 17.484 | 17.484 (1.039) | 83 | 989053 | 10.0000 | 10.010 | 80.00- 120.00 | 100.00 |
| 17.484 | 17.484 (1.039) | 98 | 472014 | | | 17.59- 77.59 | 47.72 |
| 17.484 | 17.484 (1.039) | 55 | 917891 | | | 57.89- 117.89 | 92.81 |
| 72 1,2-Dichloropropane | | | | | CAS #: 78-87-5 | | |
| 17.704 | 17.704 (1.052) | 63 | 661293 | 10.0000 | 9.986 | 80.00- 120.00 | 100.00 |
| 17.704 | 17.704 (1.052) | 62 | 491500 | | | 43.22- 103.22 | 74.32 |
| 17.704 | 17.704 (1.052) | 41 | 410197 | | | 32.03- 92.03 | 62.03 |
| 74 1,4-Dioxane | | | | | CAS #: 123-91-1 | | |
| 17.868 | 17.868 (1.062) | 88 | 395441 | 10.0000 | 10.014 | 80.00- 120.00 | 100.00 |
| 17.868 | 17.868 (1.062) | 58 | 316425 | | | 46.02- 106.02 | 80.02 |
| 17.868 | 17.868 (1.062) | 57 | 97708 | | | 0.00- 53.54 | 24.71 |
| 76 Bromodichloromethane | | | | | CAS #: 75-27-4 | | |
| 18.143 | 18.143 (1.078) | 83 | 1140228 | 10.0000 | 9.995 | 80.00- 120.00 | 100.00 |
| 18.143 | 18.143 (1.078) | 85 | 731687 | | | 33.96- 93.96 | 64.17 |
| 77 cis-1,3-Dichloropropene | | | | | CAS #: 10061-01-5 | | |
| 18.986 | 18.986 (1.128) | 75 | 872780 | 10.0000 | 9.643 | 80.00- 120.00 | 100.00 |
| 18.986 | 18.986 (1.128) | 77 | 274682 | | | 1.99- 61.99 | 31.47 |
| 18.986 | 18.986 (1.128) | 39 | 489930 | | | 26.13- 86.13 | 56.13 |
| 78 4-Methyl-2-pentanone | | | | | CAS #: 108-10-1 | | |
| 19.165 | 19.165 (1.139) | 43 | 1478154 | 10.0000 | 10.796 | 80.00- 120.00 | 100.00 |
| 19.187 | 19.187 (1.140) | 58 | 558403 | | | 10.31- 70.31 | 37.78 |
| 19.187 | 19.187 (1.140) | 85 | 218612 | | | 0.00- 46.66 | 14.79 |
| 81 Toluene | | | | | CAS #: 108-88-3 | | |
| 19.524 | 19.524 (1.160) | 91 | 1828083 | 10.0000 | 9.588 | 80.00- 120.00 | 100.00 |
| 19.524 | 19.524 (1.160) | 92 | 1105663 | | | 30.18- 90.18 | 60.48 |
| 82 trans-1,3-Dichloropropene | | | | | CAS #: 10061-02-6 | | |
| 19.910 | 19.910 (0.921) | 75 | 867758 | 10.0000 | 9.305 | 80.00- 120.00 | 100.00 |
| 19.910 | 19.910 (0.921) | 77 | 273330 | | | 1.51- 61.51 | 31.50 |
| 19.910 | 19.910 (0.921) | 39 | 464930 | | | 23.58- 83.58 | 53.58 |

| RT | EXP RT (REL RT) | MASS | RESPONSE | AMOUNTS CAL-AMT ( PPBV) | ON-COL ( PPBV) | TARGET RANGE | RATIO |
|---|---|---|---|---|---|---|---|
| 83 1,1,2-Trichloroethane | | | | | CAS #: 79-00-5 | | |
| 20.235 | 20.235 (0.936) | 97 | 681590 | 10.0000 | 9.184 | 80.00- 120.00 | 100.00 |
| 20.235 | 20.235 (0.936) | 99 | 428184 | | | 32.01- 92.01 | 62.82 |
| 20.235 | 20.235 (0.936) | 83 | 587528 | | | 56.20- 116.20 | 86.20 |
| 84 Tetrachloroethene | | | | | CAS #: 127-18-4 | | |
| 20.365 | 20.365 (0.942) | 166 | 819090 | 10.0000 | 9.574 | 80.00- 120.00 | 100.00 |
| 20.365 | 20.365 (0.942) | 129 | 631598 | | | 48.84- 108.84 | 77.11 |
| 20.365 | 20.365 (0.942) | 131 | 599385 | | | 46.09- 106.09 | 73.18 |
| 85 2-Hexanone | | | | | CAS #: 591-78-6 | | |
| 20.495 | 20.495 (0.948) | 58 | 768541 | 10.0000 | 10.332 | 80.00- 120.00 | 100.00 |
| 20.495 | 20.495 (0.948) | 43 | 1441588 | | | 132.91- 192.91 | 187.57 |
| 20.495 | 20.495 (0.948) | 100 | 144573 | | | 0.00- 49.97 | 18.81 |
| 86 Dibromochloromethane | | | | | CAS #: 124-48-1 | | |
| 20.788 | 20.788 (0.962) | 129 | 1077266 | 10.0000 | 9.842 | 80.00- 120.00 | 100.00 |
| 20.788 | 20.788 (0.962) | 127 | 830629 | | | 48.12- 108.12 | 77.11 |
| 87 1,2-Dibromoethane | | | | | CAS #: 106-93-4 | | |
| 21.048 | 21.048 (0.974) | 107 | 1007172 | 10.0000 | 9.522 | 80.00- 120.00 | 100.00 |
| 21.048 | 21.048 (0.974) | 109 | 934376 | | | 64.41- 124.41 | 92.77 |
| 89 Chlorobenzene | | | | | CAS #: 108-90-7 | | |
| 21.638 | 21.638 (1.001) | 112 | 1425613 | 10.0000 | 9.467 | 80.00- 120.00 | 100.00 |
| 21.638 | 21.638 (1.001) | 114 | 459947 | | | 2.00- 62.00 | 32.26 |
| 21.638 | 21.638 (1.001) | 77 | 910547 | | | 33.87- 93.87 | 63.87 |
| 91 Ethyl Benzene | | | | | CAS #: 100-41-4 | | |
| 21.711 | 21.711 (1.004) | 106 | 712521 | 10.0000 | 9.222 | 80.00- 120.00 | 100.00 |
| 21.711 | 21.711 (1.004) | 91 | 2292854 | | | 291.22- 351.22 | 321.79 |
| 93 m,p-Xylene | | | | | CAS #: 108-38-3 | | |
| 21.855 | 21.855 (1.011) | 106 | 754052 | 10.0000 | 8.926 | 80.00- 120.00 | 100.00 |
| 21.855 | 21.855 (1.011) | 91 | 1542455 | | | 173.15- 233.15 | 204.56 |
| 94 o-Xylene | | | | | CAS #: 95-47-6 | | |
| 22.385 | 22.385 (1.036) | 106 | 750760 | 10.0000 | 9.236 | 80.00- 120.00 | 100.00 |
| 22.385 | 22.385 (1.036) | 91 | 1609378 | | | 185.20- 245.20 | 214.37 |
| 95 Styrene | | | | | CAS #: 100-42-5 | | |
| 22.409 | 22.409 (1.037) | 104 | 1198972 | 10.0000 | 9.075 | 80.00- 120.00 | 100.00 |
| 22.409 | 22.409 (1.037) | 78 | 621034 | | | 21.95- 81.95 | 51.80 |
| 97 Bromoform | | | | | CAS #: 75-25-2 | | |
| 22.707 | 22.707 (1.051) | 173 | 984429 | 10.0000 | 10.551 | 80.00- 120.00 | 100.00 |

| RT | EXP RT (REL RT) | MASS | RESPONSE | AMOUNTS CAL-AMT ( PPBV) | ON-COL ( PPBV) | TARGET RANGE | RATIO |
|---|---|---|---|---|---|---|---|
| 97 Bromoform (continued) | | | | | | | |
| 22.707 | 22.707 (1.051) | 171 | 507860 | | | 22.12- 82.12 | 51.59 |
| 98 Cumene | | | | | CAS #: 98-82-8 | | |
| 22.810 | 22.810 (1.055) | 105 | 2225902 | 10.0000 | 9.122 | 80.00- 120.00 | 100.00 |
| 22.810 | 22.810 (1.055) | 120 | 588785 | | | 0.00- 56.13 | 26.45 |
| 103 1,1,2,2-Tetrachloroethane | | | | | CAS #: 79-34-5 | | |
| 23.197 | 23.197 (1.073) | 83 | 1380036 | 10.0000 | 9.798 | 80.00- 120.00 | 100.00 |
| 23.197 | 23.197 (1.073) | 85 | 884356 | | | 34.44- 94.44 | 64.08 |
| 104 Propylbenzene | | | | | CAS #: 103-65-1 | | |
| 23.274 | 23.274 (1.077) | 91 | 2349813 | 10.0000 | 9.306 | 80.00- 120.00 | 100.00 |
| 23.274 | 23.274 (1.077) | 120 | 516626 | | | 0.00- 52.40 | 21.99 |
| 107 4-Ethyltoluene | | | | | CAS #: 622-96-8 | | |
| 23.403 | 23.403 (1.083) | 105 | 1942038 | 10.0000 | 8.428 | 80.00- 120.00 | 100.00 |
| 23.403 | 23.403 (1.083) | 120 | 564897 | | | 0.31- 60.31 | 29.09 |
| 109 1,3,5-Trimethylbenzene | | | | | CAS #: 108-67-8 | | |
| 23.455 | 23.455 (1.085) | 105 | 1748910 | 10.0000 | 9.607 | 80.00- 120.00 | 100.00 |
| 23.455 | 23.455 (1.085) | 120 | 815982 | | | 18.26- 78.26 | 46.66 |
| 112 1,2,4-Trimethylbenzene | | | | | CAS #: 95-63-6 | | |
| 23.893 | 23.893 (1.105) | 105 | 1530644 | 10.0000 | 9.009 | 80.00- 120.00 | 100.00 |
| 23.893 | 23.893 (1.105) | 120 | 688165 | | | 15.25- 75.25 | 44.96 |
| 115 1,3-Dichlorobenzene | | | | | CAS #: 541-73-1 | | |
| 24.254 | 24.254 (1.122) | 146 | 1013669 | 10.0000 | 8.488 | 80.00- 120.00 | 100.00 |
| 24.254 | 24.254 (1.122) | 148 | 643117 | | | 33.56- 93.56 | 63.44 |
| 24.254 | 24.254 (1.122) | 111 | 448414 | | | 14.68- 74.68 | 44.24 |
| 117 1,4-Dichlorobenzene | | | | | CAS #: 106-46-7 | | |
| 24.358 | 24.358 (1.127) | 146 | 964262 | 10.0000 | 8.992 | 80.00- 120.00 | 100.00 |
| 24.358 | 24.358 (1.127) | 148 | 607331 | | | 33.39- 93.39 | 62.98 |
| 24.358 | 24.358 (1.127) | 111 | 401663 | | | 12.70- 72.70 | 41.65 |
| 118 alpha-chlorotoluene | | | | | CAS #: 100-44-7 | | |
| 24.512 | 24.512 (1.134) | 91 | 1657807 | 10.0000 | 10.046 | 80.00- 120.00 | 100.00 |
| 24.512 | 24.512 (1.134) | 126 | 323264 | | | 0.00- 49.37 | 19.50 |
| 121 1,2-Dichlorobenzene | | | | | CAS #: 95-50-1 | | |
| 24.796 | 24.796 (1.147) | 146 | 933243 | 10.0000 | 8.883 | 80.00- 120.00 | 100.00 |
| 24.796 | 24.796 (1.147) | 148 | 584805 | | | 32.66- 92.66 | 62.66 |
| 24.796 | 24.796 (1.147) | 111 | 420964 | | | 15.11- 75.11 | 45.11 |

| RT | EXP RT (REL RT) | MASS | RESPONSE | AMOUNTS CAL-AMT ( PPBV) | ON-COL ( PPBV) | TARGET RANGE | RATIO |
|---|---|---|---|---|---|---|---|
| 126 1,2,4-Trichlorobenzene | | | | | CAS #: 120-82-1 | | |
| 26.524 | 26.524 (1.227) | 180 | 612850 | 10.0000 | 10.140 | 80.00- 120.00 | 100.00 |
| 26.524 | 26.524 (1.227) | 182 | 579702 | | | 62.96- 122.96 | 94.59 |
| 128 Hexachlorobutadiene | | | | | CAS #: 87-68-3 | | |
| 26.627 | 26.627 (1.232) | 225 | 477546 | 10.0000 | 10.595 | 80.00- 120.00 | 100.00 |
| 26.627 | 26.627 (1.232) | 223 | 306302 | | | 34.16- 94.16 | 64.14 |
| 129 Naphthalene | | | | | CAS #: 91-20-3 | | |
| 26.885 | 26.885 (1.244) | 128 | 1211564 | 10.0000 | 9.604 | 80.00- 120.00 | 100.00 |
| 26.885 | 26.885 (1.244) | 127 | 152169 | | | 0.00- 42.68 | 12.56 |

QC Flag Legend

H - Operator selected an alternate compound hit.

Report Date: 13-Sep-2011 10:33

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msda.i
Lab File ID: a083102.d
Lab Smp Id: CCV
Analysis Type: VOA
Quant Type: ISTD
Operator: cr
Method File: /chem/msda.i/31Aug2011.b/a11l0818b.m
Misc Info: 10ppbv (50ppbv)

Calibration Date: 31-AUG-2011
Calibration Time: 11:39
Client Smp ID: CCV
Level: LOW
Sample Type: AIR

| | | AREA LIMIT | | | |
|---|---|---|---|---|---|
| COMPOUND | STANDARD | LOWER | UPPER | SAMPLE | %DIFF |
| 52 Bromochloromethan | 193143 | 115886 | 270400 | 206450 | 6.89 |
| 66 1,4-Difluorobenze | 910364 | 546218 | 1274510 | 897592 | -1.40 |
| 88 Chlorobenzene-d5 | 769147 | 461488 | 1076806 | 792197 | 3.00 |

| | | RT LIMIT | | | |
|---|---|---|---|---|---|
| COMPOUND | STANDARD | LOWER | UPPER | SAMPLE | %DIFF |
| 52 Bromochloromethan | 15.41 | 15.08 | 15.74 | 15.41 | 0.00 |
| 66 1,4-Difluorobenze | 16.83 | 16.50 | 17.16 | 16.82 | 0.00 |
| 88 Chlorobenzene-d5 | 21.61 | 21.28 | 21.94 | 21.61 | 0.00 |

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

K£

Data File: /chem/msda.i/31Aug2011.b/a083102.d



Date : 31-AUG-2011 08:01

Client ID: CCV

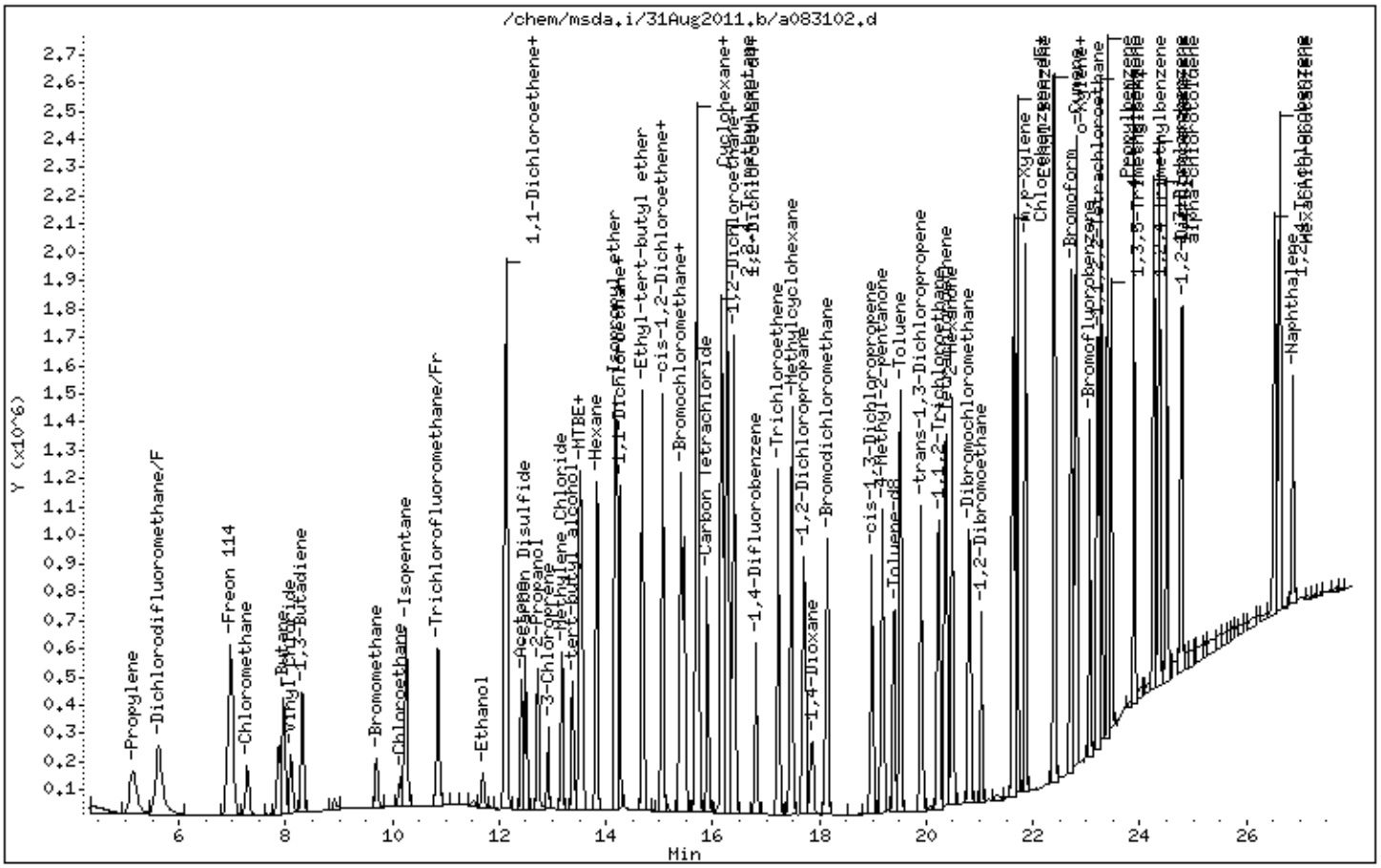
Instrument: msda.i

Sample Info: 50mL #2296-84

Operator: cr

Column phase: RTx-624

Column diameter: 0.32



Air Toxics Ltd.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: msda.i Injection Date: 31-AUG-2011 11:39
Lab File ID: a083106a.d Init. Cal. Date(s): 18-AUG-2011 31-AUG-2011
Analysis Type: AIR Init. Cal. Times: 14:46 12:17
Lab Sample ID: CCV Quant Type: ISTD
Method: /chem/msda.i/31Aug2011.b/a11l0818b.m

| COMPOUND | RRF / AMOUNT | RF2 | MIN RRF | %D / %DRIFT | MAX %D / %DRIFT | CURVE TYPE |
|---|---|---|---|---|---|---|
|$ 61 1,2-Dichloroethane-d4 | 1.79948 | 1.84562 | 0.010 | -2.56416 | 30.00000 | Averaged |
|$ 80 Toluene-d8 | 0.97214 | 0.96072 | 0.010 | 1.17463 | 30.00000 | Averaged |
|$ 100 Bromofluorobenzene | 0.52085 | 0.52517 | 0.010 | -0.83036 | 30.00000 | Averaged |
| 54 2,3-Dimethylpentane | 1.48548 | 1.50308 | 0.010 | -1.18502 | 30.00000 | Averaged |
| 30 2-Methylpentane | 1.66796 | 1.70801 | 0.010 | -2.40136 | 30.00000 | Averaged |
| 122 Indene | 0.28356 | 0.33523 | 0.010 | -18.22306 | 30.00000 | Averaged |
| 119 Indan | 0.79090 | 0.81934 | 0.010 | -3.59527 | 30.00000 | Averaged |
| 65 Thiophene | 1.08192 | 1.12108 | 0.010 | -3.61982 | 30.00000 | Averaged |

Air Toxics Ltd.

AMBIENT AIR METHOD TO14/TO15

Data file : /chem/msda.i/31Aug2011.b/a083106a.d
Lab Smp Id: CCV Client Smp ID: CCV
Inj Date : 31-AUG-2011 11:39
Operator : dfm Inst ID: msda.i
Smp Info : 125mL #2296-177
Misc Info : 1.0ppbv (2.0ppbv)
Comment :
Method : /chem/msda.i/31Aug2011.b/a11l0818b.m
Meth Date : 13-Sep-2011 10:31 ejakob Quant Type: ISTD
Cal Date : 31-AUG-2011 11:39 Cal File: a083106.d
Als bottle: 17 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: spAT3ccv.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

| | | | | AMOUNTS | | | |
|---|---|---|---|---|---|---|---|
| | | | | CAL-AMT | ON-COL | | |
| RT | EXP RT (REL RT) | MASS | RESPONSE | ( PPBV) | ( PPBV) | TARGET RANGE | RATIO |
| == | ====== ======== | ==== | ======== | ======= | ======= | ========== | ===== |
| * 52 Bromochloromethane | | | | | | CAS #: 74-97-5 | |
| 15.406 | 15.406 (1.000) | 130 | 193143 | 10.0000 | | 80.00- 120.00 | 100.00 |
| 15.406 | 15.406 (1.000) | 128 | 146835 | | | 0.00- 30.00 | 76.02 |
| 15.406 | 15.406 (1.000) | 49 | 323925 | | | 0.00- 30.00 | 167.71 |
| * 66 1,4-Difluorobenzene | | | | | | CAS #: 540-36-3 | |
| 16.825 | 16.825 (1.000) | 114 | 910364 | 10.0000 | | 80.00- 120.00 | 100.00 |
| 16.825 | 16.825 (1.000) | 88 | 153051 | | | 0.00- 30.00 | 16.81 |
| * 88 Chlorobenzene-d5 | | | | | | CAS #: 3114-55-4 | |
| 21.614 | 21.614 (1.000) | 117 | 769147 | 10.0000 | | 80.00- 120.00 | 100.00 |
| 21.614 | 21.614 (1.000) | 82 | 459191 | | | 0.00- 30.00 | 59.70 |
| $ 61 1,2-Dichloroethane-d4 | | | | | | CAS #: 17060-07-0 | |
| 16.249 | 16.249 (1.055) | 65 | 356469 | 10.0000 | 10.256 | 80.00- 120.00 | 100.00 |
| 16.249 | 16.249 (1.055) | 67 | 180415 | | | 21.17- 81.17 | 50.61 |
| $ 80 Toluene-d8 | | | | | | CAS #: 2037-26-5 | |
| 19.389 | 19.389 (1.152) | 98 | 874604 | 10.0000 | 9.882 | 80.00- 120.00 | 100.00 |
| 19.389 | 19.389 (1.152) | 70 | 104419 | | | 0.00- 41.96 | 11.94 |

| RT | EXP RT (REL RT) | MASS | RESPONSE | AMOUNTS CAL-AMT ( PPBV) | AMOUNTS ON-COL ( PPBV) | TARGET RANGE | RATIO |
|---|---|---|---|---|---|---|---|
| $ 80 Toluene-d8 (continued) | | | | | | | |
| 19.389 | 19.389 (1.152) | 100 | 585482 | | | 36.94- 96.94 | 66.94 |
| $ 100 Bromofluorobenzene | | | | | CAS #: 460-00-4 | | |
| 23.068 | 23.068 (1.067) | 174 | 403933 | 10.0000 | 10.083 | 80.00- 120.00 | 100.00 |
| 23.068 | 23.068 (1.067) | 95 | 577084 | | | 112.87- 172.87 | 142.87 |
| 23.068 | 23.068 (1.067) | 176 | 382504 | | | 64.69- 124.69 | 94.69 |
| 54 2,3-Dimethylpentane | | | | | CAS #: 565-59-3 | | |
| 15.683 | 15.683 (1.018) | 71 | 29031 | 1.00000 | 1.012 | 80.00- 120.00 | 100.00 |
| 15.683 | 15.683 (1.018) | 56 | 89807 | | | 0.00- 30.00 | 309.35 |
| 15.683 | 15.683 (1.018) | 43 | 70319 | | | 0.00- 30.00 | 242.22 |
| 30 2-Methylpentane | | | | | CAS #: 107-83-5 | | |
| 12.995 | 12.995 (0.844) | 71 | 32989 | 1.00000 | 1.024 | 80.00- 120.00 | 100.00 |
| 12.995 | 12.995 (0.844) | 43 | 99806 | | | 0.00- 30.00 | 302.54 |
| 12.995 | 12.995 (0.844) | 42 | 52690 | | | 0.00- 30.00 | 159.72 |
| 122 Indene | | | | | CAS #: 95-13-6 | | |
| 24.874 | 24.874 (1.151) | 115 | 25784 | 1.00000 | 1.182 | 80.00- 120.00 | 100.00(T) |
| 24.874 | 24.874 (1.151) | 116 | 22401 | | | 0.00- 30.00 | 86.88 |
| 0.000 | 1.000 (0.000) | 0 | 0 | | | 0.00- 30.00 | 0.00 |
| 119 Indan | | | | | CAS #: 496-11-7 | | |
| 24.616 | 24.616 (1.139) | 117 | 63019 | 1.00000 | 1.036 | 80.00- 120.00 | 100.00 |
| 24.616 | 24.616 (1.139) | 118 | 35925 | | | 0.00- 30.00 | 57.01 |
| 24.616 | 24.616 (1.139) | 91 | 12640 | | | 0.00- 30.00 | 20.06 |
| 65 Thiophene | | | | | CAS #: 110-02-1 | | |
| 16.605 | 16.605 (0.987) | 84 | 102059 | 1.00000 | 1.036 | 80.00- 120.00 | 100.00(T) |
| 16.605 | 16.605 (0.987) | 58 | 71318 | | | 0.00- 30.00 | 69.88 |
| 0.000 | 1.000 (0.000) | 0 | 0 | | | 0.00- 30.00 | 0.00 |

## QC Flag Legend

T - Target compound detected outside RT window.

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msda.i
Lab File ID: a083106a.d
Lab Smp Id: CCV
Analysis Type: VOA
Quant Type: ISTD
Operator: dfm
Method File: /chem/msda.i/31Aug2011.b/a11l0818b.m
Misc Info: 1.0ppbv (2.0ppbv)

Calibration Date: 31-AUG-2011
Calibration Time: 08:01
Client Smp ID: CCV
Level: LOW
Sample Type: AIR

| | | AREA LIMIT | | | |
|---|---|---|---|---|---|
| COMPOUND | STANDARD | LOWER | UPPER | SAMPLE | %DIFF |
| 52 Bromochloromethan | 206450 | 123870 | 289030 | 193143 | -6.45 |
| 66 1,4-Difluorobenze | 897592 | 538555 | 1256629 | 910364 | 1.42 |
| 88 Chlorobenzene-d5 | 792197 | 475318 | 1109076 | 769147 | -2.91 |

| | | RT LIMIT | | | |
|---|---|---|---|---|---|
| COMPOUND | STANDARD | LOWER | UPPER | SAMPLE | %DIFF |
| 52 Bromochloromethan | 15.41 | 15.08 | 15.74 | 15.41 | 0.00 |
| 66 1,4-Difluorobenze | 16.82 | 16.50 | 17.15 | 16.83 | 0.00 |
| 88 Chlorobenzene-d5 | 21.61 | 21.28 | 21.94 | 21.61 | 0.00 |

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Data File: /chem/msda.i/31Aug2011.b/a083106a.d



Date : 31-AUG-2011 11:39

Client ID: CCV

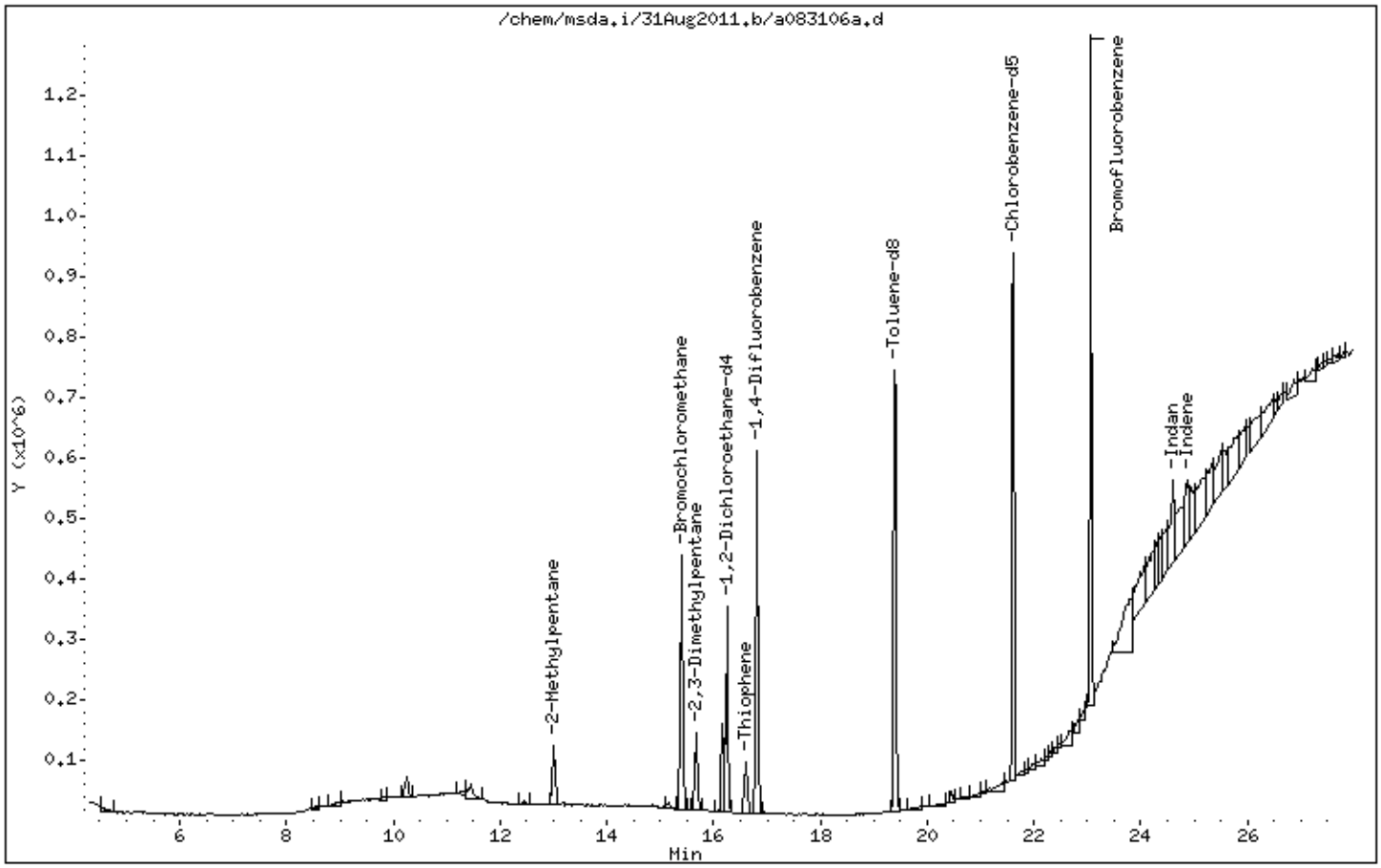
Instrument: msda.i

Sample Info: 125mL #2296-177

Operator: dfm

Column phase: RTx-624

Column diameter: 0.32



Air Toxics LTD.
Laboratory Services Since 1989

**Client Sample ID: CCV**

**Lab ID#: 1108582-10B**

**MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN**

| | | | |
|---|---|---|---|
| **File Name:** | **a090102** | **Date of Collection: NA** | |
| **Dil. Factor:** | **1.00** | **Date of Analysis: 9/1/11 08:06 AM** | |

| Compound | %Recovery |
|---|---|
| Freon 12 | 94 |
| Freon 114 | 92 |
| Chloromethane | 100 |
| Vinyl Chloride | 97 |
| 1,3-Butadiene | 98 |
| Bromomethane | 75 |
| Chloroethane | 84 |
| Freon 11 | 86 |
| Ethanol | 321 Q |
| Freon 113 | 106 |
| 1,1-Dichloroethene | 97 |
| Acetone | 100 |
| 2-Propanol | 76 |
| Carbon Disulfide | 97 |
| 3-Chloropropene | 110 |
| Methylene Chloride | 83 |
| Methyl tert-butyl ether | 96 |
| trans-1,2-Dichloroethene | 91 |
| Hexane | 97 |
| 1,1-Dichloroethane | 101 |
| 2-Butanone (Methyl Ethyl Ketone) | 89 |
| cis-1,2-Dichloroethene | 91 |
| Tetrahydrofuran | 107 |
| Chloroform | 92 |
| 1,1,1-Trichloroethane | 91 |
| Cyclohexane | 92 |
| Carbon Tetrachloride | 88 |
| 2,2,4-Trimethylpentane | 109 |
| Benzene | 96 |
| 1,2-Dichloroethane | 98 |
| Heptane | 103 |
| Trichloroethene | 97 |
| 1,2-Dichloropropane | 98 |
| 1,4-Dioxane | 95 |
| Bromodichloromethane | 98 |
| cis-1,3-Dichloropropene | 95 |
| 4-Methyl-2-pentanone | 105 |
| Toluene | 95 |
| trans-1,3-Dichloropropene | 95 |
| 1,1,2-Trichloroethane | 92 |
| Tetrachloroethene | 97 |

Air Toxics LTD.
Laboratory Services Since 1989

**Client Sample ID: CCV**

**Lab ID#: 1108582-10B**

**MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN**

| | | | |
|---|---|---|---|
| **File Name:** | **a090102** | **Date of Collection: NA** | |
| **Dil. Factor:** | **1.00** | **Date of Analysis: 9/1/11 08:06 AM** | |

| Compound | %Recovery |
|---|---|
| 2-Hexanone | 103 |
| Dibromochloromethane | 97 |
| 1,2-Dibromoethane (EDB) | 94 |
| Chlorobenzene | 96 |
| Ethyl Benzene | 94 |
| m,p-Xylene | 92 |
| o-Xylene | 95 |
| Styrene | 93 |
| Bromoform | 105 |
| Cumene | 93 |
| 1,1,2,2-Tetrachloroethane | 98 |
| Propylbenzene | 95 |
| 4-Ethyltoluene | 84 |
| 1,3,5-Trimethylbenzene | 96 |
| 1,2,4-Trimethylbenzene | 91 |
| 1,3-Dichlorobenzene | 86 |
| 1,4-Dichlorobenzene | 90 |
| alpha-Chlorotoluene | 99 |
| 1,2-Dichlorobenzene | 89 |
| 1,2,4-Trichlorobenzene | 113 |
| Hexachlorobutadiene | 115 |
| 2,3-Dimethylpentane | 108 |
| 2-Methylpentane | 104 |
| Indene | 115 |
| Indan | 113 |
| Isopentane | 93 |
| Naphthalene | 108 |
| Thiophene | 105 |

Q = Exceeds Quality Control limits.

**Container Type: NA - Not Applicable**

| Surrogates | %Recovery | Method Limits |
|---|---|---|
| 1,2-Dichloroethane-d4 | 103 | 70-130 |
| Toluene-d8 | 101 | 70-130 |
| 4-Bromofluorobenzene | 102 | 70-130 |

Report Date: 07-Sep-2011 14:20

Air Toxics Ltd.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: msda.i Injection Date: 01-SEP-2011 08:06
Lab File ID: a090102.d Init. Cal. Date(s): 18-AUG-2011 31-AUG-2011
Analysis Type: AIR Init. Cal. Times: 14:46 12:17
Lab Sample ID: CCV Quant Type: ISTD
Method: /chem/msda.i/01Sep2011.b/a11l0818b.m

| COMPOUND | RRF / AMOUNT | RF10 | MIN RRF | %D / %DRIFT | MAX %D / %DRIFT | CURVE TYPE | |
|---|---|---|---|---|---|---|---|
| $ 61 1,2-Dichloroethane-d4 | 1.79948 | 1.85163 | 0.010 | -2.89813 | 30.00000 | Averaged | |
| $ 80 Toluene-d8 | 0.97214 | 0.98113 | 0.010 | -0.92508 | 30.00000 | Averaged | |
| $ 100 Bromofluorobenzene | 0.52085 | 0.53422 | 0.010 | -2.56839 | 30.00000 | Averaged | |
| 2 Propylene | 2.14206 | 2.22396 | 0.010 | -3.82332 | 30.00000 | Averaged | |
| 4 Dichlorodifluoromethane/Fr1 | 6.56991 | 6.17734 | 0.010 | 5.97525 | 30.00000 | Averaged | |
| 6 Freon 114 | 4.15807 | 3.83104 | 0.010 | 7.86487 | 30.00000 | Averaged | |
| 7 Chloromethane | 2.41445 | 2.40688 | 0.010 | 0.31350 | 30.00000 | Averaged | |
| 9 Butane | 0.60450 | 0.60071 | 0.010 | 0.62687 | 30.00000 | Averaged | |
| 10 Vinyl Chloride | 2.72511 | 2.63574 | 0.010 | 3.27959 | 30.00000 | Averaged | |
| 11 1,3-Butadiene | 2.13605 | 2.09325 | 0.010 | 2.00384 | 30.00000 | Averaged | |
| 12 Bromomethane | 1.26865 | 0.94777 | 0.010 | 25.29300 | 30.00000 | Averaged | |
| 13 Chloroethane | 0.96195 | 0.80823 | 0.010 | 15.98037 | 30.00000 | Averaged | |
| 14 Isopentane | 1.99075 | 1.84894 | 0.010 | 7.12309 | 30.00000 | Averaged | |
| 16 Trichlorofluoromethane/Fr11 | 5.22589 | 4.50441 | 0.010 | 13.80597 | 30.00000 | Averaged | |
| 20 Ethanol | 0.36230 | 1.16301 | 0.010 | -221 | 30.00000 | Averaged | <- |
| 23 1,1-Dichloroethene | 1.45268 | 1.41221 | 0.010 | 2.78573 | 30.00000 | Averaged | |
| 22 Freon 113 | 3.53581 | 3.75665 | 0.010 | -6.24577 | 30.00000 | Averaged | |
| 24 Acetone | 1.30071 | 1.29549 | 0.010 | 0.40081 | 30.00000 | Averaged | |
| 26 Carbon Disulfide | 5.33711 | 5.15675 | 0.010 | 3.37935 | 30.00000 | Averaged | |
| 28 3-Chloroprene | 0.53851 | 0.59124 | 0.010 | -9.79216 | 30.00000 | Averaged | |
| 27 2-Propanol | 6.00531 | 4.55679 | 0.010 | 24.12067 | 30.00000 | Averaged | |
| 33 Methylene Chloride | 2.25776 | 1.87167 | 0.010 | 17.10033 | 30.00000 | Averaged | |
| 34 tert-butyl alcohol | 3.98890 | 4.30056 | 0.010 | -7.81326 | 30.00000 | Averaged | |
| 35 MTBE | 7.48562 | 7.18757 | 0.010 | 3.98167 | 30.00000 | Averaged | |
| 36 trans-1,2-Dichloroethene | 1.66115 | 1.51972 | 0.010 | 8.51414 | 30.00000 | Averaged | |
| 40 Hexane | 5.00440 | 4.84364 | 0.010 | 3.21246 | 30.00000 | Averaged | |
| 41 Isopropyl ether | 10.24120 | 10.88716 | 0.010 | -6.30744 | 30.00000 | Averaged | |
| 42 1,1-Dichloroethane | 4.70310 | 4.76194 | 0.010 | -1.25101 | 30.00000 | Averaged | |
| 44 Vinyl Acetate | 0.53820 | 0.53666 | 0.010 | 0.28739 | 30.00000 | Averaged | |
| 46 Ethyl-tert-butyl ether | 9.78698 | 9.70595 | 0.010 | 0.82795 | 30.00000 | Averaged | |
| 47 cis-1,2-Dichloroethene | 1.85010 | 1.68894 | 0.010 | 8.71077 | 30.00000 | Averaged | |
| 48 2-Butanone | 1.49062 | 1.32697 | 0.010 | 10.97824 | 30.00000 | Averaged | |
| 51 Tetrahydrofuran | 3.29206 | 3.53688 | 0.010 | -7.43655 | 30.00000 | Averaged | |
| 53 Chloroform | 5.68684 | 5.23380 | 0.010 | 7.96648 | 30.00000 | Averaged | |
| 55 Cyclohexane | 4.17343 | 3.84996 | 0.010 | 7.75063 | 30.00000 | Averaged | |
| 56 1,1,1-Trichloroethane | 6.07563 | 5.53731 | 0.010 | 8.86027 | 30.00000 | Averaged | |

Air Toxics Ltd.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: msda.i Injection Date: 01-SEP-2011 08:06
Lab File ID: a090102.d Init. Cal. Date(s): 18-AUG-2011 31-AUG-2011
Analysis Type: AIR Init. Cal. Times: 14:46 12:17
Lab Sample ID: CCV Quant Type: ISTD
Method: /chem/msda.i/01Sep2011.b/a11l0818b.m

| COMPOUND | RRF / AMOUNT | RF10 | MIN RRF | %D / %DRIFT | MAX %D / %DRIFT | CURVE TYPE |
|---|---|---|---|---|---|---|
| 57 Carbon Tetrachloride | 4.55489 | 4.00171 | 0.010 | 12.14474 | 30.00000 | Averaged |
| 59 2,2,4-Trimethylpentane | 6.40139 | 6.97722 | 0.010 | -8.99526 | 30.00000 | Averaged |
| 60 Benzene | 1.85734 | 1.78860 | 0.010 | 3.70078 | 30.00000 | Averaged |
| 62 tert-amyl methyl ether | 0.42635 | 0.41680 | 0.010 | 2.23995 | 30.00000 | Averaged |
| 63 1,2-Dichloroethane | 0.87772 | 0.85797 | 0.010 | 2.24959 | 30.00000 | Averaged |
| 64 Heptane | 0.61902 | 0.63527 | 0.010 | -2.62432 | 30.00000 | Averaged |
| 67 Trichloroethene | 0.79310 | 0.76966 | 0.010 | 2.95535 | 30.00000 | Averaged |
| 69 Methylcyclohexane | 1.10075 | 1.08945 | 0.010 | 1.02655 | 30.00000 | Averaged |
| 72 1,2-Dichloropropane | 0.73777 | 0.72592 | 0.010 | 1.60556 | 30.00000 | Averaged |
| 74 1,4-Dioxane | 0.43995 | 0.41838 | 0.010 | 4.90188 | 30.00000 | Averaged |
| 76 Bromodichloromethane | 1.27090 | 1.24019 | 0.010 | 2.41619 | 30.00000 | Averaged |
| 77 cis-1,3-Dichloropropene | 1.00836 | 0.95986 | 0.010 | 4.80907 | 30.00000 | Averaged |
| 78 4-Methyl-2-pentanone | 1.52535 | 1.59722 | 0.010 | -4.71188 | 30.00000 | Averaged |
| 81 Toluene | 2.12417 | 2.02149 | 0.010 | 4.83397 | 30.00000 | Averaged |
| 82 trans-1,3-Dichloropropene | 1.17716 | 1.11429 | 0.010 | 5.34114 | 30.00000 | Averaged |
| 83 1,1,2-Trichloroethane | 0.93685 | 0.86333 | 0.010 | 7.84719 | 30.00000 | Averaged |
| 84 Tetrachloroethene | 1.07994 | 1.05086 | 0.010 | 2.69269 | 30.00000 | Averaged |
| 85 2-Hexanone | 0.93892 | 0.97048 | 0.010 | -3.36106 | 30.00000 | Averaged |
| 86 Dibromochloromethane | 1.38173 | 1.34619 | 0.010 | 2.57186 | 30.00000 | Averaged |
| 87 1,2-Dibromoethane | 1.33511 | 1.26033 | 0.010 | 5.60058 | 30.00000 | Averaged |
| 89 Chlorobenzene | 1.90086 | 1.82232 | 0.010 | 4.13195 | 30.00000 | Averaged |
| 91 Ethyl Benzene | 0.97526 | 0.92190 | 0.010 | 5.47142 | 30.00000 | Averaged |
| 93 m,p-Xylene | 1.06641 | 0.98198 | 0.010 | 7.91769 | 30.00000 | Averaged |
| 94 o-Xylene | 1.02602 | 0.97662 | 0.010 | 4.81505 | 30.00000 | Averaged |
| 95 Styrene | 1.66765 | 1.55606 | 0.010 | 6.69182 | 30.00000 | Averaged |
| 97 Bromoform | 1.17774 | 1.23721 | 0.010 | -5.04960 | 30.00000 | Averaged |
| 98 Cumene | 3.08016 | 2.85584 | 0.010 | 7.28276 | 30.00000 | Averaged |
| 103 1,1,2,2-Tetrachloroethane | 1.77802 | 1.73495 | 0.010 | 2.42208 | 30.00000 | Averaged |
| 104 Propylbenzene | 3.18720 | 3.01569 | 0.010 | 5.38131 | 30.00000 | Averaged |
| 107 4-Ethyltoluene | 2.90881 | 2.45033 | 0.010 | 15.76194 | 30.00000 | Averaged |
| 109 1,3,5-Trimethylbenzene | 2.29788 | 2.21948 | 0.010 | 3.41181 | 30.00000 | Averaged |
| 112 1,2,4-Trimethylbenzene | 2.14466 | 1.94928 | 0.010 | 9.11010 | 30.00000 | Averaged |
| 115 1,3-Dichlorobenzene | 1.50757 | 1.29746 | 0.010 | 13.93707 | 30.00000 | Averaged |
| 117 1,4-Dichlorobenzene | 1.35364 | 1.21541 | 0.010 | 10.21180 | 30.00000 | Averaged |
| 118 alpha-chlorotoluene | 2.08319 | 2.05675 | 0.010 | 1.26901 | 30.00000 | Averaged |

Air Toxics Ltd.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: msda.i Injection Date: 01-SEP-2011 08:06
Lab File ID: a090102.d Init. Cal. Date(s): 18-AUG-2011 31-AUG-2011
Analysis Type: AIR Init. Cal. Times: 14:46 12:17
Lab Sample ID: CCV Quant Type: ISTD
Method: /chem/msda.i/01Sep2011.b/a11l0818b.m

| COMPOUND | RRF / AMOUNT | RF10 | MIN RRF | %D / %DRIFT | MAX %D / %DRIFT | CURVE TYPE |
|---|---|---|---|---|---|---|
| 121 1,2-Dichlorobenzene | 1.32621 | 1.17881 | 0.010 | 11.11437 | 30.00000 | Averaged |
| 126 1,2,4-Trichlorobenzene | 0.76294 | 0.86076 | 0.010 | -12.82174 | 30.00000 | Averaged |
| 128 Hexachlorobutadiene | 0.56894 | 0.65588 | 0.010 | -15.28168 | 30.00000 | Averaged |
| 129 Naphthalene | 1.59236 | 1.72679 | 0.010 | -8.44240 | 40.00000 | Averaged |

Air Toxics Ltd.

AMBIENT AIR METHOD TO14/TO15

Data file : /chem/msda.i/01Sep2011.b/a090102.d
Lab Smp Id: CCV Client Smp ID: CCV
Inj Date : 01-SEP-2011 08:06
Operator : cr Inst ID: msda.i
Smp Info : 50mL #2296-84
Misc Info : 10ppbv (50ppbv)
Comment :
Method : /chem/msda.i/01Sep2011.b/a11l0818b.m
Meth Date : 07-Sep-2011 14:20 ejakob Quant Type: ISTD
Cal Date : 31-AUG-2011 12:17 Cal File: a083107.d
Als bottle: 16 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AT09.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

| | | | | AMOUNTS | | | |
|---|---|---|---|---|---|---|---|
| | | | | CAL-AMT | ON-COL | | |
| RT | EXP RT (REL RT) | MASS | RESPONSE | ( PPBV) | ( PPBV) | TARGET RANGE | RATIO |
| == | ====== ======== | ==== | ======== | ======= | ======= | ========== | ===== |
| * 52 Bromochloromethane | | | | | | CAS #: 74-97-5 | |
| 15.406 | 15.406 (1.000) | 130 | 204525 | 10.0000 | | 80.00- 120.00 | 100.00 |
| 15.406 | 15.406 (1.000) | 128 | 160869 | | | 0.00- 30.00 | 78.65 |
| 15.406 | 15.406 (1.000) | 49 | 452984 | | | 0.00- 30.00 | 221.48 |
| * 66 1,4-Difluorobenzene | | | | | | CAS #: 540-36-3 | |
| 16.825 | 16.825 (1.000) | 114 | 937041 | 10.0000 | | 80.00- 120.00 | 100.00 |
| 16.798 | 16.798 (1.000) | 88 | 158028 | | | 0.00- 30.00 | 16.86 |
| * 88 Chlorobenzene-d5 | | | | | | CAS #: 3114-55-4 | |
| 21.614 | 21.614 (1.000) | 117 | 804938 | 10.0000 | | 80.00- 120.00 | 100.00 |
| 21.590 | 21.590 (1.000) | 82 | 478568 | | | 0.00- 30.00 | 59.45 |
| $ 61 1,2-Dichloroethane-d4 | | | | | | CAS #: 17060-07-0 | |
| 16.249 | 16.249 (1.055) | 65 | 378705 | 10.0000 | 10.290 | 80.00- 120.00 | 100.00 |
| 16.249 | 16.249 (1.055) | 67 | 272129 | | | 21.17- 81.17 | 71.86 |
| $ 80 Toluene-d8 | | | | | | CAS #: 2037-26-5 | |
| 19.389 | 19.389 (1.152) | 98 | 919360 | 10.0000 | 10.092 | 80.00- 120.00 | 100.00 |
| 19.389 | 19.389 (1.152) | 70 | 109146 | | | 0.00- 41.96 | 11.87 |

| RT | EXP RT (REL RT) | MASS | RESPONSE | AMOUNTS CAL-AMT ( PPBV) | AMOUNTS ON-COL ( PPBV) | TARGET RANGE | RATIO |
|---|---|---|---|---|---|---|---|
| $ 80 Toluene-d8 (continued) | | | | | | | |
| 19.389 | 19.389 (1.152) | 100 | 614957 | | | 36.89- 96.89 | 66.89 |
| $ 100 Bromofluorobenzene | | | | | CAS #: 460-00-4 | | |
| 23.068 | 23.068 (1.067) | 174 | 430016 | 10.0000 | 10.257 | 80.00- 120.00 | 100.00 |
| 23.068 | 23.068 (1.067) | 95 | 620871 | | | 114.38- 174.38 | 144.38 |
| 23.068 | 23.068 (1.067) | 176 | 414901 | | | 66.49- 126.49 | 96.49 |
| 2 Propylene | | | | | CAS #: 115-07-1 | | |
| 5.011 | 5.011 (0.325) | 41 | 454855 | 10.0000 | 10.382 | 80.00- 120.00 | 100.00 |
| 5.011 | 5.011 (0.325) | 42 | 306323 | | | 36.86- 96.86 | 67.35 |
| 5.011 | 5.011 (0.325) | 39 | 325840 | | | 41.49- 101.49 | 71.64 |
| 4 Dichlorodifluoromethane/Fr12 | | | | | CAS #: 75-71-8 | | |
| 5.493 | 5.493 (0.357) | 85 | 1263421 | 10.0000 | 9.402 | 80.00- 120.00 | 100.00 |
| 5.493 | 5.493 (0.357) | 87 | 409079 | | | 2.38- 62.38 | 32.38 |
| 6 Freon 114 | | | | | CAS #: 76-14-2 | | |
| 6.891 | 6.891 (0.447) | 135 | 783544 | 10.0000 | 9.214 | 80.00- 120.00 | 100.00 |
| 6.915 | 6.915 (0.449) | 137 | 248905 | | | 1.34- 61.34 | 31.77 |
| 6.891 | 6.891 (0.447) | 85 | 1306599 | | | 133.27- 193.27 | 166.76 |
| 7 Chloromethane | | | | | CAS #: 74-87-3 | | |
| 7.228 | 7.228 (0.469) | 50 | 492268 | 10.0000 | 9.969 | 80.00- 120.00 | 100.00 |
| 7.228 | 7.228 (0.469) | 52 | 157209 | | | 2.29- 62.29 | 31.94 |
| 9 Butane | | | | | CAS #: 106-97-8 | | |
| 7.920 | 7.920 (0.514) | 58 | 122861 | 10.0000 | 9.937 | 80.00- 120.00 | 100.00 |
| 7.920 | 7.920 (0.514) | 43 | 889915 | | | 641.41- 701.41 | 724.33 |
| 10 Vinyl Chloride | | | | | CAS #: 75-01-4 | | |
| 8.059 | 8.059 (0.523) | 62 | 539074 | 10.0000 | 9.672 | 80.00- 120.00 | 100.00 |
| 8.059 | 8.059 (0.523) | 64 | 166177 | | | 0.83- 60.83 | 30.83 |
| 11 1,3-Butadiene | | | | | CAS #: 106-99-0 | | |
| 8.284 | 8.284 (0.538) | 54 | 428122 | 10.0000 | 9.800 | 80.00- 120.00 | 100.00 |
| 8.284 | 8.284 (0.538) | 39 | 414063 | | | 64.36- 124.36 | 96.72 |
| 12 Bromomethane | | | | | CAS #: 74-83-9 | | |
| 9.680 | 9.680 (0.628) | 94 | 193843 | 10.0000 | 7.471 | 80.00- 120.00 | 100.00 |
| 9.680 | 9.680 (0.628) | 96 | 176429 | | | 61.02- 121.02 | 91.02 |
| 13 Chloroethane | | | | | CAS #: 75-00-3 | | |
| 10.136 | 10.136 (0.658) | 64 | 165303 | 10.0000 | 8.402 | 80.00- 120.00 | 100.00 |
| 10.136 | 10.136 (0.658) | 66 | 54626 | | | 2.32- 62.32 | 33.05 |

| RT | EXP RT (REL RT) | MASS | RESPONSE | AMOUNTS CAL-AMT ( PPBV) | ON-COL ( PPBV) | TARGET RANGE | RATIO |
|---|---|---|---|---|---|---|---|
| 14 Isopentane | | | | | CAS #: 78-78-4 | | |
| 10.240 | 10.240 (0.665) | 57 | 378155 | 10.0000 | 9.288 | 80.00- 120.00 | 100.00 |
| 10.240 | 10.240 (0.665) | 43 | 540882 | | | 104.71- 164.71 | 143.03 |
| 10.240 | 10.240 (0.665) | 42 | 465403 | | | 89.04- 149.04 | 123.07 |
| 16 Trichlorofluoromethane/Fr11 | | | | | CAS #: 75-69-4 | | |
| 10.841 | 10.841 (0.704) | 101 | 921264 | 10.0000 | 8.619 | 80.00- 120.00 | 100.00 |
| 10.841 | 10.841 (0.704) | 103 | 592826 | | | 34.35- 94.35 | 64.35 |
| 20 Ethanol | | | | | CAS #: 64-17-5 | | |
| 11.691 | 11.691 (0.759) | 45 | 237864 | 10.0000 | 32.101 | 80.00- 120.00 | 100.00 |
| 11.691 | 11.691 (0.759) | 43 | 57034 | | | 0.00- 57.08 | 23.98 |
| 11.691 | 11.691 (0.759) | 46 | 100018 | | | 10.87- 70.87 | 42.05 |
| 23 1,1-Dichloroethene | | | | | CAS #: 75-35-4 | | |
| 12.147 | 12.147 (0.788) | 98 | 288833 | 10.0000 | 9.721 | 80.00- 120.00 | 100.00 |
| 12.126 | 12.126 (0.787) | 61 | 840875 | | | 252.93- 312.93 | 291.13 |
| 12.147 | 12.147 (0.788) | 96 | 458548 | | | 129.43- 189.43 | 158.76 |
| 22 Freon 113 | | | | | CAS #: 76-13-1 | | |
| 12.126 | 12.126 (0.787) | 151 | 768329 | 10.0000 | 10.624 | 80.00- 120.00 | 100.00 |
| 12.126 | 12.126 (0.787) | 153 | 486524 | | | 33.32- 93.32 | 63.32 |
| 12.105 | 12.105 (0.786) | 101 | 1080582 | | | 109.89- 169.89 | 140.64 |
| 24 Acetone | | | | | CAS #: 67-64-1 | | |
| 12.416 | 12.416 (0.806) | 58 | 264961 | 10.0000 | 9.960 | 80.00- 120.00 | 100.00 |
| 12.416 | 12.416 (0.806) | 43 | 836358 | | | 283.54- 343.54 | 315.65 |
| 26 Carbon Disulfide | | | | | CAS #: 75-15-0 | | |
| 12.499 | 12.499 (0.811) | 76 | 1054684 | 10.0000 | 9.662 | 80.00- 120.00 | 100.00 |
| 28 3-Chloroprene | | | | | CAS #: 107-05-1 | | |
| 12.913 | 12.913 (0.838) | 76 | 120924 | 10.0000 | 10.979 | 80.00- 120.00 | 100.00 |
| 12.913 | 12.913 (0.838) | 41 | 382074 | | | 273.34- 333.34 | 315.96 |
| 27 2-Propanol | | | | | CAS #: 67-63-0 | | |
| 12.706 | 12.706 (0.825) | 45 | 931977 | 10.0000 | 7.588 | 80.00- 120.00 | 100.00 |
| 12.706 | 12.706 (0.825) | 43 | 250946 | | | 0.00- 49.76 | 26.93 |
| 12.706 | 12.706 (0.825) | 59 | 47848 | | | 0.00- 34.09 | 5.13 |
| 33 Methylene Chloride | | | | | CAS #: 75-09-2 | | |
| 13.160 | 13.160 (0.854) | 84 | 382804 | 10.0000 | 8.290 | 80.00- 120.00 | 100.00 |
| 13.160 | 13.160 (0.854) | 49 | 617751 | | | 112.00- 172.00 | 161.38 |
| 13.160 | 13.160 (0.854) | 51 | 184731 | | | 13.10- 73.10 | 48.26 |
| 34 tert-butyl alcohol | | | | | CAS #: 75-65-0 | | |
| 13.352 | 13.352 (0.867) | 59 | 879573 | 10.0000 | 10.781 | 80.00- 120.00 | 100.00 |

| RT | EXP RT (REL RT) | MASS | RESPONSE | AMOUNTS CAL-AMT ( PPBV) | ON-COL ( PPBV) | TARGET RANGE | RATIO |
|---|---|---|---|---|---|---|---|
| 34 tert-butyl alcohol (continued) | | | | | | | |
| 13.352 | 13.352 (0.867) | 41 | 230356 | | | 0.00- 48.20 | 26.19 |
| 13.352 | 13.352 (0.867) | 57 | 91990 | | | 0.00- 38.59 | 10.46 |
| 35 MTBE | | | | | CAS #: 1634-04-4 | | |
| 13.490 | 13.490 (0.876) | 73 | 1470037 | 10.0000 | 9.602 | 80.00- 120.00 | 100.00 |
| 13.490 | 13.490 (0.876) | 57 | 377228 | | | 0.00- 55.70 | 25.66 |
| 13.490 | 13.490 (0.876) | 41 | 380989 | | | 0.00- 55.35 | 25.92 |
| 36 trans-1,2-Dichloroethene | | | | | CAS #: 156-60-5 | | |
| 13.544 | 13.544 (0.879) | 98 | 310820 | 10.0000 | 9.148 | 80.00- 120.00 | 100.00 |
| 13.544 | 13.544 (0.879) | 61 | 788288 | | | 212.41- 272.41 | 253.62 |
| 13.544 | 13.544 (0.879) | 96 | 498291 | | | 128.28- 188.28 | 160.31 |
| 40 Hexane | | | | | CAS #: 110-54-3 | | |
| 13.819 | 13.819 (0.897) | 57 | 990645 | 10.0000 | 9.679 | 80.00- 120.00 | 100.00 |
| 13.819 | 13.819 (0.897) | 43 | 661121 | | | 33.38- 93.38 | 66.74 |
| 13.819 | 13.819 (0.897) | 86 | 157460 | | | 0.00- 46.43 | 15.89 |
| 41 Isopropyl ether | | | | | CAS #: 108-20-3 | | |
| 14.176 | 14.176 (0.920) | 45 | 2226696 | 10.0000 | 10.631 | 80.00- 120.00 | 100.00 |
| 14.176 | 14.176 (0.920) | 87 | 500972 | | | 0.00- 54.93 | 22.50 |
| 14.176 | 14.176 (0.920) | 59 | 247196 | | | 0.00- 41.38 | 11.10 |
| 42 1,1-Dichloroethane | | | | | CAS #: 75-34-3 | | |
| 14.231 | 14.231 (0.924) | 63 | 973935 | 10.0000 | 10.125 | 80.00- 120.00 | 100.00 |
| 14.231 | 14.231 (0.924) | 65 | 308850 | | | 2.24- 62.24 | 31.71 |
| 44 Vinyl Acetate | | | | | CAS #: 108-05-4 | | |
| 14.258 | 14.258 (0.926) | 86 | 109760 | 10.0000 | 9.971 | 80.00- 120.00 | 100.00 |
| 14.258 | 14.258 (0.926) | 42 | 106535 | | | 71.80- 131.80 | 97.06 |
| 14.258 | 14.258 (0.926) | 43 | 1266570 | | | 1179.88-1239.88 | 1153.94 |
| 46 Ethyl-tert-butyl ether | | | | | CAS #: 637-92-3 | | |
| 14.671 | 14.671 (0.952) | 59 | 1985109 | 10.0000 | 9.917 | 80.00- 120.00 | 100.00 |
| 14.671 | 14.671 (0.952) | 87 | 728023 | | | 8.46- 68.46 | 36.67 |
| 14.671 | 14.671 (0.952) | 41 | 379122 | | | 0.00- 47.65 | 19.10 |
| 47 cis-1,2-Dichloroethene | | | | | CAS #: 156-59-2 | | |
| 15.044 | 15.044 (0.977) | 98 | 345430 | 10.0000 | 9.129 | 80.00- 120.00 | 100.00 |
| 15.044 | 15.044 (0.977) | 61 | 795484 | | | 191.49- 251.49 | 230.29 |
| 15.044 | 15.044 (0.977) | 96 | 545468 | | | 127.91- 187.91 | 157.91 |
| 48 2-Butanone | | | | | CAS #: 78-93-3 | | |
| 15.065 | 15.065 (0.978) | 72 | 271399 | 10.0000 | 8.902 | 80.00- 120.00 | 100.00 |
| 15.065 | 15.065 (0.978) | 43 | 1259641 | | | 298.82- 358.82 | 464.13 |

| RT | EXP RT (REL RT) | MASS | RESPONSE | AMOUNTS CAL-AMT ( PPBV) | ON-COL ( PPBV) | TARGET RANGE | RATIO |
|---|---|---|---|---|---|---|---|
| 48 2-Butanone (continued) | | | | | | | |
| 15.065 | 15.065 (0.978) | 57 | 95698 | | | 0.00- 56.09 | 35.26 |
| 51 Tetrahydrofuran | | | | | CAS #: 109-99-9 | | |
| 15.406 | 15.406 (1.000) | 42 | 723380 | 10.0000 | 10.744 | 80.00- 120.00 | 100.00 |
| 15.406 | 15.406 (1.000) | 71 | 242965 | | | 6.88- 66.88 | 33.59 |
| 15.406 | 15.406 (1.000) | 72 | 269202 | | | 11.00- 71.00 | 37.21 |
| 53 Chloroform | | | | | CAS #: 67-66-3 | | |
| 15.467 | 15.467 (1.004) | 83 | 1070442 | 10.0000 | 9.203 | 80.00- 120.00 | 100.00 |
| 15.467 | 15.467 (1.004) | 85 | 691409 | | | 34.45- 94.45 | 64.59 |
| 55 Cyclohexane | | | | | CAS #: 110-82-7 | | |
| 15.714 | 15.714 (1.020) | 84 | 787414 | 10.0000 | 9.225 | 80.00- 120.00 | 100.00 |
| 15.714 | 15.714 (1.020) | 56 | 1069624 | | | 97.99- 157.99 | 135.84 |
| 15.714 | 15.714 (1.020) | 41 | 587701 | | | 37.94- 97.94 | 74.64 |
| 56 1,1,1-Trichloroethane | | | | | CAS #: 71-55-6 | | |
| 15.714 | 15.714 (1.020) | 97 | 1132518 | 10.0000 | 9.114 | 80.00- 120.00 | 100.00 |
| 15.714 | 15.714 (1.020) | 99 | 720294 | | | 34.37- 94.37 | 63.60 |
| 57 Carbon Tetrachloride | | | | | CAS #: 56-23-5 | | |
| 15.899 | 15.899 (1.032) | 119 | 818449 | 10.0000 | 8.786 | 80.00- 120.00 | 100.00 |
| 15.899 | 15.899 (1.032) | 117 | 848528 | | | 74.49- 134.49 | 103.68 |
| 59 2,2,4-Trimethylpentane | | | | | CAS #: 540-84-1 | | |
| 16.166 | 16.166 (1.049) | 56 | 1427015 | 10.0000 | 10.900 | 80.00- 120.00 | 100.00 |
| 16.166 | 16.166 (1.049) | 57 | 4123526 | | | 264.71- 324.71 | 288.96 |
| 16.166 | 16.166 (1.049) | 41 | 1121302 | | | 74.97- 134.97 | 78.58 |
| 60 Benzene | | | | | CAS #: 71-43-2 | | |
| 16.249 | 16.249 (0.966) | 78 | 1675993 | 10.0000 | 9.630 | 80.00- 120.00 | 100.00 |
| 16.249 | 16.249 (0.966) | 77 | 382051 | | | 0.00- 53.14 | 22.80 |
| 62 tert-amyl methyl ether | | | | | CAS #: 994-05-8 | | |
| 16.276 | 16.276 (0.967) | 87 | 390557 | 10.0000 | 9.776 | 80.00- 120.00 | 100.00 |
| 16.276 | 16.276 (0.967) | 73 | 1667353 | | | 388.88- 448.88 | 426.92 |
| 16.276 | 16.276 (0.967) | 55 | 502582 | | | 85.24- 145.24 | 128.68 |
| 63 1,2-Dichloroethane | | | | | CAS #: 107-06-2 | | |
| 16.358 | 16.358 (0.972) | 62 | 803955 | 10.0000 | 9.775 | 80.00- 120.00 | 100.00 |
| 16.358 | 16.358 (0.972) | 64 | 257480 | | | 2.07- 62.07 | 32.03 |
| 64 Heptane | | | | | CAS #: 142-82-5 | | |
| 16.413 | 16.413 (0.976) | 57 | 595274 | 10.0000 | 10.262 | 80.00- 120.00 | 100.00 |
| 16.413 | 16.413 (0.976) | 100 | 228331 | | | 11.16- 71.16 | 38.36 |

| RT | EXP RT (REL RT) | MASS | RESPONSE | AMOUNTS CAL-AMT ( PPBV) | ON-COL ( PPBV) | TARGET RANGE | RATIO |
|---|---|---|---|---|---|---|---|
| 64 Heptane (continued) | | | | | | | |
| 16.413 | 16.413 (0.976) | 43 | 1156204 | | | 158.27- 218.27 | 194.23 |
| 67 Trichloroethene | | | | | CAS #: 79-01-6 | | |
| 17.237 | 17.237 (1.024) | 130 | 721203 | 10.0000 | 9.704 | 80.00- 120.00 | 100.00 |
| 17.237 | 17.237 (1.024) | 95 | 743311 | | | 75.28- 135.28 | 103.07 |
| 17.237 | 17.237 (1.024) | 97 | 479665 | | | 37.01- 97.01 | 66.51 |
| 69 Methylcyclohexane | | | | | CAS #: 108-87-2 | | |
| 17.484 | 17.484 (1.039) | 83 | 1020862 | 10.0000 | 9.897 | 80.00- 120.00 | 100.00 |
| 17.484 | 17.484 (1.039) | 98 | 486656 | | | 17.59- 77.59 | 47.67 |
| 17.484 | 17.484 (1.039) | 55 | 945681 | | | 57.89- 117.89 | 92.64 |
| 72 1,2-Dichloropropane | | | | | CAS #: 78-87-5 | | |
| 17.704 | 17.704 (1.052) | 63 | 680217 | 10.0000 | 9.839 | 80.00- 120.00 | 100.00 |
| 17.704 | 17.704 (1.052) | 62 | 502924 | | | 43.22- 103.22 | 73.94 |
| 17.704 | 17.704 (1.052) | 41 | 413683 | | | 30.82- 90.82 | 60.82 |
| 74 1,4-Dioxane | | | | | CAS #: 123-91-1 | | |
| 17.841 | 17.841 (1.060) | 88 | 392043 | 10.0000 | 9.510 | 80.00- 120.00 | 100.00 |
| 17.841 | 17.841 (1.060) | 58 | 314326 | | | 46.02- 106.02 | 80.18 |
| 17.841 | 17.841 (1.060) | 57 | 98230 | | | 0.00- 53.54 | 25.06 |
| 76 Bromodichloromethane | | | | | CAS #: 75-27-4 | | |
| 18.143 | 18.143 (1.078) | 83 | 1162109 | 10.0000 | 9.758 | 80.00- 120.00 | 100.00 |
| 18.143 | 18.143 (1.078) | 85 | 740042 | | | 33.96- 93.96 | 63.68 |
| 77 cis-1,3-Dichloropropene | | | | | CAS #: 10061-01-5 | | |
| 18.986 | 18.986 (1.128) | 75 | 899431 | 10.0000 | 9.519 | 80.00- 120.00 | 100.00 |
| 18.986 | 18.986 (1.128) | 77 | 286439 | | | 1.99- 61.99 | 31.85 |
| 18.986 | 18.986 (1.128) | 39 | 504216 | | | 26.06- 86.06 | 56.06 |
| 78 4-Methyl-2-pentanone | | | | | CAS #: 108-10-1 | | |
| 19.165 | 19.165 (1.139) | 43 | 1496659 | 10.0000 | 10.471 | 80.00- 120.00 | 100.00 |
| 19.165 | 19.165 (1.139) | 58 | 568187 | | | 10.31- 70.31 | 37.96 |
| 19.187 | 19.187 (1.140) | 85 | 220569 | | | 0.00- 46.66 | 14.74 |
| 81 Toluene | | | | | CAS #: 108-88-3 | | |
| 19.524 | 19.524 (1.160) | 91 | 1894218 | 10.0000 | 9.517 | 80.00- 120.00 | 100.00 |
| 19.524 | 19.524 (1.160) | 92 | 1134096 | | | 30.18- 90.18 | 59.87 |
| 82 trans-1,3-Dichloropropene | | | | | CAS #: 10061-02-6 | | |
| 19.910 | 19.910 (0.921) | 75 | 896934 | 10.0000 | 9.466 | 80.00- 120.00 | 100.00 |
| 19.910 | 19.910 (0.921) | 77 | 287019 | | | 1.51- 61.51 | 32.00 |
| 19.910 | 19.910 (0.921) | 39 | 477948 | | | 23.29- 83.29 | 53.29 |

| RT | EXP RT (REL RT) | MASS | RESPONSE | AMOUNTS CAL-AMT ( PPBV) | ON-COL ( PPBV) | TARGET RANGE | RATIO |
|---|---|---|---|---|---|---|---|
| 83 1,1,2-Trichloroethane | | | | | CAS #: 79-00-5 | | |
| 20.203 | 20.203 (0.935) | 97 | 694927 | 10.0000 | 9.215 | 80.00- 120.00 | 100.00 |
| 20.203 | 20.203 (0.935) | 99 | 428514 | | | 32.01- 92.01 | 61.66 |
| 20.203 | 20.203 (0.935) | 83 | 598965 | | | 56.19- 116.19 | 86.19 |
| 84 Tetrachloroethene | | | | | CAS #: 127-18-4 | | |
| 20.365 | 20.365 (0.942) | 166 | 845878 | 10.0000 | 9.731 | 80.00- 120.00 | 100.00 |
| 20.333 | 20.333 (0.941) | 129 | 652661 | | | 48.84- 108.84 | 77.16 |
| 20.333 | 20.333 (0.941) | 131 | 624564 | | | 46.09- 106.09 | 73.84 |
| 85 2-Hexanone | | | | | CAS #: 591-78-6 | | |
| 20.495 | 20.495 (0.948) | 58 | 781174 | 10.0000 | 10.336 | 80.00- 120.00 | 100.00 |
| 20.495 | 20.495 (0.948) | 43 | 1461845 | | | 132.91- 192.91 | 187.13 |
| 20.495 | 20.495 (0.948) | 100 | 150404 | | | 0.00- 49.97 | 19.25 |
| 86 Dibromochloromethane | | | | | CAS #: 124-48-1 | | |
| 20.788 | 20.788 (0.962) | 129 | 1083599 | 10.0000 | 9.743 | 80.00- 120.00 | 100.00 |
| 20.788 | 20.788 (0.962) | 127 | 838057 | | | 48.12- 108.12 | 77.34 |
| 87 1,2-Dibromoethane | | | | | CAS #: 106-93-4 | | |
| 21.016 | 21.016 (0.972) | 107 | 1014490 | 10.0000 | 9.440 | 80.00- 120.00 | 100.00 |
| 21.016 | 21.016 (0.972) | 109 | 951455 | | | 64.41- 124.41 | 93.79 |
| 89 Chlorobenzene | | | | | CAS #: 108-90-7 | | |
| 21.638 | 21.638 (1.001) | 112 | 1466852 | 10.0000 | 9.587 | 80.00- 120.00 | 100.00 |
| 21.638 | 21.638 (1.001) | 114 | 466623 | | | 2.00- 62.00 | 31.81 |
| 21.638 | 21.638 (1.001) | 77 | 932338 | | | 33.56- 93.56 | 63.56 |
| 91 Ethyl Benzene | | | | | CAS #: 100-41-4 | | |
| 21.711 | 21.711 (1.004) | 106 | 742073 | 10.0000 | 9.453 | 80.00- 120.00 | 100.00 |
| 21.711 | 21.711 (1.004) | 91 | 2377229 | | | 291.22- 351.22 | 320.35 |
| 93 m,p-Xylene | | | | | CAS #: 108-38-3 | | |
| 21.855 | 21.855 (1.011) | 106 | 790429 | 10.0000 | 9.208 | 80.00- 120.00 | 100.00 |
| 21.855 | 21.855 (1.011) | 91 | 1606834 | | | 173.15- 233.15 | 203.29 |
| 94 o-Xylene | | | | | CAS #: 95-47-6 | | |
| 22.385 | 22.385 (1.036) | 106 | 786117 | 10.0000 | 9.518 | 80.00- 120.00 | 100.00 |
| 22.385 | 22.385 (1.036) | 91 | 1685533 | | | 185.20- 245.20 | 214.41 |
| 95 Styrene | | | | | CAS #: 100-42-5 | | |
| 22.409 | 22.409 (1.037) | 104 | 1252528 | 10.0000 | 9.331 | 80.00- 120.00 | 100.00 |
| 22.409 | 22.409 (1.037) | 78 | 657656 | | | 21.95- 81.95 | 52.51 |
| 97 Bromoform | | | | | CAS #: 75-25-2 | | |
| 22.707 | 22.707 (1.051) | 173 | 995875 | 10.0000 | 10.505 | 80.00- 120.00 | 100.00 |

| RT | EXP RT (REL RT) | MASS | RESPONSE | AMOUNTS CAL-AMT ( PPBV) | ON-COL ( PPBV) | TARGET RANGE | RATIO |
|---|---|---|---|---|---|---|---|
| 97 Bromoform (continued) | | | | | | | |
| 22.707 | 22.707 (1.051) | 171 | 514766 | | | 22.12- 82.12 | 51.69 |
| 98 Cumene | | | | | CAS #: 98-82-8 | | |
| 22.810 | 22.810 (1.055) | 105 | 2298774 | 10.0000 | 9.272 | 80.00- 120.00 | 100.00 |
| 22.810 | 22.810 (1.055) | 120 | 604343 | | | 0.00- 56.13 | 26.29 |
| 103 1,1,2,2-Tetrachloroethane | | | | | CAS #: 79-34-5 | | |
| 23.197 | 23.197 (1.073) | 83 | 1396531 | 10.0000 | 9.758 | 80.00- 120.00 | 100.00 |
| 23.197 | 23.197 (1.073) | 85 | 896382 | | | 34.44- 94.44 | 64.19 |
| 104 Propylbenzene | | | | | CAS #: 103-65-1 | | |
| 23.274 | 23.274 (1.077) | 91 | 2427440 | 10.0000 | 9.462 | 80.00- 120.00 | 100.00 |
| 23.274 | 23.274 (1.077) | 120 | 532165 | | | 0.00- 52.40 | 21.92 |
| 107 4-Ethyltoluene | | | | | CAS #: 622-96-8 | | |
| 23.403 | 23.403 (1.083) | 105 | 1972362 | 10.0000 | 8.424 | 80.00- 120.00 | 100.00 |
| 23.403 | 23.403 (1.083) | 120 | 575256 | | | 0.31- 60.31 | 29.17 |
| 109 1,3,5-Trimethylbenzene | | | | | CAS #: 108-67-8 | | |
| 23.455 | 23.455 (1.085) | 105 | 1786543 | 10.0000 | 9.659 | 80.00- 120.00 | 100.00 |
| 23.455 | 23.455 (1.085) | 120 | 843011 | | | 18.26- 78.26 | 47.19 |
| 112 1,2,4-Trimethylbenzene | | | | | CAS #: 95-63-6 | | |
| 23.893 | 23.893 (1.105) | 105 | 1569048 | 10.0000 | 9.089 | 80.00- 120.00 | 100.00 |
| 23.893 | 23.893 (1.105) | 120 | 713002 | | | 15.25- 75.25 | 45.44 |
| 115 1,3-Dichlorobenzene | | | | | CAS #: 541-73-1 | | |
| 24.255 | 24.255 (1.122) | 146 | 1044373 | 10.0000 | 8.606 | 80.00- 120.00 | 100.00 |
| 24.255 | 24.255 (1.122) | 148 | 656361 | | | 33.56- 93.56 | 62.85 |
| 24.255 | 24.255 (1.122) | 111 | 464373 | | | 14.68- 74.68 | 44.46 |
| 117 1,4-Dichlorobenzene | | | | | CAS #: 106-46-7 | | |
| 24.358 | 24.358 (1.127) | 146 | 978331 | 10.0000 | 8.979 | 80.00- 120.00 | 100.00 |
| 24.358 | 24.358 (1.127) | 148 | 621729 | | | 33.39- 93.39 | 63.55 |
| 24.358 | 24.358 (1.127) | 111 | 423108 | | | 12.70- 72.70 | 43.25 |
| 118 alpha-chlorotoluene | | | | | CAS #: 100-44-7 | | |
| 24.512 | 24.512 (1.134) | 91 | 1655557 | 10.0000 | 9.873 | 80.00- 120.00 | 100.00 |
| 24.512 | 24.512 (1.134) | 126 | 325338 | | | 0.00- 49.37 | 19.65 |
| 121 1,2-Dichlorobenzene | | | | | CAS #: 95-50-1 | | |
| 24.770 | 24.770 (1.146) | 146 | 948871 | 10.0000 | 8.888 | 80.00- 120.00 | 100.00 |
| 24.770 | 24.770 (1.146) | 148 | 604397 | | | 33.70- 93.70 | 63.70 |
| 24.770 | 24.770 (1.146) | 111 | 430028 | | | 15.32- 75.32 | 45.32 |

| | | | | AMOUNTS CAL-AMT ( PPBV) | ON-COL ( PPBV) | TARGET RANGE | RATIO |
|---|---|---|---|---|---|---|---|
| RT | EXP RT (REL RT) | MASS | RESPONSE | | | | |
| 126 1,2,4-Trichlorobenzene | | | | | CAS #: 120-82-1 | | |
| 26.524 | 26.524 (1.227) | 180 | 692858 | 10.0000 | 11.282 | 80.00- 120.00 | 100.00 |
| 26.524 | 26.524 (1.227) | 182 | 652732 | | | 62.96- 122.96 | 94.21 |
| 128 Hexachlorobutadiene | | | | | CAS #: 87-68-3 | | |
| 26.627 | 26.627 (1.232) | 225 | 527946 | 10.0000 | 11.528 | 80.00- 120.00 | 100.00 |
| 26.627 | 26.627 (1.232) | 223 | 334009 | | | 34.16- 94.16 | 63.27 |
| 129 Naphthalene | | | | | CAS #: 91-20-3 | | |
| 26.859 | 26.859 (1.243) | 128 | 1389958 | 10.0000 | 10.844 | 80.00- 120.00 | 100.00 |
| 26.859 | 26.859 (1.243) | 127 | 177152 | | | 0.00- 42.68 | 12.75 |

Report Date: 07-Sep-2011 14:20

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msda.i
Lab File ID: a090102.d
Lab Smp Id: CCV
Analysis Type: VOA
Quant Type: ISTD
Operator: cr
Method File: /chem/msda.i/01Sep2011.b/a11l0818b.m
Misc Info: 10ppbv (50ppbv)

Calibration Date: 01-SEP-2011
Calibration Time: 10:51
Client Smp ID: CCV
Level: LOW
Sample Type: AIR

| | | AREA LIMIT | | | |
|---|---|---|---|---|---|
| COMPOUND | STANDARD | LOWER | UPPER | SAMPLE | %DIFF |
| 52 Bromochloromethan | 179572 | 107743 | 251401 | 204525 | 13.90 |
| 66 1,4-Difluorobenze | 863243 | 517946 | 1208540 | 937041 | 8.55 |
| 88 Chlorobenzene-d5 | 693658 | 416195 | 971121 | 804938 | 16.04 |

| | | RT LIMIT | | | |
|---|---|---|---|---|---|
| COMPOUND | STANDARD | LOWER | UPPER | SAMPLE | %DIFF |
| 52 Bromochloromethan | 15.41 | 15.08 | 15.74 | 15.41 | 0.00 |
| 66 1,4-Difluorobenze | 16.82 | 16.49 | 17.15 | 16.83 | 0.00 |
| 88 Chlorobenzene-d5 | 21.61 | 21.28 | 21.94 | 21.61 | 0.00 |

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

•¥

Data File: /chem/msda.i/01Sep2011.b/a090102.d



Date : 01-SEP-2011 08:06

Client ID: CCV

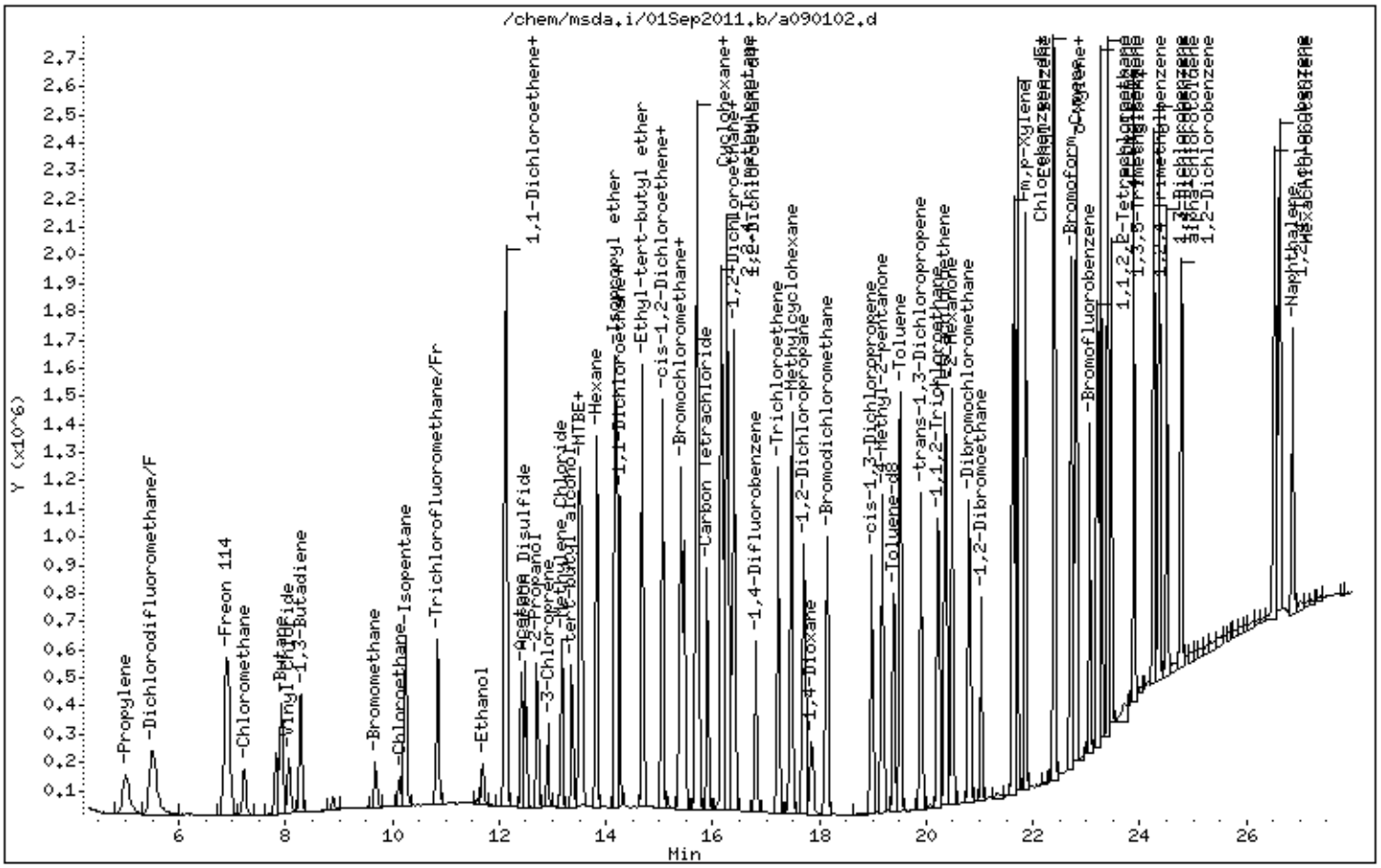
Instrument: msda.i

Sample Info: 50mL #2296-84

Operator: cr

Column phase: RTx-624

Column diameter: 0.32



Air Toxics Ltd.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: msda.i Injection Date: 01-SEP-2011 10:51
Lab File ID: a090105.d Init. Cal. Date(s): 18-AUG-2011 31-AUG-2011
Analysis Type: AIR Init. Cal. Times: 14:46 12:17
Lab Sample ID: CCVsp Quant Type: ISTD
Method: /chem/msda.i/01Sep2011.b/a11l0818b.m

| COMPOUND | RRF / AMOUNT | RF2 | MIN RRF | %D / %DRIFT | MAX %D / %DRIFT | CURVE TYPE |
|---|---|---|---|---|---|---|
|$ 61 1,2-Dichloroethane-d4 | 1.79948 | 1.81497 | 0.010 | -0.86085 | 30.00000 | Averaged |
|$ 80 Toluene-d8 | 0.97214 | 0.97123 | 0.010 | 0.09338 | 30.00000 | Averaged |
|$ 100 Bromofluorobenzene | 0.52085 | 0.55987 | 0.010 | -7.49330 | 30.00000 | Averaged |
| 54 2,3-Dimethylpentane | 1.48548 | 1.60056 | 0.010 | -7.74673 | 30.00000 | Averaged |
| 30 2-Methylpentane | 1.66796 | 1.72648 | 0.010 | -3.50892 | 30.00000 | Averaged |
| 122 Indene | 0.28356 | 0.32657 | 0.010 | -15.16990 | 30.00000 | Averaged |
| 119 Indan | 0.79090 | 0.89586 | 0.010 | -13.27075 | 30.00000 | Averaged |
| 65 Thiophene | 1.08192 | 1.13620 | 0.010 | -5.01699 | 30.00000 | Averaged |

Air Toxics Ltd.

AMBIENT AIR METHOD TO14/TO15

Data file : /chem/msda.i/01Sep2011.b/a090105.d
Lab Smp Id: CCVsp Client Smp ID: ccv
Inj Date : 01-SEP-2011 10:51
Operator : dfm Inst ID: msda.i
Smp Info : 125mL #2296-177
Misc Info : 1.0ppbv (2.0ppbv)
Comment :
Method : /chem/msda.i/01Sep2011.b/a11l0818b.m
Meth Date : 01-Sep-2011 11:32 croush Quant Type: ISTD
Cal Date : 31-AUG-2011 12:17 Cal File: a083107.d
Als bottle: 16 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: spAT3ccv.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

| | | | | AMOUNTS | | | |
|---|---|---|---|---|---|---|---|
| | | | | CAL-AMT | ON-COL | | |
| RT | EXP RT (REL RT) | MASS | RESPONSE | ( PPBV) | ( PPBV) | TARGET RANGE | RATIO |
| == | ====== ======== | ==== | ======== | ======= | ======= | ========== | ===== |
| * 52 Bromochloromethane | | | | | | CAS #: 74-97-5 | |
| 15.406 | 15.406 (1.000) | 130 | 179572 | 10.0000 | | 80.00- 120.00 | 100.00 |
| 15.406 | 15.406 (1.000) | 128 | 144863 | | | 0.00- 30.00 | 80.67 |
| 15.406 | 15.406 (1.000) | 49 | 322054 | | | 0.00- 30.00 | 179.35 |
| * 66 1,4-Difluorobenzene | | | | | | CAS #: 540-36-3 | |
| 16.825 | 16.825 (1.000) | 114 | 863243 | 10.0000 | | 80.00- 120.00 | 100.00 |
| 16.825 | 16.825 (1.000) | 88 | 148675 | | | 0.00- 30.00 | 17.22 |
| * 88 Chlorobenzene-d5 | | | | | | CAS #: 3114-55-4 | |
| 21.614 | 21.614 (1.000) | 117 | 693658 | 10.0000 | | 80.00- 120.00 | 100.00 |
| 21.590 | 21.590 (1.000) | 82 | 410806 | | | 0.00- 30.00 | 59.22 |
| $ 61 1,2-Dichloroethane-d4 | | | | | | CAS #: 17060-07-0 | |
| 16.248 | 16.248 (1.055) | 65 | 325918 | 10.0000 | 10.086 | 80.00- 120.00 | 100.00 |
| 16.248 | 16.248 (1.055) | 67 | 168077 | | | 21.17- 81.17 | 51.57 |
| $ 80 Toluene-d8 | | | | | | CAS #: 2037-26-5 | |
| 19.389 | 19.389 (1.152) | 98 | 838408 | 10.0000 | 9.991 | 80.00- 120.00 | 100.00 |
| 19.389 | 19.389 (1.152) | 70 | 101212 | | | 0.00- 41.96 | 12.07 |

| RT | EXP RT (REL RT) | MASS | RESPONSE | AMOUNTS CAL-AMT ( PPBV) | ON-COL ( PPBV) | TARGET RANGE | RATIO |
|---|---|---|---|---|---|---|---|
| $ 80 Toluene-d8 (continued) | | | | | | | |
| 19.389 | 19.389 (1.152) | 100 | 560274 | | | 36.83- 96.83 | 66.83 |
| $ 100 Bromofluorobenzene | | | | | CAS #: 460-00-4 | | |
| 23.068 | 23.068 (1.067) | 174 | 388360 | 10.0000 | 10.749 | 80.00- 120.00 | 100.00 |
| 23.068 | 23.068 (1.067) | 95 | 550020 | | | 111.63- 171.63 | 141.63 |
| 23.068 | 23.068 (1.067) | 176 | 372036 | | | 65.80- 125.80 | 95.80 |
| 54 2,3-Dimethylpentane | | | | | CAS #: 565-59-3 | | |
| 15.683 | 15.683 (1.018) | 71 | 28741 | 1.00000 | 1.077 | 80.00- 120.00 | 100.00 |
| 15.683 | 15.683 (1.018) | 56 | 86391 | | | 0.00- 30.00 | 300.58 |
| 15.683 | 15.683 (1.018) | 43 | 68699 | | | 0.00- 30.00 | 239.02 |
| 30 2-Methylpentane | | | | | CAS #: 107-83-5 | | |
| 12.995 | 12.995 (0.844) | 71 | 31002 | 1.00000 | 1.035 | 80.00- 120.00 | 100.00 |
| 12.995 | 12.995 (0.844) | 43 | 98009 | | | 0.00- 30.00 | 316.13 |
| 12.995 | 12.995 (0.844) | 42 | 50750 | | | 0.00- 30.00 | 163.70 |
| 122 Indene | | | | | CAS #: 95-13-6 | | |
| 24.848 | 24.848 (1.150) | 115 | 22652 | 1.00000 | 1.152 | 80.00- 120.00 | 100.00(T) |
| 24.848 | 24.848 (1.150) | 116 | 24257 | | | 0.00- 30.00 | 107.08 |
| 0.000 | 1.000 (0.000) | 0 | 0 | | | 0.00- 30.00 | 0.00 |
| 119 Indan | | | | | CAS #: 496-11-7 | | |
| 24.615 | 24.615 (1.139) | 117 | 62142 | 1.00000 | 1.133 | 80.00- 120.00 | 100.00 |
| 24.590 | 24.590 (1.138) | 118 | 36428 | | | 0.00- 30.00 | 58.62 |
| 24.590 | 24.590 (1.138) | 91 | 12168 | | | 0.00- 30.00 | 19.58 |
| 65 Thiophene | | | | | CAS #: 110-02-1 | | |
| 16.605 | 16.605 (0.987) | 84 | 98081 | 1.00000 | 1.050 | 80.00- 120.00 | 100.00(T) |
| 16.605 | 16.605 (0.987) | 58 | 67053 | | | 0.00- 30.00 | 68.37 |
| 0.000 | 1.000 (0.000) | 0 | 0 | | | 0.00- 30.00 | 0.00 |

## QC Flag Legend

T - Target compound detected outside RT window.

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msda.i
Lab File ID: a090105.d
Lab Smp Id: CCVsp
Analysis Type: VOA
Quant Type: ISTD
Operator: dfm
Method File: /chem/msda.i/01Sep2011.b/a11l0818b.m
Misc Info: 1.0ppbv (2.0ppbv)

Calibration Date: 01-SEP-2011
Calibration Time: 08:06
Client Smp ID: ccv
Level: LOW
Sample Type: AIR

| | | AREA LIMIT | | | |
|---|---|---|---|---|---|
| COMPOUND | STANDARD | LOWER | UPPER | SAMPLE | %DIFF |
| 52 Bromochloromethan | 204525 | 122715 | 286335 | 179572 | -12.20 |
| 66 1,4-Difluorobenze | 937041 | 562225 | 1311857 | 863243 | -7.88 |
| 88 Chlorobenzene-d5 | 804938 | 482963 | 1126913 | 693658 | -13.82 |

| | | RT LIMIT | | | |
|---|---|---|---|---|---|
| COMPOUND | STANDARD | LOWER | UPPER | SAMPLE | %DIFF |
| 52 Bromochloromethan | 15.41 | 15.08 | 15.74 | 15.41 | 0.00 |
| 66 1,4-Difluorobenze | 16.83 | 16.50 | 17.16 | 16.82 | 0.00 |
| 88 Chlorobenzene-d5 | 21.61 | 21.28 | 21.94 | 21.61 | 0.00 |

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Data File: /chem/msda.i/01Sep2011.b/a090105.d



Date : 01-SEP-2011 10:51

Client ID: ccv

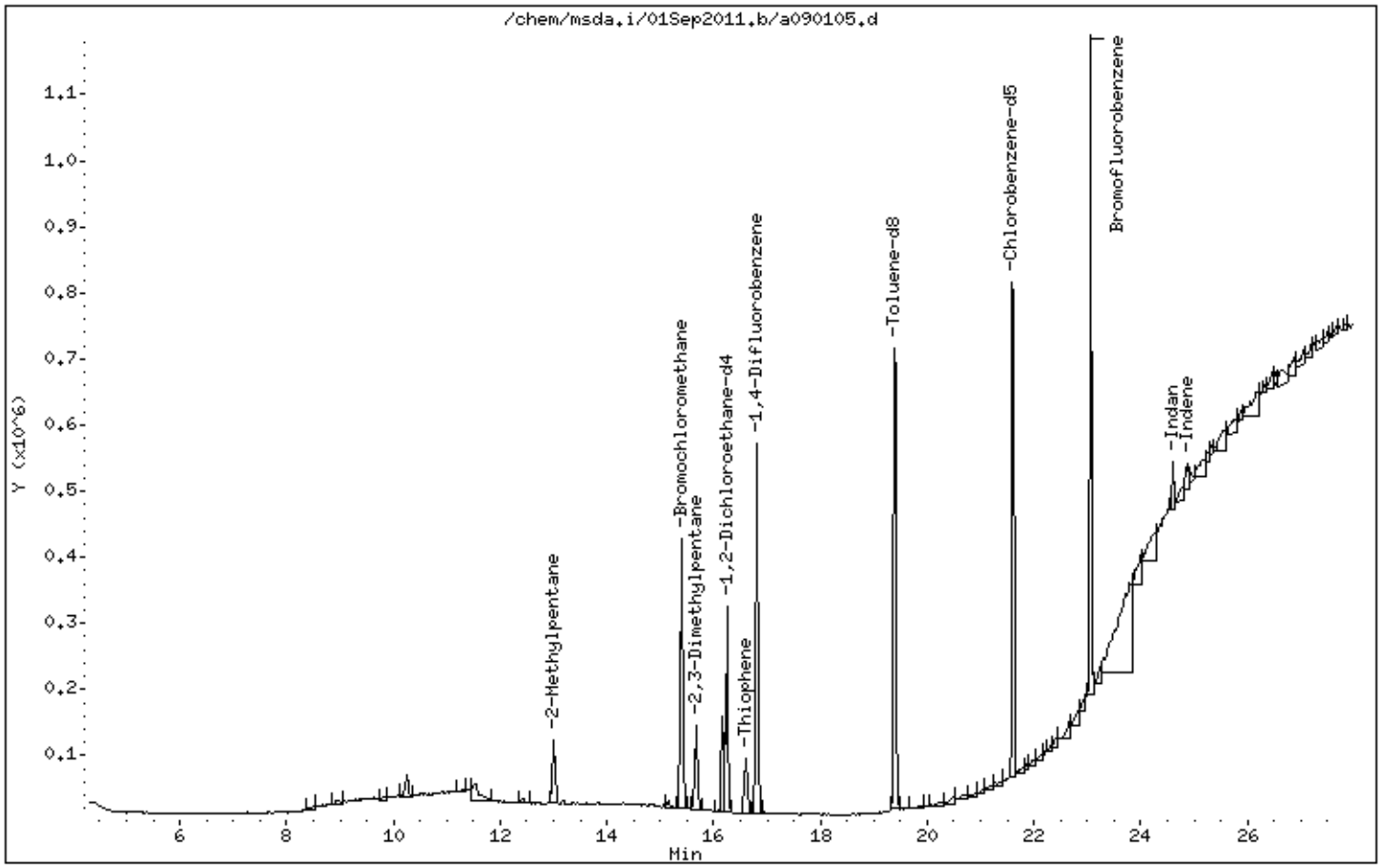
Instrument: msda.i

Sample Info: 125mL #2296-177

Operator: dfm

Column phase: RTx-624

Column diameter: 0.32



Air Toxics LTD.
Laboratory Services Since 1989

**Client Sample ID: LCS**

**Lab ID#: 1108582-11A**

**MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN**

| | | | |
|---|---|---|---|
| **File Name:** | **a083103** | **Date of Collection: NA** | |
| **Dil. Factor:** | **1.00** | **Date of Analysis: 8/31/11 08:37 AM** | |

| Compound | %Recovery |
|---|---|
| Freon 12 | 90 |
| Freon 114 | 87 |
| Chloromethane | 98 |
| Vinyl Chloride | 93 |
| 1,3-Butadiene | 90 |
| Bromomethane | 87 |
| Chloroethane | 88 |
| Freon 11 | 105 |
| Ethanol | 262 Q |
| Freon 113 | 98 |
| 1,1-Dichloroethene | 95 |
| Acetone | 95 |
| 2-Propanol | 86 |
| Carbon Disulfide | 111 |
| 3-Chloropropene | 126 |
| Methylene Chloride | 81 |
| Methyl tert-butyl ether | 86 |
| trans-1,2-Dichloroethene | 97 |
| Hexane | 87 |
| 1,1-Dichloroethane | 94 |
| 2-Butanone (Methyl Ethyl Ketone) | 84 |
| cis-1,2-Dichloroethene | 85 |
| Tetrahydrofuran | 97 |
| Chloroform | 86 |
| 1,1,1-Trichloroethane | 85 |
| Cyclohexane | 84 |
| Carbon Tetrachloride | 67 Q |
| 2,2,4-Trimethylpentane | 98 |
| Benzene | 93 |
| 1,2-Dichloroethane | 95 |
| Heptane | 97 |
| Trichloroethene | 92 |
| 1,2-Dichloropropane | 94 |
| 1,4-Dioxane | 91 |
| Bromodichloromethane | 92 |
| cis-1,3-Dichloropropene | 90 |
| 4-Methyl-2-pentanone | 97 |
| Toluene | 90 |
| trans-1,3-Dichloropropene | 89 |
| 1,1,2-Trichloroethane | 85 |
| Tetrachloroethene | 88 |

Air Toxics LTD.
Laboratory Services Since 1989

**Client Sample ID: LCS**

**Lab ID#: 1108582-11A**

**MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN**

| | | | |
|---|---|---|---|
| **File Name:** | **a083103** | **Date of Collection: NA** | |
| **Dil. Factor:** | **1.00** | **Date of Analysis: 8/31/11 08:37 AM** | |

| Compound | %Recovery |
|---|---|
| 2-Hexanone | 96 |
| Dibromochloromethane | 89 |
| 1,2-Dibromoethane (EDB) | 89 |
| Chlorobenzene | 90 |
| Ethyl Benzene | 88 |
| m,p-Xylene | 90 |
| o-Xylene | 92 |
| Styrene | 87 |
| Bromoform | 93 |
| Cumene | 91 |
| 1,1,2,2-Tetrachloroethane | 94 |
| Propylbenzene | 94 |
| 4-Ethyltoluene | 80 |
| 1,3,5-Trimethylbenzene | 93 |
| 1,2,4-Trimethylbenzene | 85 |
| 1,3-Dichlorobenzene | 83 |
| 1,4-Dichlorobenzene | 86 |
| alpha-Chlorotoluene | 89 |
| 1,2-Dichlorobenzene | 85 |
| 1,2,4-Trichlorobenzene | 102 |
| Hexachlorobutadiene | 108 |
| 2,3-Dimethylpentane | Not Spiked |
| 2-Methylpentane | Not Spiked |
| Indene | Not Spiked |
| Indan | Not Spiked |
| Isopentane | 88 |
| Naphthalene | 116 |
| Thiophene | Not Spiked |

Q = Exceeds Quality Control limits.

**Container Type: NA - Not Applicable**

| Surrogates | %Recovery | Method Limits |
|---|---|---|
| 1,2-Dichloroethane-d4 | 102 | 70-130 |
| Toluene-d8 | 102 | 70-130 |
| 4-Bromofluorobenzene | 104 | 70-130 |

Report Date: 13-Sep-2011 14:25

Air Toxics Ltd.

RECOVERY REPORT

Client Name: Client SDG: 31Aug2011
Sample Matrix: GAS Fraction: VOA
Lab Smp Id: LCS Client Smp ID: LCS
Level: LOW Operator: cr
Data Type: MS DATA SampleType: LCS
SpikeList File: AT09.spk Quant Type: ISTD
Sublist File: AT09.sub
Method File: /chem/msda.i/31Aug2011.b/a11l0818b.m
Misc Info: 10ppbv (50ppbv)

| SPIKE COMPOUND | CONC ADDED PPBV | CONC RECOVERED PPBV | % RECOVERED | LIMITS |
|---|---|---|---|---|
| 4 Dichlorodifluorome | 10.000 | 9.059 | 90.59 | 70-130 |
| 2 Propylene | 10.000 | 8.913 | 89.13 | 60-140 |
| 6 Freon 114 | 10.000 | 8.663 | 86.63 | 70-130 |
| 7 Chloromethane | 10.000 | 9.829 | 98.29 | 70-130 |
| 10 Vinyl Chloride | 10.000 | 9.295 | 92.95 | 70-130 |
| 11 1,3-Butadiene | 10.000 | 9.059 | 90.59 | 60-140 |
| 12 Bromomethane | 10.000 | 8.677 | 86.77 | 70-130 |
| 13 Chloroethane | 10.000 | 8.834 | 88.34 | 70-130 |
| 16 Trichlorofluoromet | 10.000 | 10.530 | 105.30 | 70-130 |
| 20 Ethanol | 10.000 | 26.191 | 261.91* | 60-140 |
| 22 Freon 113 | 10.000 | 9.782 | 97.82 | 70-130 |
| 23 1,1-Dichloroethene | 10.000 | 9.462 | 94.63 | 70-130 |
| 24 Acetone | 10.000 | 9.502 | 95.02 | 60-140 |
| 26 Carbon Disulfide | 10.000 | 11.095 | 110.95 | 60-140 |
| 27 2-Propanol | 10.000 | 8.622 | 86.22 | 60-140 |
| 28 3-Chloroprene | 10.000 | 12.640 | 126.40 | 60-140 |
| 33 Methylene Chloride | 10.000 | 8.136 | 81.36 | 70-130 |
| 35 MTBE | 10.000 | 8.653 | 86.53 | 60-140 |
| 36 trans-1,2-Dichloro | 10.000 | 9.673 | 96.73 | 60-140 |
| 40 Hexane | 10.000 | 8.684 | 86.84 | 60-140 |
| 42 1,1-Dichloroethane | 10.000 | 9.413 | 94.13 | 70-130 |
| 44 Vinyl Acetate | 10.000 | 9.039 | 90.39 | 60-140 |
| 47 cis-1,2-Dichloroet | 10.000 | 8.494 | 84.94 | 70-130 |
| 48 2-Butanone | 10.000 | 8.437 | 84.37 | 60-140 |
| 51 Tetrahydrofuran | 10.000 | 9.719 | 97.19 | 60-140 |
| 53 Chloroform | 10.000 | 8.625 | 86.25 | 70-130 |
| 55 Cyclohexane | 10.000 | 8.426 | 84.27 | 60-140 |
| 56 1,1,1-Trichloroeth | 10.000 | 8.512 | 85.12 | 70-130 |
| 57 Carbon Tetrachlori | 10.000 | 6.664 | 66.64* | 70-130 |
| 59 2,2,4-Trimethylpen | 10.000 | 9.849 | 98.49 | 60-140 |
| 60 Benzene | 10.000 | 9.260 | 92.60 | 70-130 |
| 64 Heptane | 10.000 | 9.745 | 97.45 | 60-140 |
| 63 1,2-Dichloroethane | 10.000 | 9.483 | 94.83 | 70-130 |

| SPIKE COMPOUND | CONC ADDED PPBV | CONC RECOVERED PPBV | % RECOVERED | LIMITS |
|---|---|---|---|---|
| 67 Trichloroethene | 10.000 | 9.258 | 92.58 | 70-130 |
| 72 1,2-Dichloropropan | 10.000 | 9.438 | 94.38 | 70-130 |
| 74 1,4-Dioxane | 10.000 | 9.074 | 90.74 | 60-140 |
| 76 Bromodichlorometha | 10.000 | 9.183 | 91.83 | 60-140 |
| 77 cis-1,3-Dichloropr | 10.000 | 9.002 | 90.02 | 70-130 |
| 78 4-Methyl-2-pentano | 10.000 | 9.673 | 96.73 | 60-140 |
| 81 Toluene | 10.000 | 9.004 | 90.04 | 70-130 |
| 82 trans-1,3-Dichloro | 10.000 | 8.928 | 89.28 | 70-130 |
| 83 1,1,2-Trichloroeth | 10.000 | 8.533 | 85.33 | 70-130 |
| 85 2-Hexanone | 10.000 | 9.623 | 96.23 | 60-140 |
| 84 Tetrachloroethene | 10.000 | 8.854 | 88.54 | 70-130 |
| 86 Dibromochlorometha | 10.000 | 8.914 | 89.14 | 60-140 |
| 87 1,2-Dibromoethane | 10.000 | 8.937 | 89.37 | 70-130 |
| 89 Chlorobenzene | 10.000 | 9.023 | 90.23 | 70-130 |
| 91 Ethyl Benzene | 10.000 | 8.796 | 87.96 | 70-130 |
| 93 m,p-Xylene | 10.000 | 8.953 | 89.53 | 70-130 |
| 94 o-Xylene | 10.000 | 9.168 | 91.68 | 70-130 |
| 95 Styrene | 10.000 | 8.663 | 86.63 | 70-130 |
| 97 Bromoform | 10.000 | 9.329 | 93.29 | 60-140 |
| 98 Cumene | 10.000 | 9.140 | 91.41 | 60-140 |
| 103 1,1,2,2-Tetrachlor | 10.000 | 9.447 | 94.47 | 70-130 |
| 104 Propylbenzene | 10.000 | 9.373 | 93.73 | 70-130 |
| 107 4-Ethyltoluene | 10.000 | 7.962 | 79.62 | 60-140 |
| 109 1,3,5-Trimethylben | 10.000 | 9.322 | 93.22 | 70-130 |
| 112 1,2,4-Trimethylben | 10.000 | 8.478 | 84.78 | 70-130 |
| 115 1,3-Dichlorobenzen | 10.000 | 8.280 | 82.80 | 70-130 |
| 117 1,4-Dichlorobenzen | 10.000 | 8.557 | 85.57 | 70-130 |
| 118 alpha-chlorotoluen | 10.000 | 8.931 | 89.31 | 70-130 |
| 121 1,2-Dichlorobenzen | 10.000 | 8.532 | 85.32 | 70-130 |
| 126 1,2,4-Trichloroben | 10.000 | 10.258 | 102.58 | 70-130 |
| 128 Hexachlorobutadien | 10.000 | 10.758 | 107.58 | 70-130 |
| 129 Naphthalene | 10.000 | 11.629 | 116.29 | 60-140 |
| 14 Isopentane | 10.000 | 8.830 | 88.30 | 60-140 |
| 9 Butane | 10.000 | 8.892 | 88.92 | 60-140 |
| 69 Methylcyclohexane | 10.000 | 9.421 | 94.21 | 60-140 |
| 34 tert-butyl alcohol | 10.000 | 5.946 | 59.47* | 60-140 |
| 41 Isopropyl ether | 10.000 | 8.822 | 88.22 | 60-140 |
| 46 Ethyl-tert-butyl e | 10.000 | 7.803 | 78.03 | 60-140 |
| 62 tert-amyl methyl e | 10.000 | 7.215 | 72.15 | 60-140 |

| SURROGATE COMPOUND | CONC ADDED PPBV | CONC RECOVERED PPBV | % RECOVERED | LIMITS |
|---|---|---|---|---|
| $ 61 1,2-Dichloroethane | 10.000 | 10.188 | 101.88 | 70-130 |

| SURROGATE COMPOUND | CONC ADDED PPBV | CONC RECOVERED PPBV | % RECOVERED | LIMITS |
|---|---|---|---|---|
| $ 80 Toluene-d8 | 10.000 | 10.233 | 102.33 | 70-130 |
| $ 100 Bromofluorobenzene | 10.000 | 10.420 | 104.20 | 70-130 |

Air Toxics Ltd.

AMBIENT AIR METHOD TO14/TO15

Data file : /chem/msda.i/31Aug2011.b/a083103.d
Lab Smp Id: LCS Client Smp ID: LCS
Inj Date : 31-AUG-2011 08:37
Operator : cr Inst ID: msda.i
Smp Info : 50mL #2296-133
Misc Info : 10ppbv (50ppbv)
Comment :
Method : /chem/msda.i/31Aug2011.b/a11l0818b.m
Meth Date : 13-Sep-2011 12:21 ejakob Quant Type: ISTD
Cal Date : 19-AUG-2011 14:38 Cal File: a081907.d
Als bottle: 17 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AT09.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

| | | | | CONCENTRATIONS ON-COL | FINAL | | |
|---|---|---|---|---|---|---|---|
| RT | EXP RT (REL RT) | MASS | RESPONSE | ( PPBV) | ( PPBV) | TARGET RANGE | RATIO |
| * 52 Bromochloromethane | | | | | | CAS #: 74-97-5 | |
| 15.406 | 15.406 (1.000) | 130 | 204623 | 10.0000 | | 80.00- 120.00 | 100.00 |
| 15.406 | 15.406 (1.000) | 128 | 161454 | | | 0.00- 30.00 | 78.90 |
| 15.406 | 15.406 (1.000) | 49 | 451765 | | | 0.00- 30.00 | 220.78 |
| * 66 1,4-Difluorobenzene | | | | | | CAS #: 540-36-3 | |
| 16.825 | 16.825 (1.000) | 114 | 899409 | 10.0000 | | 80.00- 120.00 | 100.00 |
| 16.825 | 16.825 (1.000) | 88 | 153911 | | | 0.00- 30.00 | 17.11 |
| * 88 Chlorobenzene-d5 | | | | | | CAS #: 3114-55-4 | |
| 21.614 | 21.614 (1.000) | 117 | 796029 | 10.0000 | | 80.00- 120.00 | 100.00 |
| 21.614 | 21.614 (1.000) | 82 | 475277 | | | 0.00- 30.00 | 59.71 |
| $ 61 1,2-Dichloroethane-d4 | | | | | | CAS #: 17060-07-0 | |
| 16.249 | 16.248 (1.055) | 65 | 375138 | 10.1880 | 10.188 | 80.00- 120.00 | 100.00 |
| 16.249 | 16.248 (1.055) | 67 | 263989 | | | 21.17- 81.17 | 70.37 |
| $ 80 Toluene-d8 | | | | | | CAS #: 2037-26-5 | |
| 19.412 | 19.411 (1.154) | 98 | 894734 | 10.2331 | 10.233 | 80.00- 120.00 | 100.00 |
| 19.389 | 19.411 (1.152) | 70 | 106207 | | | 0.00- 41.96 | 11.87 |

| RT | EXP RT (REL RT) | MASS | RESPONSE | CONCENTRATIONS ON-COL ( PPBV) | CONCENTRATIONS FINAL ( PPBV) | TARGET RANGE | RATIO |
|---|---|---|---|---|---|---|---|
| $ 80 Toluene-d8 (continued) | | | | | | | |
| 19.412 | 19.411 (1.154) | 100 | 599032 | | | 36.91- 96.91 | 66.95 |
| $ 100 Bromofluorobenzene | | | | | CAS #: 460-00-4 | | |
| 23.068 | 23.068 (1.067) | 174 | 432031 | 10.4202 | 10.420 | 80.00- 120.00 | 100.00 |
| 23.068 | 23.068 (1.067) | 95 | 619132 | | | 114.98- 174.98 | 143.31 |
| 23.068 | 23.068 (1.067) | 176 | 420300 | | | 67.23- 127.23 | 97.28 |
| 2 Propylene | | | | | CAS #: 115-07-1 | | |
| 4.818 | 5.131 (0.313) | 41 | 390661 | 8.91280 | 8.913 | 80.00- 120.00 | 100.00 |
| 4.794 | 5.131 (0.311) | 42 | 264071 | | | 36.86- 96.86 | 67.60 |
| 4.794 | 5.131 (0.311) | 39 | 279406 | | | 41.49- 101.49 | 71.52 |
| 4 Dichlorodifluoromethane/Fr12 | | | | | CAS #: 75-71-8 | | |
| 5.324 | 5.613 (0.346) | 85 | 1217912 | 9.05945 | 9.059 | 80.00- 120.00 | 100.00 |
| 5.324 | 5.613 (0.346) | 87 | 395403 | | | 2.29- 62.29 | 32.47 |
| 6 Freon 114 | | | | | CAS #: 76-14-2 | | |
| 6.794 | 6.963 (0.441) | 135 | 737071 | 8.66290 | 8.663 | 80.00- 120.00 | 100.00 |
| 6.794 | 6.963 (0.441) | 137 | 234567 | | | 1.34- 61.34 | 31.82 |
| 6.794 | 6.963 (0.441) | 85 | 1100920 | | | 133.27- 193.27 | 149.36 |
| 7 Chloromethane | | | | | CAS #: 74-87-3 | | |
| 7.132 | 7.276 (0.463) | 50 | 485615 | 9.82921 | 9.829 | 80.00- 120.00 | 100.00 |
| 7.132 | 7.276 (0.463) | 52 | 156768 | | | 2.29- 62.29 | 32.28 |
| 9 Butane | | | | | CAS #: 106-97-8 | | |
| 7.850 | 7.954 (0.510) | 58 | 109993 | 8.89226 | 8.892 | 80.00- 120.00 | 100.00 |
| 7.850 | 7.954 (0.510) | 43 | 799603 | | | 641.41- 701.41 | 726.96 |
| 10 Vinyl Chloride | | | | | CAS #: 75-01-4 | | |
| 7.989 | 8.093 (0.519) | 62 | 518333 | 9.29545 | 9.295 | 80.00- 120.00 | 100.00 |
| 7.989 | 8.093 (0.519) | 64 | 159517 | | | 0.79- 60.79 | 30.78 |
| 11 1,3-Butadiene | | | | | CAS #: 106-99-0 | | |
| 8.215 | 8.319 (0.533) | 54 | 395939 | 9.05861 | 9.059 | 80.00- 120.00 | 100.00 |
| 8.215 | 8.319 (0.533) | 39 | 384643 | | | 64.36- 124.36 | 97.15 |
| 12 Bromomethane | | | | | CAS #: 74-83-9 | | |
| 9.659 | 9.701 (0.627) | 94 | 225261 | 8.67739 | 8.677 | 80.00- 120.00 | 100.00 |
| 9.659 | 9.701 (0.627) | 96 | 211295 | | | 63.06- 123.06 | 93.80 |
| 13 Chloroethane | | | | | CAS #: 75-00-3 | | |
| 10.115 | 10.136 (0.657) | 64 | 173886 | 8.83398 | 8.834 | 80.00- 120.00 | 100.00 |
| 10.115 | 10.136 (0.657) | 66 | 55300 | | | 2.32- 62.32 | 31.80 |

| RT | EXP RT (REL RT) | MASS | RESPONSE | CONCENTRATIONS ON-COL ( PPBV) | FINAL ( PPBV) | TARGET RANGE | RATIO |
|---|---|---|---|---|---|---|---|
| 14 Isopentane | | | | | CAS #: 78-78-4 | | |
| 10.219 | 10.260 (0.663) | 57 | 359710 | 8.83044 | 8.830 | 80.00- 120.00 | 100.00 |
| 10.219 | 10.260 (0.663) | 43 | 516992 | | | 104.71- 164.71 | 143.72 |
| 10.219 | 10.260 (0.663) | 42 | 451658 | | | 89.04- 149.04 | 125.56 |
| 16 Trichlorofluoromethane/Fr11 | | | | | CAS #: 75-69-4 | | |
| 10.841 | 10.841 (0.704) | 101 | 1126046 | 10.5303 | 10.530 | 80.00- 120.00 | 100.00 |
| 10.841 | 10.841 (0.704) | 103 | 731668 | | | 34.85- 94.85 | 64.98 |
| 20 Ethanol | | | | | CAS #: 64-17-5 | | |
| 11.691 | 11.690 (0.759) | 45 | 194162 | 26.1907 | 26.191 | 80.00- 120.00 | 100.00(R) |
| 11.691 | 11.690 (0.759) | 43 | 42697 | | | 0.00- 57.08 | 21.99 |
| 11.691 | 11.690 (0.759) | 46 | 81497 | | | 10.87- 70.87 | 41.97 |
| 23 1,1-Dichloroethene | | | | | CAS #: 75-35-4 | | |
| 12.147 | 12.146 (0.788) | 98 | 281275 | 9.46251 | 9.462 | 80.00- 120.00 | 100.00 |
| 12.147 | 12.146 (0.788) | 61 | 817171 | | | 252.93- 312.93 | 290.52 |
| 12.147 | 12.146 (0.788) | 96 | 448230 | | | 129.43- 189.43 | 159.36 |
| 22 Freon 113 | | | | | CAS #: 76-13-1 | | |
| 12.126 | 12.126 (0.787) | 151 | 707759 | 9.78232 | 9.782 | 80.00- 120.00 | 100.00 |
| 12.126 | 12.126 (0.787) | 153 | 449050 | | | 33.14- 93.14 | 63.45 |
| 12.126 | 12.126 (0.787) | 101 | 995899 | | | 109.89- 169.89 | 140.71 |
| 24 Acetone | | | | | CAS #: 67-64-1 | | |
| 12.416 | 12.416 (0.806) | 58 | 252892 | 9.50169 | 9.502 | 80.00- 120.00 | 100.00 |
| 12.416 | 12.416 (0.806) | 43 | 799329 | | | 283.54- 343.54 | 316.08 |
| 26 Carbon Disulfide | | | | | CAS #: 75-15-0 | | |
| 12.499 | 12.499 (0.811) | 76 | 1211677 | 11.0950 | 11.095 | 80.00- 120.00 | 100.00 |
| 28 3-Chloroprene | | | | | CAS #: 107-05-1 | | |
| 12.913 | 12.913 (0.838) | 76 | 139281 | 12.6399 | 12.640 | 80.00- 120.00 | 100.00 |
| 12.913 | 12.913 (0.838) | 41 | 472621 | | | 273.34- 333.34 | 339.33 |
| 27 2-Propanol | | | | | CAS #: 67-63-0 | | |
| 12.706 | 12.727 (0.825) | 45 | 1059449 | 8.62165 | 8.622 | 80.00- 120.00 | 100.00 |
| 12.706 | 12.727 (0.825) | 43 | 220190 | | | 0.00- 49.76 | 20.78 |
| 12.706 | 12.727 (0.825) | 59 | 33311 | | | 0.00- 34.09 | 3.14 |
| 33 Methylene Chloride | | | | | CAS #: 75-09-2 | | |
| 13.160 | 13.160 (0.854) | 84 | 375887 | 8.13627 | 8.136 | 80.00- 120.00 | 100.00 |
| 13.160 | 13.160 (0.854) | 49 | 589816 | | | 112.00- 172.00 | 156.91 |
| 13.160 | 13.160 (0.854) | 51 | 176621 | | | 13.10- 73.10 | 46.99 |
| 34 tert-butyl alcohol | | | | | CAS #: 75-65-0 | | |
| 13.352 | 13.380 (0.867) | 59 | 485370 | 5.94655 | 5.946 | 80.00- 120.00 | 100.00(R) |

| RT | EXP RT (REL RT) | MASS | RESPONSE | CONCENTRATIONS ON-COL ( PPBV) | CONCENTRATIONS FINAL ( PPBV) | TARGET RANGE | RATIO |
|---|---|---|---|---|---|---|---|
| 34 tert-butyl alcohol (continued) | | | | | | | |
| 13.352 | 13.380 (0.867) | 41 | 137779 | | | 0.00- 48.20 | 28.39 |
| 13.352 | 13.380 (0.867) | 57 | 62079 | | | 0.00- 38.59 | 12.79 |
| 35 MTBE | | | | | CAS #: 1634-04-4 | | |
| 13.490 | 13.489 (0.876) | 73 | 1325471 | 8.65343 | 8.653 | 80.00- 120.00 | 100.00 |
| 13.490 | 13.489 (0.876) | 57 | 340863 | | | 0.00- 55.70 | 25.72 |
| 13.490 | 13.489 (0.876) | 41 | 338870 | | | 0.00- 55.35 | 25.57 |
| 36 trans-1,2-Dichloroethene | | | | | CAS #: 156-60-5 | | |
| 13.544 | 13.544 (0.879) | 98 | 328781 | 9.67261 | 9.673 | 80.00- 120.00 | 100.00 |
| 13.544 | 13.544 (0.879) | 61 | 815069 | | | 212.41- 272.41 | 247.91 |
| 13.544 | 13.544 (0.879) | 96 | 514407 | | | 128.28- 188.28 | 156.46 |
| 40 Hexane | | | | | CAS #: 110-54-3 | | |
| 13.819 | 13.819 (0.897) | 57 | 889213 | 8.68359 | 8.684 | 80.00- 120.00 | 100.00 |
| 13.819 | 13.819 (0.897) | 43 | 591849 | | | 33.38- 93.38 | 66.56 |
| 13.847 | 13.819 (0.899) | 86 | 141867 | | | 0.00- 46.43 | 15.95 |
| 41 Isopropyl ether | | | | | CAS #: 108-20-3 | | |
| 14.176 | 14.176 (0.920) | 45 | 1848685 | 8.82181 | 8.822 | 80.00- 120.00 | 100.00 |
| 14.176 | 14.176 (0.920) | 87 | 415777 | | | 0.00- 54.93 | 22.49 |
| 14.176 | 14.176 (0.920) | 59 | 206076 | | | 0.00- 41.38 | 11.15 |
| 42 1,1-Dichloroethane | | | | | CAS #: 75-34-3 | | |
| 14.231 | 14.231 (0.924) | 63 | 905860 | 9.41288 | 9.413 | 80.00- 120.00 | 100.00 |
| 14.231 | 14.231 (0.924) | 65 | 288469 | | | 2.24- 62.24 | 31.84 |
| 44 Vinyl Acetate | | | | | CAS #: 108-05-4 | | |
| 14.258 | 14.258 (0.926) | 86 | 99543 | 9.03876 | 9.039 | 80.00- 120.00 | 100.00 |
| 14.258 | 14.258 (0.926) | 42 | 92461 | | | 71.80- 131.80 | 92.89 |
| 14.258 | 14.258 (0.926) | 43 | 1107531 | | | 1179.88-1239.88 | 1112.62 |
| 46 Ethyl-tert-butyl ether | | | | | CAS #: 637-92-3 | | |
| 14.671 | 14.671 (0.952) | 59 | 1562671 | 7.80305 | 7.803 | 80.00- 120.00 | 100.00 |
| 14.671 | 14.671 (0.952) | 87 | 573924 | | | 8.46- 68.46 | 36.73 |
| 14.671 | 14.671 (0.952) | 41 | 306819 | | | 0.00- 47.65 | 19.63 |
| 47 cis-1,2-Dichloroethene | | | | | CAS #: 156-59-2 | | |
| 15.044 | 15.044 (0.977) | 98 | 321551 | 8.49379 | 8.494 | 80.00- 120.00 | 100.00 |
| 15.044 | 15.044 (0.977) | 61 | 743198 | | | 191.49- 251.49 | 231.13 |
| 15.044 | 15.044 (0.977) | 96 | 508051 | | | 129.77- 189.77 | 158.00 |
| 48 2-Butanone | | | | | CAS #: 78-93-3 | | |
| 15.065 | 15.065 (0.978) | 72 | 257341 | 8.43702 | 8.437 | 80.00- 120.00 | 100.00 |
| 15.065 | 15.065 (0.978) | 43 | 1178760 | | | 298.82- 358.82 | 458.05 |

| RT | EXP RT (REL RT) | MASS | RESPONSE | CONCENTRATIONS ON-COL ( PPBV) | CONCENTRATIONS FINAL ( PPBV) | TARGET RANGE | RATIO |
|---|---|---|---|---|---|---|---|
| 48 2-Butanone (continued) | | | | | | | |
| 15.065 | 15.065 (0.978) | 57 | 87806 | | | 0.00- 56.09 | 34.12 |
| 51 Tetrahydrofuran | | | | | CAS #: 109-99-9 | | |
| 15.406 | 15.406 (1.000) | 42 | 654718 | 9.71923 | 9.719 | 80.00- 120.00 | 100.00 |
| 15.406 | 15.406 (1.000) | 71 | 218718 | | | 6.88- 66.88 | 33.41 |
| 15.406 | 15.406 (1.000) | 72 | 239027 | | | 11.00- 71.00 | 36.51 |
| 53 Chloroform | | | | | CAS #: 67-66-3 | | |
| 15.467 | 15.467 (1.004) | 83 | 1003636 | 8.62484 | 8.625 | 80.00- 120.00 | 100.00 |
| 15.467 | 15.467 (1.004) | 85 | 656959 | | | 34.45- 94.45 | 65.46 |
| 55 Cyclohexane | | | | | CAS #: 110-82-7 | | |
| 15.714 | 15.714 (1.020) | 84 | 719612 | 8.42657 | 8.426 | 80.00- 120.00 | 100.00 |
| 15.714 | 15.714 (1.020) | 56 | 970961 | | | 97.99- 157.99 | 134.93 |
| 15.714 | 15.714 (1.020) | 41 | 536204 | | | 37.94- 97.94 | 74.51 |
| 56 1,1,1-Trichloroethane | | | | | CAS #: 71-55-6 | | |
| 15.714 | 15.714 (1.020) | 97 | 1058188 | 8.51172 | 8.512 | 80.00- 120.00 | 100.00 |
| 15.714 | 15.714 (1.020) | 99 | 669549 | | | 34.37- 94.37 | 63.27 |
| 57 Carbon Tetrachloride | | | | | CAS #: 56-23-5 | | |
| 15.899 | 15.899 (1.032) | 119 | 621119 | 6.66412 | 6.664 | 80.00- 120.00 | 100.00(R) |
| 15.899 | 15.899 (1.032) | 117 | 653733 | | | 74.49- 134.49 | 105.25 |
| 59 2,2,4-Trimethylpentane | | | | | CAS #: 540-84-1 | | |
| 16.166 | 16.166 (1.049) | 56 | 1290081 | 9.84891 | 9.849 | 80.00- 120.00 | 100.00 |
| 16.166 | 16.166 (1.049) | 57 | 3737766 | | | 264.71- 324.71 | 289.73 |
| 16.166 | 16.166 (1.049) | 41 | 1021264 | | | 74.97- 134.97 | 79.16 |
| 60 Benzene | | | | | CAS #: 71-43-2 | | |
| 16.249 | 16.248 (0.966) | 78 | 1546868 | 9.25988 | 9.260 | 80.00- 120.00 | 100.00 |
| 16.249 | 16.248 (0.966) | 77 | 360533 | | | 0.00- 53.14 | 23.31 |
| 62 tert-amyl methyl ether | | | | | CAS #: 994-05-8 | | |
| 16.276 | 16.303 (0.967) | 87 | 276671 | 7.21509 | 7.215 | 80.00- 120.00 | 100.00 |
| 16.276 | 16.303 (0.967) | 73 | 1185319 | | | 388.88- 448.88 | 428.42 |
| 16.276 | 16.303 (0.967) | 55 | 363179 | | | 85.24- 145.24 | 131.27 |
| 63 1,2-Dichloroethane | | | | | CAS #: 107-06-2 | | |
| 16.358 | 16.358 (0.972) | 62 | 748593 | 9.48274 | 9.483 | 80.00- 120.00 | 100.00 |
| 16.358 | 16.358 (0.972) | 64 | 236776 | | | 2.07- 62.07 | 31.63 |
| 64 Heptane | | | | | CAS #: 142-82-5 | | |
| 16.413 | 16.413 (0.976) | 57 | 542565 | 9.74510 | 9.745 | 80.00- 120.00 | 100.00 |
| 16.413 | 16.413 (0.976) | 100 | 210284 | | | 11.16- 71.16 | 38.76 |

| RT | EXP RT (REL RT) | MASS | RESPONSE | CONCENTRATIONS ON-COL ( PPBV) | FINAL ( PPBV) | TARGET RANGE | RATIO |
|---|---|---|---|---|---|---|---|
| 64 Heptane (continued) | | | | | | | |
| 16.413 | 16.413 (0.976) | 43 | 1060987 | | | 158.27- 218.27 | 195.55 |
| 67 Trichloroethene | | | | | CAS #: 79-01-6 | | |
| 17.237 | 17.237 (1.024) | 130 | 660364 | 9.25761 | 9.258 | 80.00- 120.00 | 100.00 |
| 17.237 | 17.237 (1.024) | 95 | 675613 | | | 75.28- 135.28 | 102.31 |
| 17.237 | 17.237 (1.024) | 97 | 438164 | | | 37.01- 97.01 | 66.35 |
| 69 Methylcyclohexane | | | | | CAS #: 108-87-2 | | |
| 17.484 | 17.484 (1.039) | 83 | 932668 | 9.42063 | 9.421 | 80.00- 120.00 | 100.00 |
| 17.484 | 17.484 (1.039) | 98 | 443392 | | | 17.59- 77.59 | 47.54 |
| 17.484 | 17.484 (1.039) | 55 | 852865 | | | 57.89- 117.89 | 91.44 |
| 72 1,2-Dichloropropane | | | | | CAS #: 78-87-5 | | |
| 17.704 | 17.704 (1.052) | 63 | 626264 | 9.43804 | 9.438 | 80.00- 120.00 | 100.00 |
| 17.704 | 17.704 (1.052) | 62 | 462509 | | | 43.22- 103.22 | 73.85 |
| 17.704 | 17.704 (1.052) | 41 | 382532 | | | 32.03- 92.03 | 61.08 |
| 74 1,4-Dioxane | | | | | CAS #: 123-91-1 | | |
| 17.841 | 17.868 (1.060) | 88 | 359066 | 9.07432 | 9.074 | 80.00- 120.00 | 100.00 |
| 17.841 | 17.868 (1.060) | 58 | 285473 | | | 46.02- 106.02 | 79.50 |
| 17.841 | 17.868 (1.060) | 57 | 89437 | | | 0.00- 53.54 | 24.91 |
| 76 Bromodichloromethane | | | | | CAS #: 75-27-4 | | |
| 18.143 | 18.143 (1.078) | 83 | 1049714 | 9.18340 | 9.183 | 80.00- 120.00 | 100.00 |
| 18.143 | 18.143 (1.078) | 85 | 670090 | | | 33.96- 93.96 | 63.84 |
| 77 cis-1,3-Dichloropropene | | | | | CAS #: 10061-01-5 | | |
| 18.986 | 18.986 (1.128) | 75 | 816372 | 9.00155 | 9.002 | 80.00- 120.00 | 100.00 |
| 18.986 | 18.986 (1.128) | 77 | 258387 | | | 1.99- 61.99 | 31.65 |
| 18.986 | 18.986 (1.128) | 39 | 458547 | | | 26.13- 86.13 | 56.17 |
| 78 4-Methyl-2-pentanone | | | | | CAS #: 108-10-1 | | |
| 19.165 | 19.165 (1.139) | 43 | 1327063 | 9.67311 | 9.673 | 80.00- 120.00 | 100.00 |
| 19.165 | 19.165 (1.139) | 58 | 508695 | | | 10.31- 70.31 | 38.33 |
| 19.188 | 19.165 (1.140) | 85 | 196549 | | | 0.00- 46.66 | 14.81 |
| 81 Toluene | | | | | CAS #: 108-88-3 | | |
| 19.524 | 19.524 (1.160) | 91 | 1720129 | 9.00356 | 9.004 | 80.00- 120.00 | 100.00 |
| 19.524 | 19.524 (1.160) | 92 | 1028309 | | | 30.18- 90.18 | 59.78 |
| 82 trans-1,3-Dichloropropene | | | | | CAS #: 10061-02-6 | | |
| 19.910 | 19.910 (0.921) | 75 | 836618 | 8.92815 | 8.928 | 80.00- 120.00 | 100.00 |
| 19.910 | 19.910 (0.921) | 77 | 262667 | | | 1.51- 61.51 | 31.40 |
| 19.910 | 19.910 (0.921) | 39 | 450377 | | | 23.58- 83.58 | 53.83 |

| RT | EXP RT (REL RT) | MASS | RESPONSE | CONCENTRATIONS ON-COL ( PPBV) | CONCENTRATIONS FINAL ( PPBV) | TARGET RANGE | RATIO |
|---|---|---|---|---|---|---|---|
| 83 1,1,2-Trichloroethane | | | | | CAS #: 79-00-5 | | |
| 20.235 | 20.235 (0.936) | 97 | 636343 | 8.53285 | 8.533 | 80.00- 120.00 | 100.00 |
| 20.235 | 20.235 (0.936) | 99 | 393669 | | | 32.01- 92.01 | 61.86 |
| 20.235 | 20.235 (0.936) | 83 | 549397 | | | 56.20- 116.20 | 86.34 |
| 84 Tetrachloroethene | | | | | CAS #: 127-18-4 | | |
| 20.366 | 20.365 (0.942) | 166 | 761188 | 8.85448 | 8.854 | 80.00- 120.00 | 100.00 |
| 20.333 | 20.365 (0.941) | 129 | 590413 | | | 48.84- 108.84 | 77.56 |
| 20.366 | 20.365 (0.942) | 131 | 565360 | | | 46.09- 106.09 | 74.27 |
| 85 2-Hexanone | | | | | CAS #: 591-78-6 | | |
| 20.496 | 20.495 (0.948) | 58 | 719242 | 9.62316 | 9.623 | 80.00- 120.00 | 100.00 |
| 20.496 | 20.495 (0.948) | 43 | 1365536 | | | 132.91- 192.91 | 189.86 |
| 20.496 | 20.495 (0.948) | 100 | 140958 | | | 0.00- 49.97 | 19.60 |
| 86 Dibromochloromethane | | | | | CAS #: 124-48-1 | | |
| 20.788 | 20.788 (0.962) | 129 | 980491 | 8.91442 | 8.914 | 80.00- 120.00 | 100.00 |
| 20.788 | 20.788 (0.962) | 127 | 757838 | | | 48.12- 108.12 | 77.29 |
| 87 1,2-Dibromoethane | | | | | CAS #: 106-93-4 | | |
| 21.016 | 21.048 (0.972) | 107 | 949826 | 8.93715 | 8.937 | 80.00- 120.00 | 100.00 |
| 21.048 | 21.048 (0.974) | 109 | 886170 | | | 64.41- 124.41 | 93.30 |
| 89 Chlorobenzene | | | | | CAS #: 108-90-7 | | |
| 21.638 | 21.638 (1.001) | 112 | 1365331 | 9.02317 | 9.023 | 80.00- 120.00 | 100.00 |
| 21.638 | 21.638 (1.001) | 114 | 434585 | | | 2.00- 62.00 | 31.83 |
| 21.638 | 21.638 (1.001) | 77 | 861897 | | | 33.87- 93.87 | 63.13 |
| 91 Ethyl Benzene | | | | | CAS #: 100-41-4 | | |
| 21.711 | 21.711 (1.004) | 106 | 682830 | 8.79554 | 8.796 | 80.00- 120.00 | 100.00 |
| 21.711 | 21.711 (1.004) | 91 | 2208737 | | | 291.22- 351.22 | 323.47 |
| 93 m,p-Xylene | | | | | CAS #: 108-38-3 | | |
| 21.855 | 21.855 (1.011) | 106 | 760025 | 8.95313 | 8.953 | 80.00- 120.00 | 100.00 |
| 21.855 | 21.855 (1.011) | 91 | 1560170 | | | 173.15- 233.15 | 205.28 |
| 94 o-Xylene | | | | | CAS #: 95-47-6 | | |
| 22.385 | 22.385 (1.036) | 106 | 748783 | 9.16792 | 9.168 | 80.00- 120.00 | 100.00 |
| 22.385 | 22.385 (1.036) | 91 | 1605768 | | | 185.20- 245.20 | 214.45 |
| 95 Styrene | | | | | CAS #: 100-42-5 | | |
| 22.409 | 22.409 (1.037) | 104 | 1150077 | 8.66349 | 8.663 | 80.00- 120.00 | 100.00 |
| 22.409 | 22.409 (1.037) | 78 | 599165 | | | 21.95- 81.95 | 52.10 |
| 97 Bromoform | | | | | CAS #: 75-25-2 | | |
| 22.707 | 22.707 (1.051) | 173 | 874647 | 9.32945 | 9.329 | 80.00- 120.00 | 100.00 |

| RT | EXP RT (REL RT) | MASS | RESPONSE | CONCENTRATIONS ON-COL ( PPBV) | CONCENTRATIONS FINAL ( PPBV) | TARGET RANGE | RATIO |
|---|---|---|---|---|---|---|---|
| 97 Bromoform (continued) | | | | | | | |
| 22.707 | 22.707 (1.051) | 171 | 457117 | | | 22.12- 82.12 | 52.26 |
| 98 Cumene | | | | | CAS #: 98-82-8 | | |
| 22.810 | 22.810 (1.055) | 105 | 2241169 | 9.14055 | 9.140 | 80.00- 120.00 | 100.00 |
| 22.810 | 22.810 (1.055) | 120 | 592689 | | | 0.00- 56.13 | 26.45 |
| 103 1,1,2,2-Tetrachloroethane | | | | | CAS #: 79-34-5 | | |
| 23.223 | 23.197 (1.074) | 83 | 1337050 | 9.44674 | 9.447 | 80.00- 120.00 | 100.00 |
| 23.223 | 23.197 (1.074) | 85 | 854484 | | | 34.44- 94.44 | 63.91 |
| 104 Propylbenzene | | | | | CAS #: 103-65-1 | | |
| 23.274 | 23.274 (1.077) | 91 | 2378087 | 9.37324 | 9.373 | 80.00- 120.00 | 100.00 |
| 23.274 | 23.274 (1.077) | 120 | 515416 | | | 0.00- 52.40 | 21.67 |
| 107 4-Ethyltoluene | | | | | CAS #: 622-96-8 | | |
| 23.403 | 23.403 (1.083) | 105 | 1843706 | 7.96245 | 7.962 | 80.00- 120.00 | 100.00 |
| 23.403 | 23.403 (1.083) | 120 | 536612 | | | 0.31- 60.31 | 29.11 |
| 109 1,3,5-Trimethylbenzene | | | | | CAS #: 108-67-8 | | |
| 23.481 | 23.455 (1.086) | 105 | 1705198 | 9.32221 | 9.322 | 80.00- 120.00 | 100.00 |
| 23.481 | 23.455 (1.086) | 120 | 795728 | | | 18.26- 78.26 | 46.66 |
| 112 1,2,4-Trimethylbenzene | | | | | CAS #: 95-63-6 | | |
| 23.893 | 23.893 (1.105) | 105 | 1447402 | 8.47817 | 8.478 | 80.00- 120.00 | 100.00 |
| 23.893 | 23.893 (1.105) | 120 | 653135 | | | 15.25- 75.25 | 45.12 |
| 115 1,3-Dichlorobenzene | | | | | CAS #: 541-73-1 | | |
| 24.255 | 24.254 (1.122) | 146 | 993617 | 8.27967 | 8.280 | 80.00- 120.00 | 100.00 |
| 24.255 | 24.254 (1.122) | 148 | 631132 | | | 33.56- 93.56 | 63.52 |
| 24.255 | 24.254 (1.122) | 111 | 436993 | | | 14.68- 74.68 | 43.98 |
| 117 1,4-Dichlorobenzene | | | | | CAS #: 106-46-7 | | |
| 24.358 | 24.358 (1.127) | 146 | 922029 | 8.55680 | 8.557 | 80.00- 120.00 | 100.00 |
| 24.358 | 24.358 (1.127) | 148 | 584440 | | | 33.39- 93.39 | 63.39 |
| 24.358 | 24.358 (1.127) | 111 | 393189 | | | 12.70- 72.70 | 42.64 |
| 118 alpha-chlorotoluene | | | | | CAS #: 100-44-7 | | |
| 24.512 | 24.512 (1.134) | 91 | 1481018 | 8.93106 | 8.931 | 80.00- 120.00 | 100.00 |
| 24.512 | 24.512 (1.134) | 126 | 291828 | | | 0.00- 49.37 | 19.70 |
| 121 1,2-Dichlorobenzene | | | | | CAS #: 95-50-1 | | |
| 24.796 | 24.796 (1.147) | 146 | 900675 | 8.53151 | 8.532 | 80.00- 120.00 | 100.00 |
| 24.796 | 24.796 (1.147) | 148 | 565920 | | | 32.66- 92.66 | 62.83 |
| 24.796 | 24.796 (1.147) | 111 | 407540 | | | 15.11- 75.11 | 45.25 |

| RT | EXP RT (REL RT) | MASS | RESPONSE | CONCENTRATIONS ON-COL ( PPBV) | FINAL ( PPBV) | TARGET RANGE | RATIO |
|---|---|---|---|---|---|---|---|
| 126 1,2,4-Trichlorobenzene | | | | | CAS #: 120-82-1 | | |
| 26.524 | 26.524 (1.227) | 180 | 622984 | 10.2579 | 10.258 | 80.00- 120.00 | 100.00 |
| 26.524 | 26.524 (1.227) | 182 | 583677 | | | 62.96- 122.96 | 93.69 |
| 128 Hexachlorobutadiene | | | | | CAS #: 87-68-3 | | |
| 26.627 | 26.627 (1.232) | 225 | 487211 | 10.7577 | 10.758 | 80.00- 120.00 | 100.00 |
| 26.627 | 26.627 (1.232) | 223 | 306914 | | | 34.16- 94.16 | 62.99 |
| 129 Naphthalene | | | | | CAS #: 91-20-3 | | |
| 26.885 | 26.885 (1.244) | 128 | 1474020 | 11.6288 | 11.629 | 80.00- 120.00 | 100.00 |
| 26.885 | 26.885 (1.244) | 127 | 188359 | | | 0.00- 42.68 | 12.78 |

QC Flag Legend

R - Spike/Surrogate failed recovery limits.

Air Toxics Ltd.

AMBIENT AIR METHOD TO14/TO15

Data file : /chem/msda.i/31Aug2011.b/a083103.d
Lab Smp Id: LCS Client Smp ID: LCS
Inj Date : 31-AUG-2011 08:37
Operator : cr Inst ID: msda.i
Smp Info : 50mL #2296-133
Misc Info : 10ppbv (50ppbv)
Comment :
Method : /chem/msda.i/31Aug2011.b/a11l0818b.m
Meth Date : 13-Sep-2011 12:21 ejakob Quant Type: ISTD
Cal Date : 19-AUG-2011 14:38 Cal File: a081907.d
Als bottle: 17 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AT09.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

- NO TENTATIVELY IDENTIFIED COMPOUNDS -

Report Date: 13-Sep-2011 14:25

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msda.i
Lab File ID: a083103.d
Lab Smp Id: LCS
Analysis Type: VOA
Quant Type: ISTD
Operator: cr
Method File: /chem/msda.i/31Aug2011.b/a11l0818b.m
Misc Info: 10ppbv (50ppbv)

Calibration Date: 31-AUG-2011
Calibration Time: 08:01
Client Smp ID: LCS
Level: LOW
Sample Type: AIR

| | | AREA LIMIT | | | |
|---|---|---|---|---|---|
| COMPOUND | STANDARD | LOWER | UPPER | SAMPLE | %DIFF |
| 52 Bromochloromethan | 206450 | 123870 | 289030 | 204623 | -0.88 |
| 66 1,4-Difluorobenze | 897592 | 538555 | 1256629 | 899409 | 0.20 |
| 88 Chlorobenzene-d5 | 792197 | 475318 | 1109076 | 796029 | 0.48 |

| | | RT LIMIT | | | |
|---|---|---|---|---|---|
| COMPOUND | STANDARD | LOWER | UPPER | SAMPLE | %DIFF |
| 52 Bromochloromethan | 15.41 | 15.08 | 15.74 | 15.41 | 0.00 |
| 66 1,4-Difluorobenze | 16.82 | 16.50 | 17.15 | 16.83 | 0.00 |
| 88 Chlorobenzene-d5 | 21.61 | 21.28 | 21.94 | 21.61 | 0.00 |

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

^¥

Data File: /chem/msda.i/31Aug2011.b/a083103.d



Date : 31-AUG-2011 08:37

Client ID: LCS

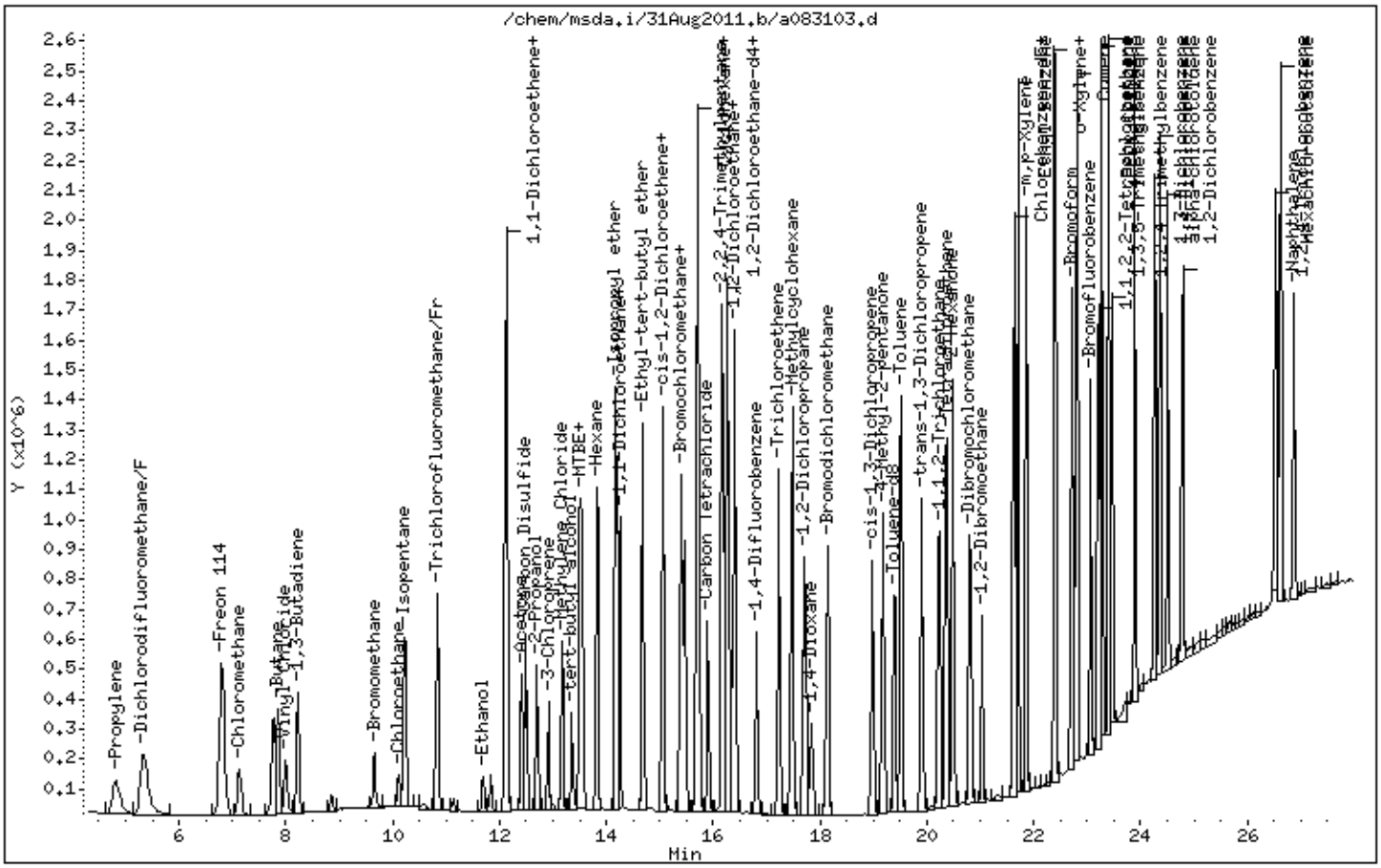
Instrument: msda.i

Sample Info: 50mL #2296-133

Operator: cr

Column phase: RTx-624

Column diameter: 0.32



Air Toxics LTD.
Laboratory Services Since 1989

**Client Sample ID: LCSD**

**Lab ID#: 1108582-11AA**

**MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN**

| | | | |
|---|---|---|---|
| **File Name:** | **a083104** | **Date of Collection: NA** | |
| **Dil. Factor:** | **1.00** | **Date of Analysis: 8/31/11 09:32 AM** | |

| Compound | %Recovery |
|---|---|
| Freon 12 | 92 |
| Freon 114 | 88 |
| Chloromethane | 98 |
| Vinyl Chloride | 94 |
| 1,3-Butadiene | 92 |
| Bromomethane | 89 |
| Chloroethane | 90 |
| Freon 11 | 108 |
| Ethanol | 272 Q |
| Freon 113 | 100 |
| 1,1-Dichloroethene | 97 |
| Acetone | 96 |
| 2-Propanol | 89 |
| Carbon Disulfide | 113 |
| 3-Chloropropene | 137 |
| Methylene Chloride | 83 |
| Methyl tert-butyl ether | 89 |
| trans-1,2-Dichloroethene | 96 |
| Hexane | 88 |
| 1,1-Dichloroethane | 96 |
| 2-Butanone (Methyl Ethyl Ketone) | 86 |
| cis-1,2-Dichloroethene | 88 |
| Tetrahydrofuran | 99 |
| Chloroform | 89 |
| 1,1,1-Trichloroethane | 87 |
| Cyclohexane | 86 |
| Carbon Tetrachloride | 69 Q |
| 2,2,4-Trimethylpentane | 101 |
| Benzene | 94 |
| 1,2-Dichloroethane | 96 |
| Heptane | 99 |
| Trichloroethene | 93 |
| 1,2-Dichloropropane | 94 |
| 1,4-Dioxane | 94 |
| Bromodichloromethane | 94 |
| cis-1,3-Dichloropropene | 92 |
| 4-Methyl-2-pentanone | 98 |
| Toluene | 91 |
| trans-1,3-Dichloropropene | 92 |
| 1,1,2-Trichloroethane | 87 |
| Tetrachloroethene | 91 |

Air Toxics LTD.
Laboratory Services Since 1989

**Client Sample ID: LCSD**

**Lab ID#: 1108582-11AA**

**MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN**

| | | | |
|---|---|---|---|
| **File Name:** | **a083104** | **Date of Collection: NA** | |
| **Dil. Factor:** | **1.00** | **Date of Analysis: 8/31/11 09:32 AM** | |

| Compound | %Recovery |
|---|---|
| 2-Hexanone | 98 |
| Dibromochloromethane | 91 |
| 1,2-Dibromoethane (EDB) | 91 |
| Chlorobenzene | 92 |
| Ethyl Benzene | 90 |
| m,p-Xylene | 91 |
| o-Xylene | 93 |
| Styrene | 88 |
| Bromoform | 96 |
| Cumene | 91 |
| 1,1,2,2-Tetrachloroethane | 96 |
| Propylbenzene | 93 |
| 4-Ethyltoluene | 80 |
| 1,3,5-Trimethylbenzene | 92 |
| 1,2,4-Trimethylbenzene | 85 |
| 1,3-Dichlorobenzene | 83 |
| 1,4-Dichlorobenzene | 86 |
| alpha-Chlorotoluene | 90 |
| 1,2-Dichlorobenzene | 85 |
| 1,2,4-Trichlorobenzene | 121 |
| Hexachlorobutadiene | 125 |
| 2,3-Dimethylpentane | Not Spiked |
| 2-Methylpentane | Not Spiked |
| Indene | Not Spiked |
| Indan | Not Spiked |
| Isopentane | 90 |
| Naphthalene | 142 Q |
| Thiophene | Not Spiked |

Q = Exceeds Quality Control limits.

**Container Type: NA - Not Applicable**

| Surrogates | %Recovery | Method Limits |
|---|---|---|
| 1,2-Dichloroethane-d4 | 103 | 70-130 |
| Toluene-d8 | 102 | 70-130 |
| 4-Bromofluorobenzene | 104 | 70-130 |

Report Date: 13-Sep-2011 14:25

Air Toxics Ltd.

RECOVERY REPORT

Client Name: Client SDG: 31Aug2011
Sample Matrix: GAS Fraction: VOA
Lab Smp Id: LCS Client Smp ID: LCSD
Level: LOW Operator: dfm
Data Type: MS DATA SampleType: LCS
SpikeList File: AT09.spk Quant Type: ISTD
Sublist File: AT09.sub
Method File: /chem/msda.i/31Aug2011.b/a11l0818b.m
Misc Info: 10ppbv (50ppbv)

| SPIKE COMPOUND | CONC ADDED PPBV | CONC RECOVERED PPBV | % RECOVERED | LIMITS |
|---|---|---|---|---|
| 4 Dichlorodifluorome | 10.000 | 9.238 | 92.38 | 70-130 |
| 2 Propylene | 10.000 | 9.124 | 91.24 | 60-140 |
| 6 Freon 114 | 10.000 | 8.783 | 87.83 | 70-130 |
| 7 Chloromethane | 10.000 | 9.822 | 98.22 | 70-130 |
| 10 Vinyl Chloride | 10.000 | 9.380 | 93.80 | 70-130 |
| 11 1,3-Butadiene | 10.000 | 9.228 | 92.28 | 60-140 |
| 12 Bromomethane | 10.000 | 8.915 | 89.15 | 70-130 |
| 13 Chloroethane | 10.000 | 9.056 | 90.56 | 70-130 |
| 16 Trichlorofluoromet | 10.000 | 10.806 | 108.06 | 70-130 |
| 20 Ethanol | 10.000 | 27.259 | 272.59* | 60-140 |
| 22 Freon 113 | 10.000 | 9.978 | 99.78 | 70-130 |
| 23 1,1-Dichloroethene | 10.000 | 9.711 | 97.11 | 70-130 |
| 24 Acetone | 10.000 | 9.603 | 96.03 | 60-140 |
| 26 Carbon Disulfide | 10.000 | 11.349 | 113.49 | 60-140 |
| 27 2-Propanol | 10.000 | 8.903 | 89.03 | 60-140 |
| 28 3-Chloroprene | 10.000 | 13.712 | 137.12 | 60-140 |
| 33 Methylene Chloride | 10.000 | 8.315 | 83.15 | 70-130 |
| 35 MTBE | 10.000 | 8.936 | 89.36 | 60-140 |
| 36 trans-1,2-Dichloro | 10.000 | 9.642 | 96.42 | 60-140 |
| 40 Hexane | 10.000 | 8.854 | 88.54 | 60-140 |
| 42 1,1-Dichloroethane | 10.000 | 9.580 | 95.80 | 70-130 |
| 44 Vinyl Acetate | 10.000 | 9.073 | 90.73 | 60-140 |
| 47 cis-1,2-Dichloroet | 10.000 | 8.755 | 87.55 | 70-130 |
| 48 2-Butanone | 10.000 | 8.648 | 86.48 | 60-140 |
| 51 Tetrahydrofuran | 10.000 | 9.931 | 99.31 | 60-140 |
| 53 Chloroform | 10.000 | 8.898 | 88.98 | 70-130 |
| 55 Cyclohexane | 10.000 | 8.654 | 86.54 | 60-140 |
| 56 1,1,1-Trichloroeth | 10.000 | 8.715 | 87.15 | 70-130 |
| 57 Carbon Tetrachlori | 10.000 | 6.949 | 69.49* | 70-130 |
| 59 2,2,4-Trimethylpen | 10.000 | 10.074 | 100.74 | 60-140 |
| 60 Benzene | 10.000 | 9.366 | 93.66 | 70-130 |
| 64 Heptane | 10.000 | 9.884 | 98.84 | 60-140 |
| 63 1,2-Dichloroethane | 10.000 | 9.578 | 95.78 | 70-130 |

| SPIKE COMPOUND | CONC ADDED PPBV | CONC RECOVERED PPBV | % RECOVERED | LIMITS |
|---|---|---|---|---|
| 67 Trichloroethene | 10.000 | 9.325 | 93.25 | 70-130 |
| 72 1,2-Dichloropropan | 10.000 | 9.444 | 94.44 | 70-130 |
| 74 1,4-Dioxane | 10.000 | 9.439 | 94.39 | 60-140 |
| 76 Bromodichlorometha | 10.000 | 9.366 | 93.66 | 60-140 |
| 77 cis-1,3-Dichloropr | 10.000 | 9.193 | 91.93 | 70-130 |
| 78 4-Methyl-2-pentano | 10.000 | 9.794 | 97.94 | 60-140 |
| 81 Toluene | 10.000 | 9.119 | 91.19 | 70-130 |
| 82 trans-1,3-Dichloro | 10.000 | 9.241 | 92.41 | 70-130 |
| 83 1,1,2-Trichloroeth | 10.000 | 8.744 | 87.44 | 70-130 |
| 85 2-Hexanone | 10.000 | 9.758 | 97.59 | 60-140 |
| 84 Tetrachloroethene | 10.000 | 9.080 | 90.80 | 70-130 |
| 86 Dibromochlorometha | 10.000 | 9.065 | 90.65 | 60-140 |
| 87 1,2-Dibromoethane | 10.000 | 9.098 | 90.98 | 70-130 |
| 89 Chlorobenzene | 10.000 | 9.174 | 91.74 | 70-130 |
| 91 Ethyl Benzene | 10.000 | 9.015 | 90.15 | 70-130 |
| 93 m,p-Xylene | 10.000 | 9.083 | 90.83 | 70-130 |
| 94 o-Xylene | 10.000 | 9.290 | 92.90 | 70-130 |
| 95 Styrene | 10.000 | 8.765 | 87.65 | 70-130 |
| 97 Bromoform | 10.000 | 9.591 | 95.91 | 60-140 |
| 98 Cumene | 10.000 | 9.135 | 91.35 | 60-140 |
| 103 1,1,2,2-Tetrachlor | 10.000 | 9.573 | 95.73 | 70-130 |
| 104 Propylbenzene | 10.000 | 9.312 | 93.13 | 70-130 |
| 107 4-Ethyltoluene | 10.000 | 7.960 | 79.60 | 60-140 |
| 109 1,3,5-Trimethylben | 10.000 | 9.177 | 91.77 | 70-130 |
| 112 1,2,4-Trimethylben | 10.000 | 8.540 | 85.40 | 70-130 |
| 115 1,3-Dichlorobenzen | 10.000 | 8.314 | 83.14 | 70-130 |
| 117 1,4-Dichlorobenzen | 10.000 | 8.638 | 86.38 | 70-130 |
| 118 alpha-chlorotoluen | 10.000 | 9.054 | 90.55 | 70-130 |
| 121 1,2-Dichlorobenzen | 10.000 | 8.504 | 85.04 | 70-130 |
| 126 1,2,4-Trichloroben | 10.000 | 12.128 | 121.29 | 70-130 |
| 128 Hexachlorobutadien | 10.000 | 12.496 | 124.97 | 70-130 |
| 129 Naphthalene | 10.000 | 14.223 | 142.23* | 60-140 |
| 14 Isopentane | 10.000 | 8.956 | 89.56 | 60-140 |
| 9 Butane | 10.000 | 9.228 | 92.28 | 60-140 |
| 69 Methylcyclohexane | 10.000 | 9.490 | 94.90 | 60-140 |
| 34 tert-butyl alcohol | 10.000 | 6.035 | 60.35 | 60-140 |
| 41 Isopropyl ether | 10.000 | 9.021 | 90.21 | 60-140 |
| 46 Ethyl-tert-butyl e | 10.000 | 8.043 | 80.43 | 60-140 |
| 62 tert-amyl methyl e | 10.000 | 7.271 | 72.71 | 60-140 |

| SURROGATE COMPOUND | CONC ADDED PPBV | CONC RECOVERED PPBV | % RECOVERED | LIMITS |
|---|---|---|---|---|
| $ 61 1,2-Dichloroethane | 10.000 | 10.327 | 103.27 | 70-130 |

| SURROGATE COMPOUND | CONC ADDED PPBV | CONC RECOVERED PPBV | % RECOVERED | LIMITS |
|---|---|---|---|---|
| $ 80 Toluene-d8 | 10.000 | 10.175 | 101.75 | 70-130 |
| $ 100 Bromofluorobenzene | 10.000 | 10.425 | 104.25 | 70-130 |

Air Toxics Ltd.

AMBIENT AIR METHOD TO14/TO15

Data file : /chem/msda.i/31Aug2011.b/a083104.d
Lab Smp Id: LCS Client Smp ID: LCSD
Inj Date : 31-AUG-2011 09:32
Operator : dfm Inst ID: msda.i
Smp Info : 50mL #2296-133
Misc Info : 10ppbv (50ppbv)
Comment :
Method : /chem/msda.i/31Aug2011.b/a11l0818b.m
Meth Date : 13-Sep-2011 12:21 ejakob Quant Type: ISTD
Cal Date : 19-AUG-2011 14:38 Cal File: a081907.d
Als bottle: 17 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AT09.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

| | | | | CONCENTRATIONS ON-COL | CONCENTRATIONS FINAL | | |
|---|---|---|---|---|---|---|---|
| RT | EXP RT (REL RT) | MASS | RESPONSE | ( PPBV) | ( PPBV) | TARGET RANGE | RATIO |
| * 52 Bromochloromethane | | | | | CAS #: 74-97-5 | | |
| 15.406 | 15.406 (1.000) | 130 | 204663 | 10.0000 | | 80.00- 120.00 | 100.00 |
| 15.406 | 15.406 (1.000) | 128 | 161319 | | | 0.00- 30.00 | 78.82 |
| 15.406 | 15.406 (1.000) | 49 | 456492 | | | 0.00- 30.00 | 223.05 |
| * 66 1,4-Difluorobenzene | | | | | CAS #: 540-36-3 | | |
| 16.825 | 16.825 (1.000) | 114 | 913120 | 10.0000 | | 80.00- 120.00 | 100.00 |
| 16.825 | 16.825 (1.000) | 88 | 152373 | | | 0.00- 30.00 | 16.69 |
| * 88 Chlorobenzene-d5 | | | | | CAS #: 3114-55-4 | | |
| 21.614 | 21.614 (1.000) | 117 | 799461 | 10.0000 | | 80.00- 120.00 | 100.00 |
| 21.614 | 21.614 (1.000) | 82 | 479574 | | | 0.00- 30.00 | 59.99 |
| $ 61 1,2-Dichloroethane-d4 | | | | | CAS #: 17060-07-0 | | |
| 16.248 | 16.248 (1.055) | 65 | 380333 | 10.3271 | 10.327 | 80.00- 120.00 | 100.00 |
| 16.248 | 16.248 (1.055) | 67 | 263843 | | | 21.17- 81.17 | 69.37 |
| $ 80 Toluene-d8 | | | | | CAS #: 2037-26-5 | | |
| 19.412 | 19.411 (1.154) | 98 | 903197 | 10.1748 | 10.175 | 80.00- 120.00 | 100.00 |
| 19.389 | 19.411 (1.152) | 70 | 108726 | | | 0.00- 41.96 | 12.04 |

| RT | EXP RT (REL RT) | MASS | RESPONSE | CONCENTRATIONS ON-COL ( PPBV) | CONCENTRATIONS FINAL ( PPBV) | TARGET RANGE | RATIO |
|---|---|---|---|---|---|---|---|
| $ 80 Toluene-d8 (continued) | | | | | | | |
| 19.412 | 19.411 (1.154) | 100 | 606810 | | | 36.91- 96.91 | 67.18 |
| $ 100 Bromofluorobenzene | | | | | CAS #: 460-00-4 | | |
| 23.068 | 23.068 (1.067) | 174 | 434107 | 10.4254 | 10.425 | 80.00- 120.00 | 100.00 |
| 23.068 | 23.068 (1.067) | 95 | 615988 | | | 114.98- 174.98 | 141.90 |
| 23.068 | 23.068 (1.067) | 176 | 415612 | | | 67.23- 127.23 | 95.74 |
| 2 Propylene | | | | | CAS #: 115-07-1 | | |
| 4.818 | 5.131 (0.313) | 41 | 400007 | 9.12424 | 9.124 | 80.00- 120.00 | 100.00 |
| 4.818 | 5.131 (0.313) | 42 | 263866 | | | 36.86- 96.86 | 65.97 |
| 4.818 | 5.131 (0.313) | 39 | 281157 | | | 41.49- 101.49 | 70.29 |
| 4 Dichlorodifluoromethane/Fr12 | | | | | CAS #: 75-71-8 | | |
| 5.348 | 5.613 (0.347) | 85 | 1242135 | 9.23783 | 9.238 | 80.00- 120.00 | 100.00 |
| 5.324 | 5.613 (0.346) | 87 | 400858 | | | 2.29- 62.29 | 32.27 |
| 6 Freon 114 | | | | | CAS #: 76-14-2 | | |
| 6.794 | 6.963 (0.441) | 135 | 747413 | 8.78273 | 8.783 | 80.00- 120.00 | 100.00 |
| 6.794 | 6.963 (0.441) | 137 | 238823 | | | 1.34- 61.34 | 31.95 |
| 6.794 | 6.963 (0.441) | 85 | 1119651 | | | 133.27- 193.27 | 149.80 |
| 7 Chloromethane | | | | | CAS #: 74-87-3 | | |
| 7.132 | 7.276 (0.463) | 50 | 485368 | 9.82229 | 9.822 | 80.00- 120.00 | 100.00 |
| 7.132 | 7.276 (0.463) | 52 | 157745 | | | 2.29- 62.29 | 32.50 |
| 9 Butane | | | | | CAS #: 106-97-8 | | |
| 7.850 | 7.954 (0.510) | 58 | 114172 | 9.22830 | 9.228 | 80.00- 120.00 | 100.00 |
| 7.850 | 7.954 (0.510) | 43 | 821410 | | | 641.41- 701.41 | 719.45 |
| 10 Vinyl Chloride | | | | | CAS #: 75-01-4 | | |
| 7.989 | 8.093 (0.519) | 62 | 523134 | 9.37972 | 9.380 | 80.00- 120.00 | 100.00 |
| 7.989 | 8.093 (0.519) | 64 | 163060 | | | 0.79- 60.79 | 31.17 |
| 11 1,3-Butadiene | | | | | CAS #: 106-99-0 | | |
| 8.215 | 8.319 (0.533) | 54 | 403414 | 9.22783 | 9.228 | 80.00- 120.00 | 100.00 |
| 8.215 | 8.319 (0.533) | 39 | 392078 | | | 64.36- 124.36 | 97.19 |
| 12 Bromomethane | | | | | CAS #: 74-83-9 | | |
| 9.659 | 9.701 (0.627) | 94 | 231476 | 8.91506 | 8.915 | 80.00- 120.00 | 100.00 |
| 9.659 | 9.701 (0.627) | 96 | 215675 | | | 63.06- 123.06 | 93.17 |
| 13 Chloroethane | | | | | CAS #: 75-00-3 | | |
| 10.115 | 10.136 (0.657) | 64 | 178285 | 9.05570 | 9.056 | 80.00- 120.00 | 100.00 |
| 10.115 | 10.136 (0.657) | 66 | 55519 | | | 2.32- 62.32 | 31.14 |

| RT | EXP RT (REL RT) | MASS | RESPONSE | CONCENTRATIONS ON-COL ( PPBV) | FINAL ( PPBV) | TARGET RANGE | RATIO |
|---|---|---|---|---|---|---|---|
| 14 Isopentane | | | | | CAS #: 78-78-4 | | |
| 10.219 | 10.260 (0.663) | 57 | 364912 | 8.95639 | 8.956 | 80.00- 120.00 | 100.00 |
| 10.219 | 10.260 (0.663) | 43 | 528564 | | | 104.71- 164.71 | 144.85 |
| 10.219 | 10.260 (0.663) | 42 | 457169 | | | 89.04- 149.04 | 125.28 |
| 16 Trichlorofluoromethane/Fr11 | | | | | CAS #: 75-69-4 | | |
| 10.841 | 10.841 (0.704) | 101 | 1155770 | 10.8062 | 10.806 | 80.00- 120.00 | 100.00 |
| 10.841 | 10.841 (0.704) | 103 | 743555 | | | 34.85- 94.85 | 64.33 |
| 20 Ethanol | | | | | CAS #: 64-17-5 | | |
| 11.690 | 11.690 (0.759) | 45 | 202123 | 27.2592 | 27.259 | 80.00- 120.00 | 100.00(R) |
| 11.690 | 11.690 (0.759) | 43 | 41436 | | | 0.00- 57.08 | 20.50 |
| 11.690 | 11.690 (0.759) | 46 | 82798 | | | 10.87- 70.87 | 40.96 |
| 23 1,1-Dichloroethene | | | | | CAS #: 75-35-4 | | |
| 12.146 | 12.146 (0.788) | 98 | 288715 | 9.71090 | 9.711 | 80.00- 120.00 | 100.00 |
| 12.146 | 12.146 (0.788) | 61 | 835664 | | | 252.93- 312.93 | 289.44 |
| 12.146 | 12.146 (0.788) | 96 | 459020 | | | 129.43- 189.43 | 158.99 |
| 22 Freon 113 | | | | | CAS #: 76-13-1 | | |
| 12.126 | 12.126 (0.787) | 151 | 722090 | 9.97844 | 9.978 | 80.00- 120.00 | 100.00 |
| 12.126 | 12.126 (0.787) | 153 | 464136 | | | 33.14- 93.14 | 64.28 |
| 12.126 | 12.126 (0.787) | 101 | 1014594 | | | 109.89- 169.89 | 140.51 |
| 24 Acetone | | | | | CAS #: 67-64-1 | | |
| 12.416 | 12.416 (0.806) | 58 | 255642 | 9.60314 | 9.603 | 80.00- 120.00 | 100.00 |
| 12.416 | 12.416 (0.806) | 43 | 813764 | | | 283.54- 343.54 | 318.32 |
| 26 Carbon Disulfide | | | | | CAS #: 75-15-0 | | |
| 12.499 | 12.499 (0.811) | 76 | 1239638 | 11.3488 | 11.349 | 80.00- 120.00 | 100.00 |
| 28 3-Chloroprene | | | | | CAS #: 107-05-1 | | |
| 12.913 | 12.913 (0.838) | 76 | 151128 | 13.7123 | 13.712 | 80.00- 120.00 | 100.00 |
| 12.913 | 12.913 (0.838) | 41 | 503858 | | | 273.34- 333.34 | 333.40 |
| 27 2-Propanol | | | | | CAS #: 67-63-0 | | |
| 12.706 | 12.727 (0.825) | 45 | 1094294 | 8.90347 | 8.903 | 80.00- 120.00 | 100.00 |
| 12.706 | 12.727 (0.825) | 43 | 229349 | | | 0.00- 49.76 | 20.96 |
| 12.706 | 12.727 (0.825) | 59 | 45810 | | | 0.00- 34.09 | 4.19 |
| 33 Methylene Chloride | | | | | CAS #: 75-09-2 | | |
| 13.160 | 13.160 (0.854) | 84 | 384206 | 8.31472 | 8.315 | 80.00- 120.00 | 100.00 |
| 13.160 | 13.160 (0.854) | 49 | 596322 | | | 112.00- 172.00 | 155.21 |
| 13.160 | 13.160 (0.854) | 51 | 180752 | | | 13.10- 73.10 | 47.05 |
| 34 tert-butyl alcohol | | | | | CAS #: 75-65-0 | | |
| 13.352 | 13.380 (0.867) | 59 | 492709 | 6.03529 | 6.035 | 80.00- 120.00 | 100.00 |

| RT | EXP RT (REL RT) | MASS | RESPONSE | CONCENTRATIONS ON-COL ( PPBV) | FINAL ( PPBV) | TARGET RANGE | RATIO |
|---|---|---|---|---|---|---|---|
| 34 tert-butyl alcohol (continued) | | | | | | | |
| 13.352 | 13.380 (0.867) | 41 | 136310 | | | 0.00- 48.20 | 27.67 |
| 13.352 | 13.380 (0.867) | 57 | 61272 | | | 0.00- 38.59 | 12.44 |
| 35 MTBE | | | | | CAS #: 1634-04-4 | | |
| 13.489 | 13.489 (0.876) | 73 | 1369077 | 8.93636 | 8.936 | 80.00- 120.00 | 100.00 |
| 13.489 | 13.489 (0.876) | 57 | 345903 | | | 0.00- 55.70 | 25.27 |
| 13.489 | 13.489 (0.876) | 41 | 346175 | | | 0.00- 55.35 | 25.29 |
| 36 trans-1,2-Dichloroethene | | | | | CAS #: 156-60-5 | | |
| 13.544 | 13.544 (0.879) | 98 | 327811 | 9.64219 | 9.642 | 80.00- 120.00 | 100.00 |
| 13.544 | 13.544 (0.879) | 61 | 837971 | | | 212.41- 272.41 | 255.63 |
| 13.544 | 13.544 (0.879) | 96 | 526167 | | | 128.28- 188.28 | 160.51 |
| 40 Hexane | | | | | CAS #: 110-54-3 | | |
| 13.819 | 13.819 (0.897) | 57 | 906854 | 8.85413 | 8.854 | 80.00- 120.00 | 100.00 |
| 13.819 | 13.819 (0.897) | 43 | 606389 | | | 33.38- 93.38 | 66.87 |
| 13.846 | 13.819 (0.899) | 86 | 140430 | | | 0.00- 46.43 | 15.49 |
| 41 Isopropyl ether | | | | | CAS #: 108-20-3 | | |
| 14.176 | 14.176 (0.920) | 45 | 1890886 | 9.02143 | 9.021 | 80.00- 120.00 | 100.00 |
| 14.176 | 14.176 (0.920) | 87 | 431437 | | | 0.00- 54.93 | 22.82 |
| 14.176 | 14.176 (0.920) | 59 | 210537 | | | 0.00- 41.38 | 11.13 |
| 42 1,1-Dichloroethane | | | | | CAS #: 75-34-3 | | |
| 14.231 | 14.231 (0.924) | 63 | 922160 | 9.58038 | 9.580 | 80.00- 120.00 | 100.00 |
| 14.231 | 14.231 (0.924) | 65 | 295915 | | | 2.24- 62.24 | 32.09 |
| 44 Vinyl Acetate | | | | | CAS #: 108-05-4 | | |
| 14.258 | 14.258 (0.926) | 86 | 99940 | 9.07303 | 9.073 | 80.00- 120.00 | 100.00 |
| 14.258 | 14.258 (0.926) | 42 | 96973 | | | 71.80- 131.80 | 97.03 |
| 14.258 | 14.258 (0.926) | 43 | 1167045 | | | 1179.88-1239.88 | 1167.75 |
| 46 Ethyl-tert-butyl ether | | | | | CAS #: 637-92-3 | | |
| 14.671 | 14.671 (0.952) | 59 | 1610969 | 8.04265 | 8.043 | 80.00- 120.00 | 100.00 |
| 14.671 | 14.671 (0.952) | 87 | 591765 | | | 8.46- 68.46 | 36.73 |
| 14.671 | 14.671 (0.952) | 41 | 308161 | | | 0.00- 47.65 | 19.13 |
| 47 cis-1,2-Dichloroethene | | | | | CAS #: 156-59-2 | | |
| 15.044 | 15.044 (0.977) | 98 | 331504 | 8.75498 | 8.755 | 80.00- 120.00 | 100.00 |
| 15.044 | 15.044 (0.977) | 61 | 756731 | | | 191.49- 251.49 | 228.27 |
| 15.044 | 15.044 (0.977) | 96 | 521750 | | | 129.77- 189.77 | 157.39 |
| 48 2-Butanone | | | | | CAS #: 78-93-3 | | |
| 15.065 | 15.065 (0.978) | 72 | 263835 | 8.64823 | 8.648 | 80.00- 120.00 | 100.00 |
| 15.065 | 15.065 (0.978) | 43 | 1208558 | | | 298.82- 358.82 | 458.07 |

| RT | EXP RT (REL RT) | MASS | RESPONSE | CONCENTRATIONS ON-COL ( PPBV) | CONCENTRATIONS FINAL ( PPBV) | TARGET RANGE | RATIO |
|---|---|---|---|---|---|---|---|
| 48 2-Butanone (continued) | | | | | | | |
| 15.065 | 15.065 (0.978) | 57 | 89479 | | | 0.00- 56.09 | 33.91 |
| 51 Tetrahydrofuran | | | | | CAS #: 109-99-9 | | |
| 15.406 | 15.406 (1.000) | 42 | 669114 | 9.93099 | 9.931 | 80.00- 120.00 | 100.00 |
| 15.406 | 15.406 (1.000) | 71 | 222872 | | | 6.88- 66.88 | 33.31 |
| 15.406 | 15.406 (1.000) | 72 | 243448 | | | 11.00- 71.00 | 36.38 |
| 53 Chloroform | | | | | CAS #: 67-66-3 | | |
| 15.467 | 15.467 (1.004) | 83 | 1035669 | 8.89838 | 8.898 | 80.00- 120.00 | 100.00 |
| 15.467 | 15.467 (1.004) | 85 | 670351 | | | 34.45- 94.45 | 64.73 |
| 55 Cyclohexane | | | | | CAS #: 110-82-7 | | |
| 15.714 | 15.714 (1.020) | 84 | 739156 | 8.65373 | 8.654 | 80.00- 120.00 | 100.00 |
| 15.714 | 15.714 (1.020) | 56 | 999184 | | | 97.99- 157.99 | 135.18 |
| 15.714 | 15.714 (1.020) | 41 | 549412 | | | 37.94- 97.94 | 74.33 |
| 56 1,1,1-Trichloroethane | | | | | CAS #: 71-55-6 | | |
| 15.714 | 15.714 (1.020) | 97 | 1083720 | 8.71539 | 8.715 | 80.00- 120.00 | 100.00 |
| 15.714 | 15.714 (1.020) | 99 | 691195 | | | 34.37- 94.37 | 63.78 |
| 57 Carbon Tetrachloride | | | | | CAS #: 56-23-5 | | |
| 15.899 | 15.899 (1.032) | 119 | 647779 | 6.94880 | 6.949 | 80.00- 120.00 | 100.00(R) |
| 15.899 | 15.899 (1.032) | 117 | 663114 | | | 74.49- 134.49 | 102.37 |
| 59 2,2,4-Trimethylpentane | | | | | CAS #: 540-84-1 | | |
| 16.166 | 16.166 (1.049) | 56 | 1319826 | 10.0740 | 10.074 | 80.00- 120.00 | 100.00 |
| 16.166 | 16.166 (1.049) | 57 | 3839980 | | | 264.71- 324.71 | 290.95 |
| 16.166 | 16.166 (1.049) | 41 | 1043720 | | | 74.97- 134.97 | 79.08 |
| 60 Benzene | | | | | CAS #: 71-43-2 | | |
| 16.248 | 16.248 (0.966) | 78 | 1588495 | 9.36628 | 9.366 | 80.00- 120.00 | 100.00 |
| 16.248 | 16.248 (0.966) | 77 | 373089 | | | 0.00- 53.14 | 23.49 |
| 62 tert-amyl methyl ether | | | | | CAS #: 994-05-8 | | |
| 16.276 | 16.303 (0.967) | 87 | 283074 | 7.27123 | 7.271 | 80.00- 120.00 | 100.00 |
| 16.276 | 16.303 (0.967) | 73 | 1223916 | | | 388.88- 448.88 | 432.37 |
| 16.276 | 16.303 (0.967) | 55 | 369581 | | | 85.24- 145.24 | 130.56 |
| 63 1,2-Dichloroethane | | | | | CAS #: 107-06-2 | | |
| 16.358 | 16.358 (0.972) | 62 | 767633 | 9.57792 | 9.578 | 80.00- 120.00 | 100.00 |
| 16.358 | 16.358 (0.972) | 64 | 246080 | | | 2.07- 62.07 | 32.06 |
| 64 Heptane | | | | | CAS #: 142-82-5 | | |
| 16.413 | 16.413 (0.976) | 57 | 558664 | 9.88359 | 9.884 | 80.00- 120.00 | 100.00 |
| 16.413 | 16.413 (0.976) | 100 | 214350 | | | 11.16- 71.16 | 38.37 |

| RT | EXP RT (REL RT) | MASS | RESPONSE | CONCENTRATIONS ON-COL ( PPBV) | FINAL ( PPBV) | TARGET RANGE | RATIO |
|---|---|---|---|---|---|---|---|
| 64 Heptane (continued) | | | | | | | |
| 16.413 | 16.413 (0.976) | 43 | 1078192 | | | 158.27- 218.27 | 192.99 |
| 67 Trichloroethene | | | | | CAS #: 79-01-6 | | |
| 17.237 | 17.237 (1.024) | 130 | 675300 | 9.32484 | 9.325 | 80.00- 120.00 | 100.00 |
| 17.237 | 17.237 (1.024) | 95 | 699546 | | | 75.28- 135.28 | 103.59 |
| 17.237 | 17.237 (1.024) | 97 | 447143 | | | 37.01- 97.01 | 66.21 |
| 69 Methylcyclohexane | | | | | CAS #: 108-87-2 | | |
| 17.484 | 17.484 (1.039) | 83 | 953838 | 9.48980 | 9.490 | 80.00- 120.00 | 100.00 |
| 17.484 | 17.484 (1.039) | 98 | 453596 | | | 17.59- 77.59 | 47.55 |
| 17.484 | 17.484 (1.039) | 55 | 884960 | | | 57.89- 117.89 | 92.78 |
| 72 1,2-Dichloropropane | | | | | CAS #: 78-87-5 | | |
| 17.704 | 17.704 (1.052) | 63 | 636210 | 9.44396 | 9.444 | 80.00- 120.00 | 100.00 |
| 17.704 | 17.704 (1.052) | 62 | 472302 | | | 43.22- 103.22 | 74.24 |
| 17.704 | 17.704 (1.052) | 41 | 384836 | | | 32.03- 92.03 | 60.49 |
| 74 1,4-Dioxane | | | | | CAS #: 123-91-1 | | |
| 17.841 | 17.868 (1.060) | 88 | 379190 | 9.43900 | 9.439 | 80.00- 120.00 | 100.00 |
| 17.841 | 17.868 (1.060) | 58 | 290258 | | | 46.02- 106.02 | 76.55 |
| 17.841 | 17.868 (1.060) | 57 | 91708 | | | 0.00- 53.54 | 24.19 |
| 76 Bromodichloromethane | | | | | CAS #: 75-27-4 | | |
| 18.143 | 18.143 (1.078) | 83 | 1086962 | 9.36647 | 9.366 | 80.00- 120.00 | 100.00 |
| 18.143 | 18.143 (1.078) | 85 | 696396 | | | 33.96- 93.96 | 64.07 |
| 77 cis-1,3-Dichloropropene | | | | | CAS #: 10061-01-5 | | |
| 18.986 | 18.986 (1.128) | 75 | 846475 | 9.19332 | 9.193 | 80.00- 120.00 | 100.00 |
| 18.986 | 18.986 (1.128) | 77 | 268417 | | | 1.99- 61.99 | 31.71 |
| 18.986 | 18.986 (1.128) | 39 | 473748 | | | 26.13- 86.13 | 55.97 |
| 78 4-Methyl-2-pentanone | | | | | CAS #: 108-10-1 | | |
| 19.165 | 19.165 (1.139) | 43 | 1364175 | 9.79431 | 9.794 | 80.00- 120.00 | 100.00 |
| 19.165 | 19.165 (1.139) | 58 | 519835 | | | 10.31- 70.31 | 38.11 |
| 19.165 | 19.165 (1.139) | 85 | 202009 | | | 0.00- 46.66 | 14.81 |
| 81 Toluene | | | | | CAS #: 108-88-3 | | |
| 19.524 | 19.524 (1.160) | 91 | 1768733 | 9.11895 | 9.119 | 80.00- 120.00 | 100.00 |
| 19.524 | 19.524 (1.160) | 92 | 1054541 | | | 30.18- 90.18 | 59.62 |
| 82 trans-1,3-Dichloropropene | | | | | CAS #: 10061-02-6 | | |
| 19.910 | 19.910 (0.921) | 75 | 869633 | 9.24064 | 9.241 | 80.00- 120.00 | 100.00 |
| 19.910 | 19.910 (0.921) | 77 | 274939 | | | 1.51- 61.51 | 31.62 |
| 19.910 | 19.910 (0.921) | 39 | 463851 | | | 23.58- 83.58 | 53.34 |

| RT | EXP RT (REL RT) | MASS | RESPONSE | CONCENTRATIONS ON-COL ( PPBV) | FINAL ( PPBV) | TARGET RANGE | RATIO |
|---|---|---|---|---|---|---|---|
| 83 1,1,2-Trichloroethane | | | | | CAS #: 79-00-5 | | |
| 20.235 | 20.235 (0.936) | 97 | 654905 | 8.74405 | 8.744 | 80.00- 120.00 | 100.00 |
| 20.235 | 20.235 (0.936) | 99 | 412867 | | | 32.01- 92.01 | 63.04 |
| 20.203 | 20.235 (0.935) | 83 | 564828 | | | 56.20- 116.20 | 86.25 |
| 84 Tetrachloroethene | | | | | CAS #: 127-18-4 | | |
| 20.365 | 20.365 (0.942) | 166 | 783940 | 9.08000 | 9.080 | 80.00- 120.00 | 100.00 |
| 20.333 | 20.365 (0.941) | 129 | 604863 | | | 48.84- 108.84 | 77.16 |
| 20.365 | 20.365 (0.942) | 131 | 581338 | | | 46.09- 106.09 | 74.16 |
| 85 2-Hexanone | | | | | CAS #: 591-78-6 | | |
| 20.495 | 20.495 (0.948) | 58 | 732509 | 9.75860 | 9.758 | 80.00- 120.00 | 100.00 |
| 20.495 | 20.495 (0.948) | 43 | 1379166 | | | 132.91- 192.91 | 188.28 |
| 20.495 | 20.495 (0.948) | 100 | 139653 | | | 0.00- 49.97 | 19.07 |
| 86 Dibromochloromethane | | | | | CAS #: 124-48-1 | | |
| 20.788 | 20.788 (0.962) | 129 | 1001392 | 9.06536 | 9.065 | 80.00- 120.00 | 100.00 |
| 20.788 | 20.788 (0.962) | 127 | 783058 | | | 48.12- 108.12 | 78.20 |
| 87 1,2-Dibromoethane | | | | | CAS #: 106-93-4 | | |
| 21.016 | 21.048 (0.972) | 107 | 971117 | 9.09826 | 9.098 | 80.00- 120.00 | 100.00 |
| 21.016 | 21.048 (0.972) | 109 | 906653 | | | 64.41- 124.41 | 93.36 |
| 89 Chlorobenzene | | | | | CAS #: 108-90-7 | | |
| 21.638 | 21.638 (1.001) | 112 | 1394190 | 9.17434 | 9.174 | 80.00- 120.00 | 100.00 |
| 21.638 | 21.638 (1.001) | 114 | 445455 | | | 2.00- 62.00 | 31.95 |
| 21.638 | 21.638 (1.001) | 77 | 887375 | | | 33.87- 93.87 | 63.65 |
| 91 Ethyl Benzene | | | | | CAS #: 100-41-4 | | |
| 21.711 | 21.711 (1.004) | 106 | 702859 | 9.01467 | 9.015 | 80.00- 120.00 | 100.00 |
| 21.711 | 21.711 (1.004) | 91 | 2251211 | | | 291.22- 351.22 | 320.29 |
| 93 m,p-Xylene | | | | | CAS #: 108-38-3 | | |
| 21.855 | 21.855 (1.011) | 106 | 774408 | 9.08340 | 9.083 | 80.00- 120.00 | 100.00 |
| 21.855 | 21.855 (1.011) | 91 | 1586022 | | | 173.15- 233.15 | 204.80 |
| 94 o-Xylene | | | | | CAS #: 95-47-6 | | |
| 22.385 | 22.385 (1.036) | 106 | 762025 | 9.28999 | 9.290 | 80.00- 120.00 | 100.00 |
| 22.385 | 22.385 (1.036) | 91 | 1632942 | | | 185.20- 245.20 | 214.29 |
| 95 Styrene | | | | | CAS #: 100-42-5 | | |
| 22.409 | 22.409 (1.037) | 104 | 1168585 | 8.76512 | 8.765 | 80.00- 120.00 | 100.00 |
| 22.409 | 22.409 (1.037) | 78 | 609758 | | | 21.95- 81.95 | 52.18 |
| 97 Bromoform | | | | | CAS #: 75-25-2 | | |
| 22.707 | 22.707 (1.051) | 173 | 903060 | 9.59116 | 9.591 | 80.00- 120.00 | 100.00 |

| RT | EXP RT (REL RT) | MASS | RESPONSE | CONCENTRATIONS ON-COL ( PPBV) | FINAL ( PPBV) | TARGET RANGE | RATIO |
|---|---|---|---|---|---|---|---|
| 97 Bromoform (continued) | | | | | | | |
| 22.707 | 22.707 (1.051) | 171 | 465415 | | | 22.12- 82.12 | 51.54 |
| 98 Cumene | | | | | CAS #: 98-82-8 | | |
| 22.810 | 22.810 (1.055) | 105 | 2249515 | 9.13520 | 9.135 | 80.00- 120.00 | 100.00 |
| 22.810 | 22.810 (1.055) | 120 | 588877 | | | 0.00- 56.13 | 26.18 |
| 103 1,1,2,2-Tetrachloroethane | | | | | CAS #: 79-34-5 | | |
| 23.197 | 23.197 (1.073) | 83 | 1360803 | 9.57329 | 9.573 | 80.00- 120.00 | 100.00 |
| 23.197 | 23.197 (1.073) | 85 | 874404 | | | 34.44- 94.44 | 64.26 |
| 104 Propylbenzene | | | | | CAS #: 103-65-1 | | |
| 23.274 | 23.274 (1.077) | 91 | 2372885 | 9.31259 | 9.312 | 80.00- 120.00 | 100.00 |
| 23.274 | 23.274 (1.077) | 120 | 518633 | | | 0.00- 52.40 | 21.86 |
| 107 4-Ethyltoluene | | | | | CAS #: 622-96-8 | | |
| 23.403 | 23.403 (1.083) | 105 | 1851127 | 7.96018 | 7.960 | 80.00- 120.00 | 100.00 |
| 23.403 | 23.403 (1.083) | 120 | 536352 | | | 0.31- 60.31 | 28.97 |
| 109 1,3,5-Trimethylbenzene | | | | | CAS #: 108-67-8 | | |
| 23.455 | 23.455 (1.085) | 105 | 1685954 | 9.17744 | 9.177 | 80.00- 120.00 | 100.00 |
| 23.455 | 23.455 (1.085) | 120 | 798225 | | | 18.26- 78.26 | 47.35 |
| 112 1,2,4-Trimethylbenzene | | | | | CAS #: 95-63-6 | | |
| 23.893 | 23.893 (1.105) | 105 | 1464272 | 8.54017 | 8.540 | 80.00- 120.00 | 100.00 |
| 23.893 | 23.893 (1.105) | 120 | 664253 | | | 15.25- 75.25 | 45.36 |
| 115 1,3-Dichlorobenzene | | | | | CAS #: 541-73-1 | | |
| 24.254 | 24.254 (1.122) | 146 | 1002015 | 8.31381 | 8.314 | 80.00- 120.00 | 100.00 |
| 24.254 | 24.254 (1.122) | 148 | 636821 | | | 33.56- 93.56 | 63.55 |
| 24.254 | 24.254 (1.122) | 111 | 438745 | | | 14.68- 74.68 | 43.79 |
| 117 1,4-Dichlorobenzene | | | | | CAS #: 106-46-7 | | |
| 24.358 | 24.358 (1.127) | 146 | 934751 | 8.63763 | 8.638 | 80.00- 120.00 | 100.00 |
| 24.358 | 24.358 (1.127) | 148 | 584664 | | | 33.39- 93.39 | 62.55 |
| 24.358 | 24.358 (1.127) | 111 | 394648 | | | 12.70- 72.70 | 42.22 |
| 118 alpha-chlorotoluene | | | | | CAS #: 100-44-7 | | |
| 24.512 | 24.512 (1.134) | 91 | 1507972 | 9.05457 | 9.054 | 80.00- 120.00 | 100.00 |
| 24.512 | 24.512 (1.134) | 126 | 295646 | | | 0.00- 49.37 | 19.61 |
| 121 1,2-Dichlorobenzene | | | | | CAS #: 95-50-1 | | |
| 24.796 | 24.796 (1.147) | 146 | 901648 | 8.50406 | 8.504 | 80.00- 120.00 | 100.00 |
| 24.796 | 24.796 (1.147) | 148 | 573320 | | | 32.66- 92.66 | 63.59 |
| 24.796 | 24.796 (1.147) | 111 | 412740 | | | 15.11- 75.11 | 45.78 |

| RT | EXP RT (REL RT) | MASS | RESPONSE | CONCENTRATIONS ON-COL ( PPBV) | FINAL ( PPBV) | TARGET RANGE | RATIO |
|---|---|---|---|---|---|---|---|
| 126 1,2,4-Trichlorobenzene | | | | | CAS #: 120-82-1 | | |
| 26.524 | 26.524 (1.227) | 180 | 739770 | 12.1286 | 12.128 | 80.00- 120.00 | 100.00 |
| 26.524 | 26.524 (1.227) | 182 | 703618 | | | 62.96- 122.96 | 95.11 |
| 128 Hexachlorobutadiene | | | | | CAS #: 87-68-3 | | |
| 26.627 | 26.627 (1.232) | 225 | 568401 | 12.4966 | 12.496 | 80.00- 120.00 | 100.00 |
| 26.627 | 26.627 (1.232) | 223 | 361051 | | | 34.16- 94.16 | 63.52 |
| 129 Naphthalene | | | | | CAS #: 91-20-3 | | |
| 26.885 | 26.885 (1.244) | 128 | 1810577 | 14.2226 | 14.223 | 80.00- 120.00 | 100.00(R) |
| 26.885 | 26.885 (1.244) | 127 | 226214 | | | 0.00- 42.68 | 12.49 |

QC Flag Legend

R - Spike/Surrogate failed recovery limits.

Air Toxics Ltd.

AMBIENT AIR METHOD TO14/TO15

Data file : /chem/msda.i/31Aug2011.b/a083104.d
Lab Smp Id: LCS Client Smp ID: LCSD
Inj Date : 31-AUG-2011 09:32
Operator : dfm Inst ID: msda.i
Smp Info : 50mL #2296-133
Misc Info : 10ppbv (50ppbv)
Comment :
Method : /chem/msda.i/31Aug2011.b/a11l0818b.m
Meth Date : 13-Sep-2011 12:21 ejakob Quant Type: ISTD
Cal Date : 19-AUG-2011 14:38 Cal File: a081907.d
Als bottle: 17 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AT09.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

- NO TENTATIVELY IDENTIFIED COMPOUNDS -

Report Date: 13-Sep-2011 14:25

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msda.i
Lab File ID: a083104.d
Lab Smp Id: LCS
Analysis Type: VOA
Quant Type: ISTD
Operator: dfm
Method File: /chem/msda.i/31Aug2011.b/a11l0818b.m
Misc Info: 10ppbv (50ppbv)

Calibration Date: 31-AUG-2011
Calibration Time: 08:01
Client Smp ID: LCSD
Level: LOW
Sample Type: AIR

| | | AREA LIMIT | | | |
|---|---|---|---|---|---|
| COMPOUND | STANDARD | LOWER | UPPER | SAMPLE | %DIFF |
| 52 Bromochloromethan | 206450 | 123870 | 289030 | 204663 | -0.87 |
| 66 1,4-Difluorobenze | 897592 | 538555 | 1256629 | 913120 | 1.73 |
| 88 Chlorobenzene-d5 | 792197 | 475318 | 1109076 | 799461 | 0.92 |

| | | RT LIMIT | | | |
|---|---|---|---|---|---|
| COMPOUND | STANDARD | LOWER | UPPER | SAMPLE | %DIFF |
| 52 Bromochloromethan | 15.41 | 15.08 | 15.74 | 15.41 | 0.00 |
| 66 1,4-Difluorobenze | 16.82 | 16.50 | 17.15 | 16.83 | 0.00 |
| 88 Chlorobenzene-d5 | 21.61 | 21.28 | 21.94 | 21.61 | 0.00 |

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Y¿

Data File: /chem/msda.i/31Aug2011.b/a083104.d



Date : 31-AUG-2011 09:32

Client ID: LCSD

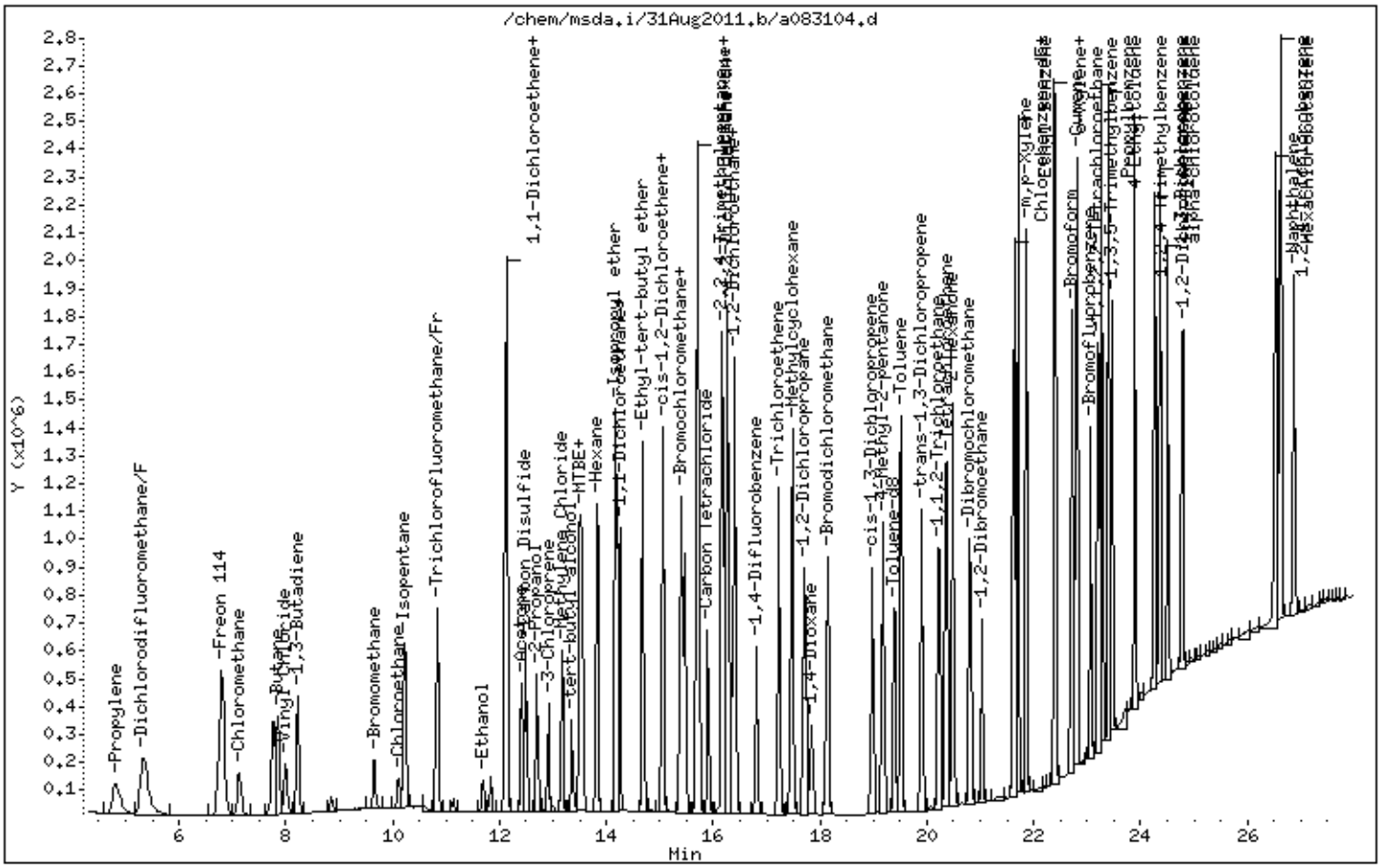
Instrument: msda.i

Sample Info: 50mL #2296-133

Operator: dfm

Column phase: RTx-624

Column diameter: 0.32



Air Toxics LTD.
Laboratory Services Since 1989

**Client Sample ID: LCS**

**Lab ID#: 1108582-11B**

**MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN**

| | | | |
|---|---|---|---|
| **File Name:** | **a090103** | **Date of Collection: NA** | |
| **Dil. Factor:** | **1.00** | **Date of Analysis: 9/1/11 09:19 AM** | |

| Compound | %Recovery |
|---|---|
| Freon 12 | 92 |
| Freon 114 | 88 |
| Chloromethane | 98 |
| Vinyl Chloride | 94 |
| 1,3-Butadiene | 92 |
| Bromomethane | 84 |
| Chloroethane | 87 |
| Freon 11 | 107 |
| Ethanol | 270 Q |
| Freon 113 | 98 |
| 1,1-Dichloroethene | 95 |
| Acetone | 96 |
| 2-Propanol | 89 |
| Carbon Disulfide | 112 |
| 3-Chloropropene | 130 |
| Methylene Chloride | 82 |
| Methyl tert-butyl ether | 88 |
| trans-1,2-Dichloroethene | 96 |
| Hexane | 88 |
| 1,1-Dichloroethane | 95 |
| 2-Butanone (Methyl Ethyl Ketone) | 85 |
| cis-1,2-Dichloroethene | 86 |
| Tetrahydrofuran | 98 |
| Chloroform | 87 |
| 1,1,1-Trichloroethane | 85 |
| Cyclohexane | 85 |
| Carbon Tetrachloride | 67 Q |
| 2,2,4-Trimethylpentane | 101 |
| Benzene | 92 |
| 1,2-Dichloroethane | 93 |
| Heptane | 98 |
| Trichloroethene | 92 |
| 1,2-Dichloropropane | 93 |
| 1,4-Dioxane | 90 |
| Bromodichloromethane | 91 |
| cis-1,3-Dichloropropene | 89 |
| 4-Methyl-2-pentanone | 96 |
| Toluene | 90 |
| trans-1,3-Dichloropropene | 88 |
| 1,1,2-Trichloroethane | 84 |
| Tetrachloroethene | 87 |

Air Toxics LTD.
Laboratory Services Since 1989

**Client Sample ID: LCS**

**Lab ID#: 1108582-11B**

**MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN**

| | | | |
|---|---|---|---|
| **File Name:** | **a090103** | **Date of Collection: NA** | |
| **Dil. Factor:** | **1.00** | **Date of Analysis: 9/1/11 09:19 AM** | |

| Compound | %Recovery |
|---|---|
| 2-Hexanone | 94 |
| Dibromochloromethane | 88 |
| 1,2-Dibromoethane (EDB) | 88 |
| Chlorobenzene | 89 |
| Ethyl Benzene | 87 |
| m,p-Xylene | 89 |
| o-Xylene | 91 |
| Styrene | 84 |
| Bromoform | 93 |
| Cumene | 89 |
| 1,1,2,2-Tetrachloroethane | 92 |
| Propylbenzene | 89 |
| 4-Ethyltoluene | 76 |
| 1,3,5-Trimethylbenzene | 86 |
| 1,2,4-Trimethylbenzene | 81 |
| 1,3-Dichlorobenzene | 80 |
| 1,4-Dichlorobenzene | 83 |
| alpha-Chlorotoluene | 85 |
| 1,2-Dichlorobenzene | 81 |
| 1,2,4-Trichlorobenzene | 114 |
| Hexachlorobutadiene | 116 |
| 2,3-Dimethylpentane | Not Spiked |
| 2-Methylpentane | Not Spiked |
| Indene | Not Spiked |
| Indan | Not Spiked |
| Isopentane | 86 |
| Naphthalene | 132 |
| Thiophene | Not Spiked |

Q = Exceeds Quality Control limits.

**Container Type: NA - Not Applicable**

| Surrogates | %Recovery | Method Limits |
|---|---|---|
| 1,2-Dichloroethane-d4 | 99 | 70-130 |
| Toluene-d8 | 102 | 70-130 |
| 4-Bromofluorobenzene | 101 | 70-130 |

Report Date: 07-Sep-2011 14:20

Air Toxics Ltd.

RECOVERY REPORT

Client Name: Client SDG: 01Sep2011
Sample Matrix: GAS Fraction: VOA
Lab Smp Id: LCS Client Smp ID: LCS
Level: LOW Operator: dfm
Data Type: MS DATA SampleType: LCS
SpikeList File: AT09.spk Quant Type: ISTD
Sublist File: AT09.sub
Method File: /chem/msda.i/01Sep2011.b/a11l0818b.m
Misc Info: 10ppbv (50ppbv)

| SPIKE COMPOUND | CONC ADDED PPBV | CONC RECOVERED PPBV | % RECOVERED | LIMITS |
|---|---|---|---|---|
| 4 Dichlorodifluorome | 10.000 | 9.154 | 91.55 | 70-130 |
| 2 Propylene | 10.000 | 9.383 | 93.83 | 60-140 |
| 6 Freon 114 | 10.000 | 8.802 | 88.02 | 70-130 |
| 7 Chloromethane | 10.000 | 9.806 | 98.07 | 70-130 |
| 10 Vinyl Chloride | 10.000 | 9.357 | 93.57 | 70-130 |
| 11 1,3-Butadiene | 10.000 | 9.150 | 91.50 | 60-140 |
| 12 Bromomethane | 10.000 | 8.390 | 83.90 | 70-130 |
| 13 Chloroethane | 10.000 | 8.680 | 86.80 | 70-130 |
| 16 Trichlorofluoromet | 10.000 | 10.700 | 107.00 | 70-130 |
| 20 Ethanol | 10.000 | 27.010 | 270.10* | 60-140 |
| 22 Freon 113 | 10.000 | 9.801 | 98.01 | 70-130 |
| 23 1,1-Dichloroethene | 10.000 | 9.543 | 95.43 | 70-130 |
| 24 Acetone | 10.000 | 9.636 | 96.36 | 60-140 |
| 26 Carbon Disulfide | 10.000 | 11.234 | 112.34 | 60-140 |
| 27 2-Propanol | 10.000 | 8.901 | 89.01 | 60-140 |
| 28 3-Chloroprene | 10.000 | 12.998 | 129.98 | 60-140 |
| 33 Methylene Chloride | 10.000 | 8.223 | 82.23 | 70-130 |
| 35 MTBE | 10.000 | 8.754 | 87.55 | 60-140 |
| 36 trans-1,2-Dichloro | 10.000 | 9.601 | 96.01 | 60-140 |
| 40 Hexane | 10.000 | 8.807 | 88.07 | 60-140 |
| 42 1,1-Dichloroethane | 10.000 | 9.537 | 95.37 | 70-130 |
| 44 Vinyl Acetate | 10.000 | 8.243 | 82.43 | 60-140 |
| 47 cis-1,2-Dichloroet | 10.000 | 8.608 | 86.09 | 70-130 |
| 48 2-Butanone | 10.000 | 8.503 | 85.03 | 60-140 |
| 51 Tetrahydrofuran | 10.000 | 9.826 | 98.26 | 60-140 |
| 53 Chloroform | 10.000 | 8.685 | 86.85 | 70-130 |
| 55 Cyclohexane | 10.000 | 8.541 | 85.41 | 60-140 |
| 56 1,1,1-Trichloroeth | 10.000 | 8.542 | 85.42 | 70-130 |
| 57 Carbon Tetrachlori | 10.000 | 6.745 | 67.45* | 70-130 |
| 59 2,2,4-Trimethylpen | 10.000 | 10.078 | 100.78 | 60-140 |
| 60 Benzene | 10.000 | 9.166 | 91.67 | 70-130 |
| 64 Heptane | 10.000 | 9.788 | 97.88 | 60-140 |
| 63 1,2-Dichloroethane | 10.000 | 9.321 | 93.21 | 70-130 |

| SPIKE COMPOUND | CONC ADDED PPBV | CONC RECOVERED PPBV | % RECOVERED | LIMITS |
|---|---|---|---|---|
| 67 Trichloroethene | 10.000 | 9.165 | 91.65 | 70-130 |
| 72 1,2-Dichloropropan | 10.000 | 9.320 | 93.20 | 70-130 |
| 74 1,4-Dioxane | 10.000 | 9.013 | 90.13 | 60-140 |
| 76 Bromodichlorometha | 10.000 | 9.122 | 91.22 | 60-140 |
| 77 cis-1,3-Dichloropr | 10.000 | 8.921 | 89.21 | 70-130 |
| 78 4-Methyl-2-pentano | 10.000 | 9.576 | 95.76 | 60-140 |
| 81 Toluene | 10.000 | 8.952 | 89.52 | 70-130 |
| 82 trans-1,3-Dichloro | 10.000 | 8.857 | 88.57 | 70-130 |
| 83 1,1,2-Trichloroeth | 10.000 | 8.403 | 84.03 | 70-130 |
| 85 2-Hexanone | 10.000 | 9.438 | 94.38 | 60-140 |
| 84 Tetrachloroethene | 10.000 | 8.724 | 87.24 | 70-130 |
| 86 Dibromochlorometha | 10.000 | 8.756 | 87.56 | 60-140 |
| 87 1,2-Dibromoethane | 10.000 | 8.793 | 87.93 | 70-130 |
| 89 Chlorobenzene | 10.000 | 8.898 | 88.98 | 70-130 |
| 91 Ethyl Benzene | 10.000 | 8.702 | 87.02 | 70-130 |
| 93 m,p-Xylene | 10.000 | 8.869 | 88.69 | 70-130 |
| 94 o-Xylene | 10.000 | 9.062 | 90.62 | 70-130 |
| 95 Styrene | 10.000 | 8.391 | 83.91 | 70-130 |
| 97 Bromoform | 10.000 | 9.323 | 93.23 | 60-140 |
| 98 Cumene | 10.000 | 8.860 | 88.60 | 60-140 |
| 103 1,1,2,2-Tetrachlor | 10.000 | 9.240 | 92.40 | 70-130 |
| 104 Propylbenzene | 10.000 | 8.931 | 89.31 | 70-130 |
| 107 4-Ethyltoluene | 10.000 | 7.620 | 76.20 | 60-140 |
| 109 1,3,5-Trimethylben | 10.000 | 8.590 | 85.90 | 70-130 |
| 112 1,2,4-Trimethylben | 10.000 | 8.105 | 81.05 | 70-130 |
| 115 1,3-Dichlorobenzen | 10.000 | 8.043 | 80.43 | 70-130 |
| 117 1,4-Dichlorobenzen | 10.000 | 8.268 | 82.68 | 70-130 |
| 118 alpha-chlorotoluen | 10.000 | 8.522 | 85.22 | 70-130 |
| 121 1,2-Dichlorobenzen | 10.000 | 8.106 | 81.06 | 70-130 |
| 126 1,2,4-Trichloroben | 10.000 | 11.388 | 113.89 | 70-130 |
| 128 Hexachlorobutadien | 10.000 | 11.642 | 116.42 | 70-130 |
| 129 Naphthalene | 10.000 | 13.165 | 131.65 | 60-140 |
| 14 Isopentane | 10.000 | 8.645 | 86.45 | 60-140 |
| 9 Butane | 10.000 | 9.132 | 91.32 | 60-140 |
| 69 Methylcyclohexane | 10.000 | 9.330 | 93.30 | 60-140 |
| 34 tert-butyl alcohol | 10.000 | 5.958 | 59.58* | 60-140 |
| 41 Isopropyl ether | 10.000 | 8.998 | 89.98 | 60-140 |
| 46 Ethyl-tert-butyl e | 10.000 | 7.999 | 79.99 | 60-140 |
| 62 tert-amyl methyl e | 10.000 | 7.170 | 71.70 | 60-140 |

| SURROGATE COMPOUND | CONC ADDED PPBV | CONC RECOVERED PPBV | % RECOVERED | LIMITS |
|---|---|---|---|---|
| $ 61 1,2-Dichloroethane | 10.000 | 9.943 | 99.43 | 70-130 |

| SURROGATE COMPOUND | CONC ADDED PPBV | CONC RECOVERED PPBV | % RECOVERED | LIMITS |
|---|---|---|---|---|
| $ 80 Toluene-d8 | 10.000 | 10.197 | 101.97 | 70-130 |
| $ 100 Bromofluorobenzene | 10.000 | 10.135 | 101.35 | 70-130 |

Air Toxics Ltd.

AMBIENT AIR METHOD TO14/TO15

Data file : /chem/msda.i/01Sep2011.b/a090103.d
Lab Smp Id: LCS Client Smp ID: LCS
Inj Date : 01-SEP-2011 09:19
Operator : dfm Inst ID: msda.i
Smp Info : 50mL #2296-133
Misc Info : 10ppbv (50ppbv)
Comment :
Method : /chem/msda.i/01Sep2011.b/a11l0818b.m
Meth Date : 07-Sep-2011 14:20 ejakob Quant Type: ISTD
Cal Date : 31-AUG-2011 12:17 Cal File: a083107.d
Als bottle: 16 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AT09.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

| | | | | CONCENTRATIONS ON-COL | FINAL | | |
|---|---|---|---|---|---|---|---|
| RT | EXP RT (REL RT) | MASS | RESPONSE | ( PPBV) | ( PPBV) | TARGET RANGE | RATIO |
| * 52 Bromochloromethane | | | | | | CAS #: 74-97-5 | |
| 15.406 | 15.406 (1.000) | 130 | 196821 | 10.0000 | | 80.00- 120.00 | 100.00 |
| 15.406 | 15.406 (1.000) | 128 | 152411 | | | 0.00- 30.00 | 77.44 |
| 15.406 | 15.406 (1.000) | 49 | 444308 | | | 0.00- 30.00 | 225.74 |
| * 66 1,4-Difluorobenzene | | | | | | CAS #: 540-36-3 | |
| 16.825 | 16.825 (1.000) | 114 | 887512 | 10.0000 | | 80.00- 120.00 | 100.00 |
| 16.797 | 16.798 (1.000) | 88 | 151473 | | | 0.00- 30.00 | 17.07 |
| * 88 Chlorobenzene-d5 | | | | | | CAS #: 3114-55-4 | |
| 21.614 | 21.614 (1.000) | 117 | 786303 | 10.0000 | | 80.00- 120.00 | 100.00 |
| 21.590 | 21.590 (1.000) | 82 | 465584 | | | 0.00- 30.00 | 59.21 |
| $ 61 1,2-Dichloroethane-d4 | | | | | | CAS #: 17060-07-0 | |
| 16.248 | 16.249 (1.055) | 65 | 352149 | 9.94278 | 9.943 | 80.00- 120.00 | 100.00 |
| 16.248 | 16.249 (1.055) | 67 | 256568 | | | 21.17- 81.17 | 72.86 |
| $ 80 Toluene-d8 | | | | | | CAS #: 2037-26-5 | |
| 19.389 | 19.389 (1.152) | 98 | 879805 | 10.1973 | 10.197 | 80.00- 120.00 | 100.00 |
| 19.389 | 19.389 (1.152) | 70 | 107144 | | | 0.00- 41.96 | 12.18 |

| RT | EXP RT (REL RT) | MASS | RESPONSE | CONCENTRATIONS ON-COL ( PPBV) | CONCENTRATIONS FINAL ( PPBV) | TARGET RANGE | RATIO |
|---|---|---|---|---|---|---|---|
| $ 80 Toluene-d8 (continued) | | | | | | | |
| 19.389 | 19.389 (1.152) | 100 | 591440 | | | 36.89- 96.89 | 67.22 |
| $ 100 Bromofluorobenzene | | | | | CAS #: 460-00-4 | | |
| 23.068 | 23.068 (1.067) | 174 | 415090 | 10.1355 | 10.135 | 80.00- 120.00 | 100.00 |
| 23.068 | 23.068 (1.067) | 95 | 595312 | | | 114.38- 174.38 | 143.42 |
| 23.068 | 23.068 (1.067) | 176 | 397359 | | | 66.49- 126.49 | 95.73 |
| 2 Propylene | | | | | CAS #: 115-07-1 | | |
| 4.818 | 5.011 (0.313) | 41 | 395574 | 9.38263 | 9.383 | 80.00- 120.00 | 100.00 |
| 4.818 | 5.011 (0.313) | 42 | 243501 | | | 36.86- 96.86 | 61.56 |
| 4.818 | 5.011 (0.313) | 39 | 263553 | | | 41.49- 101.49 | 66.63 |
| 4 Dichlorodifluoromethane/Fr12 | | | | | CAS #: 75-71-8 | | |
| 5.324 | 5.493 (0.346) | 85 | 1183771 | 9.15455 | 9.154 | 80.00- 120.00 | 100.00 |
| 5.324 | 5.493 (0.346) | 87 | 381837 | | | 2.38- 62.38 | 32.26 |
| 6 Freon 114 | | | | | CAS #: 76-14-2 | | |
| 6.794 | 6.891 (0.441) | 135 | 720312 | 8.80152 | 8.802 | 80.00- 120.00 | 100.00 |
| 6.794 | 6.915 (0.441) | 137 | 229058 | | | 1.34- 61.34 | 31.80 |
| 6.794 | 6.891 (0.441) | 85 | 1073544 | | | 133.27- 193.27 | 149.04 |
| 7 Chloromethane | | | | | CAS #: 74-87-3 | | |
| 7.132 | 7.228 (0.463) | 50 | 466022 | 9.80655 | 9.806 | 80.00- 120.00 | 100.00 |
| 7.132 | 7.228 (0.463) | 52 | 153570 | | | 2.29- 62.29 | 32.95 |
| 9 Butane | | | | | CAS #: 106-97-8 | | |
| 7.850 | 7.920 (0.510) | 58 | 108656 | 9.13237 | 9.132 | 80.00- 120.00 | 100.00 |
| 7.850 | 7.920 (0.510) | 43 | 773486 | | | 641.41- 701.41 | 711.87 |
| 10 Vinyl Chloride | | | | | CAS #: 75-01-4 | | |
| 7.989 | 8.059 (0.519) | 62 | 501854 | 9.35669 | 9.357 | 80.00- 120.00 | 100.00 |
| 7.989 | 8.059 (0.519) | 64 | 153974 | | | 0.83- 60.83 | 30.68 |
| 11 1,3-Butadiene | | | | | CAS #: 106-99-0 | | |
| 8.215 | 8.284 (0.533) | 54 | 384669 | 9.14963 | 9.150 | 80.00- 120.00 | 100.00 |
| 8.215 | 8.284 (0.533) | 39 | 372515 | | | 64.36- 124.36 | 96.84 |
| 12 Bromomethane | | | | | CAS #: 74-83-9 | | |
| 9.659 | 9.680 (0.627) | 94 | 209504 | 8.39032 | 8.390 | 80.00- 120.00 | 100.00 |
| 9.659 | 9.680 (0.627) | 96 | 195283 | | | 61.02- 121.02 | 93.21 |
| 13 Chloroethane | | | | | CAS #: 75-00-3 | | |
| 10.115 | 10.136 (0.657) | 64 | 164340 | 8.67997 | 8.680 | 80.00- 120.00 | 100.00 |
| 10.115 | 10.136 (0.657) | 66 | 52276 | | | 2.32- 62.32 | 31.81 |

| RT | EXP RT (REL RT) | MASS | RESPONSE | CONCENTRATIONS ON-COL ( PPBV) | CONCENTRATIONS FINAL ( PPBV) | TARGET RANGE | RATIO |
|---|---|---|---|---|---|---|---|
| 14 Isopentane | | | | | CAS #: 78-78-4 | | |
| 10.219 | 10.240 (0.663) | 57 | 338726 | 8.64493 | 8.645 | 80.00- 120.00 | 100.00 |
| 10.219 | 10.240 (0.663) | 43 | 482147 | | | 104.71- 164.71 | 142.34 |
| 10.219 | 10.240 (0.663) | 42 | 421398 | | | 89.04- 149.04 | 124.41 |
| 16 Trichlorofluoromethane/Fr11 | | | | | CAS #: 75-69-4 | | |
| 10.841 | 10.841 (0.704) | 101 | 1100574 | 10.7001 | 10.700 | 80.00- 120.00 | 100.00 |
| 10.841 | 10.841 (0.704) | 103 | 707968 | | | 34.35- 94.35 | 64.33 |
| 20 Ethanol | | | | | CAS #: 64-17-5 | | |
| 11.690 | 11.691 (0.759) | 45 | 192603 | 27.0102 | 27.010 | 80.00- 120.00 | 100.00(R) |
| 11.690 | 11.691 (0.759) | 43 | 41643 | | | 0.00- 57.08 | 21.62 |
| 11.690 | 11.691 (0.759) | 46 | 82369 | | | 10.87- 70.87 | 42.77 |
| 23 1,1-Dichloroethene | | | | | CAS #: 75-35-4 | | |
| 12.146 | 12.147 (0.788) | 98 | 272844 | 9.54273 | 9.543 | 80.00- 120.00 | 100.00 |
| 12.126 | 12.126 (0.787) | 61 | 797358 | | | 252.93- 312.93 | 292.24 |
| 12.146 | 12.147 (0.788) | 96 | 430647 | | | 129.43- 189.43 | 157.84 |
| 22 Freon 113 | | | | | CAS #: 76-13-1 | | |
| 12.126 | 12.126 (0.787) | 151 | 682061 | 9.80082 | 9.801 | 80.00- 120.00 | 100.00 |
| 12.126 | 12.126 (0.787) | 153 | 434755 | | | 33.32- 93.32 | 63.74 |
| 12.126 | 12.105 (0.787) | 101 | 967422 | | | 109.89- 169.89 | 141.84 |
| 24 Acetone | | | | | CAS #: 67-64-1 | | |
| 12.416 | 12.416 (0.806) | 58 | 246691 | 9.63612 | 9.636 | 80.00- 120.00 | 100.00 |
| 12.416 | 12.416 (0.806) | 43 | 789845 | | | 283.54- 343.54 | 320.18 |
| 26 Carbon Disulfide | | | | | CAS #: 75-15-0 | | |
| 12.499 | 12.499 (0.811) | 76 | 1180043 | 11.2336 | 11.234 | 80.00- 120.00 | 100.00 |
| 28 3-Chloroprene | | | | | CAS #: 107-05-1 | | |
| 12.913 | 12.913 (0.838) | 76 | 137765 | 12.9979 | 12.998 | 80.00- 120.00 | 100.00 |
| 12.913 | 12.913 (0.838) | 41 | 464567 | | | 273.34- 333.34 | 337.22 |
| 27 2-Propanol | | | | | CAS #: 67-63-0 | | |
| 12.706 | 12.706 (0.825) | 45 | 1052104 | 8.90127 | 8.901 | 80.00- 120.00 | 100.00 |
| 12.706 | 12.706 (0.825) | 43 | 221239 | | | 0.00- 49.76 | 21.03 |
| 12.706 | 12.706 (0.825) | 59 | 41937 | | | 0.00- 34.09 | 3.99 |
| 33 Methylene Chloride | | | | | CAS #: 75-09-2 | | |
| 13.160 | 13.160 (0.854) | 84 | 365429 | 8.22345 | 8.223 | 80.00- 120.00 | 100.00 |
| 13.160 | 13.160 (0.854) | 49 | 584362 | | | 112.00- 172.00 | 159.91 |
| 13.160 | 13.160 (0.854) | 51 | 175581 | | | 13.10- 73.10 | 48.05 |
| 34 tert-butyl alcohol | | | | | CAS #: 75-65-0 | | |
| 13.352 | 13.352 (0.867) | 59 | 467757 | 5.95793 | 5.958 | 80.00- 120.00 | 100.00(R) |

| RT | EXP RT (REL RT) | MASS | RESPONSE | CONCENTRATIONS ON-COL ( PPBV) | CONCENTRATIONS FINAL ( PPBV) | TARGET RANGE | RATIO |
|---|---|---|---|---|---|---|---|
| 34 tert-butyl alcohol (continued) | | | | | | | |
| 13.352 | 13.352 (0.867) | 41 | 131969 | | | 0.00- 48.20 | 28.21 |
| 13.352 | 13.352 (0.867) | 57 | 59042 | | | 0.00- 38.59 | 12.62 |
| 35 MTBE | | | | | CAS #: 1634-04-4 | | |
| 13.489 | 13.490 (0.876) | 73 | 1289838 | 8.75459 | 8.754 | 80.00- 120.00 | 100.00 |
| 13.489 | 13.490 (0.876) | 57 | 330695 | | | 0.00- 55.70 | 25.64 |
| 13.489 | 13.490 (0.876) | 41 | 328594 | | | 0.00- 55.35 | 25.48 |
| 36 trans-1,2-Dichloroethene | | | | | CAS #: 156-60-5 | | |
| 13.544 | 13.544 (0.879) | 98 | 313910 | 9.60119 | 9.601 | 80.00- 120.00 | 100.00 |
| 13.544 | 13.544 (0.879) | 61 | 791166 | | | 212.41- 272.41 | 252.04 |
| 13.544 | 13.544 (0.879) | 96 | 493155 | | | 128.28- 188.28 | 157.10 |
| 40 Hexane | | | | | CAS #: 110-54-3 | | |
| 13.819 | 13.819 (0.897) | 57 | 867512 | 8.80748 | 8.807 | 80.00- 120.00 | 100.00 |
| 13.819 | 13.819 (0.897) | 43 | 586246 | | | 33.38- 93.38 | 67.58 |
| 13.819 | 13.819 (0.897) | 86 | 138756 | | | 0.00- 46.43 | 15.99 |
| 41 Isopropyl ether | | | | | CAS #: 108-20-3 | | |
| 14.176 | 14.176 (0.920) | 45 | 1813776 | 8.99832 | 8.998 | 80.00- 120.00 | 100.00 |
| 14.176 | 14.176 (0.920) | 87 | 407507 | | | 0.00- 54.93 | 22.47 |
| 14.176 | 14.176 (0.920) | 59 | 201173 | | | 0.00- 41.38 | 11.09 |
| 42 1,1-Dichloroethane | | | | | CAS #: 75-34-3 | | |
| 14.231 | 14.231 (0.924) | 63 | 882787 | 9.53675 | 9.537 | 80.00- 120.00 | 100.00 |
| 14.231 | 14.231 (0.924) | 65 | 284261 | | | 2.24- 62.24 | 32.20 |
| 44 Vinyl Acetate | | | | | CAS #: 108-05-4 | | |
| 14.258 | 14.258 (0.926) | 86 | 87314 | 8.24261 | 8.243 | 80.00- 120.00 | 100.00 |
| 14.258 | 14.258 (0.926) | 42 | 86745 | | | 71.80- 131.80 | 99.35 |
| 14.258 | 14.258 (0.926) | 43 | 1022238 | | | 1179.88-1239.88 | 1170.76 |
| 46 Ethyl-tert-butyl ether | | | | | CAS #: 637-92-3 | | |
| 14.671 | 14.671 (0.952) | 59 | 1540786 | 7.99875 | 7.999 | 80.00- 120.00 | 100.00 |
| 14.671 | 14.671 (0.952) | 87 | 562881 | | | 8.46- 68.46 | 36.53 |
| 14.671 | 14.671 (0.952) | 41 | 295697 | | | 0.00- 47.65 | 19.19 |
| 47 cis-1,2-Dichloroethene | | | | | CAS #: 156-59-2 | | |
| 15.044 | 15.044 (0.977) | 98 | 313468 | 8.60850 | 8.608 | 80.00- 120.00 | 100.00 |
| 15.044 | 15.044 (0.977) | 61 | 715319 | | | 191.49- 251.49 | 228.20 |
| 15.044 | 15.044 (0.977) | 96 | 496059 | | | 127.91- 187.91 | 158.25 |
| 48 2-Butanone | | | | | CAS #: 78-93-3 | | |
| 15.065 | 15.065 (0.978) | 72 | 249454 | 8.50263 | 8.503 | 80.00- 120.00 | 100.00 |
| 15.065 | 15.065 (0.978) | 43 | 1150051 | | | 298.82- 358.82 | 461.03 |

| RT | EXP RT (REL RT) | MASS | RESPONSE | CONCENTRATIONS ON-COL ( PPBV) | CONCENTRATIONS FINAL ( PPBV) | TARGET RANGE | RATIO |
|---|---|---|---|---|---|---|---|
| 48 2-Butanone (continued) | | | | | | | |
| 15.065 | 15.065 (0.978) | 57 | 86317 | | | 0.00- 56.09 | 34.60 |
| 51 Tetrahydrofuran | | | | | CAS #: 109-99-9 | | |
| 15.406 | 15.406 (1.000) | 42 | 636659 | 9.82579 | 9.826 | 80.00- 120.00 | 100.00 |
| 15.406 | 15.406 (1.000) | 71 | 210138 | | | 6.88- 66.88 | 33.01 |
| 15.406 | 15.406 (1.000) | 72 | 232556 | | | 11.00- 71.00 | 36.53 |
| 53 Chloroform | | | | | CAS #: 67-66-3 | | |
| 15.467 | 15.467 (1.004) | 83 | 972067 | 8.68469 | 8.685 | 80.00- 120.00 | 100.00 |
| 15.467 | 15.467 (1.004) | 85 | 630653 | | | 34.45- 94.45 | 64.88 |
| 55 Cyclohexane | | | | | CAS #: 110-82-7 | | |
| 15.714 | 15.714 (1.020) | 84 | 701557 | 8.54079 | 8.541 | 80.00- 120.00 | 100.00 |
| 15.714 | 15.714 (1.020) | 56 | 957583 | | | 97.99- 157.99 | 136.49 |
| 15.714 | 15.714 (1.020) | 41 | 525110 | | | 37.94- 97.94 | 74.85 |
| 56 1,1,1-Trichloroethane | | | | | CAS #: 71-55-6 | | |
| 15.714 | 15.714 (1.020) | 97 | 1021460 | 8.54199 | 8.542 | 80.00- 120.00 | 100.00 |
| 15.714 | 15.714 (1.020) | 99 | 651632 | | | 34.37- 94.37 | 63.79 |
| 57 Carbon Tetrachloride | | | | | CAS #: 56-23-5 | | |
| 15.899 | 15.899 (1.032) | 119 | 604706 | 6.74521 | 6.745 | 80.00- 120.00 | 100.00(R) |
| 15.899 | 15.899 (1.032) | 117 | 625571 | | | 74.49- 134.49 | 103.45 |
| 59 2,2,4-Trimethylpentane | | | | | CAS #: 540-84-1 | | |
| 16.166 | 16.166 (1.049) | 56 | 1269751 | 10.0780 | 10.078 | 80.00- 120.00 | 100.00 |
| 16.166 | 16.166 (1.049) | 57 | 3675028 | | | 264.71- 324.71 | 289.43 |
| 16.166 | 16.166 (1.049) | 41 | 997068 | | | 74.97- 134.97 | 78.52 |
| 60 Benzene | | | | | CAS #: 71-43-2 | | |
| 16.248 | 16.249 (0.966) | 78 | 1511029 | 9.16659 | 9.166 | 80.00- 120.00 | 100.00 |
| 16.248 | 16.249 (0.966) | 77 | 347316 | | | 0.00- 53.14 | 22.99 |
| 62 tert-amyl methyl ether | | | | | CAS #: 994-05-8 | | |
| 16.276 | 16.276 (0.967) | 87 | 271289 | 7.16958 | 7.170 | 80.00- 120.00 | 100.00 |
| 16.276 | 16.276 (0.967) | 73 | 1153904 | | | 388.88- 448.88 | 425.34 |
| 16.276 | 16.276 (0.967) | 55 | 352431 | | | 85.24- 145.24 | 129.91 |
| 63 1,2-Dichloroethane | | | | | CAS #: 107-06-2 | | |
| 16.358 | 16.358 (0.972) | 62 | 726073 | 9.32076 | 9.321 | 80.00- 120.00 | 100.00 |
| 16.358 | 16.358 (0.972) | 64 | 229934 | | | 2.07- 62.07 | 31.67 |
| 64 Heptane | | | | | CAS #: 142-82-5 | | |
| 16.413 | 16.413 (0.976) | 57 | 537766 | 9.78839 | 9.788 | 80.00- 120.00 | 100.00 |
| 16.413 | 16.413 (0.976) | 100 | 203712 | | | 11.16- 71.16 | 37.88 |

| RT | EXP RT (REL RT) | MASS | RESPONSE | CONCENTRATIONS ON-COL ( PPBV) | FINAL ( PPBV) | TARGET RANGE | RATIO |
|---|---|---|---|---|---|---|---|
| 64 Heptane (continued) | | | | | | | |
| 16.413 | 16.413 (0.976) | 43 | 1037663 | | | 158.27- 218.27 | 192.96 |
| 67 Trichloroethene | | | | | CAS #: 79-01-6 | | |
| 17.237 | 17.237 (1.024) | 130 | 645133 | 9.16532 | 9.165 | 80.00- 120.00 | 100.00 |
| 17.237 | 17.237 (1.024) | 95 | 666080 | | | 75.28- 135.28 | 103.25 |
| 17.237 | 17.237 (1.024) | 97 | 430556 | | | 37.01- 97.01 | 66.74 |
| 69 Methylcyclohexane | | | | | CAS #: 108-87-2 | | |
| 17.484 | 17.484 (1.039) | 83 | 911504 | 9.33028 | 9.330 | 80.00- 120.00 | 100.00 |
| 17.484 | 17.484 (1.039) | 98 | 439130 | | | 17.59- 77.59 | 48.18 |
| 17.484 | 17.484 (1.039) | 55 | 845443 | | | 57.89- 117.89 | 92.75 |
| 72 1,2-Dichloropropane | | | | | CAS #: 78-87-5 | | |
| 17.704 | 17.704 (1.052) | 63 | 610222 | 9.31956 | 9.320 | 80.00- 120.00 | 100.00 |
| 17.704 | 17.704 (1.052) | 62 | 450913 | | | 43.22- 103.22 | 73.89 |
| 17.704 | 17.704 (1.052) | 41 | 374167 | | | 30.82- 90.82 | 61.32 |
| 74 1,4-Dioxane | | | | | CAS #: 123-91-1 | | |
| 17.841 | 17.841 (1.060) | 88 | 351938 | 9.01340 | 9.013 | 80.00- 120.00 | 100.00 |
| 17.841 | 17.841 (1.060) | 58 | 279167 | | | 46.02- 106.02 | 79.32 |
| 17.841 | 17.841 (1.060) | 57 | 87918 | | | 0.00- 53.54 | 24.98 |
| 76 Bromodichloromethane | | | | | CAS #: 75-27-4 | | |
| 18.143 | 18.143 (1.078) | 83 | 1028945 | 9.12236 | 9.122 | 80.00- 120.00 | 100.00 |
| 18.143 | 18.143 (1.078) | 85 | 657836 | | | 33.96- 93.96 | 63.93 |
| 77 cis-1,3-Dichloropropene | | | | | CAS #: 10061-01-5 | | |
| 18.986 | 18.986 (1.128) | 75 | 798362 | 8.92097 | 8.921 | 80.00- 120.00 | 100.00 |
| 18.986 | 18.986 (1.128) | 77 | 250068 | | | 1.99- 61.99 | 31.32 |
| 18.986 | 18.986 (1.128) | 39 | 446108 | | | 26.06- 86.06 | 55.88 |
| 78 4-Methyl-2-pentanone | | | | | CAS #: 108-10-1 | | |
| 19.165 | 19.165 (1.139) | 43 | 1296394 | 9.57623 | 9.576 | 80.00- 120.00 | 100.00 |
| 19.165 | 19.165 (1.139) | 58 | 502618 | | | 10.31- 70.31 | 38.77 |
| 19.165 | 19.187 (1.139) | 85 | 195276 | | | 0.00- 46.66 | 15.06 |
| 81 Toluene | | | | | CAS #: 108-88-3 | | |
| 19.523 | 19.524 (1.160) | 91 | 1687745 | 8.95248 | 8.952 | 80.00- 120.00 | 100.00 |
| 19.523 | 19.524 (1.160) | 92 | 1002304 | | | 30.18- 90.18 | 59.39 |
| 82 trans-1,3-Dichloropropene | | | | | CAS #: 10061-02-6 | | |
| 19.910 | 19.910 (0.921) | 75 | 819826 | 8.85717 | 8.857 | 80.00- 120.00 | 100.00 |
| 19.910 | 19.910 (0.921) | 77 | 260760 | | | 1.51- 61.51 | 31.81 |
| 19.910 | 19.910 (0.921) | 39 | 435657 | | | 23.29- 83.29 | 53.14 |

| RT | EXP RT (REL RT) | MASS | RESPONSE | CONCENTRATIONS ON-COL ( PPBV) | CONCENTRATIONS FINAL ( PPBV) | TARGET RANGE | RATIO |
|---|---|---|---|---|---|---|---|
| 83 1,1,2-Trichloroethane | | | | | CAS #: 79-00-5 | | |
| 20.203 | 20.203 (0.935) | 97 | 619018 | 8.40321 | 8.403 | 80.00- 120.00 | 100.00 |
| 20.203 | 20.203 (0.935) | 99 | 388849 | | | 32.01- 92.01 | 62.82 |
| 20.203 | 20.203 (0.935) | 83 | 544066 | | | 56.19- 116.19 | 87.89 |
| 84 Tetrachloroethene | | | | | CAS #: 127-18-4 | | |
| 20.365 | 20.365 (0.942) | 166 | 740800 | 8.72391 | 8.724 | 80.00- 120.00 | 100.00 |
| 20.333 | 20.333 (0.941) | 129 | 580368 | | | 48.84- 108.84 | 78.34 |
| 20.333 | 20.333 (0.941) | 131 | 558324 | | | 46.09- 106.09 | 75.37 |
| 85 2-Hexanone | | | | | CAS #: 591-78-6 | | |
| 20.495 | 20.495 (0.948) | 58 | 696811 | 9.43836 | 9.438 | 80.00- 120.00 | 100.00 |
| 20.495 | 20.495 (0.948) | 43 | 1295703 | | | 132.91- 192.91 | 185.95 |
| 20.495 | 20.495 (0.948) | 100 | 131909 | | | 0.00- 49.97 | 18.93 |
| 86 Dibromochloromethane | | | | | CAS #: 124-48-1 | | |
| 20.788 | 20.788 (0.962) | 129 | 951340 | 8.75637 | 8.756 | 80.00- 120.00 | 100.00 |
| 20.788 | 20.788 (0.962) | 127 | 738026 | | | 48.12- 108.12 | 77.58 |
| 87 1,2-Dibromoethane | | | | | CAS #: 106-93-4 | | |
| 21.016 | 21.016 (0.972) | 107 | 923108 | 8.79319 | 8.793 | 80.00- 120.00 | 100.00 |
| 21.016 | 21.016 (0.972) | 109 | 863839 | | | 64.41- 124.41 | 93.58 |
| 89 Chlorobenzene | | | | | CAS #: 108-90-7 | | |
| 21.638 | 21.638 (1.001) | 112 | 1329917 | 8.89784 | 8.898 | 80.00- 120.00 | 100.00 |
| 21.638 | 21.638 (1.001) | 114 | 429151 | | | 2.00- 62.00 | 32.27 |
| 21.638 | 21.638 (1.001) | 77 | 856785 | | | 33.56- 93.56 | 64.42 |
| 91 Ethyl Benzene | | | | | CAS #: 100-41-4 | | |
| 21.711 | 21.711 (1.004) | 106 | 667302 | 8.70185 | 8.702 | 80.00- 120.00 | 100.00 |
| 21.711 | 21.711 (1.004) | 91 | 2156107 | | | 291.22- 351.22 | 323.11 |
| 93 m,p-Xylene | | | | | CAS #: 108-38-3 | | |
| 21.855 | 21.855 (1.011) | 106 | 743719 | 8.86941 | 8.869 | 80.00- 120.00 | 100.00 |
| 21.855 | 21.855 (1.011) | 91 | 1496660 | | | 173.15- 233.15 | 201.24 |
| 94 o-Xylene | | | | | CAS #: 95-47-6 | | |
| 22.385 | 22.385 (1.036) | 106 | 731082 | 9.06191 | 9.062 | 80.00- 120.00 | 100.00 |
| 22.385 | 22.385 (1.036) | 91 | 1552792 | | | 185.20- 245.20 | 212.40 |
| 95 Styrene | | | | | CAS #: 100-42-5 | | |
| 22.409 | 22.409 (1.037) | 104 | 1100287 | 8.39094 | 8.391 | 80.00- 120.00 | 100.00 |
| 22.409 | 22.409 (1.037) | 78 | 577011 | | | 21.95- 81.95 | 52.44 |
| 97 Bromoform | | | | | CAS #: 75-25-2 | | |
| 22.707 | 22.707 (1.051) | 173 | 863390 | 9.32329 | 9.323 | 80.00- 120.00 | 100.00 |

| RT | EXP RT (REL RT) | MASS | RESPONSE | CONCENTRATIONS ON-COL ( PPBV) | CONCENTRATIONS FINAL ( PPBV) | TARGET RANGE | RATIO |
|---|---|---|---|---|---|---|---|
| 97 Bromoform (continued) | | | | | | | |
| 22.707 | 22.707 (1.051) | 171 | 444161 | | | 22.12- 82.12 | 51.44 |
| 98 Cumene | | | | | CAS #: 98-82-8 | | |
| 22.810 | 22.810 (1.055) | 105 | 2145852 | 8.86006 | 8.860 | 80.00- 120.00 | 100.00 |
| 22.810 | 22.810 (1.055) | 120 | 561269 | | | 0.00- 56.13 | 26.16 |
| 103 1,1,2,2-Tetrachloroethane | | | | | CAS #: 79-34-5 | | |
| 23.197 | 23.197 (1.073) | 83 | 1291755 | 9.23961 | 9.240 | 80.00- 120.00 | 100.00 |
| 23.197 | 23.197 (1.073) | 85 | 828132 | | | 34.44- 94.44 | 64.11 |
| 104 Propylbenzene | | | | | CAS #: 103-65-1 | | |
| 23.274 | 23.274 (1.077) | 91 | 2238110 | 8.93064 | 8.931 | 80.00- 120.00 | 100.00 |
| 23.274 | 23.274 (1.077) | 120 | 497997 | | | 0.00- 52.40 | 22.25 |
| 107 4-Ethyltoluene | | | | | CAS #: 622-96-8 | | |
| 23.403 | 23.403 (1.083) | 105 | 1742899 | 7.62020 | 7.620 | 80.00- 120.00 | 100.00 |
| 23.403 | 23.403 (1.083) | 120 | 512155 | | | 0.31- 60.31 | 29.39 |
| 109 1,3,5-Trimethylbenzene | | | | | CAS #: 108-67-8 | | |
| 23.455 | 23.455 (1.085) | 105 | 1552052 | 8.58992 | 8.590 | 80.00- 120.00 | 100.00 |
| 23.455 | 23.455 (1.085) | 120 | 738359 | | | 18.26- 78.26 | 47.57 |
| 112 1,2,4-Trimethylbenzene | | | | | CAS #: 95-63-6 | | |
| 23.893 | 23.893 (1.105) | 105 | 1366852 | 8.10538 | 8.105 | 80.00- 120.00 | 100.00 |
| 23.893 | 23.893 (1.105) | 120 | 613104 | | | 15.25- 75.25 | 44.86 |
| 115 1,3-Dichlorobenzene | | | | | CAS #: 541-73-1 | | |
| 24.254 | 24.255 (1.122) | 146 | 953418 | 8.04297 | 8.043 | 80.00- 120.00 | 100.00 |
| 24.254 | 24.255 (1.122) | 148 | 603942 | | | 33.56- 93.56 | 63.34 |
| 24.254 | 24.255 (1.122) | 111 | 417359 | | | 14.68- 74.68 | 43.78 |
| 117 1,4-Dichlorobenzene | | | | | CAS #: 106-46-7 | | |
| 24.358 | 24.358 (1.127) | 146 | 880058 | 8.26832 | 8.268 | 80.00- 120.00 | 100.00 |
| 24.358 | 24.358 (1.127) | 148 | 549105 | | | 33.39- 93.39 | 62.39 |
| 24.358 | 24.358 (1.127) | 111 | 373684 | | | 12.70- 72.70 | 42.46 |
| 118 alpha-chlorotoluene | | | | | CAS #: 100-44-7 | | |
| 24.512 | 24.512 (1.134) | 91 | 1395955 | 8.52223 | 8.522 | 80.00- 120.00 | 100.00 |
| 24.512 | 24.512 (1.134) | 126 | 275444 | | | 0.00- 49.37 | 19.73 |
| 121 1,2-Dichlorobenzene | | | | | CAS #: 95-50-1 | | |
| 24.770 | 24.770 (1.146) | 146 | 845310 | 8.10612 | 8.106 | 80.00- 120.00 | 100.00 |
| 24.770 | 24.770 (1.146) | 148 | 532653 | | | 33.70- 93.70 | 63.01 |
| 24.770 | 24.770 (1.146) | 111 | 385700 | | | 15.32- 75.32 | 45.63 |

| RT | EXP RT (REL RT) | MASS | RESPONSE | CONCENTRATIONS ON-COL ( PPBV) | FINAL ( PPBV) | TARGET RANGE | RATIO |
|---|---|---|---|---|---|---|---|
| 126 1,2,4-Trichlorobenzene | | | | | CAS #: 120-82-1 | | |
| 26.524 | 26.524 (1.227) | 180 | 683198 | 11.3885 | 11.388 | 80.00- 120.00 | 100.00 |
| 26.524 | 26.524 (1.227) | 182 | 637378 | | | 62.96- 122.96 | 93.29 |
| 128 Hexachlorobutadiene | | | | | CAS #: 87-68-3 | | |
| 26.627 | 26.627 (1.232) | 225 | 520799 | 11.6416 | 11.642 | 80.00- 120.00 | 100.00 |
| 26.627 | 26.627 (1.232) | 223 | 328727 | | | 34.16- 94.16 | 63.12 |
| 129 Naphthalene | | | | | CAS #: 91-20-3 | | |
| 26.859 | 26.859 (1.243) | 128 | 1648401 | 13.1654 | 13.165 | 80.00- 120.00 | 100.00 |
| 26.859 | 26.859 (1.243) | 127 | 207708 | | | 0.00- 42.68 | 12.60 |

QC Flag Legend

R - Spike/Surrogate failed recovery limits.

Air Toxics Ltd.

AMBIENT AIR METHOD TO14/TO15

Data file : /chem/msda.i/01Sep2011.b/a090103.d
Lab Smp Id: LCS Client Smp ID: LCS
Inj Date : 01-SEP-2011 09:19
Operator : dfm Inst ID: msda.i
Smp Info : 50mL #2296-133
Misc Info : 10ppbv (50ppbv)
Comment :
Method : /chem/msda.i/01Sep2011.b/a11l0818b.m
Meth Date : 07-Sep-2011 14:20 ejakob Quant Type: ISTD
Cal Date : 31-AUG-2011 12:17 Cal File: a083107.d
Als bottle: 16 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AT09.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

- NO TENTATIVELY IDENTIFIED COMPOUNDS -

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msda.i
Lab File ID: a090103.d
Lab Smp Id: LCS
Analysis Type: VOA
Quant Type: ISTD
Operator: dfm
Method File: /chem/msda.i/01Sep2011.b/a11l0818b.m
Misc Info: 10ppbv (50ppbv)

Calibration Date: 01-SEP-2011
Calibration Time: 08:06
Client Smp ID: LCS
Level: LOW
Sample Type: AIR

| | | AREA LIMIT | | | |
|---|---|---|---|---|---|
| COMPOUND | STANDARD | LOWER | UPPER | SAMPLE | %DIFF |
| 52 Bromochloromethan | 204525 | 122715 | 286335 | 196821 | -3.77 |
| 66 1,4-Difluorobenze | 937041 | 562225 | 1311857 | 887512 | -5.29 |
| 88 Chlorobenzene-d5 | 804938 | 482963 | 1126913 | 786303 | -2.32 |

| | | RT LIMIT | | | |
|---|---|---|---|---|---|
| COMPOUND | STANDARD | LOWER | UPPER | SAMPLE | %DIFF |
| 52 Bromochloromethan | 15.41 | 15.08 | 15.74 | 15.41 | 0.00 |
| 66 1,4-Difluorobenze | 16.83 | 16.50 | 17.16 | 16.82 | 0.00 |
| 88 Chlorobenzene-d5 | 21.61 | 21.28 | 21.94 | 21.61 | 0.00 |

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

U¤

Data File: /chem/msda.i/01Sep2011.b/a090103.d



Date : 01-SEP-2011 09:19

Client ID: LCS

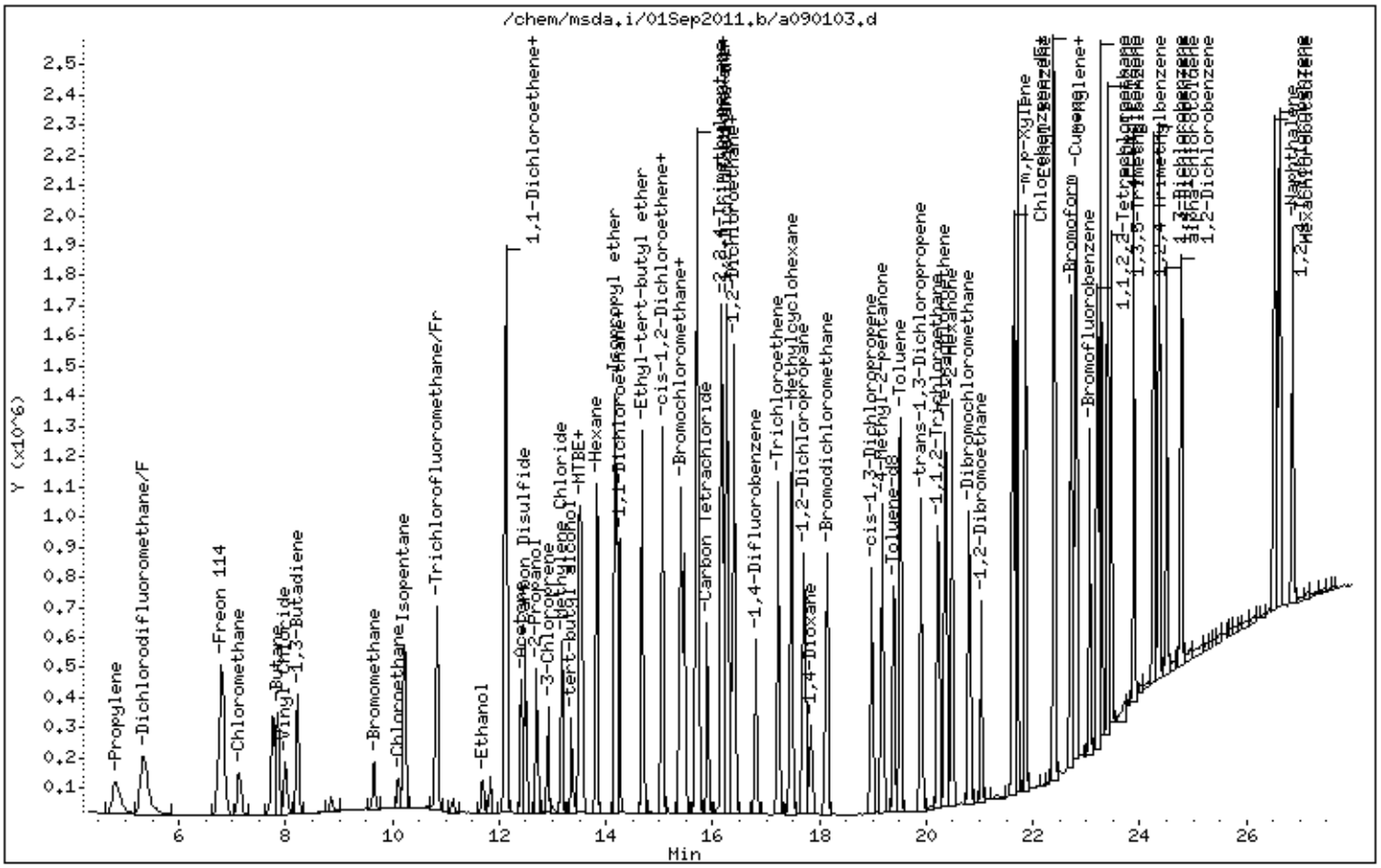
Instrument: msda.i

Sample Info: 50mL #2296-133

Operator: dfm

Column phase: RTx-624

Column diameter: 0.32



Air Toxics LTD.
Laboratory Services Since 1989

**Client Sample ID: LCSD**

**Lab ID#: 1108582-11BB**

**MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN**

| | | | |
|---|---|---|---|
| **File Name:** | **a090104** | **Date of Collection: NA** | |
| **Dil. Factor:** | **1.00** | **Date of Analysis: 9/1/11 09:56 AM** | |

| Compound | %Recovery |
|---|---|
| Freon 12 | 88 |
| Freon 114 | 85 |
| Chloromethane | 94 |
| Vinyl Chloride | 91 |
| 1,3-Butadiene | 88 |
| Bromomethane | 85 |
| Chloroethane | 85 |
| Freon 11 | 104 |
| Ethanol | 270 Q |
| Freon 113 | 98 |
| 1,1-Dichloroethene | 94 |
| Acetone | 94 |
| 2-Propanol | 88 |
| Carbon Disulfide | 109 |
| 3-Chloropropene | 131 |
| Methylene Chloride | 82 |
| Methyl tert-butyl ether | 89 |
| trans-1,2-Dichloroethene | 95 |
| Hexane | 90 |
| 1,1-Dichloroethane | 93 |
| 2-Butanone (Methyl Ethyl Ketone) | 83 |
| cis-1,2-Dichloroethene | 84 |
| Tetrahydrofuran | 98 |
| Chloroform | 86 |
| 1,1,1-Trichloroethane | 86 |
| Cyclohexane | 86 |
| Carbon Tetrachloride | 68 Q |
| 2,2,4-Trimethylpentane | 102 |
| Benzene | 90 |
| 1,2-Dichloroethane | 90 |
| Heptane | 95 |
| Trichloroethene | 90 |
| 1,2-Dichloropropane | 91 |
| 1,4-Dioxane | 85 |
| Bromodichloromethane | 89 |
| cis-1,3-Dichloropropene | 88 |
| 4-Methyl-2-pentanone | 93 |
| Toluene | 88 |
| trans-1,3-Dichloropropene | 91 |
| 1,1,2-Trichloroethane | 85 |
| Tetrachloroethene | 88 |

Air Toxics LTD.
Laboratory Services Since 1989

**Client Sample ID: LCSD**

**Lab ID#: 1108582-11BB**

**MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN**

| | | | |
|---|---|---|---|
| **File Name:** | **a090104** | **Date of Collection: NA** | |
| **Dil. Factor:** | **1.00** | **Date of Analysis: 9/1/11 09:56 AM** | |

| Compound | %Recovery |
|---|---|
| 2-Hexanone | 95 |
| Dibromochloromethane | 88 |
| 1,2-Dibromoethane (EDB) | 88 |
| Chlorobenzene | 90 |
| Ethyl Benzene | 88 |
| m,p-Xylene | 89 |
| o-Xylene | 90 |
| Styrene | 86 |
| Bromoform | 92 |
| Cumene | 89 |
| 1,1,2,2-Tetrachloroethane | 93 |
| Propylbenzene | 91 |
| 4-Ethyltoluene | 78 |
| 1,3,5-Trimethylbenzene | 91 |
| 1,2,4-Trimethylbenzene | 84 |
| 1,3-Dichlorobenzene | 81 |
| 1,4-Dichlorobenzene | 85 |
| alpha-Chlorotoluene | 88 |
| 1,2-Dichlorobenzene | 83 |
| 1,2,4-Trichlorobenzene | 105 |
| Hexachlorobutadiene | 109 |
| 2,3-Dimethylpentane | Not Spiked |
| 2-Methylpentane | Not Spiked |
| Indene | Not Spiked |
| Indan | Not Spiked |
| Isopentane | 85 |
| Naphthalene | 118 |
| Thiophene | Not Spiked |

Q = Exceeds Quality Control limits.

**Container Type: NA - Not Applicable**

| Surrogates | %Recovery | Method Limits |
|---|---|---|
| 1,2-Dichloroethane-d4 | 102 | 70-130 |
| Toluene-d8 | 100 | 70-130 |
| 4-Bromofluorobenzene | 104 | 70-130 |

Air Toxics Ltd.

RECOVERY REPORT

Client Name: Client SDG: 01Sep2011
Sample Matrix: GAS Fraction: VOA
Lab Smp Id: LCS Client Smp ID: LCSD
Level: LOW Operator: dfm
Data Type: MS DATA SampleType: LCSD
SpikeList File: AT09.spk Quant Type: ISTD
Sublist File: AT09.sub
Method File: /chem/msda.i/01Sep2011.b/a11l0818b.m
Misc Info: 10ppbv (50ppbv)

| SPIKE COMPOUND | CONC ADDED PPBV | CONC RECOVERED PPBV | % RECOVERED | LIMITS |
|---|---|---|---|---|
| 4 Dichlorodifluorome | 10.000 | 8.792 | 87.92 | 70-130 |
| 2 Propylene | 10.000 | 8.945 | 89.45 | 60-140 |
| 6 Freon 114 | 10.000 | 8.482 | 84.82 | 70-130 |
| 7 Chloromethane | 10.000 | 9.431 | 94.31 | 70-130 |
| 10 Vinyl Chloride | 10.000 | 9.108 | 91.08 | 70-130 |
| 11 1,3-Butadiene | 10.000 | 8.754 | 87.54 | 60-140 |
| 12 Bromomethane | 10.000 | 8.500 | 85.01 | 70-130 |
| 13 Chloroethane | 10.000 | 8.472 | 84.72 | 70-130 |
| 16 Trichlorofluoromet | 10.000 | 10.377 | 103.77 | 70-130 |
| 20 Ethanol | 10.000 | 27.045 | 270.45* | 60-140 |
| 22 Freon 113 | 10.000 | 9.816 | 98.16 | 70-130 |
| 23 1,1-Dichloroethene | 10.000 | 9.440 | 94.40 | 70-130 |
| 24 Acetone | 10.000 | 9.455 | 94.55 | 60-140 |
| 26 Carbon Disulfide | 10.000 | 10.939 | 109.39 | 60-140 |
| 27 2-Propanol | 10.000 | 8.756 | 87.56 | 60-140 |
| 28 3-Chloroprene | 10.000 | 13.100 | 131.00 | 60-140 |
| 33 Methylene Chloride | 10.000 | 8.226 | 82.26 | 70-130 |
| 35 MTBE | 10.000 | 8.894 | 88.94 | 60-140 |
| 36 trans-1,2-Dichloro | 10.000 | 9.463 | 94.63 | 60-140 |
| 40 Hexane | 10.000 | 8.993 | 89.93 | 60-140 |
| 42 1,1-Dichloroethane | 10.000 | 9.324 | 93.24 | 70-130 |
| 44 Vinyl Acetate | 10.000 | 8.931 | 89.31 | 60-140 |
| 47 cis-1,2-Dichloroet | 10.000 | 8.405 | 84.05 | 70-130 |
| 48 2-Butanone | 10.000 | 8.305 | 83.05 | 60-140 |
| 51 Tetrahydrofuran | 10.000 | 9.804 | 98.04 | 60-140 |
| 53 Chloroform | 10.000 | 8.636 | 86.36 | 70-130 |
| 55 Cyclohexane | 10.000 | 8.639 | 86.39 | 60-140 |
| 56 1,1,1-Trichloroeth | 10.000 | 8.550 | 85.50 | 70-130 |
| 57 Carbon Tetrachlori | 10.000 | 6.799 | 67.99* | 70-130 |
| 59 2,2,4-Trimethylpen | 10.000 | 10.153 | 101.53 | 60-140 |
| 60 Benzene | 10.000 | 9.005 | 90.05 | 70-130 |
| 64 Heptane | 10.000 | 9.506 | 95.06 | 60-140 |
| 63 1,2-Dichloroethane | 10.000 | 8.973 | 89.73 | 70-130 |

| | SPIKE COMPOUND | CONC ADDED PPBV | CONC RECOVERED PPBV | % RECOVERED | LIMITS |
|---|---|---|---|---|---|
| 67 | Trichloroethene | 10.000 | 9.033 | 90.33 | 70-130 |
| 72 | 1,2-Dichloropropan | 10.000 | 9.111 | 91.11 | 70-130 |
| 74 | 1,4-Dioxane | 10.000 | 8.547 | 85.47 | 60-140 |
| 76 | Bromodichlorometha | 10.000 | 8.923 | 89.23 | 60-140 |
| 77 | cis-1,3-Dichloropr | 10.000 | 8.839 | 88.39 | 70-130 |
| 78 | 4-Methyl-2-pentano | 10.000 | 9.334 | 93.34 | 60-140 |
| 81 | Toluene | 10.000 | 8.787 | 87.87 | 70-130 |
| 82 | trans-1,3-Dichloro | 10.000 | 9.067 | 90.67 | 70-130 |
| 83 | 1,1,2-Trichloroeth | 10.000 | 8.495 | 84.95 | 70-130 |
| 85 | 2-Hexanone | 10.000 | 9.476 | 94.77 | 60-140 |
| 84 | Tetrachloroethene | 10.000 | 8.811 | 88.11 | 70-130 |
| 86 | Dibromochlorometha | 10.000 | 8.812 | 88.13 | 60-140 |
| 87 | 1,2-Dibromoethane | 10.000 | 8.789 | 87.89 | 70-130 |
| 89 | Chlorobenzene | 10.000 | 8.956 | 89.56 | 70-130 |
| 91 | Ethyl Benzene | 10.000 | 8.828 | 88.28 | 70-130 |
| 93 | m,p-Xylene | 10.000 | 8.942 | 89.42 | 70-130 |
| 94 | o-Xylene | 10.000 | 9.050 | 90.50 | 70-130 |
| 95 | Styrene | 10.000 | 8.583 | 85.83 | 70-130 |
| 97 | Bromoform | 10.000 | 9.254 | 92.54 | 60-140 |
| 98 | Cumene | 10.000 | 8.924 | 89.24 | 60-140 |
| 103 | 1,1,2,2-Tetrachlor | 10.000 | 9.263 | 92.63 | 70-130 |
| 104 | Propylbenzene | 10.000 | 9.070 | 90.70 | 70-130 |
| 107 | 4-Ethyltoluene | 10.000 | 7.786 | 77.86 | 60-140 |
| 109 | 1,3,5-Trimethylben | 10.000 | 9.121 | 91.21 | 70-130 |
| 112 | 1,2,4-Trimethylben | 10.000 | 8.444 | 84.44 | 70-130 |
| 115 | 1,3-Dichlorobenzen | 10.000 | 8.147 | 81.47 | 70-130 |
| 117 | 1,4-Dichlorobenzen | 10.000 | 8.484 | 84.84 | 70-130 |
| 118 | alpha-chlorotoluen | 10.000 | 8.751 | 87.51 | 70-130 |
| 121 | 1,2-Dichlorobenzen | 10.000 | 8.314 | 83.14 | 70-130 |
| 126 | 1,2,4-Trichloroben | 10.000 | 10.544 | 105.44 | 70-130 |
| 128 | Hexachlorobutadien | 10.000 | 10.944 | 109.45 | 70-130 |
| 129 | Naphthalene | 10.000 | 11.857 | 118.57 | 60-140 |
| 14 | Isopentane | 10.000 | 8.507 | 85.07 | 60-140 |
| 9 | Butane | 10.000 | 8.699 | 86.99 | 60-140 |
| 69 | Methylcyclohexane | 10.000 | 9.175 | 91.75 | 60-140 |
| 34 | tert-butyl alcohol | 10.000 | 5.874 | 58.74* | 60-140 |
| 41 | Isopropyl ether | 10.000 | 9.085 | 90.85 | 60-140 |
| 46 | Ethyl-tert-butyl e | 10.000 | 8.104 | 81.04 | 60-140 |
| 62 | tert-amyl methyl e | 10.000 | 7.065 | 70.65 | 60-140 |

| | SURROGATE COMPOUND | CONC ADDED PPBV | CONC RECOVERED PPBV | % RECOVERED | LIMITS |
|---|---|---|---|---|---|
| $ 61 | 1,2-Dichloroethane | 10.000 | 10.179 | 101.79 | 70-130 |

| SURROGATE COMPOUND | CONC ADDED PPBV | CONC RECOVERED PPBV | % RECOVERED | LIMITS |
|---|---|---|---|---|
| $ 80 Toluene-d8 | 10.000 | 10.038 | 100.38 | 70-130 |
| $ 100 Bromofluorobenzene | 10.000 | 10.397 | 103.97 | 70-130 |

Air Toxics Ltd.

AMBIENT AIR METHOD TO14/TO15

Data file : /chem/msda.i/01Sep2011.b/a090104.d
Lab Smp Id: LCS Client Smp ID: LCSD
Inj Date : 01-SEP-2011 09:56
Operator : dfm Inst ID: msda.i
Smp Info : 50mL #2296-133
Misc Info : 10ppbv (50ppbv)
Comment :
Method : /chem/msda.i/01Sep2011.b/a11l0818b.m
Meth Date : 07-Sep-2011 14:20 ejakob Quant Type: ISTD
Cal Date : 31-AUG-2011 12:17 Cal File: a083107.d
Als bottle: 16 QC Sample: LCSD
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AT09.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

Cpnd Variable Local Compound Variable

| | | | | CONCENTRATIONS ON-COL | FINAL | | |
|---|---|---|---|---|---|---|---|
| RT | EXP RT (REL RT) | MASS | RESPONSE | ( PPBV) | ( PPBV) | TARGET RANGE | RATIO |
| * 52 Bromochloromethane | | | | | | CAS #: 74-97-5 | |
| 15.406 | 15.406 (1.000) | 130 | 198744 | 10.0000 | | 80.00- 120.00 | 100.00 |
| 15.406 | 15.406 (1.000) | 128 | 152459 | | | 0.00- 30.00 | 76.71 |
| 15.406 | 15.406 (1.000) | 49 | 438657 | | | 0.00- 30.00 | 220.71 |
| * 66 1,4-Difluorobenzene | | | | | | CAS #: 540-36-3 | |
| 16.825 | 16.825 (1.000) | 114 | 922556 | 10.0000 | | 80.00- 120.00 | 100.00 |
| 16.825 | 16.798 (1.000) | 88 | 158362 | | | 0.00- 30.00 | 17.17 |
| * 88 Chlorobenzene-d5 | | | | | | CAS #: 3114-55-4 | |
| 21.614 | 21.614 (1.000) | 117 | 794279 | 10.0000 | | 80.00- 120.00 | 100.00 |
| 21.590 | 21.590 (1.000) | 82 | 472297 | | | 0.00- 30.00 | 59.46 |
| $ 61 1,2-Dichloroethane-d4 | | | | | | CAS #: 17060-07-0 | |
| 16.248 | 16.249 (1.055) | 65 | 364035 | 10.1789 | 10.179 | 80.00- 120.00 | 100.00 |
| 16.248 | 16.249 (1.055) | 67 | 255551 | | | 21.17- 81.17 | 70.20 |
| $ 80 Toluene-d8 | | | | | | CAS #: 2037-26-5 | |
| 19.389 | 19.389 (1.152) | 98 | 900226 | 10.0376 | 10.038 | 80.00- 120.00 | 100.00 |
| 19.389 | 19.389 (1.152) | 70 | 110335 | | | 0.00- 41.96 | 12.26 |

| RT | EXP RT (REL RT) | MASS | RESPONSE | CONCENTRATIONS ON-COL ( PPBV) | CONCENTRATIONS FINAL ( PPBV) | TARGET RANGE | RATIO |
|---|---|---|---|---|---|---|---|
| $ 80 Toluene-d8 (continued) | | | | | | | |
| 19.389 | 19.389 (1.152) | 100 | 606919 | | | 36.89- 96.89 | 67.42 |
| $ 100 Bromofluorobenzene | | | | | CAS #: 460-00-4 | | |
| 23.068 | 23.068 (1.067) | 174 | 430115 | 10.3969 | 10.397 | 80.00- 120.00 | 100.00 |
| 23.068 | 23.068 (1.067) | 95 | 612806 | | | 114.38- 174.38 | 142.47 |
| 23.068 | 23.068 (1.067) | 176 | 412636 | | | 66.49- 126.49 | 95.94 |
| 2 Propylene | | | | | CAS #: 115-07-1 | | |
| 4.794 | 5.011 (0.311) | 41 | 380797 | 8.94474 | 8.945 | 80.00- 120.00 | 100.00 |
| 4.794 | 5.011 (0.311) | 42 | 241319 | | | 36.86- 96.86 | 63.37 |
| 4.818 | 5.011 (0.313) | 39 | 250745 | | | 41.49- 101.49 | 65.85 |
| 4 Dichlorodifluoromethane/Fr12 | | | | | CAS #: 75-71-8 | | |
| 5.324 | 5.493 (0.346) | 85 | 1147942 | 8.79157 | 8.792 | 80.00- 120.00 | 100.00 |
| 5.324 | 5.493 (0.346) | 87 | 373632 | | | 2.38- 62.38 | 32.55 |
| 6 Freon 114 | | | | | CAS #: 76-14-2 | | |
| 6.794 | 6.891 (0.441) | 135 | 700917 | 8.48166 | 8.482 | 80.00- 120.00 | 100.00 |
| 6.794 | 6.915 (0.441) | 137 | 223484 | | | 1.34- 61.34 | 31.88 |
| 6.794 | 6.891 (0.441) | 85 | 1038626 | | | 133.27- 193.27 | 148.18 |
| 7 Chloromethane | | | | | CAS #: 74-87-3 | | |
| 7.132 | 7.228 (0.463) | 50 | 452549 | 9.43089 | 9.431 | 80.00- 120.00 | 100.00 |
| 7.132 | 7.228 (0.463) | 52 | 147410 | | | 2.29- 62.29 | 32.57 |
| 9 Butane | | | | | CAS #: 106-97-8 | | |
| 7.850 | 7.920 (0.510) | 58 | 104509 | 8.69883 | 8.699 | 80.00- 120.00 | 100.00 |
| 7.833 | 7.920 (0.508) | 43 | 758389 | | | 641.41- 701.41 | 725.67 |
| 10 Vinyl Chloride | | | | | CAS #: 75-01-4 | | |
| 7.989 | 8.059 (0.519) | 62 | 493285 | 9.10794 | 9.108 | 80.00- 120.00 | 100.00 |
| 7.989 | 8.059 (0.519) | 64 | 151229 | | | 0.83- 60.83 | 30.66 |
| 11 1,3-Butadiene | | | | | CAS #: 106-99-0 | | |
| 8.215 | 8.284 (0.533) | 54 | 371632 | 8.75401 | 8.754 | 80.00- 120.00 | 100.00 |
| 8.215 | 8.284 (0.533) | 39 | 366084 | | | 64.36- 124.36 | 98.51 |
| 12 Bromomethane | | | | | CAS #: 74-83-9 | | |
| 9.638 | 9.680 (0.626) | 94 | 214331 | 8.50058 | 8.500 | 80.00- 120.00 | 100.00 |
| 9.659 | 9.680 (0.627) | 96 | 197373 | | | 61.02- 121.02 | 92.09 |
| 13 Chloroethane | | | | | CAS #: 75-00-3 | | |
| 10.115 | 10.136 (0.657) | 64 | 161963 | 8.47165 | 8.472 | 80.00- 120.00 | 100.00 |
| 10.115 | 10.136 (0.657) | 66 | 51586 | | | 2.32- 62.32 | 31.85 |

| RT | EXP RT (REL RT) | MASS | RESPONSE | CONCENTRATIONS ON-COL ( PPBV) | CONCENTRATIONS FINAL ( PPBV) | TARGET RANGE | RATIO |
|---|---|---|---|---|---|---|---|
| 14 Isopentane | | | | | CAS #: 78-78-4 | | |
| 10.219 | 10.240 (0.663) | 57 | 336587 | 8.50722 | 8.507 | 80.00- 120.00 | 100.00 |
| 10.219 | 10.240 (0.663) | 43 | 484192 | | | 104.71- 164.71 | 143.85 |
| 10.219 | 10.240 (0.663) | 42 | 421167 | | | 89.04- 149.04 | 125.13 |
| 16 Trichlorofluoromethane/Fr11 | | | | | CAS #: 75-69-4 | | |
| 10.840 | 10.841 (0.704) | 101 | 1077794 | 10.3772 | 10.377 | 80.00- 120.00 | 100.00 |
| 10.840 | 10.841 (0.704) | 103 | 681873 | | | 34.35- 94.35 | 63.27 |
| 20 Ethanol | | | | | CAS #: 64-17-5 | | |
| 11.690 | 11.691 (0.759) | 45 | 194734 | 27.0448 | 27.045 | 80.00- 120.00 | 100.00(R) |
| 11.690 | 11.691 (0.759) | 43 | 40314 | | | 0.00- 57.08 | 20.70 |
| 11.690 | 11.691 (0.759) | 46 | 80067 | | | 10.87- 70.87 | 41.12 |
| 23 1,1-Dichloroethene | | | | | CAS #: 75-35-4 | | |
| 12.146 | 12.147 (0.788) | 98 | 272551 | 9.44025 | 9.440 | 80.00- 120.00 | 100.00 |
| 12.126 | 12.126 (0.787) | 61 | 786381 | | | 252.93- 312.93 | 288.53 |
| 12.146 | 12.147 (0.788) | 96 | 427197 | | | 129.43- 189.43 | 156.74 |
| 22 Freon 113 | | | | | CAS #: 76-13-1 | | |
| 12.126 | 12.126 (0.787) | 151 | 689776 | 9.81578 | 9.816 | 80.00- 120.00 | 100.00 |
| 12.126 | 12.126 (0.787) | 153 | 434569 | | | 33.32- 93.32 | 63.00 |
| 12.126 | 12.105 (0.787) | 101 | 957341 | | | 109.89- 169.89 | 138.79 |
| 24 Acetone | | | | | CAS #: 67-64-1 | | |
| 12.416 | 12.416 (0.806) | 58 | 244420 | 9.45503 | 9.455 | 80.00- 120.00 | 100.00 |
| 12.416 | 12.416 (0.806) | 43 | 782251 | | | 283.54- 343.54 | 320.04 |
| 26 Carbon Disulfide | | | | | CAS #: 75-15-0 | | |
| 12.499 | 12.499 (0.811) | 76 | 1160361 | 10.9394 | 10.939 | 80.00- 120.00 | 100.00 |
| 28 3-Chloroprene | | | | | CAS #: 107-05-1 | | |
| 12.913 | 12.913 (0.838) | 76 | 140199 | 13.0995 | 13.100 | 80.00- 120.00 | 100.00 |
| 12.913 | 12.913 (0.838) | 41 | 471103 | | | 273.34- 333.34 | 336.02 |
| 27 2-Propanol | | | | | CAS #: 67-63-0 | | |
| 12.706 | 12.706 (0.825) | 45 | 1045103 | 8.75648 | 8.756 | 80.00- 120.00 | 100.00 |
| 12.706 | 12.706 (0.825) | 43 | 213473 | | | 0.00- 49.76 | 20.43 |
| 12.706 | 12.706 (0.825) | 59 | 33912 | | | 0.00- 34.09 | 3.24 |
| 33 Methylene Chloride | | | | | CAS #: 75-09-2 | | |
| 13.160 | 13.160 (0.854) | 84 | 369119 | 8.22612 | 8.226 | 80.00- 120.00 | 100.00 |
| 13.160 | 13.160 (0.854) | 49 | 575314 | | | 112.00- 172.00 | 155.86 |
| 13.160 | 13.160 (0.854) | 51 | 174726 | | | 13.10- 73.10 | 47.34 |
| 34 tert-butyl alcohol | | | | | CAS #: 75-65-0 | | |
| 13.352 | 13.352 (0.867) | 59 | 465658 | 5.87381 | 5.874 | 80.00- 120.00 | 100.00(R) |

| RT | EXP RT (REL RT) | MASS | RESPONSE | CONCENTRATIONS ON-COL ( PPBV) | CONCENTRATIONS FINAL ( PPBV) | TARGET RANGE | RATIO |
|---|---|---|---|---|---|---|---|
| 34 tert-butyl alcohol (continued) | | | | | | | |
| 13.352 | 13.352 (0.867) | 41 | 129875 | | | 0.00- 48.20 | 27.89 |
| 13.352 | 13.352 (0.867) | 57 | 60663 | | | 0.00- 38.59 | 13.03 |
| 35 MTBE | | | | | CAS #: 1634-04-4 | | |
| 13.489 | 13.490 (0.876) | 73 | 1323170 | 8.89393 | 8.894 | 80.00- 120.00 | 100.00 |
| 13.489 | 13.490 (0.876) | 57 | 341658 | | | 0.00- 55.70 | 25.82 |
| 13.489 | 13.490 (0.876) | 41 | 335430 | | | 0.00- 55.35 | 25.35 |
| 36 trans-1,2-Dichloroethene | | | | | CAS #: 156-60-5 | | |
| 13.544 | 13.544 (0.879) | 98 | 312416 | 9.46304 | 9.463 | 80.00- 120.00 | 100.00 |
| 13.544 | 13.544 (0.879) | 61 | 786702 | | | 212.41- 272.41 | 251.81 |
| 13.544 | 13.544 (0.879) | 96 | 494954 | | | 128.28- 188.28 | 158.43 |
| 40 Hexane | | | | | CAS #: 110-54-3 | | |
| 13.819 | 13.819 (0.897) | 57 | 894459 | 8.99320 | 8.993 | 80.00- 120.00 | 100.00 |
| 13.819 | 13.819 (0.897) | 43 | 592606 | | | 33.38- 93.38 | 66.25 |
| 13.819 | 13.819 (0.897) | 86 | 140887 | | | 0.00- 46.43 | 15.75 |
| 41 Isopropyl ether | | | | | CAS #: 108-20-3 | | |
| 14.176 | 14.176 (0.920) | 45 | 1849097 | 9.08479 | 9.085 | 80.00- 120.00 | 100.00 |
| 14.176 | 14.176 (0.920) | 87 | 420266 | | | 0.00- 54.93 | 22.73 |
| 14.176 | 14.176 (0.920) | 59 | 204460 | | | 0.00- 41.38 | 11.06 |
| 42 1,1-Dichloroethane | | | | | CAS #: 75-34-3 | | |
| 14.231 | 14.231 (0.924) | 63 | 871569 | 9.32446 | 9.324 | 80.00- 120.00 | 100.00 |
| 14.231 | 14.231 (0.924) | 65 | 280180 | | | 2.24- 62.24 | 32.15 |
| 44 Vinyl Acetate | | | | | CAS #: 108-05-4 | | |
| 14.258 | 14.258 (0.926) | 86 | 95528 | 8.93077 | 8.931 | 80.00- 120.00 | 100.00 |
| 14.258 | 14.258 (0.926) | 42 | 91196 | | | 71.80- 131.80 | 95.47 |
| 14.258 | 14.258 (0.926) | 43 | 1361972 | | | 1179.88-1239.88 | 1425.73 |
| 46 Ethyl-tert-butyl ether | | | | | CAS #: 637-92-3 | | |
| 14.671 | 14.671 (0.952) | 59 | 1576316 | 8.10402 | 8.104 | 80.00- 120.00 | 100.00 |
| 14.671 | 14.671 (0.952) | 87 | 577238 | | | 8.46- 68.46 | 36.62 |
| 14.671 | 14.671 (0.952) | 41 | 302975 | | | 0.00- 47.65 | 19.22 |
| 47 cis-1,2-Dichloroethene | | | | | CAS #: 156-59-2 | | |
| 15.044 | 15.044 (0.977) | 98 | 309038 | 8.40473 | 8.405 | 80.00- 120.00 | 100.00 |
| 15.044 | 15.044 (0.977) | 61 | 716099 | | | 191.49- 251.49 | 231.72 |
| 15.044 | 15.044 (0.977) | 96 | 490263 | | | 127.91- 187.91 | 158.64 |
| 48 2-Butanone | | | | | CAS #: 78-93-3 | | |
| 15.065 | 15.065 (0.978) | 72 | 246046 | 8.30532 | 8.305 | 80.00- 120.00 | 100.00 |
| 15.065 | 15.065 (0.978) | 43 | 1148262 | | | 298.82- 358.82 | 466.69 |

| RT | EXP RT (REL RT) | MASS | RESPONSE | CONCENTRATIONS ON-COL ( PPBV) | CONCENTRATIONS FINAL ( PPBV) | TARGET RANGE | RATIO |
|---|---|---|---|---|---|---|---|
| 48 2-Butanone (continued) | | | | | | | |
| 15.065 | 15.065 (0.978) | 57 | 85196 | | | 0.00- 56.09 | 34.63 |
| 51 Tetrahydrofuran | | | | | CAS #: 109-99-9 | | |
| 15.406 | 15.406 (1.000) | 42 | 641460 | 9.80409 | 9.804 | 80.00- 120.00 | 100.00 |
| 15.406 | 15.406 (1.000) | 71 | 213461 | | | 6.88- 66.88 | 33.28 |
| 15.406 | 15.406 (1.000) | 72 | 232723 | | | 11.00- 71.00 | 36.28 |
| 53 Chloroform | | | | | CAS #: 67-66-3 | | |
| 15.467 | 15.467 (1.004) | 83 | 976007 | 8.63551 | 8.636 | 80.00- 120.00 | 100.00 |
| 15.467 | 15.467 (1.004) | 85 | 623618 | | | 34.45- 94.45 | 63.89 |
| 55 Cyclohexane | | | | | CAS #: 110-82-7 | | |
| 15.714 | 15.714 (1.020) | 84 | 716524 | 8.63860 | 8.639 | 80.00- 120.00 | 100.00 |
| 15.714 | 15.714 (1.020) | 56 | 971872 | | | 97.99- 157.99 | 135.64 |
| 15.714 | 15.714 (1.020) | 41 | 532513 | | | 37.94- 97.94 | 74.32 |
| 56 1,1,1-Trichloroethane | | | | | CAS #: 71-55-6 | | |
| 15.714 | 15.714 (1.020) | 97 | 1032394 | 8.54989 | 8.550 | 80.00- 120.00 | 100.00 |
| 15.714 | 15.714 (1.020) | 99 | 654434 | | | 34.37- 94.37 | 63.39 |
| 57 Carbon Tetrachloride | | | | | CAS #: 56-23-5 | | |
| 15.899 | 15.899 (1.032) | 119 | 615485 | 6.79901 | 6.799 | 80.00- 120.00 | 100.00(R) |
| 15.899 | 15.899 (1.032) | 117 | 636050 | | | 74.49- 134.49 | 103.34 |
| 59 2,2,4-Trimethylpentane | | | | | CAS #: 540-84-1 | | |
| 16.166 | 16.166 (1.049) | 56 | 1291729 | 10.1532 | 10.153 | 80.00- 120.00 | 100.00 |
| 16.166 | 16.166 (1.049) | 57 | 3752351 | | | 264.71- 324.71 | 290.49 |
| 16.166 | 16.166 (1.049) | 41 | 1010840 | | | 74.97- 134.97 | 78.25 |
| 60 Benzene | | | | | CAS #: 71-43-2 | | |
| 16.248 | 16.249 (0.966) | 78 | 1542952 | 9.00469 | 9.005 | 80.00- 120.00 | 100.00 |
| 16.248 | 16.249 (0.966) | 77 | 354952 | | | 0.00- 53.14 | 23.00 |
| 62 tert-amyl methyl ether | | | | | CAS #: 994-05-8 | | |
| 16.276 | 16.276 (0.967) | 87 | 277886 | 7.06496 | 7.065 | 80.00- 120.00 | 100.00 |
| 16.276 | 16.276 (0.967) | 73 | 1186558 | | | 388.88- 448.88 | 426.99 |
| 16.276 | 16.276 (0.967) | 55 | 357797 | | | 85.24- 145.24 | 128.76 |
| 63 1,2-Dichloroethane | | | | | CAS #: 107-06-2 | | |
| 16.358 | 16.358 (0.972) | 62 | 726589 | 8.97308 | 8.973 | 80.00- 120.00 | 100.00 |
| 16.358 | 16.358 (0.972) | 64 | 230512 | | | 2.07- 62.07 | 31.73 |
| 64 Heptane | | | | | CAS #: 142-82-5 | | |
| 16.413 | 16.413 (0.976) | 57 | 542868 | 9.50590 | 9.506 | 80.00- 120.00 | 100.00 |
| 16.413 | 16.413 (0.976) | 100 | 208948 | | | 11.16- 71.16 | 38.49 |

| RT | EXP RT (REL RT) | MASS | RESPONSE | CONCENTRATIONS ON-COL ( PPBV) | FINAL ( PPBV) | TARGET RANGE | RATIO |
|---|---|---|---|---|---|---|---|
| 64 Heptane (continued) | | | | | | | |
| 16.413 | 16.413 (0.976) | 43 | 1062323 | | | 158.27- 218.27 | 195.69 |
| 67 Trichloroethene | | | | | CAS #: 79-01-6 | | |
| 17.237 | 17.237 (1.024) | 130 | 660922 | 9.03296 | 9.033 | 80.00- 120.00 | 100.00 |
| 17.237 | 17.237 (1.024) | 95 | 675201 | | | 75.28- 135.28 | 102.16 |
| 17.237 | 17.237 (1.024) | 97 | 440002 | | | 37.01- 97.01 | 66.57 |
| 69 Methylcyclohexane | | | | | CAS #: 108-87-2 | | |
| 17.484 | 17.484 (1.039) | 83 | 931693 | 9.17467 | 9.175 | 80.00- 120.00 | 100.00 |
| 17.484 | 17.484 (1.039) | 98 | 442098 | | | 17.59- 77.59 | 47.45 |
| 17.484 | 17.484 (1.039) | 55 | 863198 | | | 57.89- 117.89 | 92.65 |
| 72 1,2-Dichloropropane | | | | | CAS #: 78-87-5 | | |
| 17.704 | 17.704 (1.052) | 63 | 620139 | 9.11125 | 9.111 | 80.00- 120.00 | 100.00 |
| 17.704 | 17.704 (1.052) | 62 | 462806 | | | 43.22- 103.22 | 74.63 |
| 17.704 | 17.704 (1.052) | 41 | 374492 | | | 30.82- 90.82 | 60.39 |
| 74 1,4-Dioxane | | | | | CAS #: 123-91-1 | | |
| 17.841 | 17.841 (1.060) | 88 | 346909 | 8.54712 | 8.547 | 80.00- 120.00 | 100.00 |
| 17.841 | 17.841 (1.060) | 58 | 278012 | | | 46.02- 106.02 | 80.14 |
| 17.841 | 17.841 (1.060) | 57 | 89055 | | | 0.00- 53.54 | 25.67 |
| 76 Bromodichloromethane | | | | | CAS #: 75-27-4 | | |
| 18.143 | 18.143 (1.078) | 83 | 1046214 | 8.92313 | 8.923 | 80.00- 120.00 | 100.00 |
| 18.143 | 18.143 (1.078) | 85 | 661282 | | | 33.96- 93.96 | 63.21 |
| 77 cis-1,3-Dichloropropene | | | | | CAS #: 10061-01-5 | | |
| 18.986 | 18.986 (1.128) | 75 | 822300 | 8.83942 | 8.839 | 80.00- 120.00 | 100.00 |
| 18.986 | 18.986 (1.128) | 77 | 258614 | | | 1.99- 61.99 | 31.45 |
| 18.986 | 18.986 (1.128) | 39 | 457183 | | | 26.06- 86.06 | 55.60 |
| 78 4-Methyl-2-pentanone | | | | | CAS #: 108-10-1 | | |
| 19.165 | 19.165 (1.139) | 43 | 1313550 | 9.33438 | 9.334 | 80.00- 120.00 | 100.00 |
| 19.165 | 19.165 (1.139) | 58 | 500686 | | | 10.31- 70.31 | 38.12 |
| 19.165 | 19.187 (1.139) | 85 | 192776 | | | 0.00- 46.66 | 14.68 |
| 81 Toluene | | | | | CAS #: 108-88-3 | | |
| 19.523 | 19.524 (1.160) | 91 | 1721926 | 8.78683 | 8.787 | 80.00- 120.00 | 100.00 |
| 19.523 | 19.524 (1.160) | 92 | 1039416 | | | 30.18- 90.18 | 60.36 |
| 82 trans-1,3-Dichloropropene | | | | | CAS #: 10061-02-6 | | |
| 19.910 | 19.910 (0.921) | 75 | 847752 | 9.06690 | 9.067 | 80.00- 120.00 | 100.00 |
| 19.910 | 19.910 (0.921) | 77 | 265338 | | | 1.51- 61.51 | 31.30 |
| 19.910 | 19.910 (0.921) | 39 | 447423 | | | 23.29- 83.29 | 52.78 |

| RT | EXP RT (REL RT) | MASS | RESPONSE | CONCENTRATIONS ON-COL ( PPBV) | CONCENTRATIONS FINAL ( PPBV) | TARGET RANGE | RATIO |
|---|---|---|---|---|---|---|---|
| 83 1,1,2-Trichloroethane | | | | | CAS #: 79-00-5 | | |
| 20.203 | 20.203 (0.935) | 97 | 632162 | 8.49546 | 8.495 | 80.00- 120.00 | 100.00 |
| 20.203 | 20.203 (0.935) | 99 | 389126 | | | 32.01- 92.01 | 61.55 |
| 20.203 | 20.203 (0.935) | 83 | 550141 | | | 56.19- 116.19 | 87.03 |
| 84 Tetrachloroethene | | | | | CAS #: 127-18-4 | | |
| 20.365 | 20.365 (0.942) | 166 | 755806 | 8.81125 | 8.811 | 80.00- 120.00 | 100.00 |
| 20.333 | 20.333 (0.941) | 129 | 590823 | | | 48.84- 108.84 | 78.17 |
| 20.333 | 20.333 (0.941) | 131 | 572745 | | | 46.09- 106.09 | 75.78 |
| 85 2-Hexanone | | | | | CAS #: 591-78-6 | | |
| 20.495 | 20.495 (0.948) | 58 | 706728 | 9.47656 | 9.476 | 80.00- 120.00 | 100.00 |
| 20.495 | 20.495 (0.948) | 43 | 1308725 | | | 132.91- 192.91 | 185.18 |
| 20.495 | 20.495 (0.948) | 100 | 132740 | | | 0.00- 49.97 | 18.78 |
| 86 Dibromochloromethane | | | | | CAS #: 124-48-1 | | |
| 20.788 | 20.788 (0.962) | 129 | 967155 | 8.81254 | 8.812 | 80.00- 120.00 | 100.00 |
| 20.788 | 20.788 (0.962) | 127 | 751887 | | | 48.12- 108.12 | 77.74 |
| 87 1,2-Dibromoethane | | | | | CAS #: 106-93-4 | | |
| 21.016 | 21.016 (0.972) | 107 | 932049 | 8.78921 | 8.789 | 80.00- 120.00 | 100.00 |
| 21.016 | 21.016 (0.972) | 109 | 884498 | | | 64.41- 124.41 | 94.90 |
| 89 Chlorobenzene | | | | | CAS #: 108-90-7 | | |
| 21.638 | 21.638 (1.001) | 112 | 1352126 | 8.95559 | 8.956 | 80.00- 120.00 | 100.00 |
| 21.638 | 21.638 (1.001) | 114 | 430682 | | | 2.00- 62.00 | 31.85 |
| 21.638 | 21.638 (1.001) | 77 | 864431 | | | 33.56- 93.56 | 63.93 |
| 91 Ethyl Benzene | | | | | CAS #: 100-41-4 | | |
| 21.710 | 21.711 (1.004) | 106 | 683846 | 8.82804 | 8.828 | 80.00- 120.00 | 100.00 |
| 21.710 | 21.711 (1.004) | 91 | 2195229 | | | 291.22- 351.22 | 321.01 |
| 93 m,p-Xylene | | | | | CAS #: 108-38-3 | | |
| 21.855 | 21.855 (1.011) | 106 | 757420 | 8.94210 | 8.942 | 80.00- 120.00 | 100.00 |
| 21.855 | 21.855 (1.011) | 91 | 1531723 | | | 173.15- 233.15 | 202.23 |
| 94 o-Xylene | | | | | CAS #: 95-47-6 | | |
| 22.385 | 22.385 (1.036) | 106 | 737566 | 9.05047 | 9.050 | 80.00- 120.00 | 100.00 |
| 22.385 | 22.385 (1.036) | 91 | 1591285 | | | 185.20- 245.20 | 215.75 |
| 95 Styrene | | | | | CAS #: 100-42-5 | | |
| 22.409 | 22.409 (1.037) | 104 | 1136836 | 8.58261 | 8.583 | 80.00- 120.00 | 100.00 |
| 22.409 | 22.409 (1.037) | 78 | 593610 | | | 21.95- 81.95 | 52.22 |
| 97 Bromoform | | | | | CAS #: 75-25-2 | | |
| 22.707 | 22.707 (1.051) | 173 | 865642 | 9.25374 | 9.254 | 80.00- 120.00 | 100.00 |

| RT | EXP RT (REL RT) | MASS | RESPONSE | CONCENTRATIONS ON-COL ( PPBV) | FINAL ( PPBV) | TARGET RANGE | RATIO |
|---|---|---|---|---|---|---|---|
| 97 Bromoform (continued) | | | | | | | |
| 22.707 | 22.707 (1.051) | 171 | 446531 | | | 22.12- 82.12 | 51.58 |
| 98 Cumene | | | | | CAS #: 98-82-8 | | |
| 22.810 | 22.810 (1.055) | 105 | 2183197 | 8.92373 | 8.924 | 80.00- 120.00 | 100.00 |
| 22.810 | 22.810 (1.055) | 120 | 568115 | | | 0.00- 56.13 | 26.02 |
| 103 1,1,2,2-Tetrachloroethane | | | | | CAS #: 79-34-5 | | |
| 23.197 | 23.197 (1.073) | 83 | 1308127 | 9.26276 | 9.263 | 80.00- 120.00 | 100.00 |
| 23.197 | 23.197 (1.073) | 85 | 830387 | | | 34.44- 94.44 | 63.48 |
| 104 Propylbenzene | | | | | CAS #: 103-65-1 | | |
| 23.274 | 23.274 (1.077) | 91 | 2296176 | 9.07033 | 9.070 | 80.00- 120.00 | 100.00 |
| 23.274 | 23.274 (1.077) | 120 | 502609 | | | 0.00- 52.40 | 21.89 |
| 107 4-Ethyltoluene | | | | | CAS #: 622-96-8 | | |
| 23.403 | 23.403 (1.083) | 105 | 1798842 | 7.78582 | 7.786 | 80.00- 120.00 | 100.00 |
| 23.403 | 23.403 (1.083) | 120 | 530033 | | | 0.31- 60.31 | 29.47 |
| 109 1,3,5-Trimethylbenzene | | | | | CAS #: 108-67-8 | | |
| 23.455 | 23.455 (1.085) | 105 | 1664767 | 9.12123 | 9.121 | 80.00- 120.00 | 100.00 |
| 23.455 | 23.455 (1.085) | 120 | 788640 | | | 18.26- 78.26 | 47.37 |
| 112 1,2,4-Trimethylbenzene | | | | | CAS #: 95-63-6 | | |
| 23.893 | 23.893 (1.105) | 105 | 1438323 | 8.44355 | 8.444 | 80.00- 120.00 | 100.00 |
| 23.893 | 23.893 (1.105) | 120 | 643260 | | | 15.25- 75.25 | 44.72 |
| 115 1,3-Dichlorobenzene | | | | | CAS #: 541-73-1 | | |
| 24.254 | 24.255 (1.122) | 146 | 975568 | 8.14718 | 8.147 | 80.00- 120.00 | 100.00 |
| 24.254 | 24.255 (1.122) | 148 | 615295 | | | 33.56- 93.56 | 63.07 |
| 24.254 | 24.255 (1.122) | 111 | 428527 | | | 14.68- 74.68 | 43.93 |
| 117 1,4-Dichlorobenzene | | | | | CAS #: 106-46-7 | | |
| 24.358 | 24.358 (1.127) | 146 | 912153 | 8.48380 | 8.484 | 80.00- 120.00 | 100.00 |
| 24.358 | 24.358 (1.127) | 148 | 573543 | | | 33.39- 93.39 | 62.88 |
| 24.358 | 24.358 (1.127) | 111 | 382475 | | | 12.70- 72.70 | 41.93 |
| 118 alpha-chlorotoluene | | | | | CAS #: 100-44-7 | | |
| 24.512 | 24.512 (1.134) | 91 | 1447954 | 8.75091 | 8.751 | 80.00- 120.00 | 100.00 |
| 24.512 | 24.512 (1.134) | 126 | 284299 | | | 0.00- 49.37 | 19.63 |
| 121 1,2-Dichlorobenzene | | | | | CAS #: 95-50-1 | | |
| 24.796 | 24.770 (1.147) | 146 | 875763 | 8.31381 | 8.314 | 80.00- 120.00 | 100.00 |
| 24.796 | 24.770 (1.147) | 148 | 552816 | | | 33.70- 93.70 | 63.12 |
| 24.770 | 24.770 (1.146) | 111 | 397135 | | | 15.32- 75.32 | 45.35 |

| RT | EXP RT (REL RT) | MASS | RESPONSE | CONCENTRATIONS ON-COL ( PPBV) | FINAL ( PPBV) | TARGET RANGE | RATIO |
|---|---|---|---|---|---|---|---|
| 126 1,2,4-Trichlorobenzene | | | | | CAS #: 120-82-1 | | |
| 26.524 | 26.524 (1.227) | 180 | 638956 | 10.5441 | 10.544 | 80.00- 120.00 | 100.00 |
| 26.524 | 26.524 (1.227) | 182 | 601963 | | | 62.96- 122.96 | 94.21 |
| 128 Hexachlorobutadiene | | | | | CAS #: 87-68-3 | | |
| 26.627 | 26.627 (1.232) | 225 | 494583 | 10.9446 | 10.944 | 80.00- 120.00 | 100.00 |
| 26.627 | 26.627 (1.232) | 223 | 313280 | | | 34.16- 94.16 | 63.34 |
| 129 Naphthalene | | | | | CAS #: 91-20-3 | | |
| 26.859 | 26.859 (1.243) | 128 | 1499663 | 11.8572 | 11.857 | 80.00- 120.00 | 100.00 |
| 26.859 | 26.859 (1.243) | 127 | 185662 | | | 0.00- 42.68 | 12.38 |

QC Flag Legend

R - Spike/Surrogate failed recovery limits.

Air Toxics Ltd.

AMBIENT AIR METHOD TO14/TO15

Data file : /chem/msda.i/01Sep2011.b/a090104.d
Lab Smp Id: LCS Client Smp ID: LCSD
Inj Date : 01-SEP-2011 09:56
Operator : dfm Inst ID: msda.i
Smp Info : 50mL #2296-133
Misc Info : 10ppbv (50ppbv)
Comment :
Method : /chem/msda.i/01Sep2011.b/a11l0818b.m
Meth Date : 07-Sep-2011 14:20 ejakob Quant Type: ISTD
Cal Date : 31-AUG-2011 12:17 Cal File: a083107.d
Als bottle: 16 QC Sample: LCSD
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AT09.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

- NO TENTATIVELY IDENTIFIED COMPOUNDS -

Report Date: 07-Sep-2011 14:20

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msda.i
Lab File ID: a090104.d
Lab Smp Id: LCS
Analysis Type: VOA
Quant Type: ISTD
Operator: dfm
Method File: /chem/msda.i/01Sep2011.b/a11l0818b.m
Misc Info: 10ppbv (50ppbv)

Calibration Date: 01-SEP-2011
Calibration Time: 08:06
Client Smp ID: LCSD
Level: LOW
Sample Type: AIR

| | | AREA LIMIT | | | |
|---|---|---|---|---|---|
| COMPOUND | STANDARD | LOWER | UPPER | SAMPLE | %DIFF |
| 52 Bromochloromethan | 204525 | 122715 | 286335 | 198744 | -2.83 |
| 66 1,4-Difluorobenze | 937041 | 562225 | 1311857 | 922556 | -1.55 |
| 88 Chlorobenzene-d5 | 804938 | 482963 | 1126913 | 794279 | -1.32 |

| | | RT LIMIT | | | |
|---|---|---|---|---|---|
| COMPOUND | STANDARD | LOWER | UPPER | SAMPLE | %DIFF |
| 52 Bromochloromethan | 15.41 | 15.08 | 15.74 | 15.41 | 0.00 |
| 66 1,4-Difluorobenze | 16.83 | 16.50 | 17.16 | 16.82 | 0.00 |
| 88 Chlorobenzene-d5 | 21.61 | 21.28 | 21.94 | 21.61 | 0.00 |

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

'£

Data File: /chem/msda.i/01Sep2011.b/a090104.d



Date : 01-SEP-2011 09:56

Client ID: LCSD

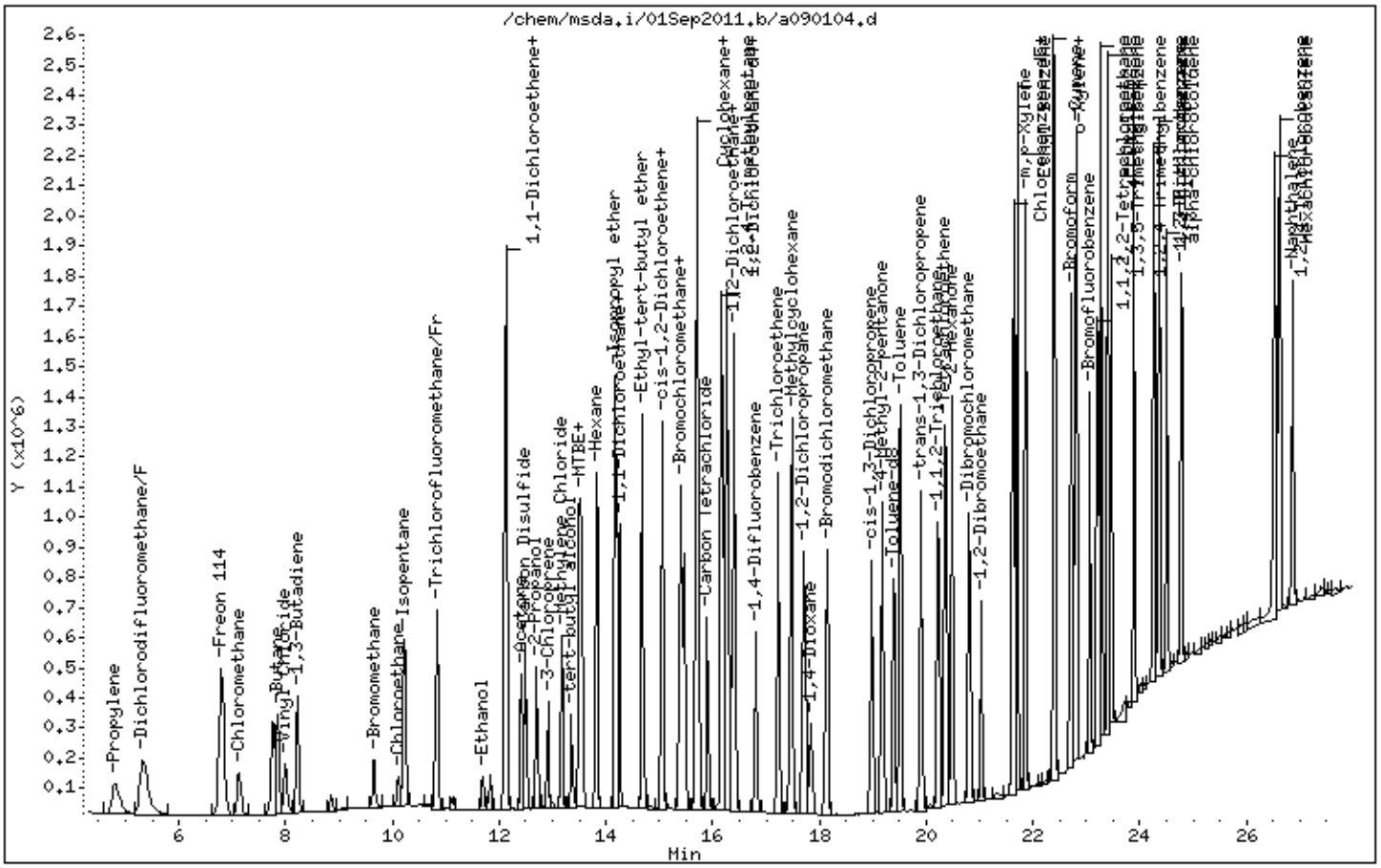
Instrument: msda.i

Sample Info: 50mL #2296-133

Operator: dfm

Column phase: RTx-624

Column diameter: 0.32



| | |
|---|---|
| BFB Verification of 176/174 m/z Ratio: 410676 / 426538 ×100 = 96.2806 | |
| Tekmar Purge Flow: | |
| Vacuum: 8/31/11 | |

| | |
|---|---|
| IS/S Std. #: 2296-38 | Exp. Date: 9/30/11 |
| BCM 206450 LL | 221685 D/M |
| 1,4-DFB 897592 | 954793 |
| CB-d5 792197 | 820937 |

Verified CCV IS vs ICAL mid-point (-40%D): DM

| |
|---|
| File ID: A083102 |
| Compound: Toluene-d8 |
| Initials: DM 8/31/11 |

Method Name: AIL08182/AIS0818A

**Calculation Check:**

ppbv of compound = $\frac{\text{Area}_{\text{Sample}}}{\text{Area}_{\text{IS}}} \times \frac{\text{Conc}_{\text{IS}}}{\text{RRF}} = \frac{(883349)}{(897592)} \times \frac{(10.00)}{(0.97172)} = 10.128$

Reported Result: 10.128

| | Use | File | Sample/Client Name | Can# | Pressure | Amt. Loaded | DF | Loaded By Init. | Date Analyzed | Time Analyzed | Reviewed By Init. | Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | ✓ | A083101 | BFB Tune Check | 14762228 | 50ng | 2µL | 1.00 | CR | 08/31/11 | 0731 | CR | |
| 2 | ✓ | 02 | CCV (50ppbv) | 2296-84 | 10ppbv | 50mL | 1.00 | CR | | 0801 | RH | LL: EtOH ↑ |
| 3 | ✓ | 03 | LCS (50ppbv) | 2296-133 | 10ppbv | 50mL | 1.00 | RH | | 0837 | DM/JC | ↓ |
| 4 | ✓ | 04 | LCSD (50ppbv) | ( 1 ) | ↓ | 1 | ↓ | DM | | 0932 | DM/JC | |
| 5 | ✓ | 05 | ICAL Level 6 | 2296-177 | 0.5 ppbv | 62.5uL | | | | 1049 | RH | |
| 6 | ✓ | 06 | ↓ 12 | ↓ | 1.0 ppbv | 125uL | | | | 1139 | RH | SpAT3CCV |
| 7 | ✓ | 07 | ↓ 7 | ↓ | 2.0 ppbv | 250mL | | ↓ | | 1217 | RH | |
| 8 | ✓ | 08 | System Blank | N/A | Dry | 250mL | | RH | | 1316 | JC | |
| 9 | ✓ | 09 | Lab Blank | 9936 | Humid | 250mL | ↓ | JC | | 1400 | JC | |
| 10 | ✗ | 10 | 1108582-01A | 25250 | 7.5"Hg-5psi | 50mL | 8.95 | JC | | 1452 | JC | DT-PCE, over diluted |
| 11 | ✓ | 11 | -01A | 25250 | 7.5"Hg-5psi | 250mL | 1.79 | JC | | 1544 | JC | "6"-Acetone |
| 12 | ✓ | 12 | -02A | 34006 | 7"Hg-5psi | 50mL | 8.75 | JC | | 1625 | JC | "6"-Acetone, DT-BCE2 |
| 13 | ✓ | 13 | -03A | 33325 | 6"Hg-5psi | 125mL | 3.36 | JC | | 1722 | JC | ~~DT-NT~~, "6"-Acet. |
| 14 | ✓ | 14 | -04A | 34467 | 6"Hg-5psi | 50mL | 8.40 | JC | ↓ | 1805 | JC | ~~DT-PCE~~ 9-17-11, "6"-Acet. |

Signed 8/31/2011 Date

Reviewed 8/31/11 Date

| | Use | File | Sample/Client Name | Can# | Pressure | Amt. Loaded | DF | Loaded By Init. | Date Analyzed | Time Analyzed | Reviewed By Init. | Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 15 | X | A083115 | 1108582-07A | 34008 | 6"Hg-5psi | 50mL | 8.40 | JC | 8/31/11 | 1847 | JC | D/T-Matrix, "E" flags |
| 16 | ✓ | 16 | System Blank | 9936 | Humid | 250mL | 1.00 | JC | ↓ | 1944 | JC | |
| 17 | ✓ | 17 | 1108582-07A | 34008 | 6"Hg-5psi | 12.5mL | 33.6 | JC | ↓ | 2038 | JC | "E"-Acet. D/T-1500psi, 2methylpent. |
| 18 | ✓ | 18 | ↓ -08A | 9561 | 6"Hg-5psi | 12.5mL | 3.36 | JC | ↓ | 2118 | JC | "6"-Acet., D/T-matrix |
| 19 | | | | | | | | | | | | |
| 20 | | | | | | | | | | | | |
| 21 | | | | | | | | | | | | |
| 22 | | | | | | | | | | | | |
| 23 | | | | | | | | | | | | |
| 24 | | | | | | | | | | | | |
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| 26 | | | | | | | | | | | | |
| 27 | | | | | | | | | | | | |
| 28 | | | | | | | | | | | | |
| 29 | | | | | | | | | | | | |
| 30 | | | | | | | | | | | | |
| 31 | | | | | | | | | | | | |
| 32 | | | | | | | | | | | | |
| 33 | | | | | | | | | | | | |
| 34 | | | | | | | | | | | | |
| 35 | | | | | | | | | | | | |
| 36 | | | | | | | | | | | | JC 8/31/11 |

Signed — 8/31/11 Date — Reviewed — 8/31/11 Date

| BFB Verification of 176/174 m/z Ratio: (489391/508821)100 = 96.18/SC |
|---|
| Tekmar Purge Flow: NA |
| Vacuum: N/A |

| IS/S Std. #: 2296-38 | Exp. Date: 09/30/11 |
|---|---|
| BCM LL204525 | 217281 |
| 1,4-DFB 937041 | 986035 |
| CB-d5 804938 | 857609 |

Verified CCV IS vs ICAL mid-point (-40%D): M

| File ID: A090102 |
|---|
| Compound: Toluene-d8 |
| Initials: JC |

Method Name: A11L0818B/A11SC818A

**Calculation Check:**

ppbv of compound = $\frac{\text{Area}_{\text{Sample}}}{\text{Area}_{\text{IS}}} \times \frac{\text{Conc}_{\text{IS}}}{\text{RRF}} = \frac{(919360)}{(937041)} \times \frac{(10.00)}{(0.974 \times 2.4)} = 10.092$

Reported Result: 10.092

| | Use | File | Sample/Client Name | Can# | Pressure | Amt. Loaded | DF | Loaded By Init. | Date Analyzed | Time Analyzed | Reviewed By Init. | Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | ✓ | A090101 | BFB Tune Check | 1476-2228 | 50ng | 2µL | 1.00 | CR | 09/01/11 | 0749 | CR | |
| 2 | ✓ | 02 | CCV (50ppbv) | 2296-84 | 10ppbv | 50mL | 1.00 | CR | | 0806 | DM JC | |
| 3 | ✓ | 03 | LCS (50ppbv) | 2296-133 | " | " | | DM | | 0919 | DM JC | |
| 4 | ✓ | 04 | LCSD (50ppbv) | " | " | " | | | | 0956 | DM JC | |
| 5 | ✓ | 05 | CCVsp (2.0ppbv) | 2296-177 | 1.0ppbv | 125mL | | | | 1051 | DM JC | 6 out + AT-3 |
| 6 | ✓ | 06 | System Blank | N/A | Dry | 250mL | | | | 1158 | DM JC | |
| 7 | ✓ | 07 | Lab Blank | 9936 | HUMID | 250mL | ↓ | ↓ | | 1252 | DM JC | |
| 8 | ✓ | 08 | 1108582-05A | 12045 | 5.5"Hg-5psi | 25mL | 16.4 | JC | | 1357 | JC | 6" 5 1/2 gs, n @ 13.5mL |
| 9 | ✓ | 09 | System Blank | 9936 | Humid | 250mL | 1.00 | JC | | 1501 | JC | CR 09/02/11 |
| 10 | ✓ | 10 | 1108582-05A | 12045 | 5.5"Hg-5psi | 12.5mL | 32.8 | JC | | 1539 | JC | 6" 5 1/2 g - 15 gent, Acet. |
| 11 | ✓ | 11 | System Blank | 9936 | Humid | 250mL | 1.00 | JC | | 1641 | JC | |
| 12 | — | ~~12~~ | ~~1108582-06A~~ | ~~9557~~ | ~~6.5"Hg-5psi~~ | 12.5mL | 32.8 | | | | | not baked JC 9/1/11 |
| 13 | ✓ | 12 | Manifold #8 | 4176 | N/A | 250mL | 1.00 | JC | | 1732 | JC | OK - 3 gpt (cert) |
| 14 | ✓ | 13 | Manifold #3 | 33899 | N/A | 250mL | 1.00 | JC | ↓ | 1808 | JC | OK - 3 gpt (cert) |

CR 09/02/11

Signed 9/1/11 Date

Reviewed 9/4/11 Date

@ Air Toxics Ltd. MSD-A Logbook #: 2312

0682 of 0747

| | Use | File | Sample/Client Name | Can# | Pressure | Amt. Loaded | DF | Loaded By Init. | Date Analyzed | Time Analyzed | Reviewed By Init. | Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 15 | X | A090114 | 1108582-06A | 9557 | 6.5" Hg-5psi | 12.5mL | ~~32.8~~ 34.2 | ~~JC~~ 9/1/11 JC | 9/1/11 | 1921 | JC | DF = 34.2, was diluted |
| 16 | ✓ | ↓ 15 | ↓ ~~06A~~ | 9557 | 6.5" Hg-5psi | 62.5mL | 6.84 | JC | ↓ | 1959 | JC | DF-Acet., "E"-Acet. |
| 17 | | 16 | TPHg CCV (2500ppbv) | 2296-222 | 125 psiv | 12.5mL | 1.00 | JC | | | | calib. |
| 18 | | 17 | Lab Blank | 9936 | Humid | 250mL | 1.00 | JC | | | | |
| 19 | | 18 | | | | | | | | | | |
| 20 | | | | | | | | | | | | |
| 21 | | | | | | | | | | | | |
| 22 | | | | | | | | | | | | |
| 23 | | | | | | | | | | | | |
| 24 | | | | | | | | | | | | |
| 25 | | | | | | | | | | | | |
| 26 | | | | | | | | | | | | |
| 27 | | | | | | | | | | | | |
| 28 | | | | | | | | | | | | |
| 29 | | | | | | | | | | | | |
| 30 | | | | | | | | | | | | |
| 31 | | | | | | | | | | | | |
| 32 | | | | | | | | | | | | |
| 33 | | | | | | | | | | | | |
| 34 | | | | | | | | | | | | |
| 35 | | | | | | | | | | | | |
| 36 | | | | | | | | | | | | JC 9/1/11 |

Signed 9/4/11 Date Reviewed 9/1/11 Date

Air Toxics Ltd.

Data file : /var/chem/msda.i/18Aug2011.b/a081801.d
Lab Smp Id: Client Smp ID: BFB
Inj Date : 18-AUG-2011 12:40
Operator : cr Inst ID: msda.i
Smp Info : 2.0µL #1476-2228; BFB tune check; BFB Tune ch
Misc Info : 50ng
Comment :
Method : /var/chem/msda.i/18Aug2011.b/bfb60.m
Meth Date : 18-Aug-2011 12:41 Quant Type: ESTD
Cal Date : Cal File:
Als bottle: 20 QC Sample: BFB
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.50 Sample Matrix: WATER
Processing Host: eeyore

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

| Name | Value | Description |
|---|---|---|
| DF | 1.00000 | Dilution Factor |
| Uf | 1.00000 | ng unit correction factor |
| Vf | 1.00000 | Volumetric correction factor |
| Vi | 1.00000 | Injection Volume |

Cpnd Variable Local Compound Variable

| RT | EXP RT | DLT RT | MASS | RESPONSE | CONCENTRATIONS ON-COL ( ug/L) | CONCENTRATIONS FINAL ( ug/L) | TARGET RANGE | RATIO |
|---|---|---|---|---|---|---|---|---|
| 1 bfb | | | | | | | CAS #: 460-00-4 | |
| 6.948 | 6.784 | 0.164 | 95 | 788992 | | | 100.00- 100.00 | 100.00 |
| 6.948 | 6.784 | 0.164 | 50 | 159997 | | | 15.00- 40.00 | 20.28 |
| 6.948 | 6.784 | 0.164 | 75 | 392077 | | | 30.00- 60.00 | 49.69 |
| 6.948 | 6.784 | 0.164 | 96 | 54858 | | | 5.00- 9.00 | 6.95 |
| 6.948 | 6.784 | 0.164 | 173 | 3813 | | | 0.00- 1.99 | 0.74 |
| 6.948 | 6.784 | 0.164 | 174 | 512033 | | | 50.01- 100.00 | 64.90 |
| 6.948 | 6.784 | 0.164 | 175 | 37678 | | | 5.00- 9.00 | 7.36 |
| 6.948 | 6.784 | 0.164 | 176 | 492533 | | | 95.01- 100.99 | 96.19 |
| 6.948 | 6.784 | 0.164 | 177 | 31723 | | | 5.00- 9.00 | 6.44 |

Data File: /var/chem/msda.i/18Aug2011.b/a081801.d 

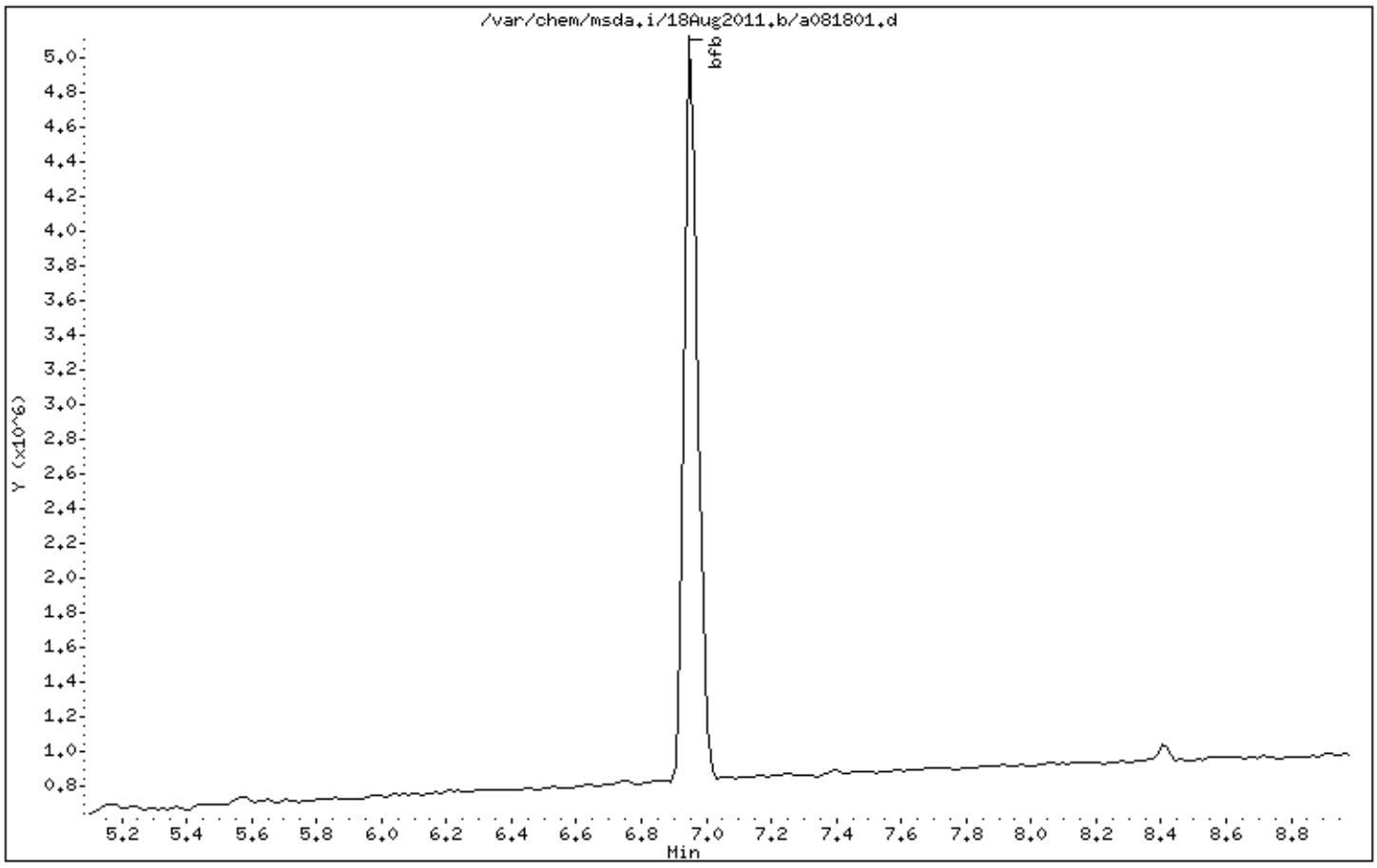
Date : 18-AUG-2011 12:40

Client ID: BFB Instrument: msda.i

Sample Info: 2.0L #1476-2228; BFB tune check; BFB Tune ch

Volume Injected (uL): 1.0 Operator: cr

Column phase: Column diameter: 2.00



Data File: /var/chem/msda.i/18Aug2011.b/a081801.d

Date : 18-AUG-2011 12:40

Client ID: BFB

Instrument: msda.i

Sample Info: 2.0

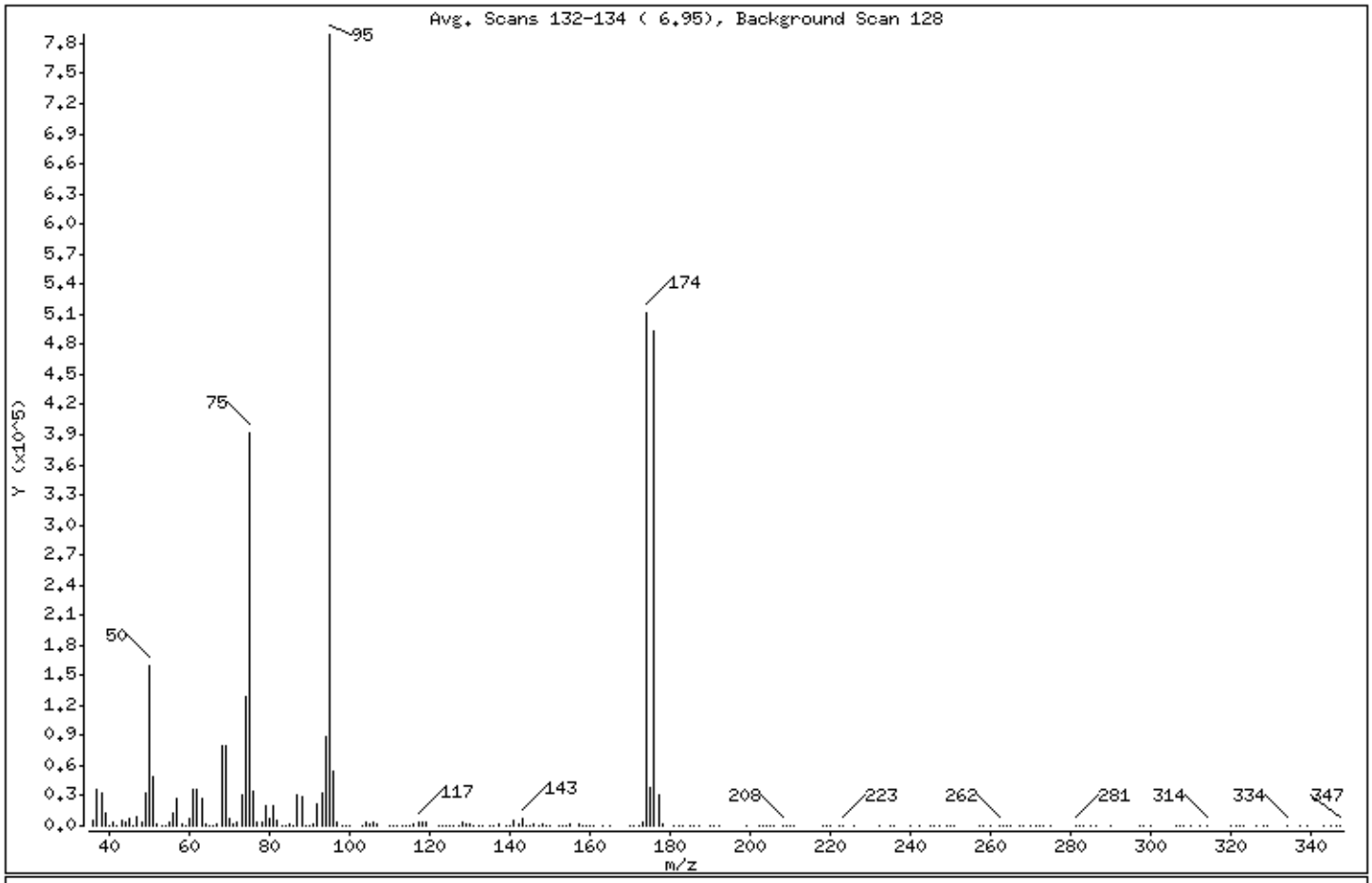
Volume Injected (uL): 1.0

Operator: cr

Column phase:

Column diameter: 2.00

1 bfb




| m/e | ION ABUNDANCE CRITERIA | % RELATIVE ABUNDANCE |
|---|---|---|
| 95 | Base Peak, 100% relative abundance | 100.00 |
| 50 | 15.00 - 40.00% of mass 95 | 20.28 |
| 75 | 30.00 - 60.00% of mass 95 | 49.69 |
| 96 | 5.00 - 9.00% of mass 95 | 6.95 |
| 173 | Less than 1.99% of mass 174 | 0.48 ( 0.74) |
| 174 | 50.01 - 100.00% of mass 95 | 64.90 |
| 175 | 5.00 - 9.00% of mass 174 | 4.78 ( 7.36) |
| 176 | 95.01 - 100.99% of mass 174 | 62.43 ( 96.19) |
| 177 | 5.00 - 9.00% of mass 176 | 4.02 ( 6.44) |

Date : 18-AUG-2011 12:40

Client ID: BFB Instrument: msda.i

Sample Info: 2.0mL #1476-2228; BFB tune check; BFB Tune ch

Volume Injected (uL): 1.0 Operator: cr

Column phase: Column diameter: 2.00

Data File: a081801.d
Spectrum: Avg. Scans 132-134 ( 6.95), Background Scan 128
Location of Maximum: 95.00
Number of points: 206

| m/z | Y | m/z | Y | m/z | Y | m/z | Y |
|---|---|---|---|---|---|---|---|
| 36.00 | 6262 | 88.00 | 28544 | 148.00 | 1353 | 242.00 | 111 |
| 37.00 | 36584 | 89.00 | 51 | 149.00 | 398 | 245.00 | 53 |
| 38.00 | 32792 | 90.00 | 84 | 150.00 | 608 | 246.00 | 19 |
| 39.00 | 13268 | 91.00 | 1704 | 152.00 | 185 | 247.00 | 47 |
| 40.00 | 611 | 92.00 | 20992 | 153.00 | 472 | 249.00 | 244 |
| 41.00 | 2997 | 93.00 | 31968 | 154.00 | 385 | 250.00 | 266 |
| 42.00 | 697 | 94.00 | 89600 | 155.00 | 1538 | 251.00 | 57 |
| 43.00 | 5027 | 95.00 | 788992 | 157.00 | 1020 | 257.00 | 24 |
| 44.00 | 4519 | 96.00 | 54856 | 158.00 | 128 | 258.00 | 28 |
| 45.00 | 6750 | 97.00 | 4354 | 159.00 | 867 | 260.00 | 98 |
| 46.00 | 415 | 98.00 | 358 | 160.00 | 54 | 262.00 | 270 |
| 47.00 | 9702 | 99.00 | 372 | 161.00 | 687 | 263.00 | 14 |
| 48.00 | 4502 | 100.00 | 11 | 163.00 | 317 | 264.00 | 45 |
| 49.00 | 33536 | 103.00 | 228 | 165.00 | 141 | 265.00 | 120 |
| 50.00 | 159936 | 104.00 | 2752 | 170.00 | 135 | 267.00 | 187 |
| 51.00 | 49176 | 105.00 | 1246 | 171.00 | 136 | 268.00 | 31 |
| 52.00 | 2075 | 106.00 | 2995 | 172.00 | 169 | 270.00 | 137 |
| 53.00 | 377 | 107.00 | 1013 | 173.00 | 3813 | 271.00 | 315 |
| 54.00 | 271 | 110.00 | 447 | 174.00 | 512000 | 272.00 | 45 |
| 55.00 | 2749 | 111.00 | 523 | 175.00 | 37672 | 273.00 | 15 |
| 56.00 | 12637 | 112.00 | 625 | 176.00 | 492480 | 275.00 | 58 |
| 57.00 | 27064 | 113.00 | 603 | 177.00 | 31720 | 281.00 | 408 |
| 58.00 | 1049 | 114.00 | 94 | 178.00 | 1040 | 282.00 | 22 |
| 59.00 | 345 | 115.00 | 643 | 181.00 | 8 | 283.00 | 28 |
| 60.00 | 6929 | 116.00 | 2621 | 182.00 | 24 | 285.00 | 74 |
| 61.00 | 35784 | 117.00 | 4144 | 183.00 | 66 | 286.00 | 25 |
| 62.00 | 36560 | 118.00 | 2779 | 185.00 | 61 | 290.00 | 13 |
| 63.00 | 27240 | 119.00 | 2862 | 186.00 | 134 | 297.00 | 84 |
| 64.00 | 2374 | 122.00 | 148 | 187.00 | 143 | 298.00 | 51 |
| 65.00 | 53 | 123.00 | 118 | 190.00 | 70 | 300.00 | 241 |
| 66.00 | 70 | 124.00 | 411 | 191.00 | 234 | 306.00 | 59 |
| 67.00 | 2077 | 125.00 | 285 | 192.00 | 75 | 307.00 | 47 |
| 68.00 | 80128 | 126.00 | 611 | 199.00 | 64 | 308.00 | 18 |
| 69.00 | 80384 | 127.00 | 194 | 202.00 | 32 | 310.00 | 103 |
| 70.00 | 7256 | 128.00 | 3593 | 203.00 | 36 | 312.00 | 46 |

Date : 18-AUG-2011 12:40

Client ID: BFB Instrument: msda.i

Sample Info: 2.0mL #1476-2228; BFB tune check; BFB Tune ch

Volume Injected (uL): 1.0 Operator: cr

Column phase: Column diameter: 2.00

Data File: a081801.d
Spectrum: Avg. Scans 132-134 ( 6.95), Background Scan 128
Location of Maximum: 95.00
Number of points: 206

| m/z | Y | m/z | Y | m/z | Y | m/z | Y |
|---|---|---|---|---|---|---|---|
| 71.00 | 2441 | 129.00 | 1176 | 204.00 | 148 | 314.00 | 275 |
| 72.00 | 3803 | 130.00 | 2335 | 205.00 | 76 | 320.00 | 80 |
| 73.00 | 30816 | 131.00 | 769 | 206.00 | 434 | 321.00 | 74 |
| 74.00 | 128960 | 132.00 | 145 | 208.00 | 680 | 322.00 | 85 |
| 75.00 | 392064 | 133.00 | 112 | 209.00 | 55 | 323.00 | 127 |
| 76.00 | 34400 | 135.00 | 833 | 210.00 | 60 | 326.00 | 162 |
| 77.00 | 4018 | 136.00 | 196 | 211.00 | 32 | 328.00 | 55 |
| 78.00 | 2827 | 137.00 | 972 | 218.00 | 58 | 329.00 | 47 |
| 79.00 | 20680 | 139.00 | 597 | 219.00 | 3 | 334.00 | 347 |
| 80.00 | 6748 | 140.00 | 212 | 220.00 | 119 | 337.00 | 26 |
| 81.00 | 20856 | 141.00 | 6340 | 222.00 | 38 | 339.00 | 50 |
| 82.00 | 5277 | 142.00 | 1192 | 223.00 | 198 | 343.00 | 344 |
| 83.00 | 626 | 143.00 | 6863 | 226.00 | 123 | 345.00 | 59 |
| 84.00 | 628 | 144.00 | 342 | 232.00 | 109 | 346.00 | 52 |
| 85.00 | 1290 | 145.00 | 491 | 235.00 | 111 | 347.00 | 16 |
| 86.00 | 778 | 146.00 | 980 | 236.00 | 60 | | |
| 87.00 | 31232 | 147.00 | 63 | 240.00 | 16 | | |

Air Toxics Ltd.

Data file : /var/chem/msda.i/19Aug2011.b/a081901.d
Lab Smp Id: Client Smp ID: BFB
Inj Date : 19-AUG-2011 11:09
Operator : cr Inst ID: msda.i
Smp Info : 2.0µL #1476-2228; BFB tune check; BFB Tune ch
Misc Info : 50ng
Comment :
Method : /var/chem/msda.i/19Aug2011.b/bfb60.m
Meth Date : 19-Aug-2011 11:10 Quant Type: ESTD
Cal Date : Cal File:
Als bottle: 20 QC Sample: BFB
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.50 Sample Matrix: WATER
Processing Host: eeyore

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

| Name | Value | Description |
|---|---|---|
| DF | 1.00000 | Dilution Factor |
| Uf | 1.00000 | ng unit correction factor |
| Vf | 1.00000 | Volumetric correction factor |
| Vi | 1.00000 | Injection Volume |

Cpnd Variable Local Compound Variable

| RT | EXP RT | DLT RT | MASS | RESPONSE | CONCENTRATIONS ON-COL ( ug/L) | CONCENTRATIONS FINAL ( ug/L) | TARGET RANGE | RATIO |
|---|---|---|---|---|---|---|---|---|
| 1 bfb | | | | | | | CAS #: 460-00-4 | |
| 6.948 | 6.784 | 0.164 | 95 | 996352 | | | 100.00- 100.00 | 100.00 |
| 6.948 | 6.784 | 0.164 | 50 | 202759 | | | 15.00- 40.00 | 20.35 |
| 6.948 | 6.784 | 0.164 | 75 | 495559 | | | 30.00- 60.00 | 49.74 |
| 6.948 | 6.784 | 0.164 | 96 | 66496 | | | 5.00- 9.00 | 6.67 |
| 6.948 | 6.784 | 0.164 | 173 | 4679 | | | 0.00- 1.99 | 0.72 |
| 6.948 | 6.784 | 0.164 | 174 | 652565 | | | 50.01- 100.00 | 65.50 |
| 6.948 | 6.784 | 0.164 | 175 | 46908 | | | 5.00- 9.00 | 7.19 |
| 6.948 | 6.784 | 0.164 | 176 | 627010 | | | 95.01- 100.99 | 96.08 |
| 6.948 | 6.784 | 0.164 | 177 | 41193 | | | 5.00- 9.00 | 6.57 |

Data File: /var/chem/msda.i/19Aug2011.b/a081901.d 

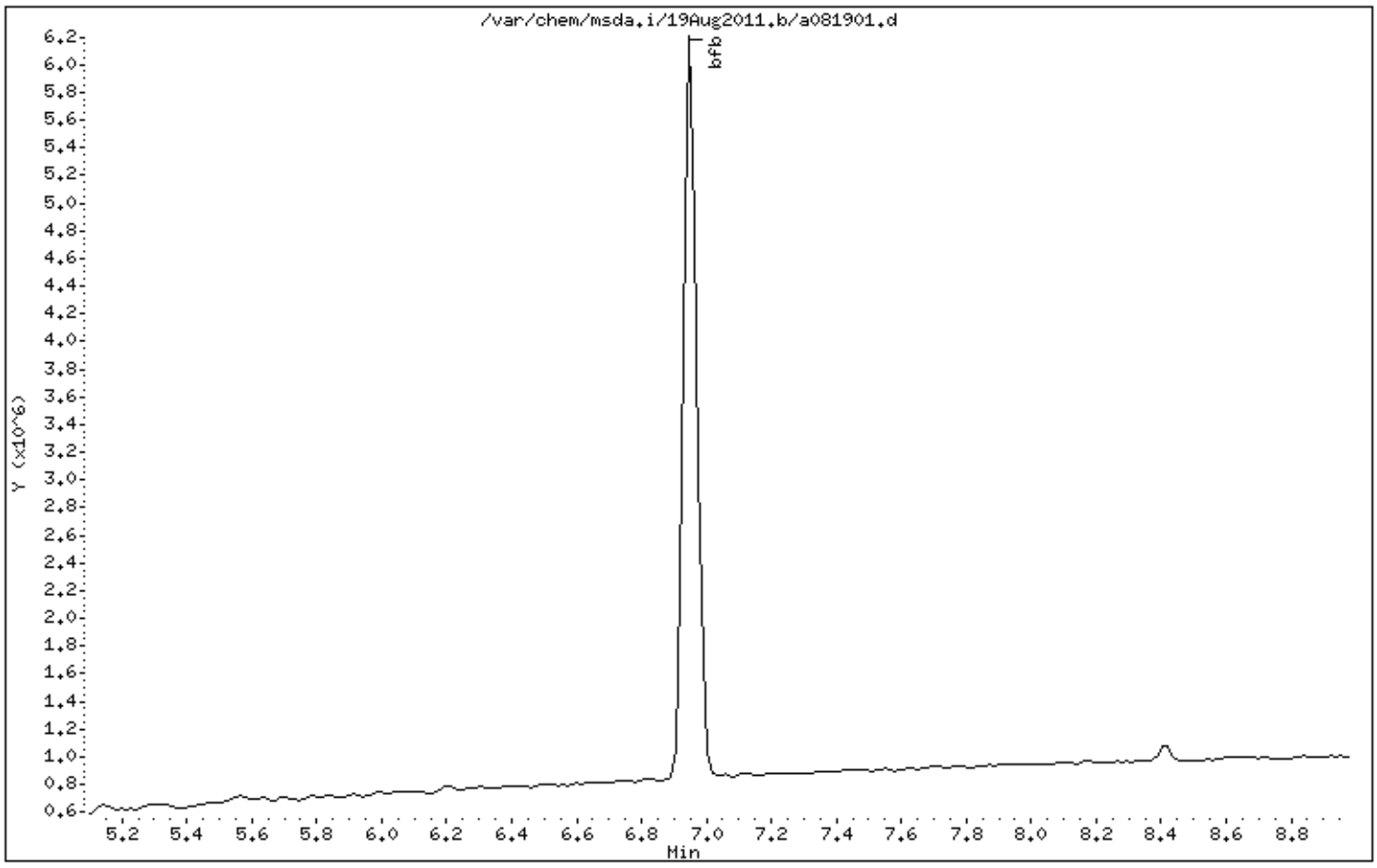
Date : 19-AUG-2011 11:09

Client ID: BFB Instrument: msda.i

Sample Info: 2.0L #1476-2228; BFB tune check; BFB Tune ch

Volume Injected (uL): 1.0 Operator: cr

Column phase: Column diameter: 2.00



Data File: /var/chem/msda.i/19Aug2011.b/a081901.d

Date : 19-AUG-2011 11:09

Client ID: BFB

Instrument: msda.i

Sample Info: 2.0

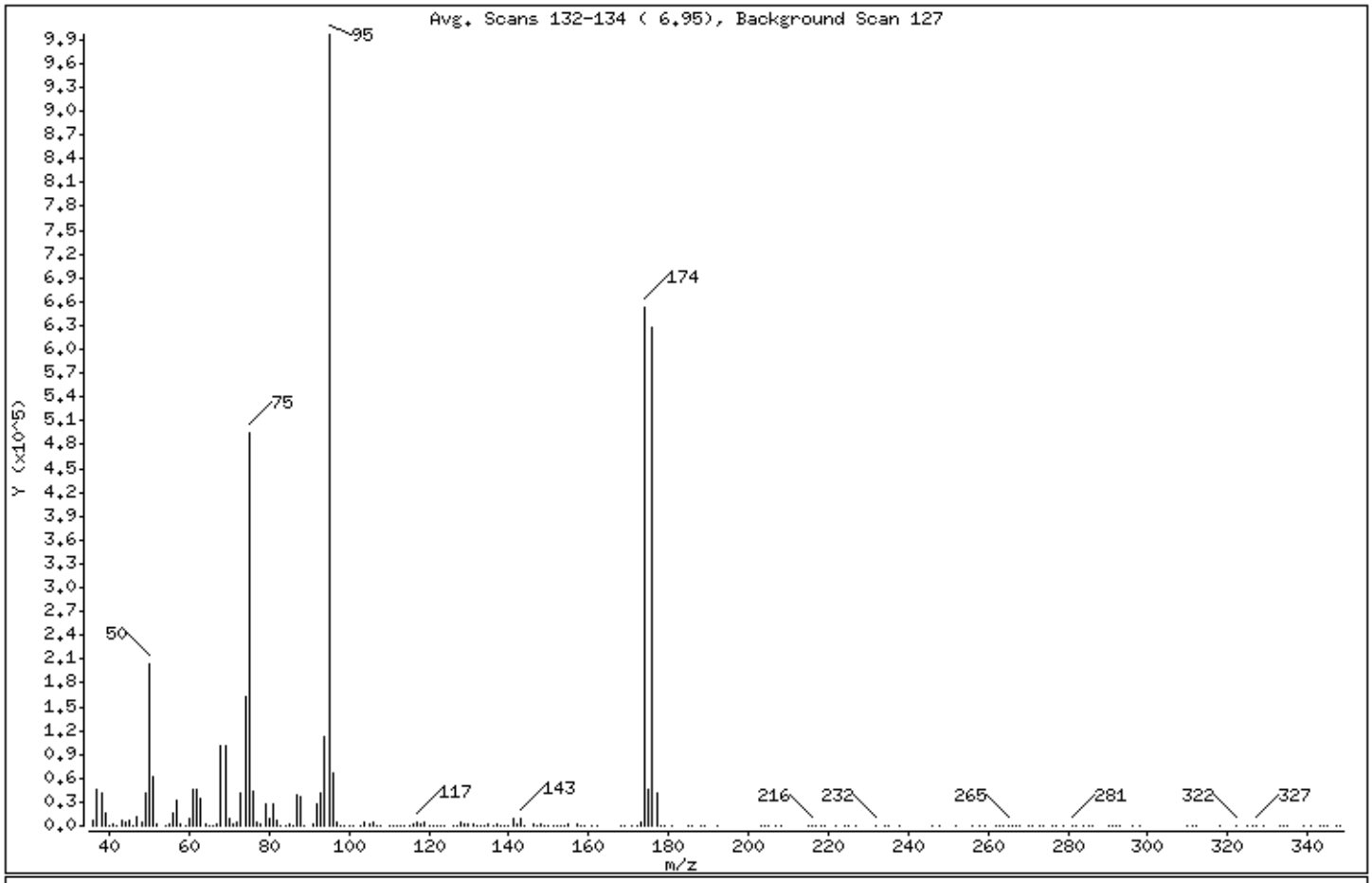
Volume Injected (uL): 1.0

Operator: cr

Column phase:

Column diameter: 2.00

1 bfb




| m/e | ION ABUNDANCE CRITERIA | % RELATIVE ABUNDANCE |
|---|---|---|
| 95 | Base Peak, 100% relative abundance | 100.00 |
| 50 | 15.00 - 40.00% of mass 95 | 20.35 |
| 75 | 30.00 - 60.00% of mass 95 | 49.74 |
| 96 | 5.00 - 9.00% of mass 95 | 6.67 |
| 173 | Less than 1.99% of mass 174 | 0.47 ( 0.72) |
| 174 | 50.01 - 100.00% of mass 95 | 65.50 |
| 175 | 5.00 - 9.00% of mass 174 | 4.71 ( 7.19) |
| 176 | 95.01 - 100.99% of mass 174 | 62.93 ( 96.08) |
| 177 | 5.00 - 9.00% of mass 176 | 4.13 ( 6.57) |

Date : 19-AUG-2011 11:09

Client ID: BFB Instrument: msda.i

Sample Info: 2.0m≠L #1476-2228; BFB tune check; BFB Tune ch

Volume Injected (uL): 1.0 Operator: cr

Column phase: Column diameter: 2.00

Data File: a081901.d
Spectrum: Avg. Scans 132-134 ( 6.95), Background Scan 127
Location of Maximum: 95.00
Number of points: 204

| m/z | Y | m/z | Y | m/z | Y | m/z | Y |
|---|---|---|---|---|---|---|---|
| 36.00 | 7706 | 89.00 | 546 | 146.00 | 2071 | 252.00 | 62 |
| 37.00 | 44920 | 91.00 | 3236 | 147.00 | 261 | 256.00 | 50 |
| 38.00 | 40696 | 92.00 | 27520 | 148.00 | 2183 | 258.00 | 31 |
| 39.00 | 16712 | 93.00 | 40672 | 149.00 | 643 | 259.00 | 38 |
| 40.00 | 741 | 94.00 | 112096 | 150.00 | 655 | 262.00 | 132 |
| 41.00 | 3007 | 95.00 | 996352 | 151.00 | 47 | 263.00 | 156 |
| 42.00 | 947 | 96.00 | 66496 | 152.00 | 275 | 264.00 | 25 |
| 43.00 | 5768 | 97.00 | 4487 | 153.00 | 619 | 265.00 | 360 |
| 44.00 | 5526 | 98.00 | 433 | 154.00 | 507 | 266.00 | 2 |
| 45.00 | 7933 | 99.00 | 395 | 155.00 | 1920 | 267.00 | 40 |
| 46.00 | 590 | 100.00 | 181 | 157.00 | 1189 | 268.00 | 135 |
| 47.00 | 12251 | 101.00 | 107 | 158.00 | 262 | 270.00 | 92 |
| 48.00 | 5599 | 103.00 | 515 | 159.00 | 1038 | 271.00 | 161 |
| 49.00 | 41160 | 104.00 | 4086 | 161.00 | 1121 | 273.00 | 87 |
| 50.00 | 202752 | 105.00 | 1525 | 162.00 | 120 | 274.00 | 55 |
| 51.00 | 61552 | 106.00 | 3644 | 168.00 | 109 | 276.00 | 65 |
| 52.00 | 2433 | 107.00 | 709 | 169.00 | 130 | 277.00 | 18 |
| 54.00 | 92 | 108.00 | 308 | 171.00 | 291 | 279.00 | 57 |
| 55.00 | 3397 | 110.00 | 1142 | 172.00 | 537 | 281.00 | 562 |
| 56.00 | 16150 | 111.00 | 851 | 173.00 | 4679 | 282.00 | 355 |
| 57.00 | 32624 | 112.00 | 723 | 174.00 | 652544 | 284.00 | 4 |
| 58.00 | 1405 | 113.00 | 862 | 175.00 | 46904 | 285.00 | 154 |
| 59.00 | 228 | 114.00 | 120 | 176.00 | 627008 | 286.00 | 72 |
| 60.00 | 8688 | 115.00 | 626 | 177.00 | 41192 | 290.00 | 72 |
| 61.00 | 46416 | 116.00 | 3397 | 178.00 | 940 | 291.00 | 131 |
| 62.00 | 46432 | 117.00 | 5030 | 179.00 | 154 | 292.00 | 230 |
| 63.00 | 33992 | 118.00 | 3231 | 181.00 | 156 | 293.00 | 84 |
| 64.00 | 3288 | 119.00 | 5020 | 185.00 | 50 | 296.00 | 36 |
| 65.00 | 155 | 120.00 | 314 | 186.00 | 54 | 298.00 | 53 |
| 66.00 | 166 | 121.00 | 1 | 188.00 | 99 | 310.00 | 56 |
| 67.00 | 2425 | 122.00 | 151 | 189.00 | 81 | 311.00 | 11 |
| 68.00 | 101392 | 123.00 | 86 | 192.00 | 57 | 312.00 | 71 |
| 69.00 | 101056 | 124.00 | 509 | 203.00 | 51 | 318.00 | 9 |
| 70.00 | 8458 | 126.00 | 440 | 204.00 | 96 | 322.00 | 505 |
| 71.00 | 2627 | 127.00 | 549 | 205.00 | 96 | 325.00 | 106 |

Date : 19-AUG-2011 11:09

Client ID: BFB Instrument: msda.i

Sample Info: 2.0mL #1476-2228; BFB tune check; BFB Tune ch

Volume Injected (uL): 1.0 Operator: cr

Column phase: Column diameter: 2.00

Data File: a081901.d
Spectrum: Avg. Scans 132-134 ( 6.95), Background Scan 127
Location of Maximum: 95.00
Number of points: 204

| m/z | Y | m/z | Y | m/z | Y | m/z | Y |
|---|---|---|---|---|---|---|---|
| 72.00 | 4945 | 128.00 | 4353 | 207.00 | 64 | 326.00 | 43 |
| 73.00 | 41536 | 129.00 | 1150 | 208.00 | 18 | 327.00 | 763 |
| 74.00 | 162560 | 130.00 | 3152 | 215.00 | 57 | 329.00 | 152 |
| 75.00 | 495552 | 131.00 | 1235 | 216.00 | 125 | 333.00 | 9 |
| 76.00 | 42480 | 132.00 | 310 | 217.00 | 12 | 334.00 | 90 |
| 77.00 | 4649 | 133.00 | 370 | 218.00 | 118 | 335.00 | 260 |
| 78.00 | 3147 | 134.00 | 164 | 219.00 | 221 | 339.00 | 93 |
| 79.00 | 26560 | 135.00 | 1410 | 222.00 | 162 | 341.00 | 44 |
| 80.00 | 8485 | 136.00 | 262 | 224.00 | 25 | 343.00 | 512 |
| 81.00 | 27320 | 137.00 | 1378 | 225.00 | 96 | 344.00 | 47 |
| 82.00 | 6713 | 138.00 | 196 | 227.00 | 53 | 345.00 | 52 |
| 83.00 | 680 | 139.00 | 398 | 232.00 | 954 | 347.00 | 66 |
| 84.00 | 574 | 140.00 | 933 | 234.00 | 121 | 348.00 | 63 |
| 85.00 | 1498 | 141.00 | 8505 | 235.00 | 74 | | |
| 86.00 | 946 | 142.00 | 1208 | 238.00 | 24 | | |
| 87.00 | 38360 | 143.00 | 8960 | 246.00 | 60 | | |
| 88.00 | 36528 | 144.00 | 491 | 248.00 | 103 | | |

Air Toxics Ltd.

Data file : /var/chem/msda.i/31Aug2011.b/a083101.d
Lab Smp Id: Client Smp ID: BFB
Inj Date : 31-AUG-2011 07:31
Operator : cr Inst ID: msda.i
Smp Info : 2.0µL #1476-2228; BFB tune check; BFB Tune ch
Misc Info : 50ng
Comment :
Method : /var/chem/msda.i/31Aug2011.b/bfb60.m
Meth Date : 31-Aug-2011 07:32 Quant Type: ESTD
Cal Date : Cal File:
Als bottle: 20 QC Sample: BFB
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.50 Sample Matrix: WATER
Processing Host: eeyore

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

| Name | Value | Description |
|---|---|---|
| DF | 1.00000 | Dilution Factor |
| Uf | 1.00000 | ng unit correction factor |
| Vf | 1.00000 | Volumetric correction factor |
| Vi | 1.00000 | Injection Volume |

Cpnd Variable Local Compound Variable

| RT | EXP RT | DLT RT | MASS | RESPONSE | CONCENTRATIONS ON-COL ( ug/L) | CONCENTRATIONS FINAL ( ug/L) | TARGET RANGE | RATIO |
|---|---|---|---|---|---|---|---|---|
| 1 bfb | | | | | | | CAS #: 460-00-4 | |
| 6.962 | 6.784 | 0.178 | 95 | 629013 | | | 100.00- 100.00 | 100.00 |
| 6.962 | 6.784 | 0.178 | 50 | 138211 | | | 15.00- 40.00 | 21.97 |
| 6.962 | 6.784 | 0.178 | 75 | 318430 | | | 30.00- 60.00 | 50.62 |
| 6.962 | 6.784 | 0.178 | 96 | 42077 | | | 5.00- 9.00 | 6.69 |
| 6.962 | 6.784 | 0.178 | 173 | 3195 | | | 0.00- 1.99 | 0.75 |
| 6.962 | 6.784 | 0.178 | 174 | 426538 | | | 50.01- 100.00 | 67.81 |
| 6.962 | 6.784 | 0.178 | 175 | 30089 | | | 5.00- 9.00 | 7.05 |
| 6.962 | 6.784 | 0.178 | 176 | 410676 | | | 95.01- 100.99 | 96.28 |
| 6.962 | 6.784 | 0.178 | 177 | 27105 | | | 5.00- 9.00 | 6.60 |

Data File: /var/chem/msda.i/31Aug2011.b/a083101.d 

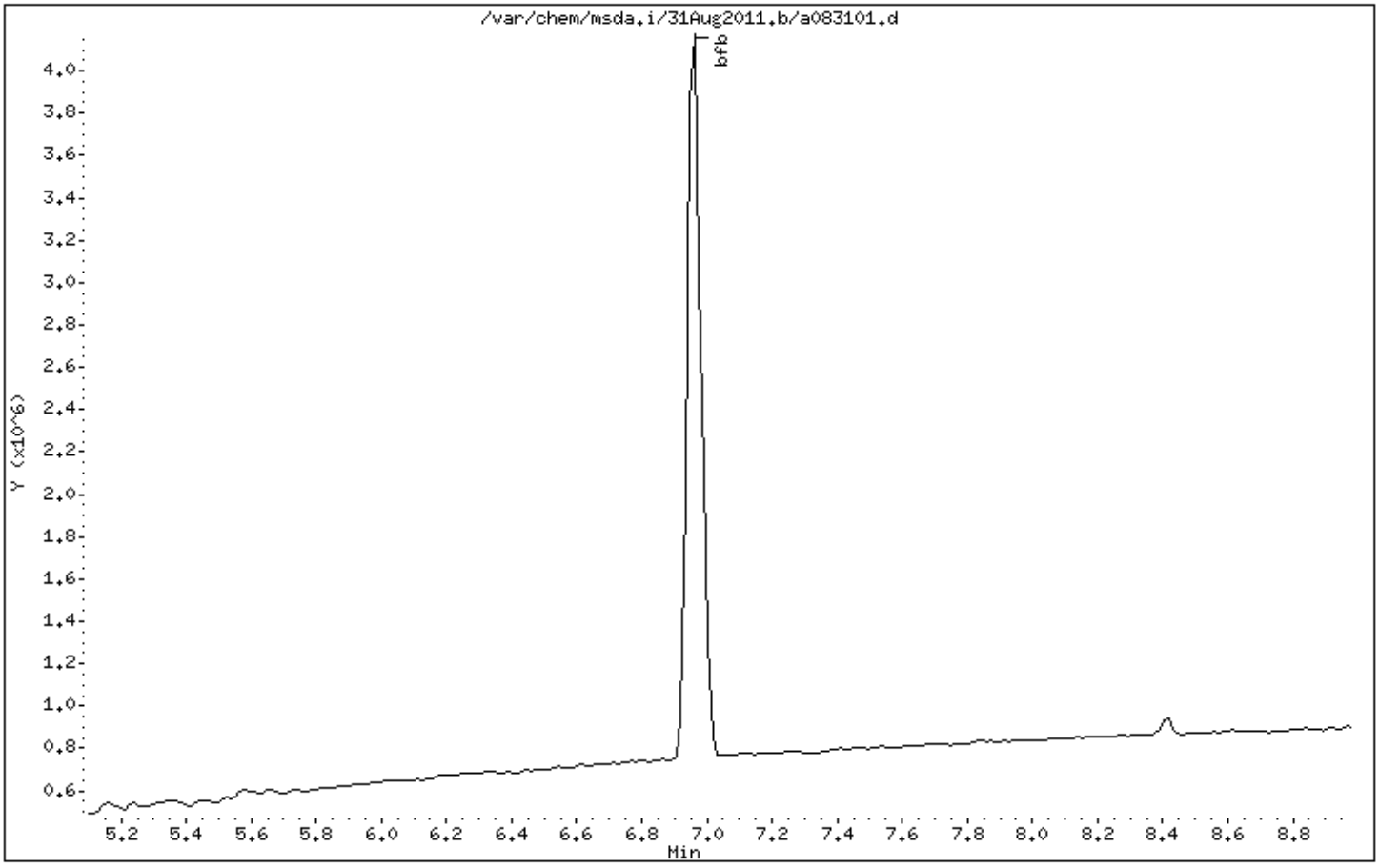
Date : 31-AUG-2011 07:31

Client ID: BFB Instrument: msda.i

Sample Info: 2.0L #1476-2228; BFB tune check; BFB Tune ch

Volume Injected (uL): 1.0 Operator: cr

Column phase: Column diameter: 2.00



Data File: /var/chem/msda.i/31Aug2011.b/a083101.d

Date : 31-AUG-2011 07:31

Client ID: BFB

Instrument: msda.i

Sample Info: 2.0

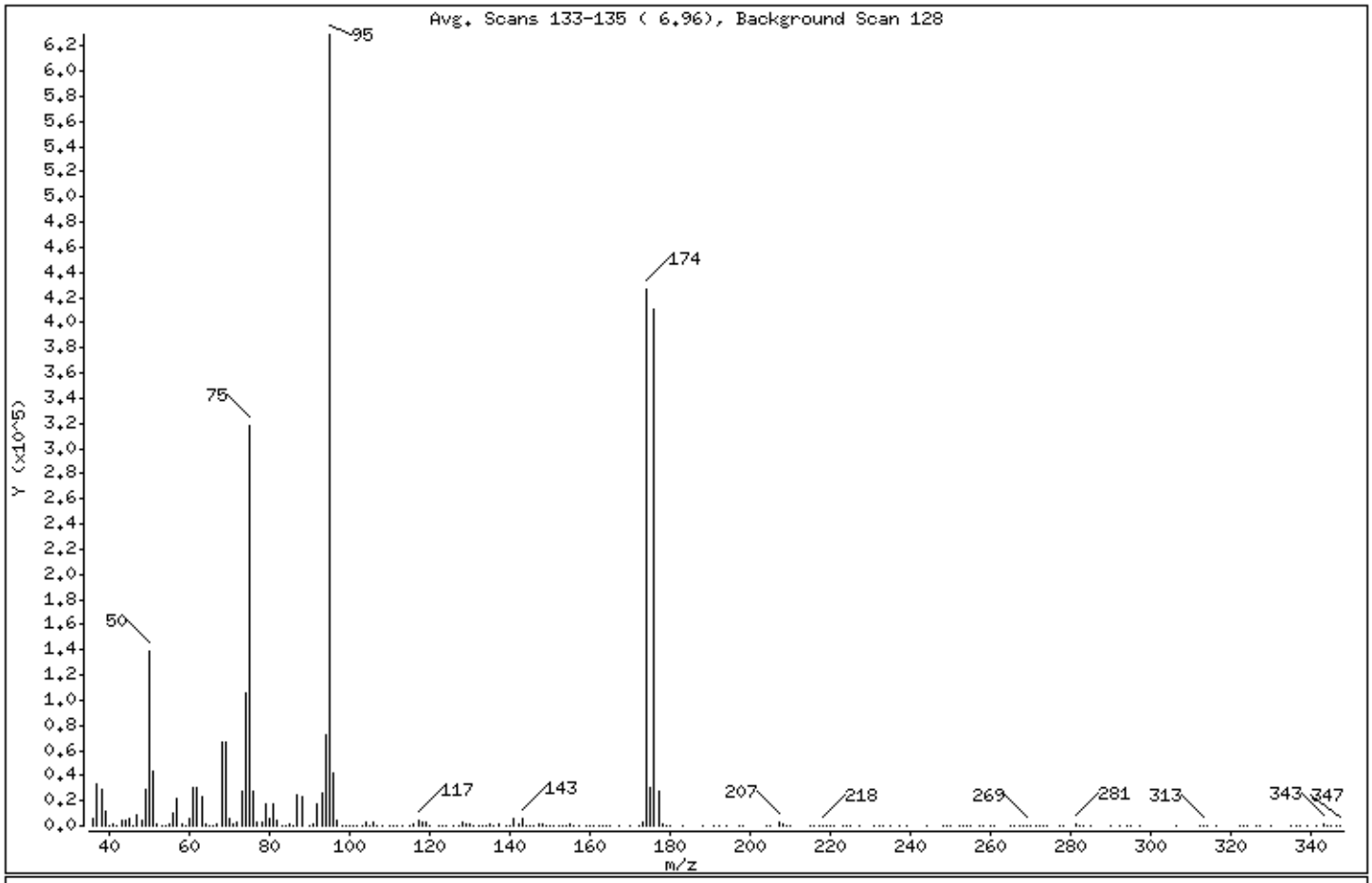
Volume Injected (uL): 1.0

Operator: cr

Column phase:

Column diameter: 2.00

1 bfb




| m/e | ION ABUNDANCE CRITERIA | % RELATIVE ABUNDANCE |
|---|---|---|
| 95 | Base Peak, 100% relative abundance | 100.00 |
| 50 | 15.00 - 40.00% of mass 95 | 21.97 |
| 75 | 30.00 - 60.00% of mass 95 | 50.62 |
| 96 | 5.00 - 9.00% of mass 95 | 6.69 |
| 173 | Less than 1.99% of mass 174 | 0.51 ( 0.75) |
| 174 | 50.01 - 100.00% of mass 95 | 67.81 |
| 175 | 5.00 - 9.00% of mass 174 | 4.78 ( 7.05) |
| 176 | 95.01 - 100.99% of mass 174 | 65.29 ( 96.28) |
| 177 | 5.00 - 9.00% of mass 176 | 4.31 ( 6.60) |

Date : 31-AUG-2011 07:31

Client ID: BFB Instrument: msda.i

Sample Info: 2.0mL #1476-2228; BFB tune check; BFB Tune ch

Volume Injected (uL): 1.0 Operator: cr

Column phase: Column diameter: 2.00

Data File: a083101.d
Spectrum: Avg. Scans 133-135 ( 6.96), Background Scan 128
Location of Maximum: 95.00
Number of points: 218

| m/z | Y | m/z | Y | m/z | Y | m/z | Y |
|---|---|---|---|---|---|---|---|
| 36.00 | 5880 | 92.00 | 17744 | 152.00 | 328 | 248.00 | 97 |
| 37.00 | 32928 | 93.00 | 26016 | 153.00 | 283 | 249.00 | 212 |
| 38.00 | 29064 | 94.00 | 72536 | 154.00 | 310 | 250.00 | 122 |
| 39.00 | 12289 | 95.00 | 628992 | 155.00 | 1460 | 252.00 | 165 |
| 40.00 | 440 | 96.00 | 42072 | 156.00 | 190 | 253.00 | 258 |
| 41.00 | 1813 | 97.00 | 4311 | 157.00 | 211 | 254.00 | 297 |
| 42.00 | 658 | 98.00 | 251 | 159.00 | 522 | 255.00 | 10 |
| 43.00 | 3814 | 99.00 | 99 | 160.00 | 110 | 257.00 | 127 |
| 44.00 | 4110 | 100.00 | 212 | 161.00 | 407 | 258.00 | 191 |
| 45.00 | 6193 | 101.00 | 68 | 162.00 | 87 | 260.00 | 75 |
| 46.00 | 354 | 102.00 | 165 | 163.00 | 602 | 261.00 | 227 |
| 47.00 | 9186 | 103.00 | 645 | 164.00 | 125 | 265.00 | 174 |
| 48.00 | 4102 | 104.00 | 2392 | 165.00 | 309 | 266.00 | 110 |
| 49.00 | 28264 | 105.00 | 214 | 167.00 | 160 | 267.00 | 169 |
| 50.00 | 138176 | 106.00 | 2745 | 170.00 | 51 | 268.00 | 14 |
| 51.00 | 42768 | 107.00 | 652 | 172.00 | 354 | 269.00 | 570 |
| 52.00 | 1599 | 108.00 | 234 | 173.00 | 3195 | 270.00 | 11 |
| 53.00 | 340 | 110.00 | 380 | 174.00 | 426496 | 271.00 | 466 |
| 54.00 | 121 | 111.00 | 378 | 175.00 | 30088 | 272.00 | 82 |
| 55.00 | 2159 | 112.00 | 485 | 176.00 | 410624 | 273.00 | 125 |
| 56.00 | 10652 | 113.00 | 544 | 177.00 | 27104 | 274.00 | 52 |
| 57.00 | 21936 | 115.00 | 685 | 178.00 | 836 | 277.00 | 1 |
| 58.00 | 863 | 116.00 | 2045 | 179.00 | 324 | 278.00 | 67 |
| 59.00 | 168 | 117.00 | 3755 | 180.00 | 13 | 281.00 | 1312 |
| 60.00 | 5863 | 118.00 | 2191 | 183.00 | 51 | 282.00 | 98 |
| 61.00 | 30712 | 119.00 | 3345 | 188.00 | 14 | 283.00 | 153 |
| 62.00 | 30344 | 120.00 | 252 | 191.00 | 666 | 285.00 | 173 |
| 63.00 | 22736 | 122.00 | 71 | 192.00 | 36 | 290.00 | 221 |
| 64.00 | 1954 | 123.00 | 166 | 194.00 | 143 | 292.00 | 29 |
| 65.00 | 531 | 124.00 | 281 | 197.00 | 10 | 294.00 | 73 |
| 66.00 | 234 | 126.00 | 365 | 198.00 | 72 | 295.00 | 37 |
| 67.00 | 1595 | 127.00 | 195 | 204.00 | 74 | 297.00 | 11 |
| 68.00 | 67088 | 128.00 | 3014 | 205.00 | 207 | 306.00 | 125 |
| 69.00 | 66584 | 129.00 | 1020 | 207.00 | 2581 | 312.00 | 50 |
| 70.00 | 5671 | 130.00 | 2110 | 208.00 | 1456 | 313.00 | 164 |

Date : 31-AUG-2011 07:31

Client ID: BFB Instrument: msda.i

Sample Info: 2.0mL #1476-2228; BFB tune check; BFB Tune ch

Volume Injected (uL): 1.0 Operator: cr

Column phase: Column diameter: 2.00

Data File: a083101.d
Spectrum: Avg. Scans 133-135 ( 6.96), Background Scan 128
Location of Maximum: 95.00
Number of points: 218

| m/z | Y | m/z | Y | m/z | Y | m/z | Y |
|---|---|---|---|---|---|---|---|
| 71.00 | 1462 | 131.00 | 621 | 209.00 | 691 | 314.00 | 68 |
| 72.00 | 3208 | 132.00 | 107 | 210.00 | 189 | 316.00 | 50 |
| 73.00 | 26784 | 133.00 | 589 | 215.00 | 55 | 322.00 | 541 |
| 74.00 | 105696 | 134.00 | 411 | 216.00 | 172 | 323.00 | 101 |
| 75.00 | 318400 | 135.00 | 1081 | 217.00 | 71 | 324.00 | 42 |
| 76.00 | 27712 | 136.00 | 285 | 218.00 | 369 | 326.00 | 29 |
| 77.00 | 3254 | 137.00 | 787 | 219.00 | 144 | 327.00 | 62 |
| 78.00 | 2430 | 139.00 | 161 | 220.00 | 56 | 330.00 | 20 |
| 79.00 | 17560 | 140.00 | 313 | 221.00 | 196 | 335.00 | 174 |
| 80.00 | 5365 | 141.00 | 5397 | 223.00 | 39 | 336.00 | 33 |
| 81.00 | 17920 | 142.00 | 1001 | 224.00 | 43 | 337.00 | 5 |
| 82.00 | 4663 | 143.00 | 5472 | 225.00 | 5 | 339.00 | 2 |
| 83.00 | 466 | 144.00 | 371 | 227.00 | 73 | 341.00 | 315 |
| 84.00 | 313 | 145.00 | 483 | 231.00 | 32 | 343.00 | 944 |
| 85.00 | 946 | 146.00 | 665 | 232.00 | 218 | 344.00 | 175 |
| 86.00 | 687 | 147.00 | 1302 | 233.00 | 10 | 345.00 | 544 |
| 87.00 | 24752 | 148.00 | 952 | 235.00 | 267 | 346.00 | 27 |
| 88.00 | 23824 | 149.00 | 355 | 237.00 | 4 | 347.00 | 83 |
| 90.00 | 74 | 150.00 | 559 | 239.00 | 203 | | |
| 91.00 | 2147 | 151.00 | 11 | 244.00 | 56 | | |

Air Toxics Ltd.

Data file : /var/chem/msda.i/01Sep2011.b/a090101.d
Lab Smp Id: Client Smp ID: BFB
Inj Date : 01-SEP-2011 07:49
Operator : cr Inst ID: msda.i
Smp Info : 2.0µL #1476-2228; BFB tune check; BFB Tune ch
Misc Info : 50ng
Comment :
Method : /var/chem/msda.i/01Sep2011.b/bfb60.m
Meth Date : 01-Sep-2011 07:50 Quant Type: ESTD
Cal Date : Cal File:
Als bottle: 20 QC Sample: BFB
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.50 Sample Matrix: WATER
Processing Host: eeyore

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

| Name | Value | Description |
|---|---|---|
| DF | 1.00000 | Dilution Factor |
| Uf | 1.00000 | ng unit correction factor |
| Vf | 1.00000 | Volumetric correction factor |
| Vi | 1.00000 | Injection Volume |

Cpnd Variable Local Compound Variable

| | | | | | CONCENTRATIONS ON-COL ( ug/L) | FINAL ( ug/L) | TARGET RANGE | RATIO |
|---|---|---|---|---|---|---|---|---|
| 1 bfb | | | | | | | CAS #: 460-00-4 | |
| 6.934 | 6.784 | 0.150 | 95 | 807018 | | | 100.00- 100.00 | 100.00 |
| 6.934 | 6.784 | 0.150 | 50 | 183261 | | | 15.00- 40.00 | 22.71 |
| 6.934 | 6.784 | 0.150 | 75 | 412521 | | | 30.00- 60.00 | 51.12 |
| 6.934 | 6.784 | 0.150 | 96 | 55445 | | | 5.00- 9.00 | 6.87 |
| 6.934 | 6.784 | 0.150 | 173 | 3790 | | | 0.00- 1.99 | 0.74 |
| 6.934 | 6.784 | 0.150 | 174 | 508821 | | | 50.01- 100.00 | 63.05 |
| 6.934 | 6.784 | 0.150 | 175 | 36762 | | | 5.00- 9.00 | 7.22 |
| 6.934 | 6.784 | 0.150 | 176 | 489391 | | | 95.01- 100.99 | 96.18 |
| 6.934 | 6.784 | 0.150 | 177 | 32205 | | | 5.00- 9.00 | 6.58 |

Data File: /chem/msda.i/01Sep2011.b/a090101.d



Date : 01-SEP-2011 07:49

Client ID: BFB

Instrument: msda.i

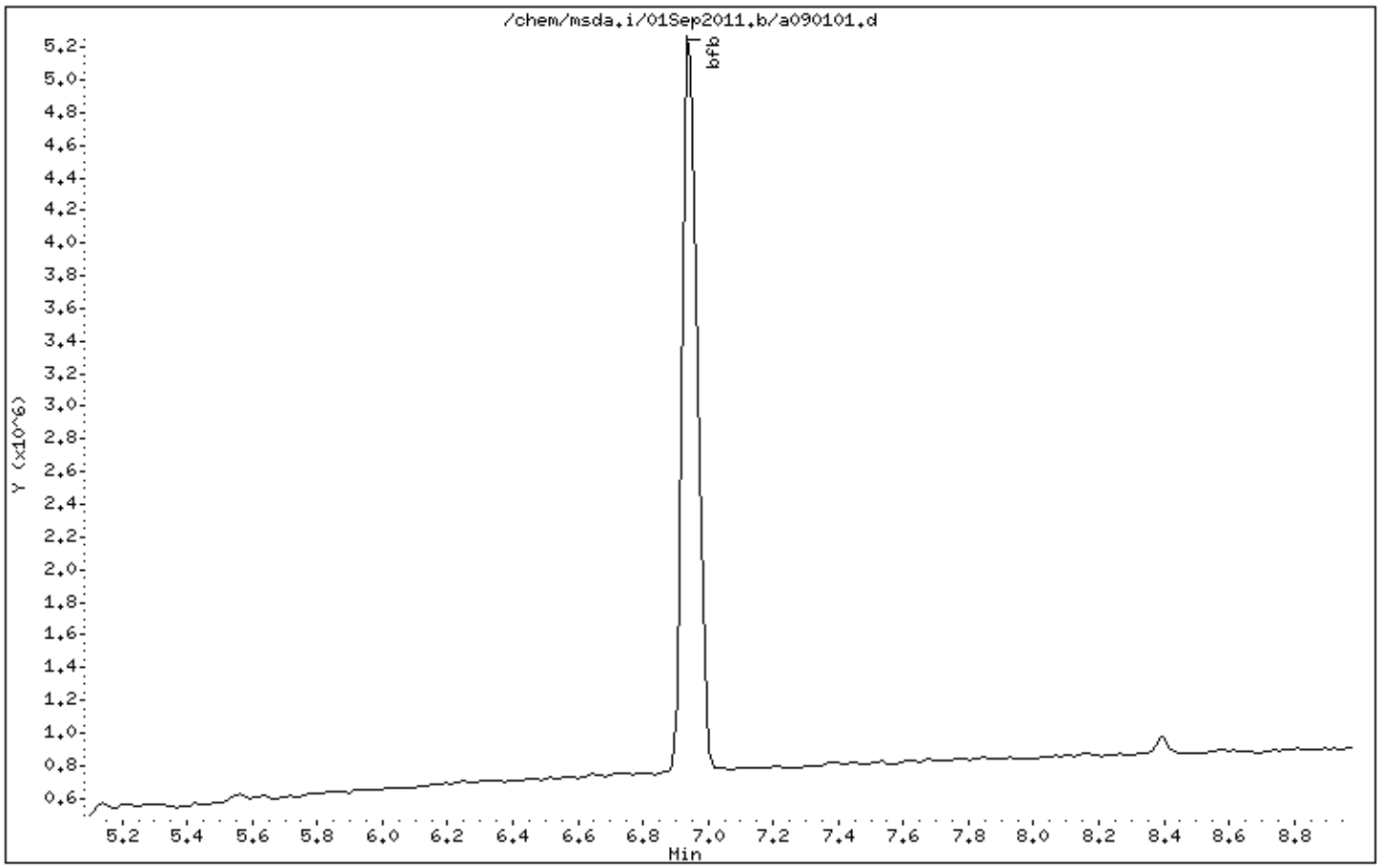
Sample Info: 2.0L #1476-2228; BFB tune check; BFB Tune ch

Volume Injected (uL): 1.0

Operator: cr

Column phase:

Column diameter: 2.00



Data File: /chem/msda.i/01Sep2011.b/a090101.d

Date : 01-SEP-2011 07:49

Client ID: BFB

Instrument: msda.i

Sample Info: 2.0

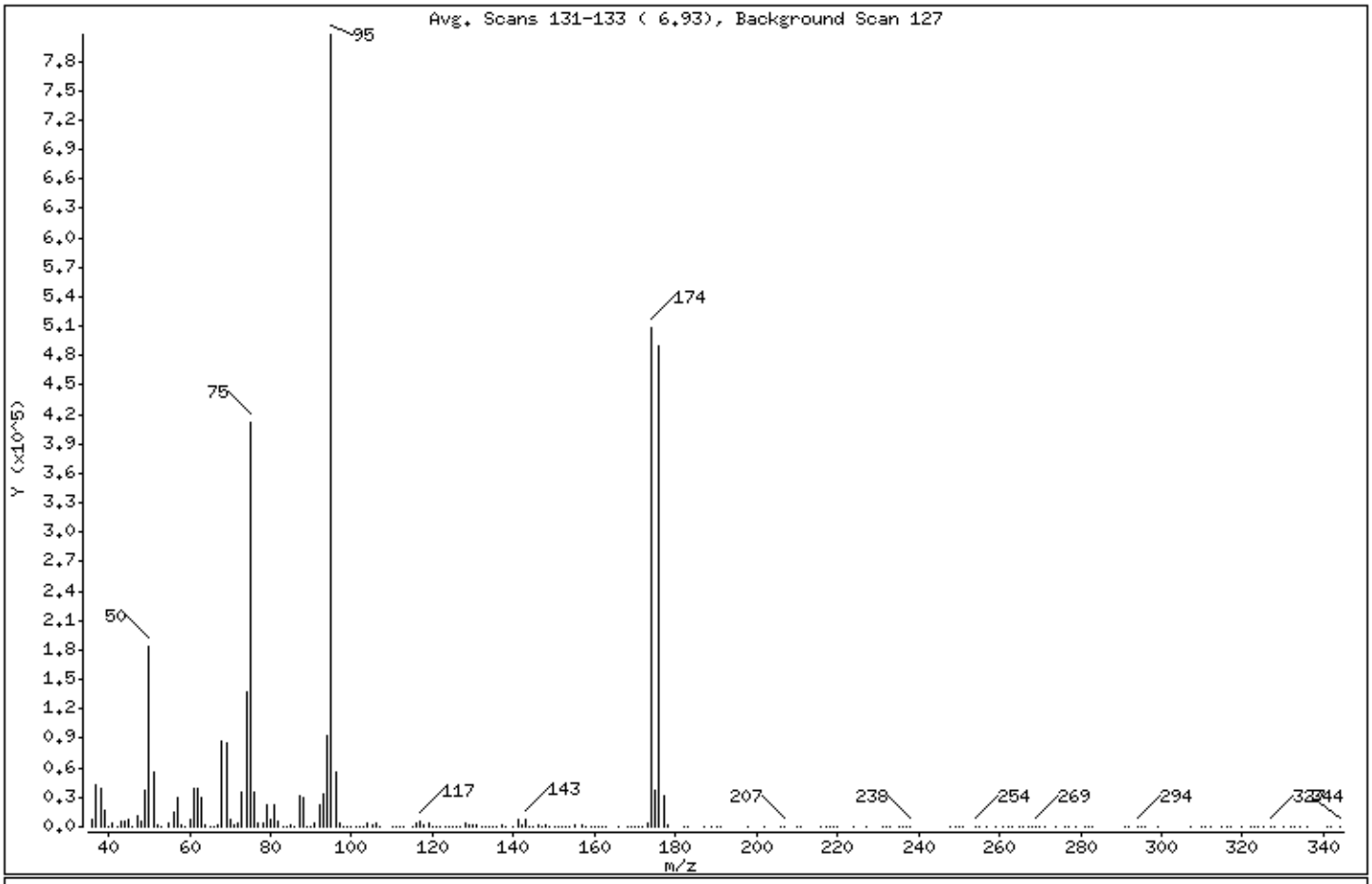
Volume Injected (uL): 1.0

Operator: cr

Column phase:

Column diameter: 2.00

1 bfb




| m/e | ION ABUNDANCE CRITERIA | % RELATIVE ABUNDANCE |
|---|---|---|
| 95 | Base Peak, 100% relative abundance | 100.00 |
| 50 | 15.00 - 40.00% of mass 95 | 22.71 |
| 75 | 30.00 - 60.00% of mass 95 | 51.12 |
| 96 | 5.00 - 9.00% of mass 95 | 6.87 |
| 173 | Less than 1.99% of mass 174 | 0.47 ( 0.74) |
| 174 | 50.01 - 100.00% of mass 95 | 63.05 |
| 175 | 5.00 - 9.00% of mass 174 | 4.56 ( 7.22) |
| 176 | 95.01 - 100.99% of mass 174 | 60.64 ( 96.18) |
| 177 | 5.00 - 9.00% of mass 176 | 3.99 ( 6.58) |

Date : 01-SEP-2011 07:49

Client ID: BFB Instrument: msda.i

Sample Info: 2.0m≠L #1476-2228; BFB tune check; BFB Tune ch

Volume Injected (uL): 1.0 Operator: cr

Column phase: Column diameter: 2.00

Data File: a090101.d
Spectrum: Avg. Scans 131-133 ( 6.93), Background Scan 127
Location of Maximum: 95.00
Number of points: 213

| m/z | Y | m/z | Y | m/z | Y | m/z | Y |
|---|---|---|---|---|---|---|---|
| 36.00 | 7650 | 91.00 | 2844 | 149.00 | 254 | 250.00 | 112 |
| 37.00 | 42464 | 92.00 | 22128 | 150.00 | 750 | 251.00 | 204 |
| 38.00 | 38984 | 93.00 | 33840 | 151.00 | 58 | 254.00 | 597 |
| 39.00 | 16374 | 94.00 | 93360 | 152.00 | 255 | 255.00 | 114 |
| 40.00 | 839 | 95.00 | 806976 | 153.00 | 367 | 257.00 | 29 |
| 41.00 | 2922 | 96.00 | 55440 | 154.00 | 314 | 259.00 | 74 |
| 42.00 | 818 | 97.00 | 4495 | 155.00 | 1419 | 261.00 | 88 |
| 43.00 | 6247 | 98.00 | 445 | 157.00 | 1057 | 262.00 | 41 |
| 44.00 | 5001 | 99.00 | 285 | 158.00 | 207 | 263.00 | 16 |
| 45.00 | 8211 | 100.00 | 50 | 159.00 | 615 | 265.00 | 145 |
| 46.00 | 564 | 101.00 | 101 | 160.00 | 414 | 266.00 | 295 |
| 47.00 | 12041 | 102.00 | 60 | 161.00 | 278 | 267.00 | 88 |
| 48.00 | 5145 | 103.00 | 244 | 162.00 | 218 | 268.00 | 72 |
| 49.00 | 37976 | 104.00 | 3419 | 163.00 | 426 | 269.00 | 797 |
| 50.00 | 183232 | 105.00 | 1056 | 166.00 | 111 | 270.00 | 196 |
| 51.00 | 55904 | 106.00 | 3186 | 168.00 | 57 | 271.00 | 32 |
| 52.00 | 2723 | 107.00 | 612 | 169.00 | 52 | 274.00 | 50 |
| 53.00 | 238 | 110.00 | 516 | 170.00 | 118 | 276.00 | 51 |
| 55.00 | 2989 | 111.00 | 480 | 171.00 | 137 | 277.00 | 100 |
| 56.00 | 14235 | 112.00 | 558 | 172.00 | 606 | 279.00 | 21 |
| 57.00 | 30224 | 113.00 | 655 | 173.00 | 3790 | 281.00 | 706 |
| 58.00 | 1285 | 115.00 | 628 | 174.00 | 508800 | 282.00 | 340 |
| 59.00 | 303 | 116.00 | 2825 | 175.00 | 36760 | 283.00 | 688 |
| 60.00 | 7668 | 117.00 | 4764 | 176.00 | 489344 | 291.00 | 122 |
| 61.00 | 39600 | 118.00 | 2600 | 177.00 | 32200 | 292.00 | 84 |
| 62.00 | 39536 | 119.00 | 3781 | 178.00 | 962 | 294.00 | 186 |
| 63.00 | 29424 | 120.00 | 2 | 182.00 | 38 | 295.00 | 32 |
| 64.00 | 2672 | 121.00 | 29 | 183.00 | 114 | 296.00 | 26 |
| 65.00 | 457 | 122.00 | 169 | 187.00 | 31 | 299.00 | 58 |
| 66.00 | 34 | 123.00 | 68 | 189.00 | 256 | 307.00 | 131 |
| 67.00 | 2114 | 124.00 | 409 | 190.00 | 98 | 310.00 | 50 |
| 68.00 | 87304 | 125.00 | 43 | 191.00 | 184 | 311.00 | 63 |
| 69.00 | 85776 | 126.00 | 52 | 198.00 | 110 | 312.00 | 130 |
| 70.00 | 7384 | 127.00 | 345 | 202.00 | 177 | 315.00 | 11 |
| 71.00 | 2673 | 128.00 | 3581 | 206.00 | 39 | 316.00 | 124 |

Date : 01-SEP-2011 07:49

Client ID: BFB Instrument: msda.i

Sample Info: 2.0m≠L #1476-2228; BFB tune check; BFB Tune ch

Volume Injected (uL): 1.0 Operator: cr

Column phase: Column diameter: 2.00

Data File: a090101.d
Spectrum: Avg. Scans 131-133 ( 6.93), Background Scan 127
Location of Maximum: 95.00
Number of points: 213

| m/z | Y | m/z | Y | m/z | Y | m/z | Y |
|---|---|---|---|---|---|---|---|
| 72.00 | 4158 | 129.00 | 1152 | 207.00 | 368 | 317.00 | 53 |
| 73.00 | 34320 | 130.00 | 2491 | 210.00 | 123 | 320.00 | 72 |
| 74.00 | 136448 | 131.00 | 1003 | 211.00 | 8 | 322.00 | 203 |
| 75.00 | 412480 | 132.00 | 30 | 216.00 | 78 | 323.00 | 38 |
| 76.00 | 35528 | 133.00 | 621 | 217.00 | 116 | 324.00 | 120 |
| 77.00 | 4212 | 134.00 | 356 | 218.00 | 128 | 325.00 | 62 |
| 78.00 | 2879 | 135.00 | 551 | 219.00 | 75 | 327.00 | 571 |
| 79.00 | 22040 | 136.00 | 287 | 220.00 | 100 | 328.00 | 94 |
| 80.00 | 7313 | 137.00 | 1253 | 224.00 | 41 | 330.00 | 103 |
| 81.00 | 23144 | 138.00 | 50 | 227.00 | 59 | 332.00 | 21 |
| 82.00 | 5585 | 140.00 | 508 | 231.00 | 72 | 333.00 | 24 |
| 83.00 | 615 | 141.00 | 6707 | 232.00 | 135 | 334.00 | 222 |
| 84.00 | 629 | 142.00 | 1094 | 233.00 | 54 | 336.00 | 69 |
| 85.00 | 1635 | 143.00 | 6837 | 235.00 | 3 | 341.00 | 91 |
| 86.00 | 864 | 144.00 | 411 | 236.00 | 9 | 342.00 | 26 |
| 87.00 | 31840 | 145.00 | 450 | 237.00 | 13 | 344.00 | 426 |
| 88.00 | 30568 | 146.00 | 934 | 238.00 | 248 | | |
| 89.00 | 216 | 147.00 | 159 | 248.00 | 124 | | |
| 90.00 | 68 | 148.00 | 1344 | 249.00 | 151 | | |

# Shipping/ Receiving Documents

Air Toxics LTD.
Laboratory Services Since 1989

# Air Toxics Ltd. Sample Receipt Confirmation Cover Page

Thank you for choosing Air Toxics Ltd. We have received your samples and have listed any Sample Receipt Descrepancies below.

In order to expedite analysis and reporting, please review the attached information for

For corrections ca **Ausha Scott at 916-985-1000**

ATL will proceed with the analysis as specified on the Chain of Custody and Sample Receipt Summary page.

**Please note** : The Sample Receipt Confirmation, including the total workorder charge, is subject to change upon secondary review. Our aim is to provide a confirmation to you in a timely manner. Sample Receipt Discrepancies, if any, may not include discrepancies regarding sample receipt pressure(s). Additionally, the Chain of Custody (COC) will be provided with the final report.

**180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 95630**

**(916) 985-1000 .FAX (916) 985-1020**
**Hours 6:30 A.M to 5:30 P.M. PST**

# Air Toxics LTD.

## CHAIN-OF-CUSTODY RECORD

**Sample Transportation Notice**
Relinquishing signature on this document indicates that sample is being shipped in compliance with all applicable local, State, Federal, national, and international laws, regulations and ordinances of any kind. Air Toxics Limited assumes no liability with respect to the collection, handling or shipping of these samples. Relinquishing signature also indicates agreement to hold harmless, defend, and indemnify Air Toxics Limited against any claim, demand, or action, of any kind, related to the collection, handling, or shipping of samples. D.O.T. Hotline (800) 467-4922

180 BLUE RAVINE ROAD, SUITE B
FOLSOM, CA 95630-4719
(916) 985-1000 FAX (916) 985-1020





Project Manager: Shane Blauvelt
Collected by: (Print and Sign) Zahar Lavy
Company: Parsons Email: Shane.Blauvelt@parsons.com
Address: 301 Plainfield Rd. City: Syracuse State: NY Zip: 08573
Phone: 315-552-9675 Fax: 315 451 9570

**Project Info:**
P.O. #:
Project #: 446109-03000
Project Name: Farrington St.

**Turn Around Time:**
☒ Normal
☐ Rush
specify

*Lab Use Only*
Pressurized by:
Date:
Pressurization Gas: $N_2$ He

| Lab I.D. | Field Sample I.D. (Location) | Can # | Date of Collection | Time of Collection | Analyses Requested | Canister Pressure/Vacuum Initial | Final | Receipt | Final (psi) |
|---|---|---|---|---|---|---|---|---|---|
| 01A | SG-6 | 25250 | 8/25/11 | 8:35 | TO-15 *see Notes | -30 | -9 | | - |
| 02A | SG-7 | 34006 | ↓ | 8:45 | ↓ | -30 | -7 | | |
| 03A | SG-10 | 33325 | ↓ | 9:30 | ↓ | -30 | -8 | | |
| 04A | SG-8 | 34467 | 8/24/11 | 0855 | TO-15 *see Notes | -30 | -8 | | |
| 05A | SG-9 | 12045 | ↓ | 0955 | ↓ | -30 | -8 | | |
| 06A | SG-1 | 9557 | ↓ | 1340 | ↓ | -30 | -11 | | |
| 07A | SG-2 | 34008 | ↓ | 1350 | ↓ | -30 | -6.5 | | |
| 08A | SG-11 | 9561 | 8/26/11 | 1045 | ↓ | -28.5 | -8 | | |
| | | | | | | | | | |
| | | | | | | | | | |

Relinquished by: (signature) Date/Time: 8/26/11 1320 (to UPS)
Received by: (signature) Date/Time:

Relinquished by: (signature) Date/Time:
Received by: (signature) Date/Time: 8.30.11 0915 0950

Relinquished by: (signature) Date/Time:
Received by: (signature) Date/Time:

**Notes:** Please add the following compounds to the analysis: Naphthalene, indan, indene, thiophene, styrene, 2 methylpentane, isopentane, 2,3-dimethylpentane, and isooctane

**Lab Use Only**

| Shipper Name | Air Bill # | Temp (°C) | Condition | Custody Seals Intact? | Work Order # |
|---|---|---|---|---|---|
| UPS | | NA | Good | Yes No None | 108582 |

Form 1293 rev.11

Air Toxics LTD.
Laboratory Services Since 1989

# SAMPLE RECEIPT SUMMARY

## WORKORDER 1108582

**Client**

Mr. Shane Blauvelt
Parsons
290 Elwood Davis Road
Suite 312
Liverpool, NY 13088

**Sales Rep:** JAS

**Phone**

315-451-9560 x2120

**Fax**

**Date Promised:** 09/14/11
**Date Completed:** 9/13/11
**Date Received:** 8/30/11
**PO#:**
**Project#:** 446109-03000 Farrington St.

**Total $:** $ 2,060.00
**Logged By:** JCW

| Fraction | Sample # | Analysis | Collected | Receipt Vac./Pres. | Amount$ |
|---|---|---|---|---|---|
| 01A | SG-6 | Modified TO-15 | 8/25/2011 | 7.5 "Hg | $180.00 |
| 02A | SG-7 | Modified TO-15 | 8/25/2011 | 7.0 "Hg | $180.00 |
| 03A | SG-10 | Modified TO-15 | 8/25/2011 | 6.0 "Hg | $180.00 |
| 04A | SG-8 | Modified TO-15 | 8/24/2011 | 6.0 "Hg | $180.00 |
| 05A | SG-9 | Modified TO-15 | 8/24/2011 | 5.5 "Hg | $180.00 |
| 06A | SG-1 | Modified TO-15 | 8/24/2011 | 6.5 "Hg | $180.00 |
| 07A | SG-2 | Modified TO-15 | 8/24/2011 | 6.0 "Hg | $180.00 |
| 08A | SG-11 | Modified TO-15 | 8/26/2011 | 6.0 "Hg | $180.00 |
| 09A | Lab Blank | Modified TO-15 | NA | NA | $0.00 |
| 09B | Lab Blank | Modified TO-15 | NA | NA | $0.00 |
| 10A | CCV | Modified TO-15 | NA | NA | $0.00 |
| 10B | CCV | Modified TO-15 | NA | NA | $0.00 |
| 11A | LCS | Modified TO-15 | NA | NA | $0.00 |
| 11AA | LCSD | Modified TO-15 | NA | NA | $0.00 |
| 11B | LCS | Modified TO-15 | NA | NA | $0.00 |
| 11BB | LCSD | Modified TO-15 | NA | NA | $0.00 |

| | | |
|---|---|---|
| Misc. Charges | 6 Liter Summa Special (100% Certified) (8) @ $40.00 each., Shipmen | $320.00 |
| | 6 Liter Summa Special (100% Certified) (1) @ $40.00 each., Shipmen | $40.00 |

**Note:** Samples received after 3 P.M. PST are considered to be received on the following work day.
Atlas Project Name/Profile#: Con Edison-Farrington Street/16136

**BILL TO:** Mr. Shane Blauvelt
Parsons
290 Elwood Davis Road
Suite 312
Liverpool, NY 13088

Analysis Code: pptv

**TERMS:**

Reporting Method: Modified TO-15-LL (Sp)/TICs (10)-Parsons (ConEd)

Air Toxics LTD.
Laboratory Services Since 1989

# SAMPLE RECEIPT SUMMARY Continued

**Client**

Mr. Shane Blauvelt
Parsons
290 Elwood Davis Road
Suite 312
Liverpool, NY 13088

**Sales Rep:**

**Phone**
315-451-9560 x2120

**Fax**

**Date Promised:**
**Date Completed:** 9/13/11
**Date Received:** 8/30/11
**PO#:**
**Project#:** 446109-03000 Farrington St.

**Total $:** $ 2,060.00
**Logged By:** JCW

| Fraction | Sample # | Analysis | Collected | Receipt Vac./Pres. | Amount$ |
|---|---|---|---|---|---|
| | | Blue Body Flow Controller (8) @ $15.00 each., Shipment 80705 | | | $120.00 |
| | | Blue Body Flow Controller (1) @ $15.00 each., Shipment 80876 | | | $15.00 |
| | | Fuel Surcharge (9) @ $5.00 each. | | | $45.00 |
| | | Client Specific EDD (8) @ $5.00 each. | | | $40.00 |
| | | eCVP (8) @ $5.00 each. | | | $40.00 |

**Note:** Samples received after 3 P.M. PST are considered to be received on the following work day.
Atlas Project Name/Profile#: Con Edison-Farrington Street/16136

**BILL TO:** Mr. Shane Blauvelt
Parsons
290 Elwood Davis Road
Suite 312
Liverpool, NY 13088

Analysis Code: pptv

**TERMS:**

Reporting Method: Modified TO-15-LL (Sp)/TICs (10)-Parsons (ConEd)

# Sample Discrepancy Report

**Identification**

**Initiated By:** KV **Project ID:**16136 **PM**: KV **Date:** 9/13/2011 **Discrepancy Type:** ☐ **1.** ☒ **2.** ☐ **3.**

**Workorder(s) affected:1108582** **Sample(s) affected:** VOID

## 1. Sample Receipt Discrepancies

**Narration Not Required:**

1.1. ☐ Sample container (cartridge/tube/VOA vial) was received broken, however sample was intact.
1.2. ☐ No brass cap on canister.
1.3. ☐ Date of Collection noted on first sample, but no arrow down to indicate all samples.

**Notify Lab for further determination:**

1.4. ☐ Tedlar bag received with minimal volume.

Initials: _____ Date: _____

**Narration Required in Lab Narrative and Sample Confirmation:**

1.5. ☐ COC was not filled out in ink.
1.6. ☐ COC improperly relinquished / received.
1.7. ☐ Sample tags / can numbers do not match the COC.
1.8. ☐ Sample date ☐ error / ☐ missing on COC but noted on sample tag (check one).
1.9. ☐ Custody Seal on the outside of the container was ☐ broken / ☐ improperly placed (check one).
1.10. ☐ ID-none on the sample Tag/Blank
1.11. ☐ Other (describe below).

**Describe the Discrepancy:** _____

## 2. Sample Receipt/Screening Discrepancies requiring PM notification

*Document on Cover Page of Sample Receipt Confirmation and in Receiving Notes of Lab Narrative*

**If Section II. is filled out PM must be notified within 24 hrs of initiation**

2.1. ☐ COC was not received with samples.
2.2. ☐ Analysis method(s) is ☐ not specified / ☐ incorrectly specified (check one) on the COC.
2.3. ☐ Incorrect sampling media / container for analysis requested.
2.4. ☐ Number of samples on the COC does not match the number of samples that were received.
2.5. ☐ Samples were received expired.
2.6. ☐ Sampling date (time for sulfur) is not documented for ☐ *some* / ☐ *any* samples (check one).
2.7. ☐ Sample received with amount of $H_2O$ in the Tedlar Bag.
2.8. ☐ Sample cannot be analyzed. Container was ☐ received broken / ☐ leaking / ☐ flat / ☐ defective.
2.9. ☐ Tedlar bag / canister received emitting a strong odor; Sample ☐ can / ☐ cannot (check one) be analyzed.
2.10. ☐ Tedlar Bag for Sulfur analysis has metal fitting.
2.11. ☐ Environmental Supply Company valves
2.12. ☐ Sorbent samples-sampling volume was not provided
2.13. ☐ Flow controller used – canister samples received at ambient or under pressure.
2.14. ☐ Canister was at ambient pressure at time of pressurization and (check all that apply):
  ☐ Canister failed leak check on two manifolds,
  ☐ Canister valve was open,
  ☐ Brass nut was loose/not present.
  ☐ Sample can be analyzed
  ☐ Cannot be analyzed
2.15. ☐ Canister sample received with a vacuum difference >5.0"Hg between the receipt vac. And the final vac. reported on the COC, indicating loss of vacuum.
2.16. ☐ Canister sample received at >15"Hg (*not* identified as a Trip/Field Blank).
2.17. ☐ Canister Trip Blank received at low vacuum (<25"Hg).
2.18. ☐ Sorbent Sample received outside method required temperature of 2°C to 6°C; ☐ ice / ☐ blue ice (check one) was present. A temp. Blank ☐ was / ☐ was not present (check one).
2.19. ☐ Flow Controller RPD of = 20% was not met.
2.20. ☐ Other (describe below)

**Initials:** **CD** **Date:** **8/30/2011** **Notify Receiving:** ☐ **Notify PM:** ☐

**Describe the Discrepancy:**

### *3.* Lab Discrepancies requiring Team Leader/PM notification

*Document in Analytical Notes of Lab Narrative*

**If Section III. is filled out PM must be notified within 24 hrs of initiation**

3.1. ☐ Tedlar Bag found to be leaking at the time of analysis; sample ☐ can / ☐ cannot (check one) be analyzed.

3.2. ☐ Tedlar Bag found to be flat/low volume; sample cannot be analyzed.

3.3. ☐ Sulfur samples received with insufficient time to analyze prior to expiration.

3.4. ☐ Canister found to be leaking at the time of analysis.

3.5. ☐ VOST tube saturated; bag dilution necessary.

3.6. ☐ Sample loss due to instrument malfunction / broken glassware.

3.7. ☐ Low/high surrogate recoveries noted in QC/sample(s) for extractable samples.

3.8. ☐ Reporting Limit was raised.

3.9. ☐ Post weight > Pre weight in field/lab Blank for PM10/TSP samples.

3.10. ☐ Other (describe below).

**Initials:** _____ **Date:** _____ **Notify Receiving:** ☐ **Notify PM:** ☐ _____

**Team Lead Initials:** _____ **Date:** _____

**Describe the Discrepancy:** _____

_____

_____

**How Does this Affect Client:** _____

_____

_____

**Project Manager Use Only**

**Project Manager Notification** ☒ **Section 2 Complete** ☐ **Section 3 Complete**

**Action:**

☒ It is not necessary to notify the client. Narrate the discrepancy in Receiving Notes/Analytical Notes of Lab Narrative.

PM Initials:KV Date: 9/13/2011

☐ Client notification required. See attached client contact / email, or comments below:

Client Notification:

PM Initials:_____ Person notified: _____ Date: _____

☐ Waiting for Client Reply

Comments: _____

_____

☐ Notify Lab Name: _____ Date: _____ **Notify Receiving:** ☐ _____

☐ **Additional notifications attached.**

**Additional Comments:**

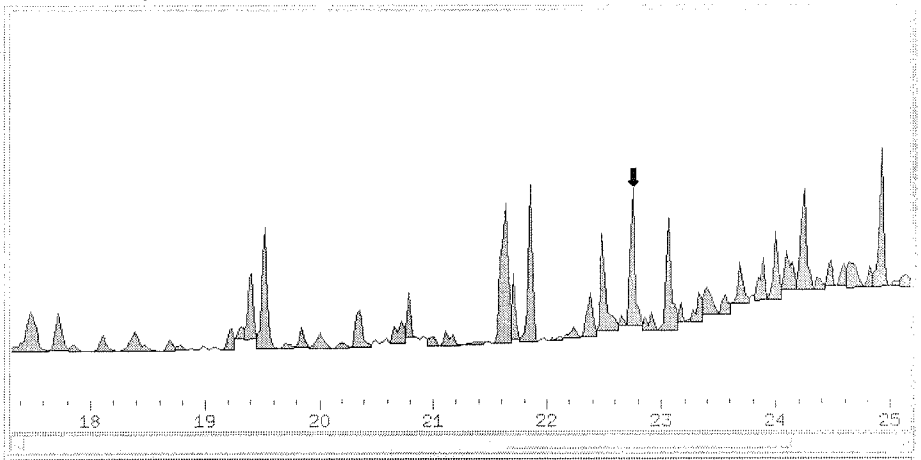
_____

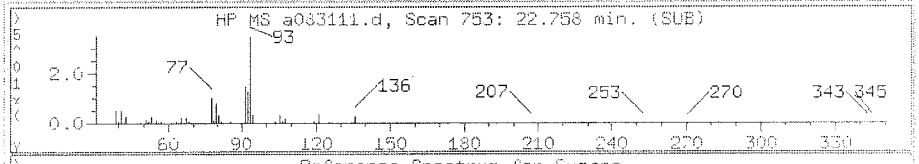
# Other Records

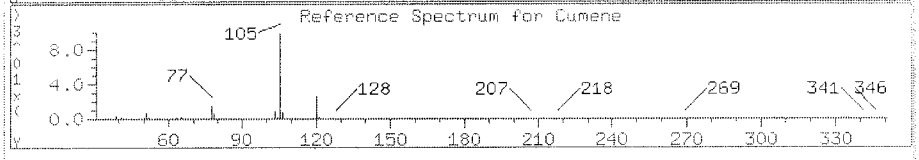
Sample: 1108582-01A  Type: SAMPLE  Inj.Date: 31-AUG-2011 15:44

- ! 83 1,1,2-Trichlor
- \- 84 Tetrachloroeth
- \- 85 2-Hexanone
- ! 86 Dibromochlorom
- 87 1,2-Dibromoeth
- \+ 89 Chlorobenzene
- \+ 91 Ethyl Benzene
- \- 93 m,p-Xylene
- \+ 94 o-Xylene
- \+ 95 Styrene
- 97 Bromoform
- **\+ 98 Cumene**
- \+ 103 1,1,2,2-Tetracl
- \+ 104 Propylbenzene
- \+ 107 4-Ethyltoluene
- \- 109 1,3,5-Trimethy
- \+ 112 1,2,4-Trimethy
- \+ 115 1,3-Dichlorobe
- \+ 117 1,4-Dichlorobe
- \+ 118 alpha-chloroto
- \+ 121 1,2-Dichlorobe
- 126 1,2,4-Trichlor
- 128 Hexachlorobuta
- \- 28 3-Chloroprene
- \- 59 2,2,4-Trimethy

a083111.d




| Hit# | RT(min) | Response | Amount | Conc | Ratio | Flags | Report: |
|---|---|---|---|---|---|---|---|
| 1 | 22.385 | 64874 | 0.3069 | 0.5493 | 100 | | |
| | 22.385 | 370 | | | 1 | | |
| **2** | **22.758** | **164001** | **0.7758** | **1.389** | **100** | | |
| | 22.810 | 25048 | | | 15 | | |

\- Mark Cumene Undetected.

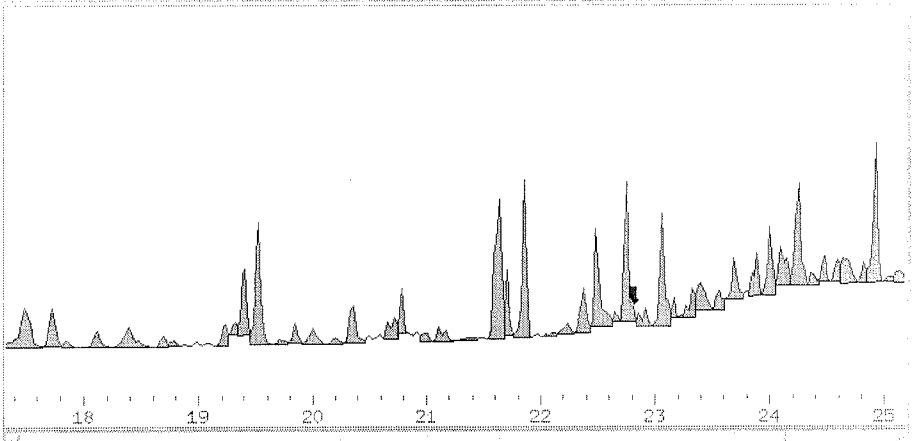
Before
9-13-11

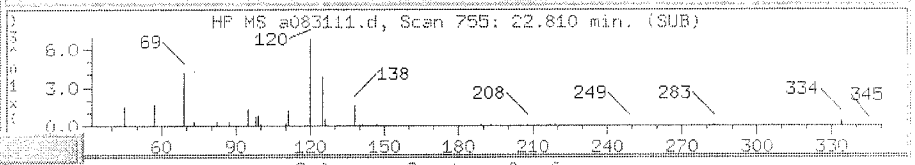
merged peaks

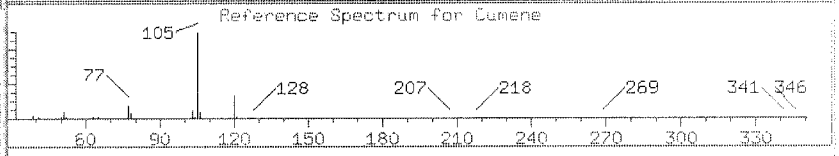
Sample: 1108582-01A Type: SAMPLE Inj.Date: 31-AUG-2011 15:44

! 83 1,1,2-Trichlor
+ 84 Tetrachloroeth
+ 85 2-Hexanone
! 86 Dibromochlorom
87 1,2-Dibromoeth
+ 89 Chlorobenzene
+ 91 Ethyl Benzene
+ 93 m,p-Xylene
+ 94 o-Xylene
+ 95 Styrene
97 BromoForm
98 Cumene
+ 103 1,1,2,2-Tetracl
+ 104 Propylbenzene
+ 107 4-Ethyltoluene
+ 109 1,3,5-Trimethy
+ 112 1,2,4-Trimethy
+ 115 1,3-Dichlorobe
+ 117 1,4-Dichlorobe
+ 118 alpha-chloroto
+ 121 1,2-Dichlorobe
126 1,2,4-Trichlor
128 Hexachlorobuta
+ 28 3-Chloroprene
+ 59 2,2,4-Trimethy

a083111.d




Manual Int

Time: 22.810
Area: 85671
Height: 31203

Done
Help

Snap to Data
Snap to Int Marks
Overlap Peaks
Assign Baseline
Split Peak

| Hit# | RT(min) | Response | Amount | Conc | Ratio | Flags | Report: |
|---|---|---|---|---|---|---|---|
| 1 | 22.810 | 85671 | 0.4053 | 0.7254 | 100 | M | |
| | 22.810 | 25048 | | | 29 | | |

- Mark Cumene Undetected.

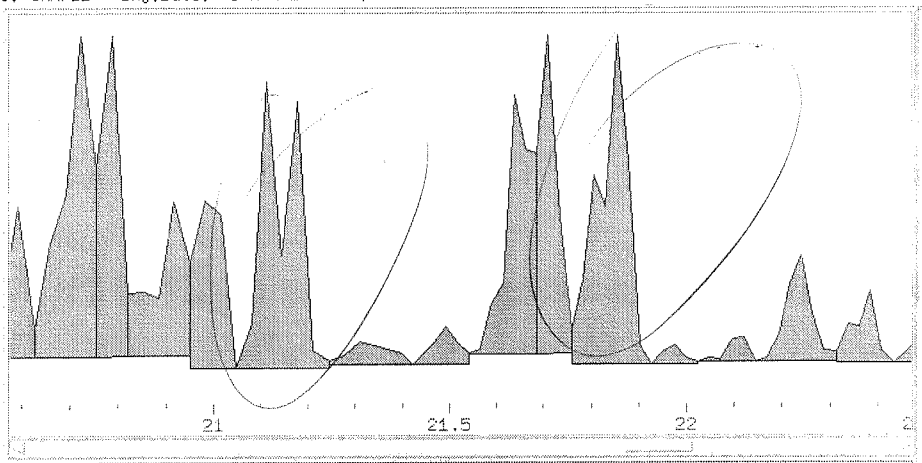
after
RJ 9-13-11

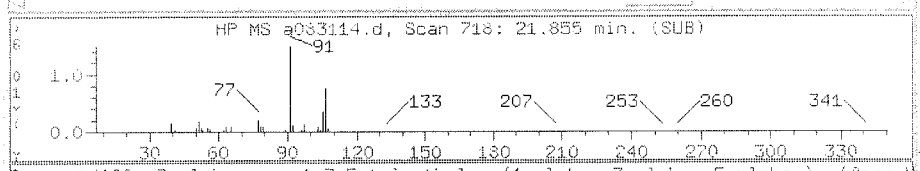
split peak

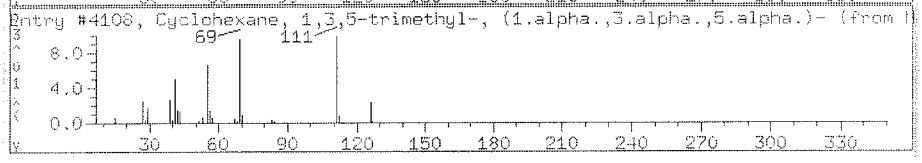
ample: 1108582-04A  Type: SAMPLE  Inj.Date: 31-AUG-2011 18:05

119 Indan
122 Indene
Unk; 1-Propene
Unk; 1-Propene, 2-
Unk; Unknown
Unk; 1-Pentene
Unk; (E)-2-BUTENYL
Unk; Heptane, 2-m
Unk; Cyclohexane,
Unk; Octane
Unk; Unknown
Unk; Cyclohexane,
Unk; Cyclohexane,
Unk; Heptane, 2,6
Unk; 2-Undecene,
Unk; Cyclohexane,
Unk; Cyclohexane,
Unk; Cyclohexane,
Unk; Unknown
Unk; Octane, 2,7-
Unk; Cyclohexane,
Unk; Cyclohexane,
Unk; Unknown
Unk; Cyclohexane,
Unk; .alpha.-Pine

083114.d



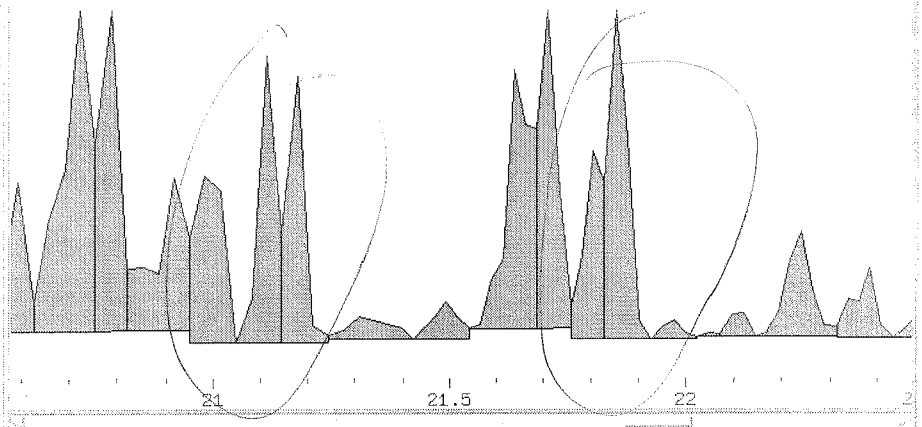



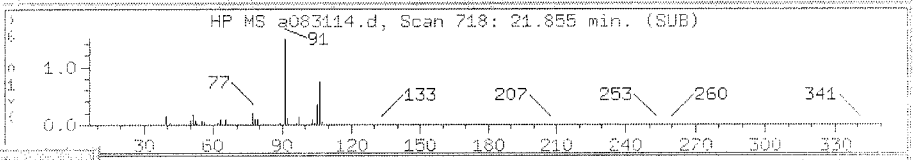

| Hit# | RT(min) | Response | Amount | Conc | Ratio | Flags | Report: |
|---|---|---|---|---|---|---|---|
| | 21.113 | 27511949 | 110.30 | 926.51 | | NJ | |
| | #00004108: | Cyclohexane, 1,3,5-trimethyl-, (1.alpha. | | | | | |
| | #00004099: | Cyclohexane, 1,2,4-trimethyl-, (1.alpha. | | | | | |
| | #00003879: | 2-Pyrazoline, 1-isopropyl-5-methyl- | | | | | |
| | #00004076: | Cyclohexane, 1,3,5-trimethyl- | | | | | |
| | #00004094: | Cyclohexane, 1,2,4-trimethyl- | | | | | |

Before
PD 9-13-11
Merged TICs

ample: 1108582-04A  Type: SAMPLE  Inj.Date: 31-AUG-2011 18:05

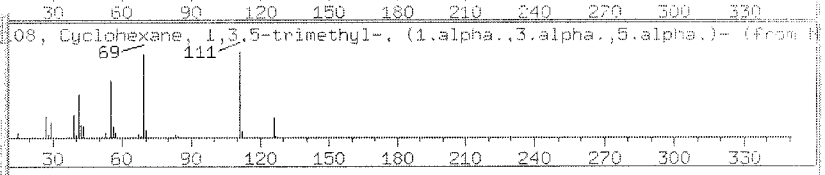
119 Indan
122 Indene
Unk; 1-Propene
Unk; 1-Propene, 2-
Unk; Unknown
Unk; 1-Pentene
Unk; (E)-2-BUTENYI
Unk; Heptane, 2-m
Unk; Cyclohexane,
Unk; Octane
Unk; Unknown
Unk; Cyclohexane,
Unk; Cyclohexane,
Unk; Heptane, 2,6-
Unk; 2-Undecene, 1
Unk; Cyclohexane,
Unk; Cyclohexane,
Unk; Cyclohexane,
Unk; Unknown
Unk; Octane, 2,7-
Unk; Cyclohexane,
Unk; Cyclohexane,
Unk; Unknown
Unk; Cyclohexane,
Unk; .alpha.-Pine




083114.d

Manual Int
Time: 21.855
Area: 21173224
Height: 7412502
Done
Help
Snap to Data
Snap to Int Marks
Overlap Peaks
Assign Baseline
Split Peak




| Hit# | RT(min) | Response | Amount | Conc | Ratio | Flags | Report: |
|---|---|---|---|---|---|---|---|
| | 21.113 | 16607666 | 66.582 | 559.29 | | NJ | |
| | #00004108: | Cyclohexane, 1,3,5-trimethyl-, (1.alpha. | | | | | |
| | #00004099: | Cyclohexane, 1,2,4-trimethyl-, (1.alpha. | | | | | |
| | #00003979: | 2-Pyrazoline, 1-isopropyl-5-methyl- | | | | | |
| | #00004076: | Cyclohexane, 1,3,5-trimethyl- | | | | | |
| | #00004094: | Cyclohexane, 1,2,4-trimethyl- | | | | | |

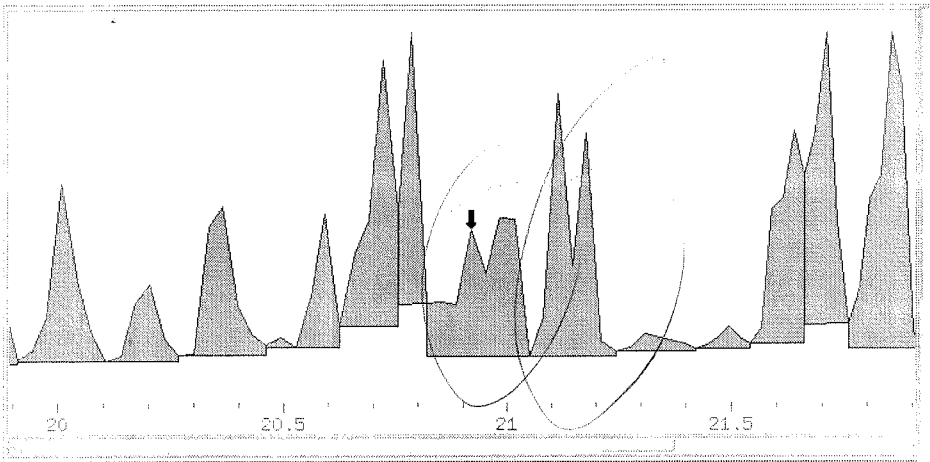
After
9-13-11
Split
TICs

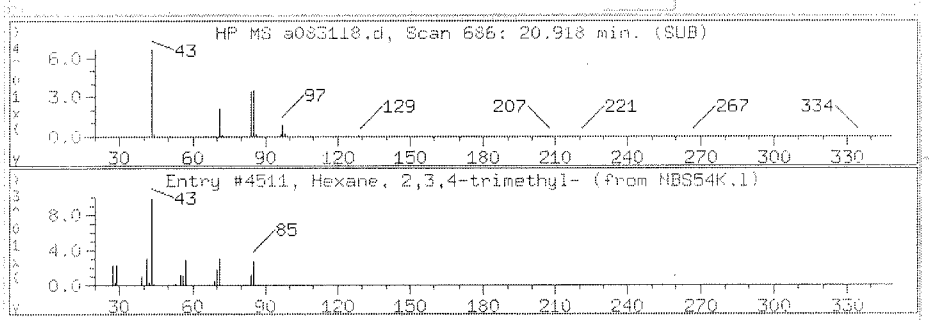
Quantitation Data Browser Process Spectra Help

ample: 1108582-08A Type: SAMPLE Inj.Date: 31-AUG-2011 21:18

54 2,3-Dimethylpen
65 Thiophene
119 Indan
122 Indene
Unk; 2-Butene, (Z
Unk; Cyclopentano
Unk; Cyclohexane,
Unk; Cyclohexane,
Unk; Cyclohexane,
Unk; Hexane, 3-me
Unk; Cyclohexane,
Unk; Cyclohexane,
Unk; Unknown
Unk; Hexane, 2,3,
Unk; Cyclohexane,
Unk; Cyclohexane,
Unk; 2-Heptanone
Unk; .alpha.-Pinen
Unk; Eicosane, 10
Unk; Decane, 2,2,
Unk; Undecane, 4,
Unk; Bicyclo[2.2.
Unk; Heptane, 4-e
Unk; Unknown
Unk; 5-Undecene,

083118.d







| Hit# | RT(min) | Response | Amount | Conc | Ratio | Flags | Report: |
|---|---|---|---|---|---|---|---|
| | 20.983 | 7463022 | 12.754 | 42.852 | | NJ | |
| | #00004511: | Hexane, 2,3,4-trimethyl- | | | | | |
| | #00016204: | Undecane, 5,7-dimethyl- | | | | | |
| | #00004520: | Heptane, 2,6-dimethyl- | | | | | |
| | #00016250: | Undecane, 2,7-dimethyl- | | | | | |
| | #00016223: | Decane, 2,4,6-trimethyl- | | | | | |

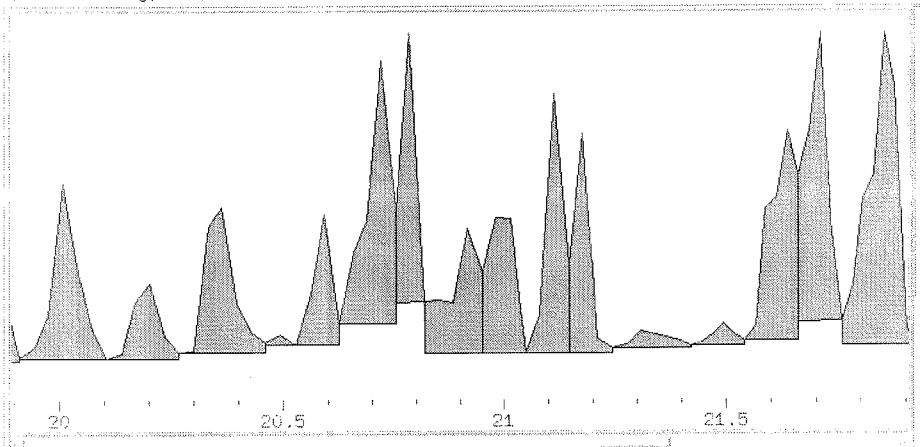
Before
9-13-11

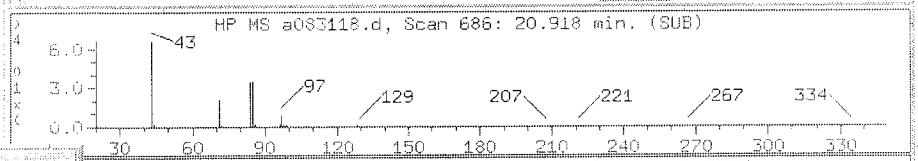
Merged TICs

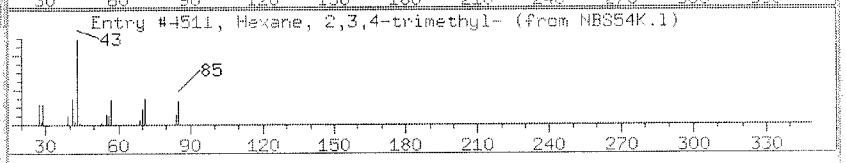
Sample: 1108582-08A  Type: SAMPLE  Inj.Date: 31-AUG-2011 21:18

54 2,3-Dimethylpe
65 Thiophene
119 Indan
!122 Indene
Unk; 2-Butene, (Z
Unk; Cyclopentano
Unk; Cyclohexane,
Unk; Cyclohexane,
Unk; Cyclohexane,
Unk; Hexane, 3-me
Unk; Cyclohexane,
Unk; Cyclohexane,
Unk; Unknown
Unk; Hexane, 2,3,
Unk; Cyclohexane,
Unk; Cyclohexane,
Unk; 2-Heptanone
Unk; .alpha.-Pine
Unk; Eicosane, 10
Unk; Decane, 2,2,
Unk; Undecane, 4,
Unk; Bicyclo[2.2.
Unk; Heptane, 4-e
Unk; Unknown
Unk; 5-Undecene,

a083118.d




Manual Int
Time: 21.178
Area: 3884343
Height: 1333134
Done
Help
Snap to Data
Snap to Int Marks
Overlap Peaks
Assign Baseline
Split Peak

| Hit# | RT(min) | Response | Amount | Conc | Ratio | Flags | Report: |
|---|---|---|---|---|---|---|---|
| | 20.918 | 4275739 | 7.307 | 24.551 | | NJ | |
| | #00004511: | Hexane, 2,3,4-trimethyl- | | | | | |
| | #00016204: | Undecane, 5,7-dimethyl- | | | | | |
| | #00004520: | Heptane, 2,6-dimethyl- | | | | | |
| | #00016250: | Undecane, 2,7-dimethyl- | | | | | |
| | #00016223: | Decane, 2,4,6-trimethyl- | | | | | |

After
AT 9-13-11

Split Tic's

# DILUTION FACTORS

$$\text{Dilution Factor} = \frac{\text{Final Pressure}}{\text{Initial Vacuum}} = \frac{14.7 \text{ psi} + \text{Final Pressure (psi)}}{14.7 \text{ psi} - [(\text{Initial Pressure ("Hg)}) (14.7 \text{ psi} / 30 \text{ "Hg})]}$$

$$\text{Dilution Factor} = \frac{\text{Final Pressure}}{\text{Initial Pressure}} = \frac{14.7 \text{ psi} + \text{Final Pressure (psi)}}{14.7 \text{ psi} + \text{Initial Pressure (psi)}}$$

| Initial Vacuum ("Hg) | **5 psi** Final Press. Dil. Factor | **10 psi** Final Press. Dil. Factor | **15 psi** Final Press. Dil. Factor |
|---|---|---|---|
| 0.0 | 1.34 | 1.68 | 2.02 |
| 0.5 | 1.36 | 1.71 | 2.05 |
| 1.0 | 1.39 | 1.74 | 2.09 |
| 1.5 | 1.41 | 1.77 | 2.13 |
| 2.0 | 1.44 | 1.80 | 2.16 |
| 2.5 | 1.46 | 1.83 | 2.20 |
| 3.0 | 1.49 | 1.87 | 2.24 |
| 3.5 | 1.52 | 1.90 | 2.29 |
| 4.0 | 1.55 | 1.94 | 2.33 |
| 4.5 | 1.58 | 1.98 | 2.38 |
| 5.0 | 1.61 | 2.02 | 2.42 |
| 5.5 | 1.64 | 2.06 | 2.47 |
| 6.0 | 1.68 | 2.10 | 2.53 |
| 6.5 | 1.71 | 2.15 | 2.58 |
| 7.0 | 1.75 | 2.19 | 2.64 |
| 7.5 | 1.79 | 2.24 | 2.69 |
| 8.0 | 1.83 | 2.29 | 2.76 |
| 8.5 | 1.87 | 2.34 | 2.82 |
| 9.0 | 1.91 | 2.40 | 2.89 |
| 9.5 | 1.96 | 2.46 | 2.96 |
| 10.0 | 2.01 | 2.52 | 3.03 |
| 10.5 | 2.06 | 2.59 | 3.11 |
| 11.0 | 2.12 | 2.65 | 3.19 |
| 11.5 | 2.17 | 2.72 | 3.28 |
| 12.0 | 2.23 | 2.80 | 3.37 |
| 12.5 | 2.30 | 2.88 | 3.46 |
| 13.0 | 2.36 | 2.97 | 3.57 |
| 13.5 | 2.44 | 3.06 | 3.67 |
| 14.0 | 2.51 | 3.15 | 3.79 |
| 14.5 | 2.59 | 3.25 | 3.91 |
| 15.0 | 2.68 | 3.36 | 4.04 |
| 15.5 | 2.77 | 3.48 | 4.18 |
| 16.0 | 2.87 | 3.60 | 4.33 |
| 16.5 | 2.98 | 3.73 | 4.49 |
| 17.0 | 3.09 | 3.88 | 4.66 |
| 17.5 | 3.22 | 4.03 | 4.85 |
| 18.0 | 3.35 | 4.20 | 5.05 |
| 18.5 | 3.50 | 4.38 | 5.27 |
| 19.0 | 3.65 | 4.58 | 5.51 |
| 19.5 | 3.83 | 4.80 | 5.77 |
| 20.0 | 4.02 | 5.04 | 6.06 |
| 20.5 | 4.23 | 5.31 | 6.38 |

| Initial Vacuum ("Hg) | **5 psi** Final Press. Dil. Factor | **10 psi** Final Press. Dil. Factor | **15 psi** Final Press. Dil. Factor |
|---|---|---|---|
| 21.0 | 4.47 | 5.60 | 6.73 |
| 21.5 | 4.73 | 5.93 | 7.13 |
| 22.0 | 5.03 | 6.30 | 7.58 |
| 22.5 | 5.36 | 6.72 | 8.08 |
| 23.0 | 5.74 | 7.20 | 8.66 |
| 23.5 | 6.19 | 7.76 | 9.32 |
| 24.0 | 6.70 | 8.40 | 10.10 |
| 24.5 | 7.31 | 9.17 | 11.02 |
| 25.0 | 8.04 | 10.08 | 12.12 |
| 25.5 | 8.93 | 11.20 | 13.47 |
| 26.0 | 10.05 | 12.60 | 15.15 |
| 26.5 | 11.49 | 14.40 | 17.32 |
| 27.0 | 13.40 | 16.80 | 20.20 |
| 27.5 | 16.08 | 20.16 | 24.24 |
| 28.0 | 20.10 | 25.20 | 30.31 |
| 28.5 | 26.80 | 33.61 | 40.41 |
| 29.0 | 40.20 | 50.41 | 60.61 |

| Initial Pressure (psi) | **5 psi** Final Press. Dil. Factor | **10 psi** Final Press. Dil. Factor | **15 psi** Final Press. Dil. Factor |
|---|---|---|---|
| 0.0 | 1.34 | 1.68 | 2.02 |
| 0.2 | 1.32 | 1.66 | 1.99 |
| 0.4 | 1.30 | 1.64 | 1.97 |
| 0.6 | 1.29 | 1.61 | 1.94 |
| 0.8 | 1.27 | 1.59 | 1.92 |
| 1.0 | 1.25 | 1.57 | 1.89 |
| 1.2 | 1.24 | 1.55 | 1.87 |
| 1.4 | 1.22 | 1.53 | 1.84 |
| 1.6 | 1.21 | 1.52 | 1.82 |
| 1.8 | 1.19 | 1.50 | 1.80 |
| 2.0 | 1.18 | 1.48 | 1.78 |
| 2.2 | 1.17 | 1.46 | 1.76 |
| 2.4 | 1.15 | 1.44 | 1.74 |
| 2.6 | 1.14 | 1.43 | 1.72 |
| 2.8 | 1.13 | 1.41 | 1.70 |
| 3.0 | 1.11 | 1.40 | 1.68 |
| 3.2 | 1.10 | 1.38 | 1.66 |
| 3.4 | 1.09 | 1.36 | 1.64 |
| 3.6 | 1.08 | 1.35 | 1.62 |
| 3.8 | 1.06 | 1.34 | 1.61 |
| 4.0 | 1.05 | 1.32 | 1.59 |

# DILUTION FACTORS

$$\text{Dilution Factor} = \frac{\text{Final Pressure}}{\text{Initial Pressure}} = \frac{\text{14.7 psi + Final Pressure (psi)}}{\text{14.7 psi + Initial Pressure (psi)}}$$

| Initial Pressure (psi) | **5 psi** Final Press. Dil. Factor | **10 psi** Final Press. Dil. Factor | **15 psi** Final Press. Dil. Factor |
|---|---|---|---|
| 0.0 | 1.34 | 1.68 | 2.02 |
| 0.2 | 1.32 | 1.66 | 1.99 |
| 0.4 | 1.30 | 1.64 | 1.97 |
| 0.6 | 1.29 | 1.61 | 1.94 |
| 0.8 | 1.27 | 1.59 | 1.92 |
| 1.0 | 1.25 | 1.57 | 1.89 |
| 1.2 | 1.24 | 1.55 | 1.87 |
| 1.4 | 1.22 | 1.53 | 1.84 |
| 1.6 | 1.21 | 1.52 | 1.82 |
| 1.8 | 1.19 | 1.50 | 1.80 |
| 2.0 | 1.18 | 1.48 | 1.78 |
| 2.2 | 1.17 | 1.46 | 1.76 |
| 2.4 | 1.15 | 1.44 | 1.74 |
| 2.6 | 1.14 | 1.43 | 1.72 |
| 2.8 | 1.13 | 1.41 | 1.70 |
| 3.0 | 1.11 | 1.40 | 1.68 |
| 3.2 | 1.10 | 1.38 | 1.66 |
| 3.4 | 1.09 | 1.36 | 1.64 |
| 3.6 | 1.08 | 1.35 | 1.62 |
| 3.8 | 1.06 | 1.34 | 1.61 |
| 4.0 | 1.05 | 1.32 | 1.59 |
| 4.2 | 1.04 | 1.31 | 1.57 |
| 4.4 | 1.03 | 1.29 | 1.55 |
| 4.6 | 1.02 | 1.28 | 1.54 |
| 4.8 | 1.01 | 1.27 | 1.52 |
| 5.0 | 1.00 | 1.25 | 1.51 |
| 5.2 | NA | 1.24 | 1.49 |
| 5.4 | NA | 1.23 | 1.48 |
| 5.6 | NA | 1.22 | 1.46 |
| 5.8 | NA | 1.20 | 1.45 |
| 6.0 | NA | 1.19 | 1.43 |
| 6.2 | NA | 1.18 | 1.42 |
| 6.4 | NA | 1.17 | 1.41 |
| 6.6 | NA | 1.16 | 1.39 |
| 6.8 | NA | 1.15 | 1.38 |
| 7.0 | NA | 1.14 | 1.37 |
| 7.2 | NA | 1.13 | 1.36 |
| 7.4 | NA | 1.12 | 1.34 |
| 7.6 | NA | 1.11 | 1.33 |
| 7.8 | NA | 1.10 | 1.32 |
| 8.0 | NA | 1.09 | 1.31 |
| 8.2 | NA | 1.08 | 1.30 |
| 8.4 | NA | 1.07 | 1.29 |
| 8.6 | NA | 1.06 | 1.27 |
| 8.8 | NA | 1.05 | 1.26 |
| 9.0 | NA | 1.04 | 1.25 |
| 9.2 | NA | 1.03 | 1.24 |
| 9.4 | NA | 1.02 | 1.23 |
| 9.6 | NA | 1.02 | 1.22 |
| 9.8 | NA | 1.01 | 1.21 |
| 10.0 | NA | 1.00 | 1.20 |
| 10.2 | NA | NA | 1.19 |
| 10.4 | NA | NA | 1.18 |
| 10.6 | NA | NA | 1.17 |
| 10.8 | NA | NA | 1.16 |
| 11.0 | NA | NA | 1.16 |
| 11.2 | NA | NA | 1.15 |
| 11.4 | NA | NA | 1.14 |
| 11.6 | NA | NA | 1.13 |
| 11.8 | NA | NA | 1.12 |
| 12.0 | NA | NA | 1.11 |
| 12.2 | NA | NA | 1.10 |
| 12.4 | NA | NA | 1.10 |
| 12.6 | NA | NA | 1.09 |
| 12.8 | NA | NA | 1.08 |
| 13.0 | NA | NA | 1.07 |
| 13.2 | NA | NA | 1.06 |
| 13.4 | NA | NA | 1.06 |
| 13.6 | NA | NA | 1.05 |
| 13.8 | NA | NA | 1.04 |
| 14.0 | NA | NA | 1.03 |
| 14.2 | NA | NA | 1.03 |
| 14.4 | NA | NA | 1.02 |
| 14.6 | NA | NA | 1.01 |
| 14.8 | NA | NA | 1.01 |

# Compound List

**Modified TO-15-LL (Sp)/TICs (10)-Parsons (ConEd)**

| CAS Number | Compound | Detection Limit ppbv | Type |
|---|---|---|---|
| 75-71-8 | Freon 12 | 0.10 | |
| 76-14-2 | Freon 114 | 0.10 | |
| 106-99-0 | 1,3-Butadiene | 0.10 | |
| 74-83-9 | Bromomethane | 0.10 | |
| 75-00-3 | Chloroethane | 0.50 | |
| 75-69-4 | Freon 11 | 0.10 | |
| 64-17-5 | Ethanol | 0.50 | |
| 76-13-1 | Freon 113 | 0.10 | |
| 75-35-4 | 1,1-Dichloroethene | 0.10 | |
| 67-64-1 | Acetone | 0.50 | |
| 67-63-0 | 2-Propanol | 0.50 | |
| 75-15-0 | Carbon Disulfide | 0.50 | |
| 107-05-1 | 3-Chloropropene | 0.50 | |
| 75-09-2 | Methylene Chloride | 0.20 | |
| 1634-04-4 | Methyl tert-butyl ether | 0.10 | |
| 156-60-5 | trans-1,2-Dichloroethene | 0.10 | |
| 110-54-3 | Hexane | 0.10 | |
| 75-34-3 | 1,1-Dichloroethane | 0.10 | |
| 78-93-3 | 2-Butanone (Methyl Ethyl Ketone) | 0.50 | |
| 156-59-2 | cis-1,2-Dichloroethene | 0.10 | |
| 109-99-9 | Tetrahydrofuran | 0.50 | |
| 67-66-3 | Chloroform | 0.10 | |
| 71-55-6 | 1,1,1-Trichloroethane | 0.10 | |
| 110-82-7 | Cyclohexane | 0.10 | |
| 56-23-5 | Carbon Tetrachloride | 0.10 | |
| 540-84-1 | 2,2,4-Trimethylpentane | 0.50 | |
| 71-43-2 | Benzene | 0.10 | |
| 107-06-2 | 1,2-Dichloroethane | 0.10 | |
| 142-82-5 | Heptane | 0.10 | |
| 79-01-6 | Trichloroethene | 0.10 | |
| 78-87-5 | 1,2-Dichloropropane | 0.10 | |
| 123-91-1 | 1,4-Dioxane | 0.10 | |
| 75-27-4 | Bromodichloromethane | 0.10 | |
| 10061-01-5 | cis-1,3-Dichloropropene | 0.10 | |
| 108-10-1 | 4-Methyl-2-pentanone | 0.10 | |
| 108-88-3 | Toluene | 0.10 | |
| 10061-02-6 | trans-1,3-Dichloropropene | 0.10 | |
| 79-00-5 | 1,1,2-Trichloroethane | 0.10 | |
| 127-18-4 | Tetrachloroethene | 0.10 | |
| 591-78-6 | 2-Hexanone | 0.50 | |
| 124-48-1 | Dibromochloromethane | 0.10 | |
| 106-93-4 | 1,2-Dibromoethane (EDB) | 0.10 | |
| 108-90-7 | Chlorobenzene | 0.10 | |
| 100-41-4 | Ethyl Benzene | 0.10 | |
| 108-38-3 | m,p-Xylene | 0.10 | |
| 95-47-6 | o-Xylene | 0.10 | |

# Compound List

**Modified TO-15-LL (Sp)/TICs (10)-Parsons (ConEd)**

| CAS Number | Compound | Detection Limit ppbv | Type |
|---|---|---|---|
| 100-42-5 | Styrene | 0.10 | |
| 75-25-2 | Bromoform | 0.10 | |
| 98-82-8 | Cumene | 0.10 | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 0.10 | |
| 103-65-1 | Propylbenzene | 0.10 | |
| 622-96-8 | 4-Ethyltoluene | 0.10 | |
| 108-67-8 | 1,3,5-Trimethylbenzene | 0.10 | |
| 95-63-6 | 1,2,4-Trimethylbenzene | 0.10 | |
| 541-73-1 | 1,3-Dichlorobenzene | 0.10 | |
| 106-46-7 | 1,4-Dichlorobenzene | 0.10 | |
| 100-44-7 | alpha-Chlorotoluene | 0.10 | |
| 95-50-1 | 1,2-Dichlorobenzene | 0.10 | |
| 120-82-1 | 1,2,4-Trichlorobenzene | 0.50 | |
| 87-68-3 | Hexachlorobutadiene | 0.50 | |
| 17060-07-0 | 1,2-Dichloroethane-d4 | | |
| 2037-26-5 | Toluene-d8 | | |
| 460-00-4 | 4-Bromofluorobenzene | | |
| 565-59-3 | 2,3-Dimethylpentane | 0.50 | |
| 107-83-5 | 2-Methylpentane | 0.50 | |
| 95-13-6 | Indene | 0.50 | |
| 496-11-7 | Indan | 0.50 | |
| 78-78-4 | Isopentane | 0.50 | |
| 91-20-3 | Naphthalene | 0.50 | |
| 110-02-1 | Thiophene | 0.50 | |
| 74-87-3 | Chloromethane | 0.10 | |
| 75-01-4 | Vinyl Chloride | 0.10 | |

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# Media Certification Report

Canister Number: 6L#25250
Can#: 80705-25250
Date : 08/17/11 20:43
Data File: i081709.d

| Name | CAS | Conc. | Units |
|---|---|---|---|
| 2-Methylpentane | 107-83-5 | ND | ppbv |
| Thiophene | 110-02-1 | ND | ppbv |
| Indan | 496-11-7 | ND | ppbv |
| 2,2,4-Trimethylpentane | 540-84-1 | ND | ppbv |
| 2,3-Dimethylpentane | 565-59-3 | ND | ppbv |
| Indene | 95-13-6 | ND | ppbv |
| 1,2-Dichloroethane-d4 | 17060-07-0 | 97.00 | % Recovery |
| Toluene-d8 | 2037-26-5 | 97.00 | % Recovery |
| 4-Bromofluorobenzene | 460-00-4 | 104.00 | % Recovery |

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# Media Certification Report

Canister Number: 6L#25250
Can#: 80705-25250a
Date : 08/17/11 20:43
Data File: i081709sim.d

| Name | CAS | Conc. | Units |
|---|---|---|---|
| Ethyl Benzene | 100-41-4 | ND | ppbv |
| Styrene | 100-42-5 | ND | ppbv |
| alpha-Chlorotoluene | 100-44-7 | ND | ppbv |
| cis-1,3-Dichloropropene | 10061-01-5 | ND | ppbv |
| trans-1,3-Dichloropropene | 10061-02-6 | ND | ppbv |
| Propylbenzene | 103-65-1 | ND | ppbv |
| 1,4-Dichlorobenzene | 106-46-7 | ND | ppbv |
| 1,2-Dibromoethane (EDB) | 106-93-4 | ND | ppbv |
| Butane | 106-97-8 | ND | ppbv |
| 1,3-Butadiene | 106-99-0 | ND | ppbv |
| 3-Chloropropene | 107-05-1 | ND | ppbv |
| 1,2-Dichloroethane | 107-06-2 | ND | ppbv |
| Vinyl Acetate | 108-05-4 | ND | ppbv |
| 4-Methyl-2-pentanone | 108-10-1 | ND | ppbv |
| m,p-Xylene | 108-38-3 | ND | ppbv |
| 1,3,5-Trimethylbenzene | 108-67-8 | ND | ppbv |
| Methylcyclohexane | 108-87-2 | ND | ppbv |
| Toluene | 108-88-3 | ND | ppbv |
| Chlorobenzene | 108-90-7 | ND | ppbv |
| Tetrahydrofuran | 109-99-9 | ND | ppbv |
| Hexane | 110-54-3 | ND | ppbv |
| Cyclohexane | 110-82-7 | ND | ppbv |
| Propylene | 115-07-1 | ND | ppbv |
| 1,2,4-Trichlorobenzene | 120-82-1 | ND | ppbv |
| 1,4-Dioxane | 123-91-1 | ND | ppbv |
| Dibromochloromethane | 124-48-1 | ND | ppbv |
| Tetrachloroethene | 127-18-4 | ND | ppbv |
| Heptane | 142-82-5 | ND | ppbv |
| cis-1,2-Dichloroethene | 156-59-2 | ND | ppbv |
| trans-1,2-Dichloroethene | 156-60-5 | ND | ppbv |
| Methyl tert-butyl ether | 1634-04-4 | ND | ppbv |
| 2,2,4-Trimethylpentane | 540-84-1 | ND | ppbv |
| 1,3-Dichlorobenzene | 541-73-1 | ND | ppbv |
| Carbon Tetrachloride | 56-23-5 | ND | ppbv |
| 2-Hexanone | 591-78-6 | ND | ppbv |
| 4-Ethyltoluene | 622-96-8 | ND | ppbv |
| Ethanol | 64-17-5 | ND | ppbv |
| 2-Propanol | 67-63-0 | ND | ppbv |
| Acetone | 67-64-1 | ND | ppbv |
| Chloroform | 67-66-3 | ND | ppbv |
| Benzene | 71-43-2 | ND | ppbv |
| 1,1,1-Trichloroethane | 71-55-6 | ND | ppbv |
| Bromomethane | 74-83-9 | ND | ppbv |

| Name | CAS | Conc. | Units |
|---|---|---|---|
| Chloromethane | 74-87-3 | ND | ppbv |
| Chloroethane | 75-00-3 | ND | ppbv |
| Vinyl Chloride | 75-01-4 | ND | ppbv |
| Methylene Chloride | 75-09-2 | ND | ppbv |
| Carbon Disulfide | 75-15-0 | ND | ppbv |
| Bromoform | 75-25-2 | ND | ppbv |
| Bromodichloromethane | 75-27-4 | ND | ppbv |
| 1,1-Dichloroethane | 75-34-3 | ND | ppbv |
| 1,1-Dichloroethene | 75-35-4 | ND | ppbv |
| tert-Butyl alcohol | 75-65-0 | ND | ppbv |
| Freon 11 | 75-69-4 | ND | ppbv |
| Freon 12 | 75-71-8 | ND | ppbv |
| Freon 113 | 76-13-1 | ND | ppbv |
| Freon 114 | 76-14-2 | ND | ppbv |
| Isopentane | 78-78-4 | ND | ppbv |
| 1,2-Dichloropropane | 78-87-5 | ND | ppbv |
| 2-Butanone (Methyl Ethyl | 78-93-3 | ND | ppbv |
| 1,1,2-Trichloroethane | 79-00-5 | ND | ppbv |
| Trichloroethene | 79-01-6 | ND | ppbv |
| 1,1,2,2-Tetrachloroethane | 79-34-5 | ND | ppbv |
| Hexachlorobutadiene | 87-68-3 | ND | ppbv |
| Naphthalene | 91-20-3 | ND | ppbv |
| o-Xylene | 95-47-6 | ND | ppbv |
| 1,2-Dichlorobenzene | 95-50-1 | ND | ppbv |
| 1,2,4-Trimethylbenzene | 95-63-6 | ND | ppbv |
| Cumene | 98-82-8 | ND | ppbv |
| 1,2-Dichloroethane-d4 | 17060-07-0 | 108.00 | % Recovery |
| Toluene-d8 | 2037-26-5 | 98.00 | % Recovery |
| 4-Bromofluorobenzene | 460-00-4 | 90.00 | % Recovery |

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# Media Certification Report

Canister Number: 6L#34006
Can#: 80705-34006
Date : 08/17/11 21:19
Data File: i081710.d

| Name | CAS | Conc. | Units |
|---|---|---|---|
| 2-Methylpentane | 107-83-5 | ND | ppbv |
| Thiophene | 110-02-1 | ND | ppbv |
| Indan | 496-11-7 | ND | ppbv |
| 2,2,4-Trimethylpentane | 540-84-1 | ND | ppbv |
| 2,3-Dimethylpentane | 565-59-3 | ND | ppbv |
| Indene | 95-13-6 | ND | ppbv |
| 1,2-Dichloroethane-d4 | 17060-07-0 | 83.00 | % Recovery |
| Toluene-d8 | 2037-26-5 | 94.00 | % Recovery |
| 4-Bromofluorobenzene | 460-00-4 | 105.00 | % Recovery |

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# Media Certification Report

Canister Number: 6L#34006
Can#: 80705-34006a
Date : 08/17/11 21:19
Data File: i081710sim.d

| Name | CAS | Conc. | Units |
|---|---|---|---|
| Ethyl Benzene | 100-41-4 | ND | ppbv |
| Styrene | 100-42-5 | ND | ppbv |
| alpha-Chlorotoluene | 100-44-7 | ND | ppbv |
| cis-1,3-Dichloropropene | 10061-01-5 | ND | ppbv |
| trans-1,3-Dichloropropene | 10061-02-6 | ND | ppbv |
| Propylbenzene | 103-65-1 | ND | ppbv |
| 1,4-Dichlorobenzene | 106-46-7 | ND | ppbv |
| 1,2-Dibromoethane (EDB) | 106-93-4 | ND | ppbv |
| Butane | 106-97-8 | ND | ppbv |
| 1,3-Butadiene | 106-99-0 | ND | ppbv |
| 3-Chloropropene | 107-05-1 | ND | ppbv |
| 1,2-Dichloroethane | 107-06-2 | ND | ppbv |
| Vinyl Acetate | 108-05-4 | ND | ppbv |
| 4-Methyl-2-pentanone | 108-10-1 | ND | ppbv |
| m,p-Xylene | 108-38-3 | ND | ppbv |
| 1,3,5-Trimethylbenzene | 108-67-8 | ND | ppbv |
| Methylcyclohexane | 108-87-2 | ND | ppbv |
| Toluene | 108-88-3 | ND | ppbv |
| Chlorobenzene | 108-90-7 | ND | ppbv |
| Tetrahydrofuran | 109-99-9 | ND | ppbv |
| Hexane | 110-54-3 | ND | ppbv |
| Cyclohexane | 110-82-7 | ND | ppbv |
| Propylene | 115-07-1 | ND | ppbv |
| 1,2,4-Trichlorobenzene | 120-82-1 | ND | ppbv |
| 1,4-Dioxane | 123-91-1 | ND | ppbv |
| Dibromochloromethane | 124-48-1 | ND | ppbv |
| Tetrachloroethene | 127-18-4 | ND | ppbv |
| Heptane | 142-82-5 | ND | ppbv |
| cis-1,2-Dichloroethene | 156-59-2 | ND | ppbv |
| trans-1,2-Dichloroethene | 156-60-5 | ND | ppbv |
| Methyl tert-butyl ether | 1634-04-4 | ND | ppbv |
| 2,2,4-Trimethylpentane | 540-84-1 | ND | ppbv |
| 1,3-Dichlorobenzene | 541-73-1 | ND | ppbv |
| Carbon Tetrachloride | 56-23-5 | ND | ppbv |
| 2-Hexanone | 591-78-6 | ND | ppbv |
| 4-Ethyltoluene | 622-96-8 | ND | ppbv |
| Ethanol | 64-17-5 | ND | ppbv |
| 2-Propanol | 67-63-0 | ND | ppbv |
| Acetone | 67-64-1 | ND | ppbv |
| Chloroform | 67-66-3 | ND | ppbv |
| Benzene | 71-43-2 | ND | ppbv |
| 1,1,1-Trichloroethane | 71-55-6 | ND | ppbv |
| Bromomethane | 74-83-9 | ND | ppbv |

| Name | CAS | Conc. | Units |
|---|---|---|---|
| Chloromethane | 74-87-3 | ND | ppbv |
| Chloroethane | 75-00-3 | ND | ppbv |
| Vinyl Chloride | 75-01-4 | ND | ppbv |
| Methylene Chloride | 75-09-2 | ND | ppbv |
| Carbon Disulfide | 75-15-0 | ND | ppbv |
| Bromoform | 75-25-2 | ND | ppbv |
| Bromodichloromethane | 75-27-4 | ND | ppbv |
| 1,1-Dichloroethane | 75-34-3 | ND | ppbv |
| 1,1-Dichloroethene | 75-35-4 | ND | ppbv |
| tert-Butyl alcohol | 75-65-0 | ND | ppbv |
| Freon 11 | 75-69-4 | ND | ppbv |
| Freon 12 | 75-71-8 | ND | ppbv |
| Freon 113 | 76-13-1 | ND | ppbv |
| Freon 114 | 76-14-2 | ND | ppbv |
| Isopentane | 78-78-4 | ND | ppbv |
| 1,2-Dichloropropane | 78-87-5 | ND | ppbv |
| 2-Butanone (Methyl Ethyl | 78-93-3 | ND | ppbv |
| 1,1,2-Trichloroethane | 79-00-5 | ND | ppbv |
| Trichloroethene | 79-01-6 | ND | ppbv |
| 1,1,2,2-Tetrachloroethane | 79-34-5 | ND | ppbv |
| Hexachlorobutadiene | 87-68-3 | ND | ppbv |
| Naphthalene | 91-20-3 | ND | ppbv |
| o-Xylene | 95-47-6 | ND | ppbv |
| 1,2-Dichlorobenzene | 95-50-1 | ND | ppbv |
| 1,2,4-Trimethylbenzene | 95-63-6 | ND | ppbv |
| Cumene | 98-82-8 | ND | ppbv |
| 1,2-Dichloroethane-d4 | 17060-07-0 | 102.00 | % Recovery |
| Toluene-d8 | 2037-26-5 | 98.00 | % Recovery |
| 4-Bromofluorobenzene | 460-00-4 | 93.00 | % Recovery |

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# Media Certification Report

Canister Number: 6L#33325
Can#: 80705-33325
Date : 08/17/11 20:06
Data File: i081708.d

| Name | CAS | Conc. | Units |
|---|---|---|---|
| 2-Methylpentane | 107-83-5 | ND | ppbv |
| Thiophene | 110-02-1 | ND | ppbv |
| Indan | 496-11-7 | ND | ppbv |
| 2,2,4-Trimethylpentane | 540-84-1 | ND | ppbv |
| 2,3-Dimethylpentane | 565-59-3 | ND | ppbv |
| Indene | 95-13-6 | ND | ppbv |
| 1,2-Dichloroethane-d4 | 17060-07-0 | 94.00 | % Recovery |
| Toluene-d8 | 2037-26-5 | 98.00 | % Recovery |
| 4-Bromofluorobenzene | 460-00-4 | 101.00 | % Recovery |

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# Media Certification Report

Canister Number: 6L#33325
Can#: 80705-33325a
Date : 08/17/11 20:06
Data File: i081708sim.d

| Name | CAS | Conc. | Units |
|---|---|---|---|
| Ethyl Benzene | 100-41-4 | ND | ppbv |
| Styrene | 100-42-5 | ND | ppbv |
| alpha-Chlorotoluene | 100-44-7 | ND | ppbv |
| cis-1,3-Dichloropropene | 10061-01-5 | ND | ppbv |
| trans-1,3-Dichloropropene | 10061-02-6 | ND | ppbv |
| Propylbenzene | 103-65-1 | ND | ppbv |
| 1,4-Dichlorobenzene | 106-46-7 | ND | ppbv |
| 1,2-Dibromoethane (EDB) | 106-93-4 | ND | ppbv |
| Butane | 106-97-8 | ND | ppbv |
| 1,3-Butadiene | 106-99-0 | ND | ppbv |
| 3-Chloropropene | 107-05-1 | ND | ppbv |
| 1,2-Dichloroethane | 107-06-2 | ND | ppbv |
| Vinyl Acetate | 108-05-4 | ND | ppbv |
| 4-Methyl-2-pentanone | 108-10-1 | ND | ppbv |
| m,p-Xylene | 108-38-3 | ND | ppbv |
| 1,3,5-Trimethylbenzene | 108-67-8 | ND | ppbv |
| Methylcyclohexane | 108-87-2 | ND | ppbv |
| Toluene | 108-88-3 | ND | ppbv |
| Chlorobenzene | 108-90-7 | ND | ppbv |
| Tetrahydrofuran | 109-99-9 | ND | ppbv |
| Hexane | 110-54-3 | ND | ppbv |
| Cyclohexane | 110-82-7 | ND | ppbv |
| Propylene | 115-07-1 | ND | ppbv |
| 1,2,4-Trichlorobenzene | 120-82-1 | ND | ppbv |
| 1,4-Dioxane | 123-91-1 | ND | ppbv |
| Dibromochloromethane | 124-48-1 | ND | ppbv |
| Tetrachloroethene | 127-18-4 | ND | ppbv |
| Heptane | 142-82-5 | ND | ppbv |
| cis-1,2-Dichloroethene | 156-59-2 | ND | ppbv |
| trans-1,2-Dichloroethene | 156-60-5 | ND | ppbv |
| Methyl tert-butyl ether | 1634-04-4 | ND | ppbv |
| 2,2,4-Trimethylpentane | 540-84-1 | ND | ppbv |
| 1,3-Dichlorobenzene | 541-73-1 | ND | ppbv |
| Carbon Tetrachloride | 56-23-5 | ND | ppbv |
| 2-Hexanone | 591-78-6 | ND | ppbv |
| 4-Ethyltoluene | 622-96-8 | ND | ppbv |
| Ethanol | 64-17-5 | ND | ppbv |
| 2-Propanol | 67-63-0 | ND | ppbv |
| Acetone | 67-64-1 | ND | ppbv |
| Chloroform | 67-66-3 | ND | ppbv |
| Benzene | 71-43-2 | ND | ppbv |
| 1,1,1-Trichloroethane | 71-55-6 | ND | ppbv |
| Bromomethane | 74-83-9 | ND | ppbv |

| Name | CAS | Conc. | Units |
|---|---|---|---|
| Chloromethane | 74-87-3 | ND | ppbv |
| Chloroethane | 75-00-3 | ND | ppbv |
| Vinyl Chloride | 75-01-4 | ND | ppbv |
| Methylene Chloride | 75-09-2 | ND | ppbv |
| Carbon Disulfide | 75-15-0 | ND | ppbv |
| Bromoform | 75-25-2 | ND | ppbv |
| Bromodichloromethane | 75-27-4 | ND | ppbv |
| 1,1-Dichloroethane | 75-34-3 | ND | ppbv |
| 1,1-Dichloroethene | 75-35-4 | ND | ppbv |
| tert-Butyl alcohol | 75-65-0 | ND | ppbv |
| Freon 11 | 75-69-4 | ND | ppbv |
| Freon 12 | 75-71-8 | ND | ppbv |
| Freon 113 | 76-13-1 | ND | ppbv |
| Freon 114 | 76-14-2 | ND | ppbv |
| Isopentane | 78-78-4 | ND | ppbv |
| 1,2-Dichloropropane | 78-87-5 | ND | ppbv |
| 2-Butanone (Methyl Ethyl | 78-93-3 | ND | ppbv |
| 1,1,2-Trichloroethane | 79-00-5 | ND | ppbv |
| Trichloroethene | 79-01-6 | ND | ppbv |
| 1,1,2,2-Tetrachloroethane | 79-34-5 | ND | ppbv |
| Hexachlorobutadiene | 87-68-3 | ND | ppbv |
| Naphthalene | 91-20-3 | ND | ppbv |
| o-Xylene | 95-47-6 | ND | ppbv |
| 1,2-Dichlorobenzene | 95-50-1 | ND | ppbv |
| 1,2,4-Trimethylbenzene | 95-63-6 | ND | ppbv |
| Cumene | 98-82-8 | ND | ppbv |
| 1,2-Dichloroethane-d4 | 17060-07-0 | 112.00 | % Recovery |
| Toluene-d8 | 2037-26-5 | 100.00 | % Recovery |
| 4-Bromofluorobenzene | 460-00-4 | 93.00 | % Recovery |

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# Media Certification Report

Canister Number: 6L#34467
Can#: 80705-34467
Date : 08/17/11 23:18
Data File: i081713.d

| Name | CAS | Conc. | Units |
|---|---|---|---|
| 2-Methylpentane | 107-83-5 | ND | ppbv |
| Thiophene | 110-02-1 | ND | ppbv |
| Indan | 496-11-7 | ND | ppbv |
| 2,2,4-Trimethylpentane | 540-84-1 | ND | ppbv |
| 2,3-Dimethylpentane | 565-59-3 | ND | ppbv |
| Indene | 95-13-6 | ND | ppbv |
| 1,2-Dichloroethane-d4 | 17060-07-0 | 75.00 | % Recovery |
| Toluene-d8 | 2037-26-5 | 96.00 | % Recovery |
| 4-Bromofluorobenzene | 460-00-4 | 105.00 | % Recovery |

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# Media Certification Report

Canister Number: 6L#34467
Can#: 80705-34467a
Date : 08/17/11 23:18
Data File: i081713sim.d

| Name | CAS | Conc. | Units |
|---|---|---|---|
| Ethyl Benzene | 100-41-4 | ND | ppbv |
| Styrene | 100-42-5 | ND | ppbv |
| alpha-Chlorotoluene | 100-44-7 | ND | ppbv |
| cis-1,3-Dichloropropene | 10061-01-5 | ND | ppbv |
| trans-1,3-Dichloropropene | 10061-02-6 | ND | ppbv |
| Propylbenzene | 103-65-1 | ND | ppbv |
| 1,4-Dichlorobenzene | 106-46-7 | ND | ppbv |
| 1,2-Dibromoethane (EDB) | 106-93-4 | ND | ppbv |
| Butane | 106-97-8 | ND | ppbv |
| 1,3-Butadiene | 106-99-0 | ND | ppbv |
| 3-Chloropropene | 107-05-1 | ND | ppbv |
| 1,2-Dichloroethane | 107-06-2 | ND | ppbv |
| Vinyl Acetate | 108-05-4 | ND | ppbv |
| 4-Methyl-2-pentanone | 108-10-1 | ND | ppbv |
| m,p-Xylene | 108-38-3 | ND | ppbv |
| 1,3,5-Trimethylbenzene | 108-67-8 | ND | ppbv |
| Methylcyclohexane | 108-87-2 | ND | ppbv |
| Toluene | 108-88-3 | ND | ppbv |
| Chlorobenzene | 108-90-7 | ND | ppbv |
| Tetrahydrofuran | 109-99-9 | ND | ppbv |
| Hexane | 110-54-3 | ND | ppbv |
| Cyclohexane | 110-82-7 | ND | ppbv |
| Propylene | 115-07-1 | ND | ppbv |
| 1,2,4-Trichlorobenzene | 120-82-1 | ND | ppbv |
| 1,4-Dioxane | 123-91-1 | ND | ppbv |
| Dibromochloromethane | 124-48-1 | ND | ppbv |
| Tetrachloroethene | 127-18-4 | ND | ppbv |
| Heptane | 142-82-5 | ND | ppbv |
| cis-1,2-Dichloroethene | 156-59-2 | ND | ppbv |
| trans-1,2-Dichloroethene | 156-60-5 | ND | ppbv |
| Methyl tert-butyl ether | 1634-04-4 | ND | ppbv |
| 2,2,4-Trimethylpentane | 540-84-1 | ND | ppbv |
| 1,3-Dichlorobenzene | 541-73-1 | ND | ppbv |
| Carbon Tetrachloride | 56-23-5 | ND | ppbv |
| 2-Hexanone | 591-78-6 | ND | ppbv |
| 4-Ethyltoluene | 622-96-8 | ND | ppbv |
| Ethanol | 64-17-5 | ND | ppbv |
| 2-Propanol | 67-63-0 | ND | ppbv |
| Acetone | 67-64-1 | ND | ppbv |
| Chloroform | 67-66-3 | ND | ppbv |
| Benzene | 71-43-2 | ND | ppbv |
| 1,1,1-Trichloroethane | 71-55-6 | ND | ppbv |
| Bromomethane | 74-83-9 | ND | ppbv |

| Name | CAS | Conc. | Units |
|---|---|---|---|
| Chloromethane | 74-87-3 | ND | ppbv |
| Chloroethane | 75-00-3 | ND | ppbv |
| Vinyl Chloride | 75-01-4 | ND | ppbv |
| Methylene Chloride | 75-09-2 | ND | ppbv |
| Carbon Disulfide | 75-15-0 | ND | ppbv |
| Bromoform | 75-25-2 | ND | ppbv |
| Bromodichloromethane | 75-27-4 | ND | ppbv |
| 1,1-Dichloroethane | 75-34-3 | ND | ppbv |
| 1,1-Dichloroethene | 75-35-4 | ND | ppbv |
| tert-Butyl alcohol | 75-65-0 | ND | ppbv |
| Freon 11 | 75-69-4 | ND | ppbv |
| Freon 12 | 75-71-8 | ND | ppbv |
| Freon 113 | 76-13-1 | ND | ppbv |
| Freon 114 | 76-14-2 | ND | ppbv |
| Isopentane | 78-78-4 | ND | ppbv |
| 1,2-Dichloropropane | 78-87-5 | ND | ppbv |
| 2-Butanone (Methyl Ethyl | 78-93-3 | ND | ppbv |
| 1,1,2-Trichloroethane | 79-00-5 | ND | ppbv |
| Trichloroethene | 79-01-6 | ND | ppbv |
| 1,1,2,2-Tetrachloroethane | 79-34-5 | ND | ppbv |
| Hexachlorobutadiene | 87-68-3 | ND | ppbv |
| Naphthalene | 91-20-3 | ND | ppbv |
| o-Xylene | 95-47-6 | ND | ppbv |
| 1,2-Dichlorobenzene | 95-50-1 | ND | ppbv |
| 1,2,4-Trimethylbenzene | 95-63-6 | ND | ppbv |
| Cumene | 98-82-8 | ND | ppbv |
| 1,2-Dichloroethane-d4 | 17060-07-0 | 88.00 | % Recovery |
| Toluene-d8 | 2037-26-5 | 99.00 | % Recovery |
| 4-Bromofluorobenzene | 460-00-4 | 86.00 | % Recovery |

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# Media Certification Report

Canister Number: 6L#12045
Can#: 80705-12045
Date : 08/17/11 23:54
Data File: i081714.d

| Name | CAS | Conc. | Units |
|---|---|---|---|
| 2-Methylpentane | 107-83-5 | ND | ppbv |
| Thiophene | 110-02-1 | ND | ppbv |
| Indan | 496-11-7 | ND | ppbv |
| 2,2,4-Trimethylpentane | 540-84-1 | ND | ppbv |
| 2,3-Dimethylpentane | 565-59-3 | ND | ppbv |
| Indene | 95-13-6 | ND | ppbv |
| 1,2-Dichloroethane-d4 | 17060-07-0 | 74.00 | % Recovery |
| Toluene-d8 | 2037-26-5 | 95.00 | % Recovery |
| 4-Bromofluorobenzene | 460-00-4 | 104.00 | % Recovery |

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# Media Certification Report

Canister Number: 6L#12045
Can#: 80705-12045a
Date : 08/17/11 23:54
Data File: i081714sim.d

| Name | CAS | Conc. | Units |
|---|---|---|---|
| Ethyl Benzene | 100-41-4 | ND | ppbv |
| Styrene | 100-42-5 | ND | ppbv |
| alpha-Chlorotoluene | 100-44-7 | ND | ppbv |
| cis-1,3-Dichloropropene | 10061-01-5 | ND | ppbv |
| trans-1,3-Dichloropropene | 10061-02-6 | ND | ppbv |
| Propylbenzene | 103-65-1 | ND | ppbv |
| 1,4-Dichlorobenzene | 106-46-7 | ND | ppbv |
| 1,2-Dibromoethane (EDB) | 106-93-4 | ND | ppbv |
| Butane | 106-97-8 | ND | ppbv |
| 1,3-Butadiene | 106-99-0 | ND | ppbv |
| 3-Chloropropene | 107-05-1 | ND | ppbv |
| 1,2-Dichloroethane | 107-06-2 | ND | ppbv |
| Vinyl Acetate | 108-05-4 | ND | ppbv |
| 4-Methyl-2-pentanone | 108-10-1 | ND | ppbv |
| m,p-Xylene | 108-38-3 | ND | ppbv |
| 1,3,5-Trimethylbenzene | 108-67-8 | ND | ppbv |
| Methylcyclohexane | 108-87-2 | ND | ppbv |
| Toluene | 108-88-3 | ND | ppbv |
| Chlorobenzene | 108-90-7 | ND | ppbv |
| Tetrahydrofuran | 109-99-9 | ND | ppbv |
| Hexane | 110-54-3 | ND | ppbv |
| Cyclohexane | 110-82-7 | ND | ppbv |
| Propylene | 115-07-1 | ND | ppbv |
| 1,2,4-Trichlorobenzene | 120-82-1 | ND | ppbv |
| 1,4-Dioxane | 123-91-1 | ND | ppbv |
| Dibromochloromethane | 124-48-1 | ND | ppbv |
| Tetrachloroethene | 127-18-4 | ND | ppbv |
| Heptane | 142-82-5 | ND | ppbv |
| cis-1,2-Dichloroethene | 156-59-2 | ND | ppbv |
| trans-1,2-Dichloroethene | 156-60-5 | ND | ppbv |
| Methyl tert-butyl ether | 1634-04-4 | ND | ppbv |
| 2,2,4-Trimethylpentane | 540-84-1 | ND | ppbv |
| 1,3-Dichlorobenzene | 541-73-1 | ND | ppbv |
| Carbon Tetrachloride | 56-23-5 | ND | ppbv |
| 2-Hexanone | 591-78-6 | ND | ppbv |
| 4-Ethyltoluene | 622-96-8 | ND | ppbv |
| Ethanol | 64-17-5 | ND | ppbv |
| 2-Propanol | 67-63-0 | ND | ppbv |
| Acetone | 67-64-1 | ND | ppbv |
| Chloroform | 67-66-3 | ND | ppbv |
| Benzene | 71-43-2 | ND | ppbv |
| 1,1,1-Trichloroethane | 71-55-6 | ND | ppbv |
| Bromomethane | 74-83-9 | ND | ppbv |

| Name | CAS | Conc. | Units |
|---|---|---|---|
| Chloromethane | 74-87-3 | ND | ppbv |
| Chloroethane | 75-00-3 | ND | ppbv |
| Vinyl Chloride | 75-01-4 | ND | ppbv |
| Methylene Chloride | 75-09-2 | ND | ppbv |
| Carbon Disulfide | 75-15-0 | ND | ppbv |
| Bromoform | 75-25-2 | ND | ppbv |
| Bromodichloromethane | 75-27-4 | ND | ppbv |
| 1,1-Dichloroethane | 75-34-3 | ND | ppbv |
| 1,1-Dichloroethene | 75-35-4 | ND | ppbv |
| tert-Butyl alcohol | 75-65-0 | ND | ppbv |
| Freon 11 | 75-69-4 | ND | ppbv |
| Freon 12 | 75-71-8 | ND | ppbv |
| Freon 113 | 76-13-1 | ND | ppbv |
| Freon 114 | 76-14-2 | ND | ppbv |
| Isopentane | 78-78-4 | ND | ppbv |
| 1,2-Dichloropropane | 78-87-5 | ND | ppbv |
| 2-Butanone (Methyl Ethyl | 78-93-3 | ND | ppbv |
| 1,1,2-Trichloroethane | 79-00-5 | ND | ppbv |
| Trichloroethene | 79-01-6 | ND | ppbv |
| 1,1,2,2-Tetrachloroethane | 79-34-5 | ND | ppbv |
| Hexachlorobutadiene | 87-68-3 | ND | ppbv |
| Naphthalene | 91-20-3 | ND | ppbv |
| o-Xylene | 95-47-6 | ND | ppbv |
| 1,2-Dichlorobenzene | 95-50-1 | ND | ppbv |
| 1,2,4-Trimethylbenzene | 95-63-6 | ND | ppbv |
| Cumene | 98-82-8 | ND | ppbv |
| 1,2-Dichloroethane-d4 | 17060-07-0 | 90.00 | % Recovery |
| Toluene-d8 | 2037-26-5 | 102.00 | % Recovery |
| 4-Bromofluorobenzene | 460-00-4 | 88.00 | % Recovery |

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# Media Certification Report

Canister Number: 6L#9557
Can#: 80705-9557
Date : 08/18/11 2:21
Data File: i081718.d

| Name | CAS | Conc. | Units |
|---|---|---|---|
| 2-Methylpentane | 107-83-5 | ND | ppbv |
| Thiophene | 110-02-1 | ND | ppbv |
| Indan | 496-11-7 | ND | ppbv |
| 2,2,4-Trimethylpentane | 540-84-1 | ND | ppbv |
| 2,3-Dimethylpentane | 565-59-3 | ND | ppbv |
| Indene | 95-13-6 | ND | ppbv |
| 1,2-Dichloroethane-d4 | 17060-07-0 | 80.00 | % Recovery |
| Toluene-d8 | 2037-26-5 | 105.00 | % Recovery |
| 4-Bromofluorobenzene | 460-00-4 | 116.00 | % Recovery |

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# Media Certification Report

Canister Number: 6L#9557
Can#: 80705-9557a
Date : 08/18/11 2:21
Data File: i081718sim.d

| Name | CAS | Conc. | Units |
|---|---|---|---|
| Ethyl Benzene | 100-41-4 | ND | ppbv |
| Styrene | 100-42-5 | ND | ppbv |
| alpha-Chlorotoluene | 100-44-7 | ND | ppbv |
| cis-1,3-Dichloropropene | 10061-01-5 | ND | ppbv |
| trans-1,3-Dichloropropene | 10061-02-6 | ND | ppbv |
| Propylbenzene | 103-65-1 | ND | ppbv |
| 1,4-Dichlorobenzene | 106-46-7 | ND | ppbv |
| 1,2-Dibromoethane (EDB) | 106-93-4 | ND | ppbv |
| Butane | 106-97-8 | ND | ppbv |
| 1,3-Butadiene | 106-99-0 | ND | ppbv |
| 3-Chloropropene | 107-05-1 | ND | ppbv |
| 1,2-Dichloroethane | 107-06-2 | ND | ppbv |
| Vinyl Acetate | 108-05-4 | ND | ppbv |
| 4-Methyl-2-pentanone | 108-10-1 | ND | ppbv |
| m,p-Xylene | 108-38-3 | ND | ppbv |
| 1,3,5-Trimethylbenzene | 108-67-8 | ND | ppbv |
| Methylcyclohexane | 108-87-2 | ND | ppbv |
| Toluene | 108-88-3 | ND | ppbv |
| Chlorobenzene | 108-90-7 | ND | ppbv |
| Tetrahydrofuran | 109-99-9 | ND | ppbv |
| Hexane | 110-54-3 | ND | ppbv |
| Cyclohexane | 110-82-7 | ND | ppbv |
| Propylene | 115-07-1 | ND | ppbv |
| 1,2,4-Trichlorobenzene | 120-82-1 | ND | ppbv |
| 1,4-Dioxane | 123-91-1 | ND | ppbv |
| Dibromochloromethane | 124-48-1 | ND | ppbv |
| Tetrachloroethene | 127-18-4 | ND | ppbv |
| Heptane | 142-82-5 | ND | ppbv |
| cis-1,2-Dichloroethene | 156-59-2 | ND | ppbv |
| trans-1,2-Dichloroethene | 156-60-5 | ND | ppbv |
| Methyl tert-butyl ether | 1634-04-4 | ND | ppbv |
| 2,2,4-Trimethylpentane | 540-84-1 | ND | ppbv |
| 1,3-Dichlorobenzene | 541-73-1 | ND | ppbv |
| Carbon Tetrachloride | 56-23-5 | ND | ppbv |
| 2-Hexanone | 591-78-6 | ND | ppbv |
| 4-Ethyltoluene | 622-96-8 | ND | ppbv |
| Ethanol | 64-17-5 | ND | ppbv |
| 2-Propanol | 67-63-0 | ND | ppbv |
| Acetone | 67-64-1 | ND | ppbv |
| Chloroform | 67-66-3 | ND | ppbv |
| Benzene | 71-43-2 | ND | ppbv |
| 1,1,1-Trichloroethane | 71-55-6 | ND | ppbv |
| Bromomethane | 74-83-9 | ND | ppbv |

| Name | CAS | Conc. | Units |
|---|---|---|---|
| Chloromethane | 74-87-3 | ND | ppbv |
| Chloroethane | 75-00-3 | ND | ppbv |
| Vinyl Chloride | 75-01-4 | ND | ppbv |
| Methylene Chloride | 75-09-2 | ND | ppbv |
| Carbon Disulfide | 75-15-0 | ND | ppbv |
| Bromoform | 75-25-2 | ND | ppbv |
| Bromodichloromethane | 75-27-4 | ND | ppbv |
| 1,1-Dichloroethane | 75-34-3 | ND | ppbv |
| 1,1-Dichloroethene | 75-35-4 | ND | ppbv |
| tert-Butyl alcohol | 75-65-0 | ND | ppbv |
| Freon 11 | 75-69-4 | ND | ppbv |
| Freon 12 | 75-71-8 | ND | ppbv |
| Freon 113 | 76-13-1 | ND | ppbv |
| Freon 114 | 76-14-2 | ND | ppbv |
| Isopentane | 78-78-4 | ND | ppbv |
| 1,2-Dichloropropane | 78-87-5 | ND | ppbv |
| 2-Butanone (Methyl Ethyl | 78-93-3 | ND | ppbv |
| 1,1,2-Trichloroethane | 79-00-5 | ND | ppbv |
| Trichloroethene | 79-01-6 | ND | ppbv |
| 1,1,2,2-Tetrachloroethane | 79-34-5 | ND | ppbv |
| Hexachlorobutadiene | 87-68-3 | ND | ppbv |
| Naphthalene | 91-20-3 | ND | ppbv |
| o-Xylene | 95-47-6 | ND | ppbv |
| 1,2-Dichlorobenzene | 95-50-1 | ND | ppbv |
| 1,2,4-Trimethylbenzene | 95-63-6 | ND | ppbv |
| Cumene | 98-82-8 | ND | ppbv |
| 1,2-Dichloroethane-d4 | 17060-07-0 | 97.00 | % Recovery |
| Toluene-d8 | 2037-26-5 | 104.00 | % Recovery |
| 4-Bromofluorobenzene | 460-00-4 | 94.00 | % Recovery |

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# Media Certification Report

Canister Number: 6L#34008
Can#: 80705-34008
Date : 08/18/11 1:44
Data File: i081717.d

| Name | CAS | Conc. | Units |
|---|---|---|---|
| 2-Methylpentane | 107-83-5 | ND | ppbv |
| Thiophene | 110-02-1 | ND | ppbv |
| Indan | 496-11-7 | ND | ppbv |
| 2,2,4-Trimethylpentane | 540-84-1 | ND | ppbv |
| 2,3-Dimethylpentane | 565-59-3 | ND | ppbv |
| Indene | 95-13-6 | ND | ppbv |
| 1,2-Dichloroethane-d4 | 17060-07-0 | 79.00 | % Recovery |
| Toluene-d8 | 2037-26-5 | 97.00 | % Recovery |
| 4-Bromofluorobenzene | 460-00-4 | 106.00 | % Recovery |

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# Media Certification Report

Canister Number: 6L#34008
Can#: 80705-34008a
Date : 08/18/11 1:44
Data File: i081717sim.d

| Name | CAS | Conc. | Units |
|---|---|---|---|
| Ethyl Benzene | 100-41-4 | ND | ppbv |
| Styrene | 100-42-5 | ND | ppbv |
| alpha-Chlorotoluene | 100-44-7 | ND | ppbv |
| cis-1,3-Dichloropropene | 10061-01-5 | ND | ppbv |
| trans-1,3-Dichloropropene | 10061-02-6 | ND | ppbv |
| Propylbenzene | 103-65-1 | ND | ppbv |
| 1,4-Dichlorobenzene | 106-46-7 | ND | ppbv |
| 1,2-Dibromoethane (EDB) | 106-93-4 | ND | ppbv |
| Butane | 106-97-8 | ND | ppbv |
| 1,3-Butadiene | 106-99-0 | ND | ppbv |
| 3-Chloropropene | 107-05-1 | ND | ppbv |
| 1,2-Dichloroethane | 107-06-2 | ND | ppbv |
| Vinyl Acetate | 108-05-4 | ND | ppbv |
| 4-Methyl-2-pentanone | 108-10-1 | ND | ppbv |
| m,p-Xylene | 108-38-3 | ND | ppbv |
| 1,3,5-Trimethylbenzene | 108-67-8 | ND | ppbv |
| Methylcyclohexane | 108-87-2 | ND | ppbv |
| Toluene | 108-88-3 | ND | ppbv |
| Chlorobenzene | 108-90-7 | ND | ppbv |
| Tetrahydrofuran | 109-99-9 | ND | ppbv |
| Hexane | 110-54-3 | ND | ppbv |
| Cyclohexane | 110-82-7 | ND | ppbv |
| Propylene | 115-07-1 | ND | ppbv |
| 1,2,4-Trichlorobenzene | 120-82-1 | ND | ppbv |
| 1,4-Dioxane | 123-91-1 | ND | ppbv |
| Dibromochloromethane | 124-48-1 | ND | ppbv |
| Tetrachloroethene | 127-18-4 | ND | ppbv |
| Heptane | 142-82-5 | ND | ppbv |
| cis-1,2-Dichloroethene | 156-59-2 | ND | ppbv |
| trans-1,2-Dichloroethene | 156-60-5 | ND | ppbv |
| Methyl tert-butyl ether | 1634-04-4 | ND | ppbv |
| 2,2,4-Trimethylpentane | 540-84-1 | ND | ppbv |
| 1,3-Dichlorobenzene | 541-73-1 | ND | ppbv |
| Carbon Tetrachloride | 56-23-5 | ND | ppbv |
| 2-Hexanone | 591-78-6 | ND | ppbv |
| 4-Ethyltoluene | 622-96-8 | ND | ppbv |
| Ethanol | 64-17-5 | ND | ppbv |
| 2-Propanol | 67-63-0 | ND | ppbv |
| Acetone | 67-64-1 | ND | ppbv |
| Chloroform | 67-66-3 | ND | ppbv |
| Benzene | 71-43-2 | ND | ppbv |
| 1,1,1-Trichloroethane | 71-55-6 | ND | ppbv |
| Bromomethane | 74-83-9 | ND | ppbv |

| Name | CAS | Conc. | Units |
|---|---|---|---|
| Chloromethane | 74-87-3 | ND | ppbv |
| Chloroethane | 75-00-3 | ND | ppbv |
| Vinyl Chloride | 75-01-4 | ND | ppbv |
| Methylene Chloride | 75-09-2 | ND | ppbv |
| Carbon Disulfide | 75-15-0 | ND | ppbv |
| Bromoform | 75-25-2 | ND | ppbv |
| Bromodichloromethane | 75-27-4 | ND | ppbv |
| 1,1-Dichloroethane | 75-34-3 | ND | ppbv |
| 1,1-Dichloroethene | 75-35-4 | ND | ppbv |
| tert-Butyl alcohol | 75-65-0 | ND | ppbv |
| Freon 11 | 75-69-4 | ND | ppbv |
| Freon 12 | 75-71-8 | ND | ppbv |
| Freon 113 | 76-13-1 | ND | ppbv |
| Freon 114 | 76-14-2 | ND | ppbv |
| Isopentane | 78-78-4 | ND | ppbv |
| 1,2-Dichloropropane | 78-87-5 | ND | ppbv |
| 2-Butanone (Methyl Ethyl | 78-93-3 | ND | ppbv |
| 1,1,2-Trichloroethane | 79-00-5 | ND | ppbv |
| Trichloroethene | 79-01-6 | ND | ppbv |
| 1,1,2,2-Tetrachloroethane | 79-34-5 | ND | ppbv |
| Hexachlorobutadiene | 87-68-3 | ND | ppbv |
| Naphthalene | 91-20-3 | ND | ppbv |
| o-Xylene | 95-47-6 | ND | ppbv |
| 1,2-Dichlorobenzene | 95-50-1 | ND | ppbv |
| 1,2,4-Trimethylbenzene | 95-63-6 | ND | ppbv |
| Cumene | 98-82-8 | ND | ppbv |
| 1,2-Dichloroethane-d4 | 17060-07-0 | 100.00 | % Recovery |
| Toluene-d8 | 2037-26-5 | 103.00 | % Recovery |
| 4-Bromofluorobenzene | 460-00-4 | 89.00 | % Recovery |

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# Media Certification Report

Canister Number: 6L#95611
Can#: 80876-95611
Date : 08/18/11 1:07
Data File: i081716.d

| Name | CAS | Conc. | Units |
|---|---|---|---|
| 2-Methylpentane | 107-83-5 | ND | ppbv |
| Thiophene | 110-02-1 | ND | ppbv |
| Indan | 496-11-7 | ND | ppbv |
| 2,3-Dimethylpentane | 565-59-3 | ND | ppbv |
| Indene | 95-13-6 | ND | ppbv |
| 1,2-Dichloroethane-d4 | 17060-07-0 | 88.00 | % Recovery |
| Toluene-d8 | 2037-26-5 | 102.00 | % Recovery |
| 4-Bromofluorobenzene | 460-00-4 | 104.00 | % Recovery |

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www.airtoxics.com
1-800-985-5955

# Media Certification Report

Canister Number: 6L#95611
Can#: 80876-95611a
Date : 08/18/11 1:07
Data File: i081716sim.d

| Name | CAS | Conc. | Units |
|---|---|---|---|
| Ethyl Benzene | 100-41-4 | ND | ppbv |
| Styrene | 100-42-5 | ND | ppbv |
| alpha-Chlorotoluene | 100-44-7 | ND | ppbv |
| cis-1,3-Dichloropropene | 10061-01-5 | ND | ppbv |
| trans-1,3-Dichloropropene | 10061-02-6 | ND | ppbv |
| Propylbenzene | 103-65-1 | ND | ppbv |
| 1,4-Dichlorobenzene | 106-46-7 | ND | ppbv |
| 1,2-Dibromoethane (EDB) | 106-93-4 | ND | ppbv |
| 1,3-Butadiene | 106-99-0 | ND | ppbv |
| 3-Chloropropene | 107-05-1 | ND | ppbv |
| 1,2-Dichloroethane | 107-06-2 | ND | ppbv |
| 4-Methyl-2-pentanone | 108-10-1 | ND | ppbv |
| m,p-Xylene | 108-38-3 | ND | ppbv |
| 1,3,5-Trimethylbenzene | 108-67-8 | ND | ppbv |
| Toluene | 108-88-3 | ND | ppbv |
| Chlorobenzene | 108-90-7 | ND | ppbv |
| Tetrahydrofuran | 109-99-9 | ND | ppbv |
| Hexane | 110-54-3 | ND | ppbv |
| Cyclohexane | 110-82-7 | ND | ppbv |
| 1,2,4-Trichlorobenzene | 120-82-1 | ND | ppbv |
| 1,4-Dioxane | 123-91-1 | ND | ppbv |
| Dibromochloromethane | 124-48-1 | ND | ppbv |
| Tetrachloroethene | 127-18-4 | ND | ppbv |
| Heptane | 142-82-5 | ND | ppbv |
| cis-1,2-Dichloroethene | 156-59-2 | ND | ppbv |
| trans-1,2-Dichloroethene | 156-60-5 | ND | ppbv |
| Methyl tert-butyl ether | 1634-04-4 | ND | ppbv |
| 2,2,4-Trimethylpentane | 540-84-1 | ND | ppbv |
| 1,3-Dichlorobenzene | 541-73-1 | ND | ppbv |
| Carbon Tetrachloride | 56-23-5 | ND | ppbv |
| 2-Hexanone | 591-78-6 | ND | ppbv |
| 4-Ethyltoluene | 622-96-8 | ND | ppbv |
| Ethanol | 64-17-5 | ND | ppbv |
| 2-Propanol | 67-63-0 | ND | ppbv |
| Acetone | 67-64-1 | ND | ppbv |
| Chloroform | 67-66-3 | ND | ppbv |
| Benzene | 71-43-2 | ND | ppbv |
| 1,1,1-Trichloroethane | 71-55-6 | ND | ppbv |
| Bromomethane | 74-83-9 | ND | ppbv |
| Chloromethane | 74-87-3 | ND | ppbv |
| Chloroethane | 75-00-3 | ND | ppbv |
| Vinyl Chloride | 75-01-4 | ND | ppbv |
| Methylene Chloride | 75-09-2 | ND | ppbv |

| Name | CAS | Conc. | Units |
|---|---|---|---|
| Carbon Disulfide | 75-15-0 | ND | ppbv |
| Bromoform | 75-25-2 | ND | ppbv |
| Bromodichloromethane | 75-27-4 | ND | ppbv |
| 1,1-Dichloroethane | 75-34-3 | ND | ppbv |
| 1,1-Dichloroethene | 75-35-4 | ND | ppbv |
| Freon 11 | 75-69-4 | ND | ppbv |
| Freon 12 | 75-71-8 | ND | ppbv |
| Freon 113 | 76-13-1 | ND | ppbv |
| Freon 114 | 76-14-2 | ND | ppbv |
| Isopentane | 78-78-4 | ND | ppbv |
| 1,2-Dichloropropane | 78-87-5 | ND | ppbv |
| 2-Butanone (Methyl Ethyl | 78-93-3 | ND | ppbv |
| 1,1,2-Trichloroethane | 79-00-5 | ND | ppbv |
| Trichloroethene | 79-01-6 | ND | ppbv |
| 1,1,2,2-Tetrachloroethane | 79-34-5 | ND | ppbv |
| Hexachlorobutadiene | 87-68-3 | ND | ppbv |
| Naphthalene | 91-20-3 | ND | ppbv |
| o-Xylene | 95-47-6 | ND | ppbv |
| 1,2-Dichlorobenzene | 95-50-1 | ND | ppbv |
| 1,2,4-Trimethylbenzene | 95-63-6 | ND | ppbv |
| Cumene | 98-82-8 | ND | ppbv |
| 1,2-Dichloroethane-d4 | 17060-07-0 | 97.00 | % Recovery |
| Toluene-d8 | 2037-26-5 | 104.00 | % Recovery |
| 4-Bromofluorobenzene | 460-00-4 | 91.00 | % Recovery |

# DATA REVIEW CHECKLIST

**Work Order #:** 1108582

| $A_1$ | $A_2$ | W | T | R | Q | |
|---|---|---|---|---|---|---|
| ☑ | ☐ | ☑ | ☐ | ☐ | ☐ | Analysis/Reporting vs. Project Profile/SOP requirements checked (i.e. 100% Dups, J-Flag to MDL, etc) |
| | | ☑ | ☐ | ☐ | ☐ | The final report has the correct reporting list, special units, and header info. |
| ☑ | ☐ | ☑ | | | | Non-Standard sublist printed/verified, LOQ and LOD verified |
| | | ☑ | ☐ | ☐ | ☐ | Lab Narrative is correct (proper method & description/Receiving & Analytical notes correct) |
| | | ☑ | ☐ | ☐ | ☐ | Sample Discrepancy Report (SDR) is completed |
| NA | ☐ | ☑ | ☐ | ☐ | ☐ | Corrective Action issued - # |
| ☑ | ☐ | ☑ | ☐ | | ☐ | Unusual circumstances have been documented in the notes section below |

**LUMEN** *validation report present and initialed* ***CIRCLE (YES / NO)***

| | | | | | | |
|---|---|---|---|---|---|---|
| ☑ | ☐ | ☑ | ☐ | ☐ | ☐ | Lab Blank, CCV, LCS and DUP met QC criteria |
| ☑ | ☐ | ☑ | ☐ | ☐ | ☐ | Hold time is met for all samples |
| | | ☑ | ☐ | ☐ | ☐ | Appropriate data qualifier flags are applied |
| | | ☑ | ☐ | ☐ | ☐ | Manual integrations for samples and QC are properly documented |
| ☑ | ☐ | ☑ | ☐ | | ☐ | Samples analyzed within the project or method specific clock |
| | | ☑ | ☐ | | | Retention times have been verified |
| ☑ | ☐ | ☑ | ☐ | | ☐ | Appropriate ICAL(s) included, %RSD Recalculation |
| | | ☑ | ☐ | | ☐ | At least one result per sample is verified against the target quant sheets/raw data |
| ☑ | ☐ | ☑ | ☐ | | ☐ | Dilution factor correctly calculated (sample load volume, syringe and bag dilutions, can pressurization(s)) |
| ☑ | ☐ | ☑ | ☐ | | | Correct amount of sample analyzed (i.e. sample not over-diluted) |
| | | ☑ | ☐ | | | Spectra verified - documentation of spectral defense included (Section 5A of eCVP pkg) |
| | | ☑ | ☐ | | | TICs resemble reference spectra |
| | | NA | ☐ | | | TICs between duplicate samples are consistent |
| ☑ | ☐ | ☐ | ☐ | ☐ | ☐ | Checked samples for trends (i.e. Influent vs. Effluent, Field Dups, Field/Trip Blank, etc.) |
| ☑ | ☐ | ☐ | ☐ | | | Data for multiple analyses of sample(s) has been evaluated for comparability of results |
| | | ☐ | ☐ | | | Special units for all samples in the final report are correctly calculated |
| | | ☑ | ☐ | | | Manually entered results checked (i.e. TPH/NMOC) |
| ☑ | ☐ | ☑ | | | | Chain of Custody verified for any special comments (i.e. different compounds/RLs, action levels) |
| | | ☑ | | | | Chain of Custody scanned correctly |
| | | | | ☐ | | Verify sample id's vs. chain of custody |
| ☑ | ☐ | ☐ | | | | Date MDL(s) performed per instrument(s) MSD-E 9/16/10 |
| ☑ | ☐ | ☑ | | | | Samples pressurized w/ appropriate gas ($N_2$ or He) ☐ Other (i.e. Tedlar bag, cartridge, sorbent) |
| ☑ | ☐ | ☑ | | | | Final pressure consistent with canister size (6L vs. 1L) |
| ☑ | ☐ | ☑ | | | | Verify receipt pressures |
| ☑ | ☐ | ☑ | | | | Verify canister ID #'s |
| | | ☑ | ☐ | ☐ | | Final invoice amount correct (adjusted for TAT, Penalties, Re-issue Charges etc.) |
| | | ☑ | ☐ | ☐ | | Final PDF report reviewed for correctness |

*Notes: (to include: noting samples with QA/QC problems, Blanks with positive hits, narratives, etc.)*

A/R: 01A→04A, 07A&08A: Analyzed 8/31/11 on MSD-E. QC: CCV - 1out (EtOH, 3pt calib, OK per SS). LCS/LCSD - 2out / 3out. LCS/LCSD - 1/non. AT-3 ✓, "E" for Acet. 01A→04A, 07A, 08A. 05A+06A: Analyzed 9/1/11 on MSD-A. "E" QC: EtOH a 3pt calib, OK per S.S. DJ for Acet. 05A has "E" for Isopentane (44ppbv on column) - ok to "E" flag, per SS 09/02/11

T/Q: • 3rd DS deleted due to contamination in sample 04A

• "E" 2-MP in samples 01A, 02A, 07A, 05A ; "E" 2,3-DMP in samples ~~01A~~, 01A, 05A ; "E" Index = 05A, Pentane = 02A

| $A_1/A_2$ | W/T | R* | Q |
|---|---|---|---|
| (Analytical Review/Date) | (Write-up/Tech Review/Date) | (Report Review/Date) | (QA Review/Date) |
| $A_1$: 8/31/11 | W: BJA(AK) 9-13-11 | R: | |
| $A_2$: 9/1/11 | T: | | |

Note (1): Please check all the appropriate boxes. Indicate "NA" for any statement that does not apply.
Note (2): Report reviewer and write-up reviewer must be separate individuals for DoD & Client Specific projects.
* Report Review is completed for DoD & Client Specific projects only.

# Not Applicable


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Electronic Comprehensive Validation Package (eCVP)

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# COMPREHENSIVE VALIDATION PACKAGE

Modified TO-15

INVENTORY SHEET

Work Order #: 1202444

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|---|---|---|
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| 1. Work Order Cover Page & Laboratory Narrative | 1 | 4 |
| a. Lumen Validation Report | -- | -- |
| 2. Sample Results and Raw Data (Organized by Sample) | 5 | 105 |
| a. ATL Sample Results Form | | |
| b. Target Compound Raw Data | | |
| -Internal Standard Area and Retention Time Summary | | |
| -Surrogate Recovery Summary (If Applicable) | | |
| -Chromatogram(s) and Ion Profiles (If Applicable) | | |
| 3. QC Results and Raw Data | | |
| a. Method Blank (Results+ Raw Data) | 106 | 130 |
| b. Surrogate Recover Summary Form (If Applicable) | 131 | 131 |
| c. Internal Standard Summary Form (If Applicable) | 132 | 134 |
| d. Duplicate Results Summary Sheet | 135 | 140 |
| e. Matrix Spike/Matrix Spike Duplicate (Results + Raw Data | -- | -- |
| f. Initial Calibration Data (Summary Sheet + Raw Data) | 141 | 522 |
| g. MDL Study (If Applicable) | -- | -- |
| h. Continuing Calibration Verification Data (Summary Sheet | 523 | 585 |
| i. Second Source LCS(Summary + Raw Data) | 586 | 677 |
| j. Extraction Logs | -- | -- |
| k. Instrument Run Logs/Software Verification | 678 | 681 |
| l. GC/MS Tune (Results + Raw Data) | 682 | 716 |
| 4. Shipping/Receiving Documents | | |
| a. Login Receipt Summary Sheet | 717 | 718 |
| b. Chain-of-Custody Records | 719 | 720 |
| c. Sample Log-In Sheet | 721 | 721 |
| d. Misc Shipping/Receiving Records (list of individual records) | | |
| Sample Receipt Discrepancy Report | -- | -- |
| 5. Other Records (describe or list) | | |
| a. Manual Spectral Defense | -- | -- |
| b. Manual Integrations | -- | -- |
| c. Manual Calculations | 722 | 724 |
| d. Canister Dilution Factors | 725 | 726 |
| e. Laboratory Corrective Action Request | -- | -- |
| f. CAS Number Reference | 727 | 728 |
| g. Variance Table | -- | -- |
| h. Canister Certification | 729 | 737 |
| i. Data Review Check Sheet | 738 | 738 |

Comments:

Completed by:

| *Kara McKiernan* | Kara McKiernan / Document Control | 3/22/12 |
|---|---|---|
| (Signature) | ( Print Name & Title) | (Date) |

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# WORK ORDER #: 1202444

Work Order Summary

| | | | |
|---|---|---|---|
| **CLIENT:** | Mr. Shane Blauvelt<br>Parsons<br>290 Elwood Davis Road<br>Suite 312<br>Liverpool, NY 13088 | **BILL TO:** | Accounts Payable-Syracuse<br>Parsons<br>301 Plainfield Rd, Suite 350<br>Syracuse, NY 13212 |
| **PHONE:** | 315-451-9560 x2120 | **P.O. #** | 446109-03000 |
| **FAX:** | | **PROJECT #** | Farrington St. |
| **DATE RECEIVED:** | 02/21/2012 | **CONTACT:** | Ausha Scott |
| **DATE COMPLETED:** | 03/21/2012 | | |

| FRACTION # | NAME | TEST | RECEIPT VAC./PRES. | FINAL PRESSURE |
|---|---|---|---|---|
| 01A | SG-3 | Modified TO-15 | 4.5 "Hg | 5 psi |
| 02A | SG-4 | Modified TO-15 | 6.5 "Hg | 5 psi |
| 03A | SG-5 | Modified TO-15 | 5.0 "Hg | 5 psi |
| 04A | Lab Blank | Modified TO-15 | NA | NA |
| 04B | Lab Blank | Modified TO-15 | NA | NA |
| 04C | Lab Blank | Modified TO-15 | NA | NA |
| 05A | CCV | Modified TO-15 | NA | NA |
| 05B | CCV | Modified TO-15 | NA | NA |
| 05C | CCV | Modified TO-15 | NA | NA |
| 06A | LCS | Modified TO-15 | NA | NA |
| 06AA | LCSD | Modified TO-15 | NA | NA |
| 06B | LCS | Modified TO-15 | NA | NA |
| 06BB | LCSD | Modified TO-15 | NA | NA |
| 06C | LCS | Modified TO-15 | NA | NA |
| 06CC | LCSD | Modified TO-15 | NA | NA |

CERTIFIED BY: Linda D. Frumarx DATE: 03/21/12

Laboratory Director

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

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**LABORATORY NARRATIVE**
**Modified TO-15 Low Level**
**Parsons**
**Workorder# 1202444**

Three 6 Liter Summa Special (100% Certified) samples were received on February 21, 2012. The laboratory performed analysis via modified EPA Method TO-15 using GC/MS in the full scan mode.

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

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

| ***Requirement*** | ***TO-15*** | ***ATL Modifications*** |
|---|---|---|
| ICAL %RSD acceptance criteria | +- 30% RSD with 2 compounds allowed out to < 40% RSD | 30% RSD with 4 compounds allowed out to < 40% RSD |
| Daily Calibration | +- 30% Difference | </= 30% Difference with four allowed out up to </=40%.; flag and narrate outliers |
| Blank and standards | Zero air | Nitrogen |
| Method Detection Limit | Follow 40CFR Pt.136 App. B | The MDL met all relevant requirements in Method TO-15 (statistical MDL less than the LOQ). The concentration of the spiked replicate may have exceeded 10X the calculated MDL in some cases |
| Sample collection media | Summa canister | ATL recommends use of summa canisters to insure data defensibility, but will report results from Tedlar bags at client request |

## Receiving Notes

There were no receiving discrepancies.

## Analytical Notes

The reported CCV for each daily batch may be derived from more than one analytical file due to the client's request for non-standard compounds. Non-standard compounds may have different acceptance criteria than the standard TO-14A/TO-15 compound list as per contract or verbal agreement.

The recovery of surrogate 1,2-Dichloroethane-d4 in sample SG-5 was outside laboratory control limits due to high level hydrocarbon matrix interference. The surrogate recovery is flagged.

Due to matrix interference in the Total Ion Chromatogram internal standard Bromochloromethane was not used to calculate concentration of TICs in sample SG-4 .

## Definition of Data Qualifying Flags

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

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

J - Estimated value.

E - Exceeds instrument calibration range.

S - Saturated peak.

Q - Exceeds quality control limits.

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

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

N - The identification is based on presumptive evidence.

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

a-File was requantified

b-File was quantified by a second column and detector

r1-File was requantified for the purpose of reissue

## Table 1

| Client Sample ID | Lab Sample ID | Date Collected | Date Received | Date Extracted | Sample Holding Time (Days) | Sample Extract Date Analyzed | Sample Extract Holding Time (Days) | Sample Condition |
|---|---|---|---|---|---|---|---|---|
| SG-3 | 1202444-01A | 2/20/2012 | 2/21/2012 | NA | 22 | 3/13/2012 | NA | Good |
| SG-4 | 1202444-02A | 2/20/2012 | 2/21/2012 | NA | 23 | 3/14/2012 | NA | Good |
| SG-5 | 1202444-03A | 2/20/2012 | 2/21/2012 | NA | 29 | 3/20/2012 | NA | Good |
| Lab Blank | 1202444-04A | NA | NA | NA | NA | 3/13/2012 | NA | Good |
| Lab Blank | 1202444-04B | NA | NA | NA | NA | 3/14/2012 | NA | Good |
| Lab Blank | 1202444-04C | NA | NA | NA | NA | 3/20/2012 | NA | Good |
| CCV | 1202444-05A | NA | NA | NA | NA | 3/13/2012 | NA | Good |
| CCV | 1202444-05B | NA | NA | NA | NA | 3/14/2012 | NA | Good |
| CCV | 1202444-05C | NA | NA | NA | NA | 3/20/2012 | NA | Good |
| LCS | 1202444-06A | NA | NA | NA | NA | 3/13/2012 | NA | Good |
| LCSD | 1202444-06AA | NA | NA | NA | NA | 3/13/2012 | NA | Good |
| LCS | 1202444-06B | NA | NA | NA | NA | 3/14/2012 | NA | Good |
| LCSD | 1202444-06BB | NA | NA | NA | NA | 3/14/2012 | NA | Good |
| LCS | 1202444-06C | NA | NA | NA | NA | 3/20/2012 | NA | Good |
| LCSD | 1202444-06CC | NA | NA | NA | NA | 3/20/2012 | NA | Good |

# Sample Results and Raw Data

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# Summary of Detected Compounds
# MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

**Client Sample ID: SG-3**

**Lab ID#: 1202444-01A**

| Compound | Rpt. Limit (ppbv) | Amount (ppbv) | Rpt. Limit (ug/m3) | Amount (ug/m3) |
|---|---|---|---|---|
| Freon 12 | 0.16 | 0.49 | 0.78 | 2.4 |
| Chloromethane | 0.16 | 0.43 | 0.33 | 0.90 |
| Freon 11 | 0.16 | 0.21 | 0.89 | 1.2 |
| Ethanol | 0.79 | 26 | 1.5 | 48 |
| Acetone | 0.79 | 4.9 | 1.9 | 12 |
| Benzene | 0.16 | 0.20 | 0.50 | 0.65 |
| Toluene | 0.16 | 0.25 | 0.60 | 0.94 |
| Isopentane | 0.79 | 1.2 | 2.3 | 3.7 |

**TENTATIVELY IDENTIFIED COMPOUNDS**

| Compound | CAS Number | Match Quality | Amount (ppbv) |
|---|---|---|---|
| Methane, chlorodifluoro- | 75-45-6 | 83% | 2.6 NJ |
| Butane | 106-97-8 | 9.0% | 1.5 NJ |
| Acetaldehyde | 75-07-0 | 3.0% | 1.5 NJ |
| Decane, 2,2,8-trimethyl- | 62238-01-1 | 64% | 1.6 NJ |
| Nonane, 5-methyl-5-propyl- | 17312-75-3 | 59% | 2.2 NJ |
| Decane, 2,5,6-trimethyl- | 62108-23-0 | 53% | 3.8 NJ |
| Undecane, 4,6-dimethyl- | 17312-82-2 | 56% | 1.8 NJ |
| Unknown | NA | NA | 0.80 J |

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**Client Sample ID: SG-3**

**Lab ID#: 1202444-01A**

**MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN**

| | | | |
|---|---|---|---|
| **File Name:** | **e031314** | **Date of Collection:** | **2/20/12 9:10:00 AM** |
| **Dil. Factor:** | **1.58** | **Date of Analysis:** | **3/13/12 07:28 PM** |

| Compound | Rpt. Limit (ppbv) | Amount (ppbv) | Rpt. Limit (ug/m3) | Amount (ug/m3) |
|---|---|---|---|---|
| Freon 12 | 0.16 | 0.49 | 0.78 | 2.4 |
| Freon 114 | 0.16 | Not Detected | 1.1 | Not Detected |
| Chloromethane | 0.16 | 0.43 | 0.33 | 0.90 |
| Vinyl Chloride | 0.16 | Not Detected | 0.40 | Not Detected |
| 1,3-Butadiene | 0.16 | Not Detected | 0.35 | Not Detected |
| Bromomethane | 0.16 | Not Detected | 0.61 | Not Detected |
| Chloroethane | 0.79 | Not Detected | 2.1 | Not Detected |
| Freon 11 | 0.16 | 0.21 | 0.89 | 1.2 |
| Ethanol | 0.79 | 26 | 1.5 | 48 |
| Freon 113 | 0.16 | Not Detected | 1.2 | Not Detected |
| 1,1-Dichloroethene | 0.16 | Not Detected | 0.63 | Not Detected |
| Acetone | 0.79 | 4.9 | 1.9 | 12 |
| 2-Propanol | 0.79 | Not Detected | 1.9 | Not Detected |
| Carbon Disulfide | 0.79 | Not Detected | 2.5 | Not Detected |
| 3-Chloropropene | 0.79 | Not Detected | 2.5 | Not Detected |
| Methylene Chloride | 0.32 | Not Detected UJ | 1.1 | Not Detected UJ |
| Methyl tert-butyl ether | 0.16 | Not Detected | 0.57 | Not Detected |
| trans-1,2-Dichloroethene | 0.16 | Not Detected | 0.63 | Not Detected |
| Hexane | 0.16 | Not Detected | 0.56 | Not Detected |
| 1,1-Dichloroethane | 0.16 | Not Detected | 0.64 | Not Detected |
| 2-Butanone (Methyl Ethyl Ketone) | 0.79 | Not Detected | 2.3 | Not Detected |
| cis-1,2-Dichloroethene | 0.16 | Not Detected | 0.63 | Not Detected |
| Tetrahydrofuran | 0.79 | Not Detected | 2.3 | Not Detected |
| Chloroform | 0.16 | Not Detected | 0.77 | Not Detected |
| 1,1,1-Trichloroethane | 0.16 | Not Detected | 0.86 | Not Detected |
| Cyclohexane | 0.16 | Not Detected | 0.54 | Not Detected |
| Carbon Tetrachloride | 0.16 | Not Detected | 0.99 | Not Detected |
| 2,2,4-Trimethylpentane | 0.79 | Not Detected | 3.7 | Not Detected |
| Benzene | 0.16 | 0.20 | 0.50 | 0.65 |
| 1,2-Dichloroethane | 0.16 | Not Detected | 0.64 | Not Detected |
| Heptane | 0.16 | Not Detected | 0.65 | Not Detected |
| Trichloroethene | 0.16 | Not Detected | 0.85 | Not Detected |
| 1,2-Dichloropropane | 0.16 | Not Detected | 0.73 | Not Detected |
| 1,4-Dioxane | 0.16 | Not Detected | 0.57 | Not Detected |
| Bromodichloromethane | 0.16 | Not Detected | 1.0 | Not Detected |
| cis-1,3-Dichloropropene | 0.16 | Not Detected | 0.72 | Not Detected |
| 4-Methyl-2-pentanone | 0.16 | Not Detected | 0.65 | Not Detected |
| Toluene | 0.16 | 0.25 | 0.60 | 0.94 |
| trans-1,3-Dichloropropene | 0.16 | Not Detected | 0.72 | Not Detected |
| 1,1,2-Trichloroethane | 0.16 | Not Detected | 0.86 | Not Detected |
| Tetrachloroethene | 0.16 | Not Detected | 1.1 | Not Detected |
| 2-Hexanone | 0.79 | Not Detected | 3.2 | Not Detected |

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**Client Sample ID: SG-3**

**Lab ID#: 1202444-01A**

**MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN**

| | | | |
|---|---|---|---|
| **File Name:** | **e031314** | **Date of Collection:** | **2/20/12 9:10:00 AM** |
| **Dil. Factor:** | **1.58** | **Date of Analysis:** | **3/13/12 07:28 PM** |

| Compound | Rpt. Limit (ppbv) | Amount (ppbv) | Rpt. Limit (ug/m3) | Amount (ug/m3) |
|---|---|---|---|---|
| Dibromochloromethane | 0.16 | Not Detected | 1.3 | Not Detected |
| 1,2-Dibromoethane (EDB) | 0.16 | Not Detected | 1.2 | Not Detected |
| Chlorobenzene | 0.16 | Not Detected | 0.73 | Not Detected |
| Ethyl Benzene | 0.16 | Not Detected | 0.69 | Not Detected |
| m,p-Xylene | 0.16 | Not Detected | 0.69 | Not Detected |
| o-Xylene | 0.16 | Not Detected | 0.69 | Not Detected |
| Styrene | 0.16 | Not Detected | 0.67 | Not Detected |
| Bromoform | 0.16 | Not Detected | 1.6 | Not Detected |
| Cumene | 0.16 | Not Detected | 0.78 | Not Detected |
| 1,1,2,2-Tetrachloroethane | 0.16 | Not Detected | 1.1 | Not Detected |
| Propylbenzene | 0.16 | Not Detected | 0.78 | Not Detected |
| 4-Ethyltoluene | 0.16 | Not Detected | 0.78 | Not Detected |
| 1,3,5-Trimethylbenzene | 0.16 | Not Detected | 0.78 | Not Detected |
| 1,2,4-Trimethylbenzene | 0.16 | Not Detected | 0.78 | Not Detected |
| 1,3-Dichlorobenzene | 0.16 | Not Detected | 0.95 | Not Detected |
| 1,4-Dichlorobenzene | 0.16 | Not Detected | 0.95 | Not Detected |
| alpha-Chlorotoluene | 0.16 | Not Detected | 0.82 | Not Detected |
| 1,2-Dichlorobenzene | 0.16 | Not Detected | 0.95 | Not Detected |
| 1,2,4-Trichlorobenzene | 0.79 | Not Detected | 5.9 | Not Detected |
| Hexachlorobutadiene | 0.79 | Not Detected | 8.4 | Not Detected |
| 2,3-Dimethylpentane | 0.79 | Not Detected | 3.2 | Not Detected |
| 2-Methylpentane | 0.79 | Not Detected | 2.8 | Not Detected |
| Indene | 0.79 | Not Detected | 3.8 | Not Detected |
| Indan | 0.79 | Not Detected | 3.8 | Not Detected |
| Isopentane | 0.79 | 1.2 | 2.3 | 3.7 |
| Naphthalene | 0.79 | Not Detected | 4.1 | Not Detected |
| Thiophene | 0.79 | Not Detected | 2.7 | Not Detected |

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

**TENTATIVELY IDENTIFIED COMPOUNDS**

| Compound | CAS Number | Match Quality | Amount ((ppbv)) |
|---|---|---|---|
| Methane, chlorodifluoro- | 75-45-6 | 83% | 2.6 NJ |
| Butane | 106-97-8 | 9.0% | 1.5 NJ |
| Acetaldehyde | 75-07-0 | 3.0% | 1.5 NJ |
| Decane, 2,2,8-trimethyl- | 62238-01-1 | 64% | 1.6 NJ |
| Nonane, 5-methyl-5-propyl- | 17312-75-3 | 59% | 2.2 NJ |
| Decane, 2,5,6-trimethyl- | 62108-23-0 | 53% | 3.8 NJ |
| Undecane, 4,6-dimethyl- | 17312-82-2 | 56% | 1.8 NJ |
| Unknown | NA | NA | 0.80 J |

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**Client Sample ID: SG-3**

**Lab ID#: 1202444-01A**

**MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN**

| | | |
|---|---|---|
| **File Name:** | **e031314** | **Date of Collection: 2/20/12 9:10:00 AM** |
| **Dil. Factor:** | **1.58** | **Date of Analysis: 3/13/12 07:28 PM** |

NJ =The identification is based on presumptive evidence; estimated value.

**Container Type: 6 Liter Summa Special (100% Certified)**

| Surrogates | %Recovery | Method Limits |
|---|---|---|
| 1,2-Dichloroethane-d4 | 107 | 70-130 |
| Toluene-d8 | 96 | 70-130 |
| 4-Bromofluorobenzene | 104 | 70-130 |

Air Toxics Ltd.

EPA TO-15/Modified TO14A

Data file : /chem/msde.i/13Mar2012.b/e031314.d
Lab Smp Id: 1202444-01A
Inj Date : 13-MAR-2012 19:28
Operator : sac Inst ID: msde.i
Smp Info : 250mL #34192
Misc Info : 4.5"Hg-5psi
Comment : Low-Level/GC-MS
Method : /chem/msde.i/13Mar2012.b/e12l0308b.m
Meth Date : 13-Mar-2012 20:50 scarter Quant Type: ISTD
Cal Date : 10-MAR-2012 19:22 Cal File: e031014.d
Als bottle: 24
Dil Factor: 1.58000
Integrator: HP RTE Compound Sublist: PAR16136.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

| Name | Value | Description |
|---|---|---|
| DF | 1.58000 | Dilution Factor |

| | RT | EXP RT (REL RT) | MASS | RESPONSE | CONCENTRATIONS ON-COL ( PPBV) | FINAL ( PPBV) | TARGET RANGE | RATIO |
|---|---|---|---|---|---|---|---|---|
| * | 46 Bromochloromethane | | | | | CAS #: 74-97-5 | | |
| | 16.127 | 16.128 (1.000) | 130 | 69822 | 5.00000 | | 80.00- 120.00 | 100.00 |
| | 16.127 | 16.128 (1.000) | 128 | 54832 | | | 0.00- 30.00 | 78.53 |
| | 16.127 | 16.128 (1.000) | 49 | 64053 | | | 0.00- 30.00 | 91.74 |
| * | 58 1,4-Difluorobenzene | | | | | CAS #: 540-36-3 | | |
| | 17.585 | 17.586 (1.000) | 114 | 258876 | 5.00000 | | 80.00- 120.00 | 100.00 |
| | 17.585 | 17.586 (1.000) | 88 | 45337 | | | 0.00- 30.00 | 17.51 |
| * | 75 Chlorobenzene-d5 | | | | | CAS #: 3114-55-4 | | |
| | 22.927 | 22.927 (1.000) | 117 | 223416 | 5.00000 | | 80.00- 120.00 | 100.00 |
| | 22.927 | 22.927 (1.000) | 82 | 151458 | | | 0.00- 30.00 | 67.79 |
| $ | 54 1,2-Dichloroethane-d4 | | | | | CAS #: 17060-07-0 | | |
| | 17.013 | 17.013 (1.055) | 65 | 139199 | 5.34983 | 5.350 | 80.00- 120.00 | 100.00 |
| | 17.013 | 17.013 (1.055) | 67 | 68339 | | | 0.00- 30.00 | 49.09 |

| RT | EXP RT (REL RT) | MASS | RESPONSE | CONCENTRATIONS ON-COL ( PPBV) | CONCENTRATIONS FINAL ( PPBV) | TARGET RANGE | RATIO |
|---|---|---|---|---|---|---|---|
| $ 67 Toluene-d8 | | | | | CAS #: 2037-26-5 | | |
| 20.368 | 20.368 (1.158) | 98 | 251318 | 4.81973 | 4.820 | 80.00- 120.00 | 100.00 |
| 20.368 | 20.368 (1.158) | 70 | 31042 | | | 0.00- 30.00 | 12.35 |
| 20.368 | 20.368 (1.158) | 100 | 158044 | | | 33.49- 93.49 | 62.89 |
| 24.525 | 24.526 (1.070) | 174 | 133647 | 5.22918 | 5.229 | 80.00- 120.00 | 100.00 |
| 24.525 | 24.526 (1.070) | 95 | 217106 | | | 133.09- 193.09 | 162.45 |
| 24.525 | 24.526 (1.070) | 176 | 130219 | | | 66.22- 126.22 | 97.44 |
| 4 Dichlorodifluoromethane/Fr12 | | | | | CAS #: 75-71-8 | | |
| 5.931 | 5.931 (0.368) | 85 | 25247 | 0.30943 | 0.4889 | 80.00- 120.00 | 100.00 |
| 5.955 | 5.931 (0.369) | 87 | 8674 | | | 2.20- 62.20 | 34.36 |
| 7 Chloromethane | | | | | CAS #: 74-87-3 | | |
| 7.667 | 7.667 (0.475) | 50 | 3314 | 0.27482 | 0.4342 | 80.00- 120.00 | 100.00 |
| 7.691 | 7.667 (0.477) | 52 | 1126 | | | 0.00- 30.00 | 33.98 |
| 16 Trichlorofluoromethane/Fr11 | | | | | CAS #: 75-69-4 | | |
| 11.453 | 11.474 (0.710) | 101 | 11627 | 0.13512 | 0.2135 | 80.00- 120.00 | 100.00 |
| 11.453 | 11.474 (0.710) | 103 | 8084 | | | 35.52- 95.52 | 69.53 |
| 18 Ethanol | | | | | CAS #: 64-17-5 | | |
| 12.303 | 12.303 (0.763) | 45 | 73149 | 16.2830 | 25.727 | 80.00- 120.00 | 100.00 |
| 12.303 | 12.303 (0.763) | 46 | 29410 | | | 0.00- 30.00 | 40.21 |
| 12.303 | 12.303 (0.763) | 43 | 20270 | | | 0.00- 30.00 | 27.71 |
| 22 Acetone | | | | | CAS #: 67-64-1 | | |
| 13.049 | 13.070 (0.809) | 58 | 24297 | 3.07907 | 4.865 | 80.00- 120.00 | 100.00 |
| 13.049 | 13.070 (0.809) | 43 | 85387 | | | 0.00- 30.00 | 351.43 |
| 53 Benzene | | | | | CAS #: 71-43-2 | | |
| 17.013 | 17.013 (0.967) | 78 | 8552 | 0.12878 | 0.2035 | 80.00- 120.00 | 100.00 |
| 17.013 | 17.013 (0.967) | 77 | 1629 | | | 0.00- 30.00 | 19.05 |
| 68 Toluene | | | | | CAS #: 108-88-3 | | |
| 20.524 | 20.525 (1.167) | 91 | 12568 | 0.15860 | 0.2506 | 80.00- 120.00 | 100.00 |
| 20.502 | 20.525 (1.166) | 92 | 6934 | | | 0.00- 30.00 | 55.17 |
| 14 Isopentane | | | | | CAS #: 78-78-4 | | |
| 10.831 | 10.852 (0.672) | 57 | 10097 | 0.78824 | 1.245 | 80.00- 120.00 | 100.00 |
| 10.831 | 10.852 (0.672) | 43 | 11455 | | | 0.00- 30.00 | 113.45 |
| 10.831 | 10.852 (0.672) | 42 | 9904 | | | 0.00- 30.00 | 98.09 |

Air Toxics Ltd.

EPA TO-15/Modified TO14A

Data file : /chem/msde.i/13Mar2012.b/e031314.d
Lab Smp Id: 1202444-01A
Inj Date : 13-MAR-2012 19:28
Operator : sac Inst ID: msde.i
Smp Info : 250mL #34192
Misc Info : 4.5"Hg-5psi
Comment : Low-Level/GC-MS
Method : /chem/msde.i/13Mar2012.b/e12l0308b.m
Meth Date : 13-Mar-2012 20:50 scarter Quant Type: ISTD
Cal Date : 10-MAR-2012 19:22 Cal File: e031014.d
Als bottle: 24
Dil Factor: 1.58000
Integrator: HP RTE Compound Sublist: PAR16136.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

| Name | Value | Description |
|---|---|---|
| DF | 1.58000 | Dilution Factor |

| ISTD | RT | AREA | AMOUNT |
|---|---|---|---|
| * 46 Bromochloromethane | 16.127 | 367529 | 5.000 |
| * 75 Chlorobenzene-d5 | 22.927 | 738047 | 5.000 |

| | CONCENTRATIONS | | | | QUANT | | |
|---|---|---|---|---|---|---|---|
| RT | AREA | ON-COL( PPBV) | FINAL( PPBV) | QUAL | LIBRARY | LIB ENTRY | CPND # |
| Methane, chlorodifluoro- | | | | CAS #: 75-45-6 | | | |
| 6.461 | 119940 | 1.63171071 | 2.578 | 83 | NBS54K.l | 596 | 46 |
| Butane | | | | CAS #: 106-97-8 | | | |
| 8.387 | 71240 | 0.96917201 | 1.531 | 9 | NBS54K.l | 98 | 46(L) |
| Acetaldehyde | | | | CAS #: 75-07-0 | | | |
| 9.411 | 69064 | 0.93957035 | 1.484 | 3 | NBS54K.l | 37 | 46(L) |

| RT | AREA | ON-COL( PPBV) | FINAL( PPBV) | QUAL | LIBRARY | LIB ENTRY | CPND # |
|---|---|---|---|---|---|---|---|
| Decane, 2,2,8-trimethyl- | | | | CAS #: 62238-01-1 | | | |
| 25.186 | 153232 | 1.03809156 | 1.640 | 64 | NBS54K.l | 16203 | 75(L) |
| Nonane, 5-methyl-5-propyl- | | | | CAS #: 17312-75-3 | | | |
| 25.522 | 202736 | 1.37346250 | 2.170 | 59 | NBS54K.l | 16247 | 75 |
| Decane, 2,5,6-trimethyl- | | | | CAS #: 62108-23-0 | | | |
| 25.791 | 358632 | 2.42960061 | 3.839 | 53 | NBS54K.l | 16210 | 75 |
| Undecane, 4,6-dimethyl- | | | | CAS #: 17312-82-2 | | | |
| 26.015 | 173274 | 1.17386519 | 1.855 | 56 | NBS54K.l | 16199 | 75 |
| Unknown | | | | CAS #: | | | |
| 26.262 | 74389 | 0.50395780 | 0.7962 | 0 | | 0 | 75 |

## QC Flag Legend

L - Operator selected an alternate library search match.

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msde.i
Lab File ID: e031314.d
Lab Smp Id: 1202444-01A
Analysis Type: VOA
Quant Type: ISTD
Operator: sac
Method File: /chem/msde.i/13Mar2012.b/e12l0308b.m
Misc Info: 4.5"Hg-5psi

Calibration Date: 13-MAR-2012
Calibration Time: 09:39
Level: LOW
Sample Type: AIR

| | | AREA LIMIT | | | |
|---|---|---|---|---|---|
| COMPOUND | STANDARD | LOWER | UPPER | SAMPLE | %DIFF |
| 46 Bromochloromethan | 78956 | 47374 | 110538 | 69822 | -11.57 |
| 58 1,4-Difluorobenze | 299545 | 179727 | 419363 | 258876 | -13.58 |
| 75 Chlorobenzene-d5 | 258990 | 155394 | 362586 | 223416 | -13.74 |

| | | RT LIMIT | | | |
|---|---|---|---|---|---|
| COMPOUND | STANDARD | LOWER | UPPER | SAMPLE | %DIFF |
| 46 Bromochloromethan | 16.13 | 15.80 | 16.46 | 16.13 | 0.00 |
| 58 1,4-Difluorobenze | 17.59 | 17.26 | 17.92 | 17.59 | 0.00 |
| 75 Chlorobenzene-d5 | 22.93 | 22.60 | 23.26 | 22.93 | 0.00 |

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Report Date: 21-Mar-2012 10:25

Air Toxics Ltd.

RECOVERY REPORT

Client Name: Client SDG: 13Mar2012
Sample Matrix: GAS Fraction: VOA
Lab Smp Id: 1202444-01A
Level: LOW Operator: sac
Data Type: MS DATA SampleType: SAMPLE
SpikeList File: AT09.spk Quant Type: ISTD
Sublist File: PAR16136.sub
Method File: /chem/msde.i/13Mar2012.b/e12l0308b.m
Misc Info: 4.5"Hg-5psi

| SURROGATE COMPOUND | CONC ADDED PPBV | CONC RECOVERED PPBV | % RECOVERED | LIMITS |
|---|---|---|---|---|
| $ 54 1,2-Dichloroethane | 5.000 | 5.350 | 107.00 | 70-130 |
| $ 67 Toluene-d8 | 5.000 | 4.820 | 96.39 | 70-130 |
| $ 87 Bromofluorobenzene | 5.000 | 5.229 | 104.58 | 70-130 |

$

Data File: /chem/msde.i/13Mar2012.b/e031314.d 

Date : 13-MAR-2012 19:28

Client ID:

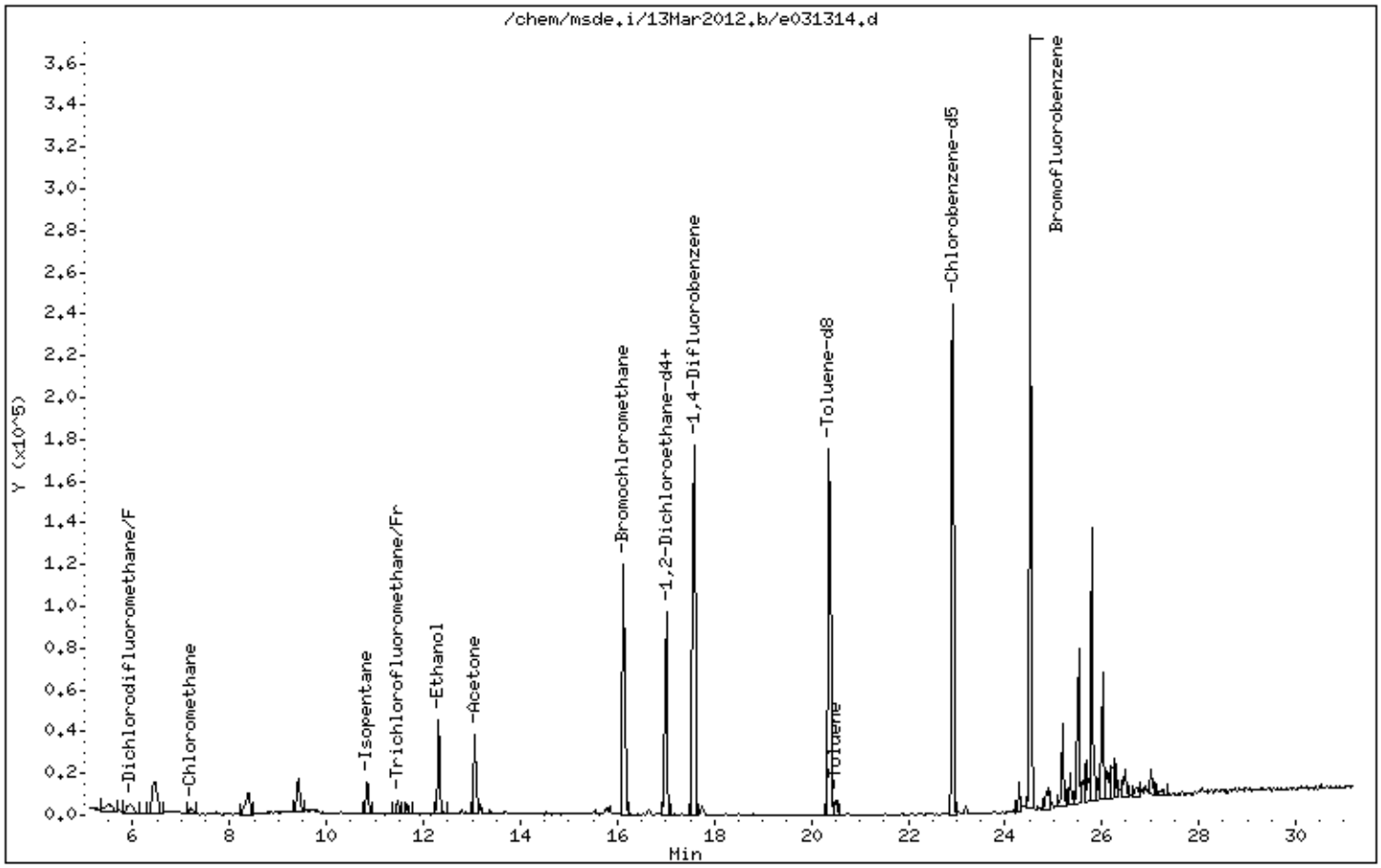
Instrument: msde.i

Sample Info: 250mL #34192

Operator: sac

Column phase: RTx-624

Column diameter: 0.32



Data File: /chem/msde.i/13Mar2012.b/e031314.d

Date : 13-MAR-2012 19:28

Client ID:

Instrument: msde.i

Sample Info: 250mL #34192

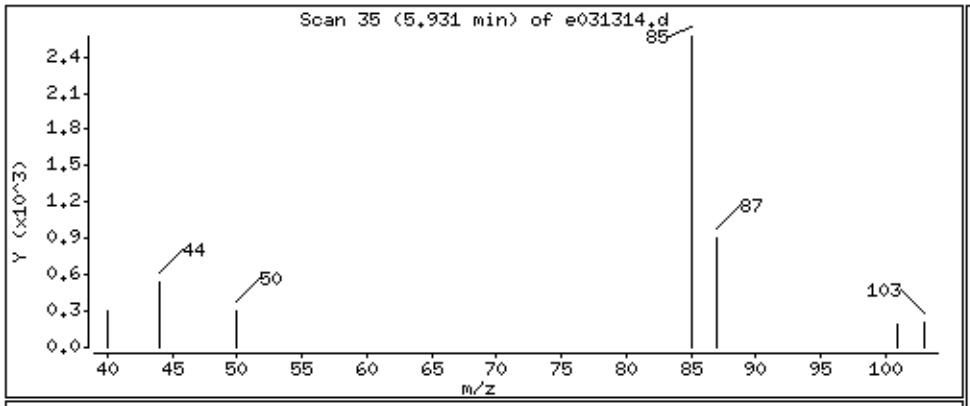
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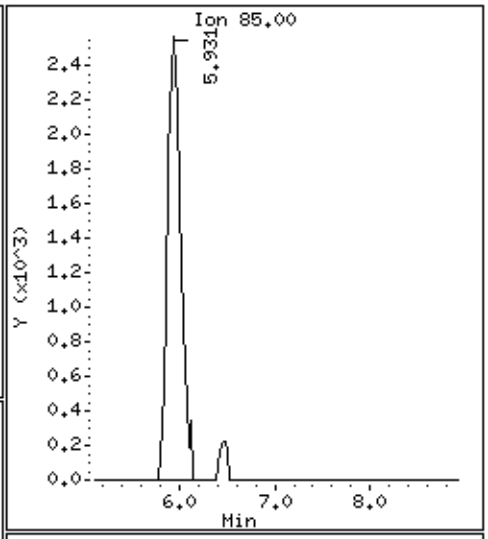
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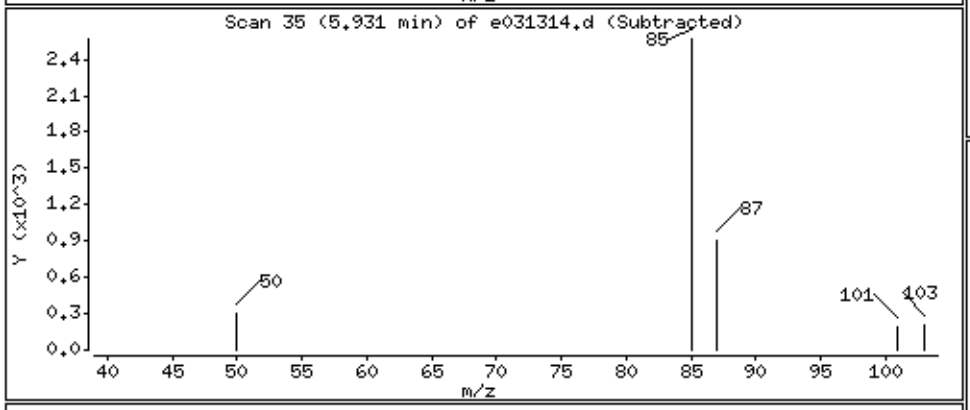
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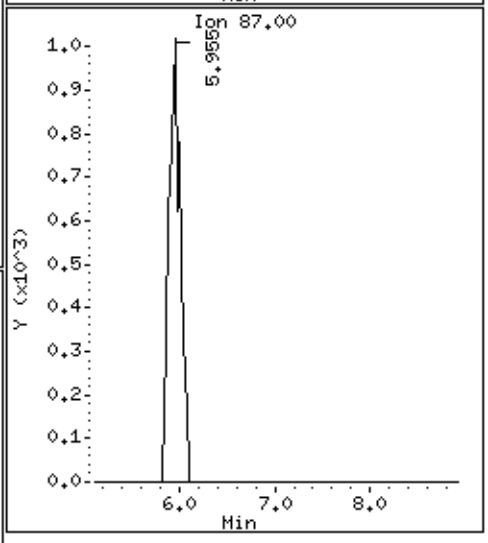
4 Dichlorodifluoromethane/Fr12

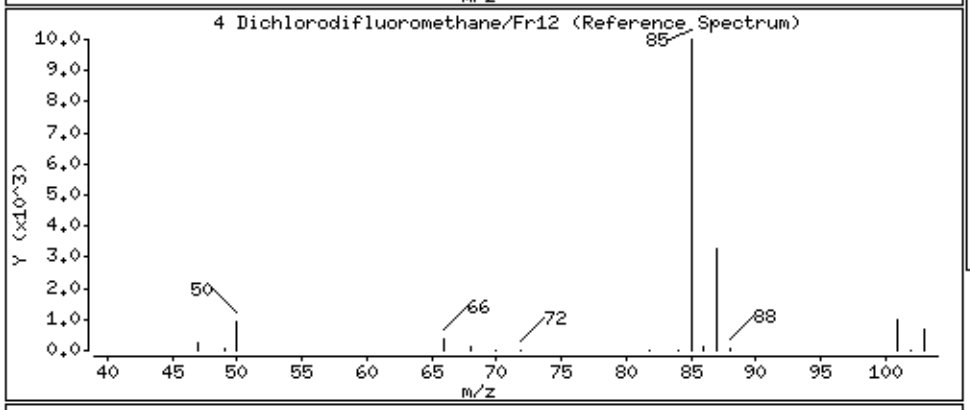
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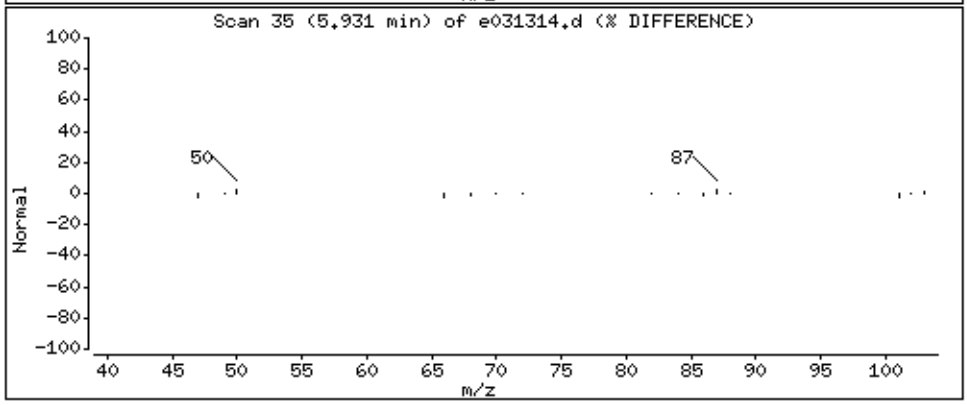


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Instrument: msde.i

Sample Info: 250mL #34192

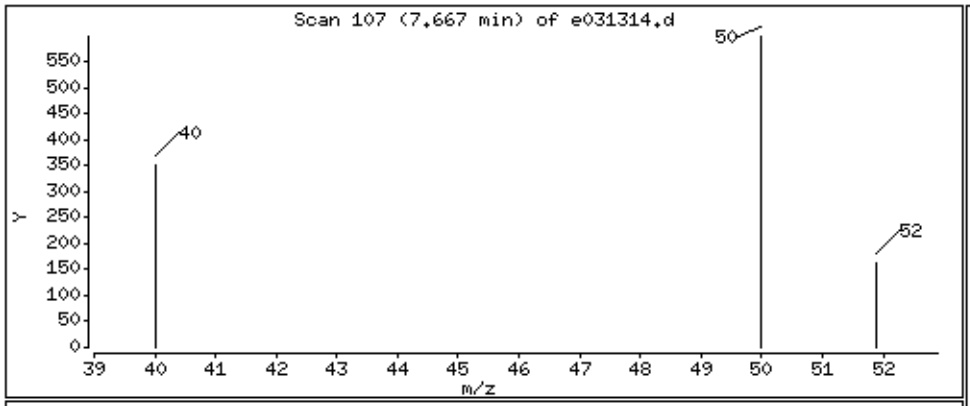
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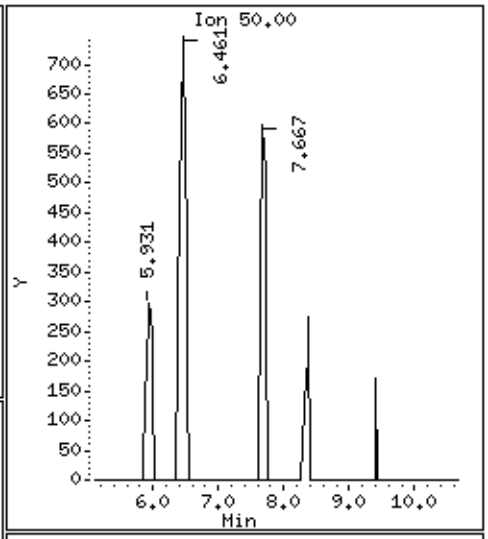
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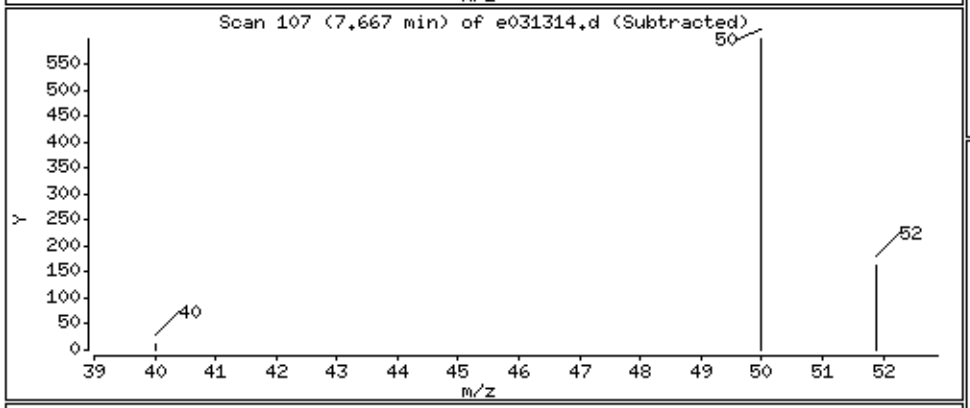
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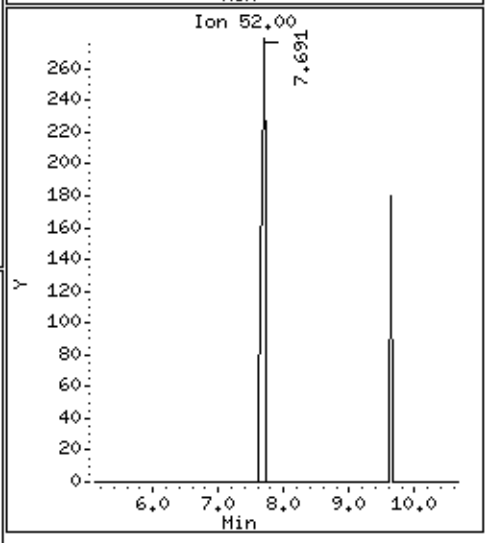
7 Chloromethane

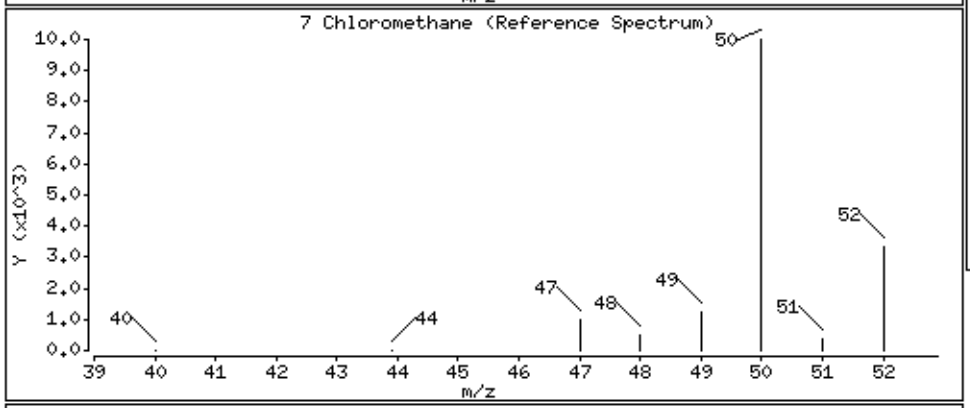
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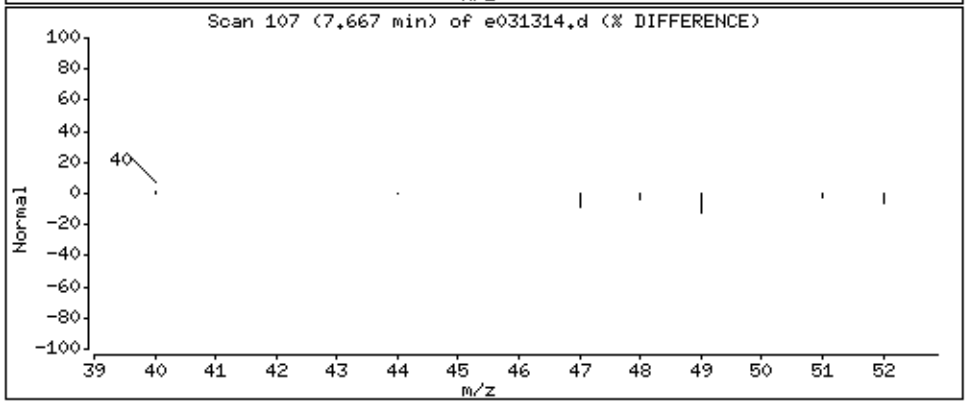


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Instrument: msde.i

Sample Info: 250mL #34192

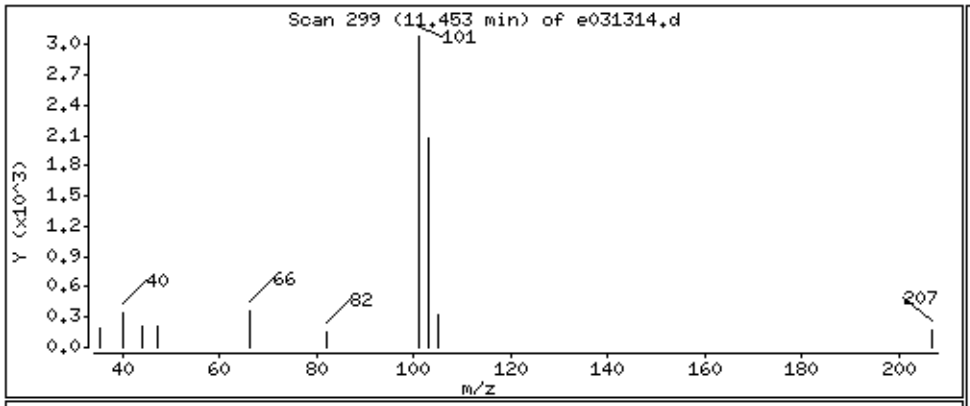
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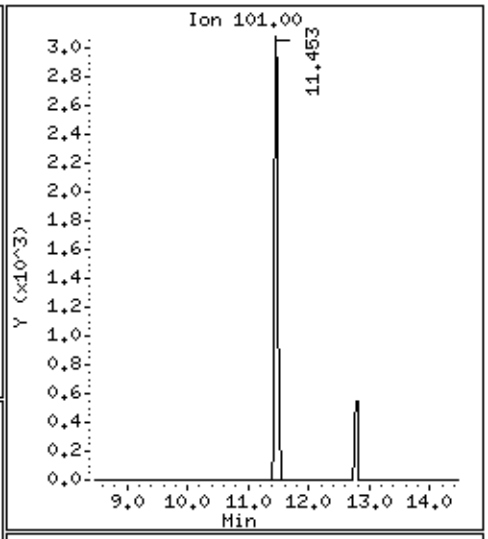
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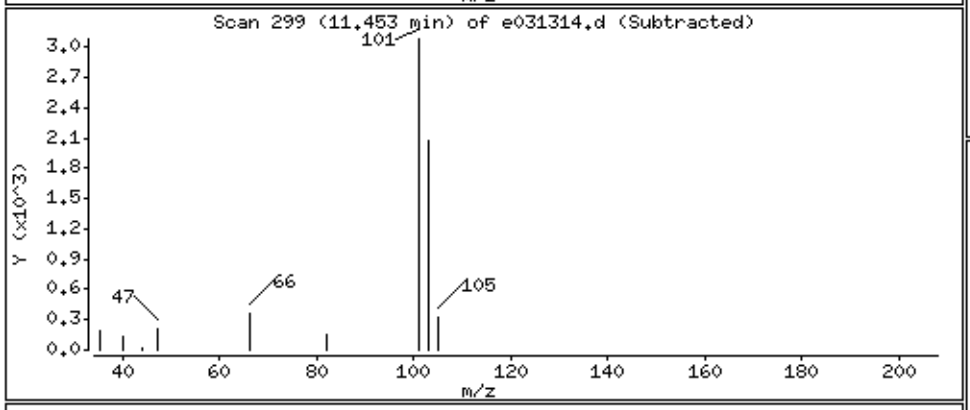
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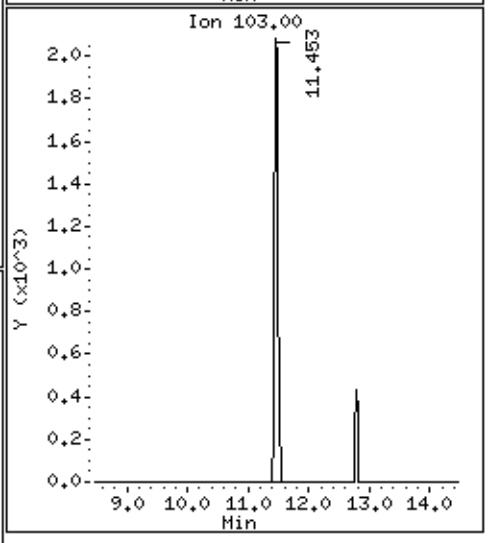
16 Trichlorofluoromethane/Fr11

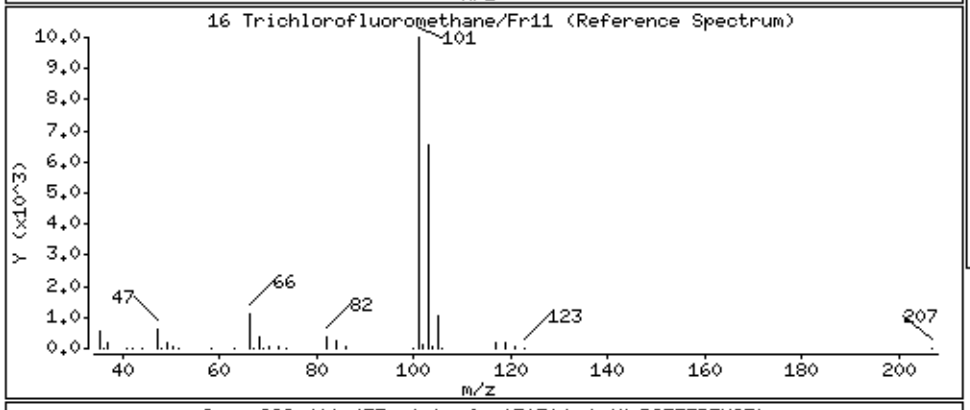
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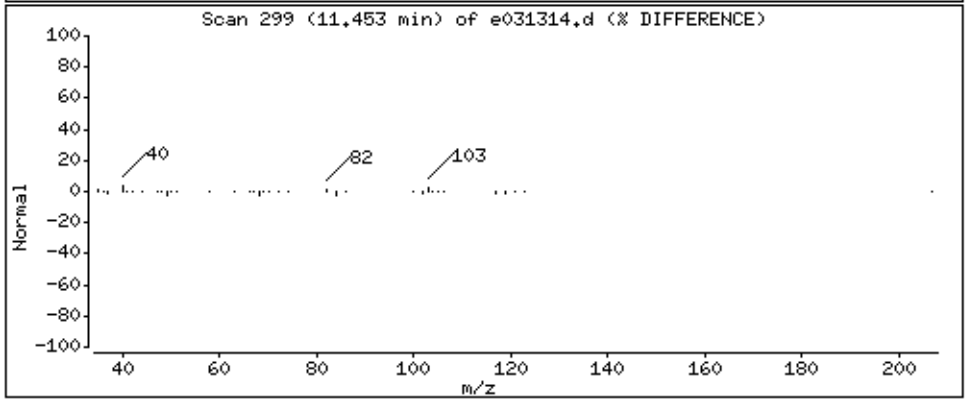


Data File: /chem/msde.i/13Mar2012.b/e031314.d

Date : 13-MAR-2012 19:28

Client ID:

Instrument: msde.i

Sample Info: 250mL #34192

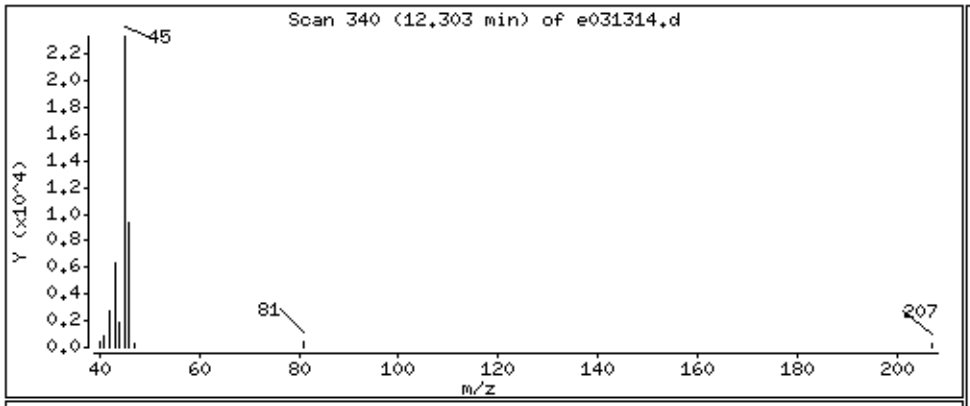
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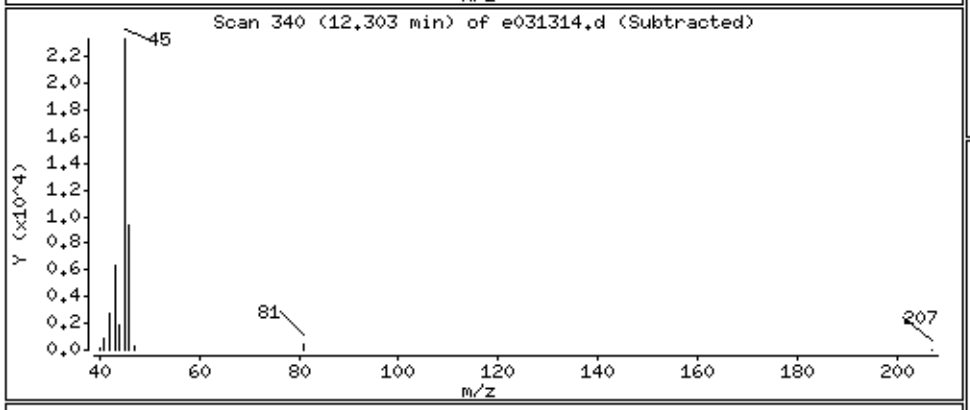
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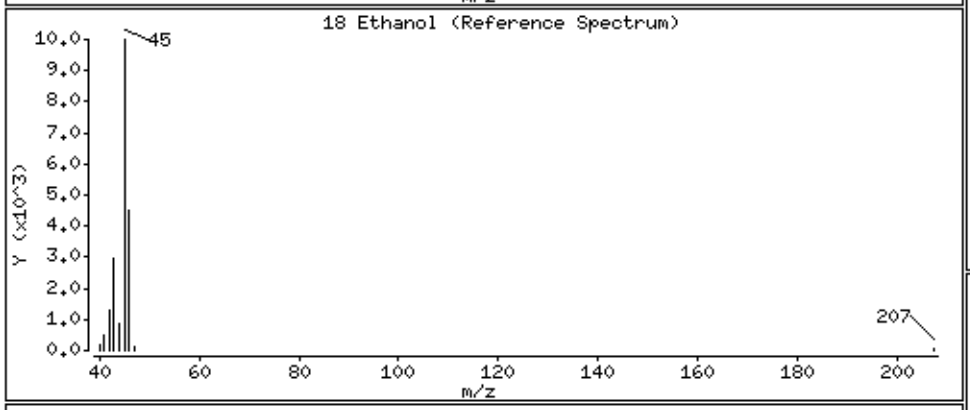
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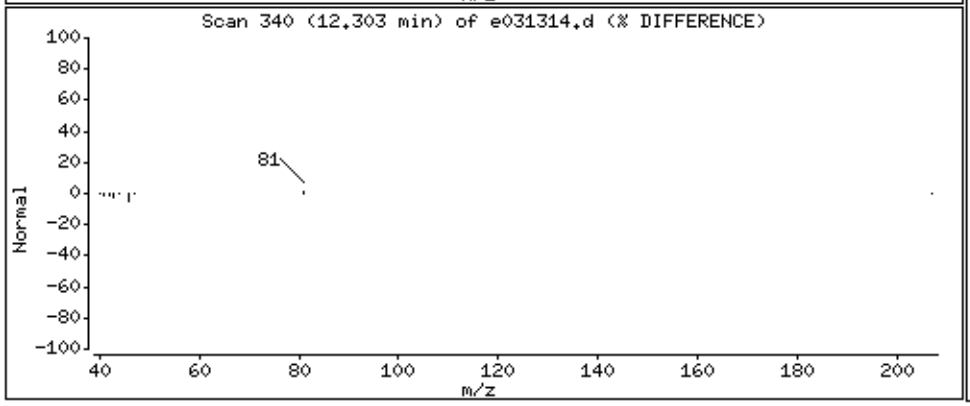
18 Ethanol

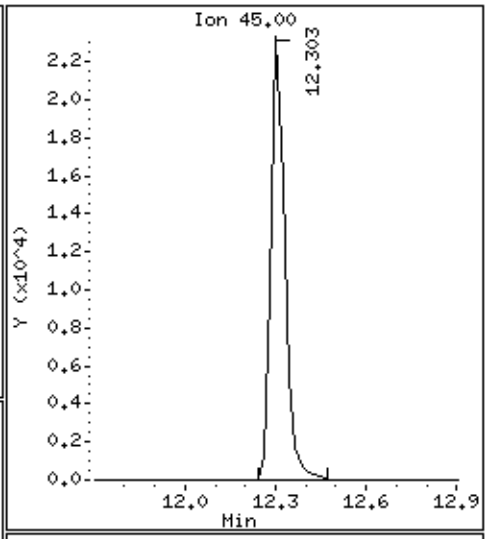
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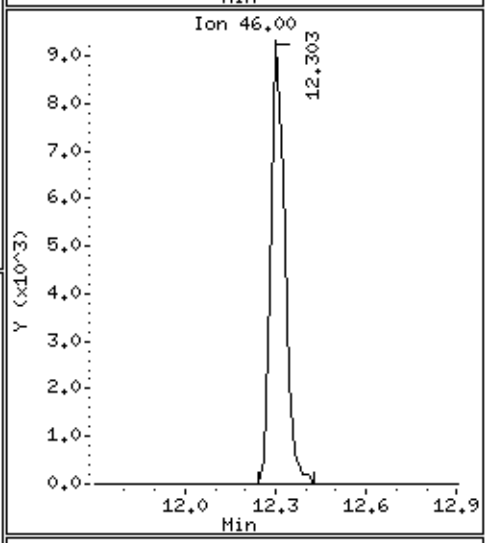


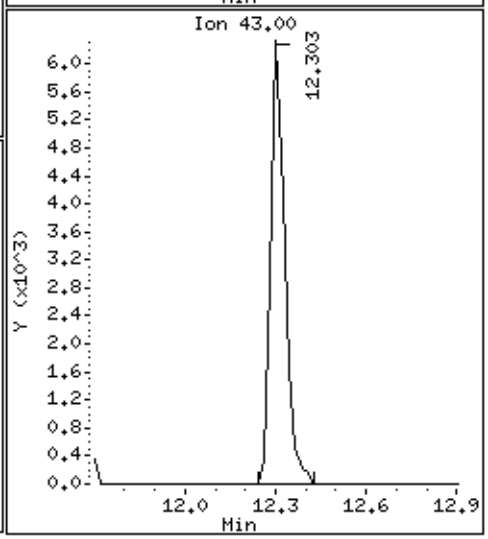



Data File: /chem/msde.i/13Mar2012.b/e031314.d

Date : 13-MAR-2012 19:28

Client ID:

Instrument: msde.i

Sample Info: 250mL #34192

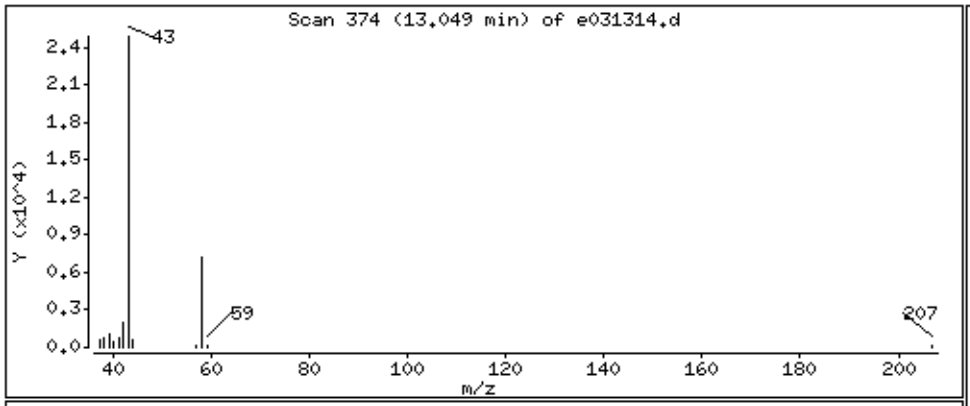
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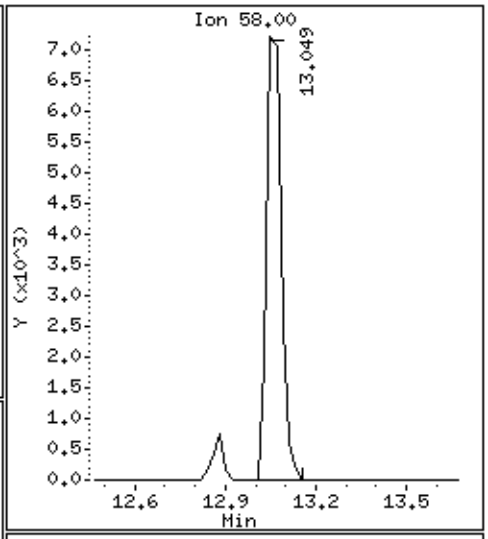
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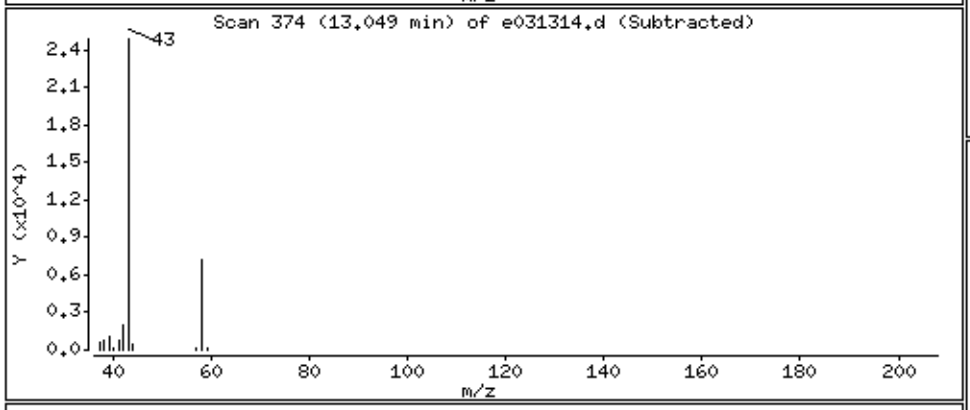
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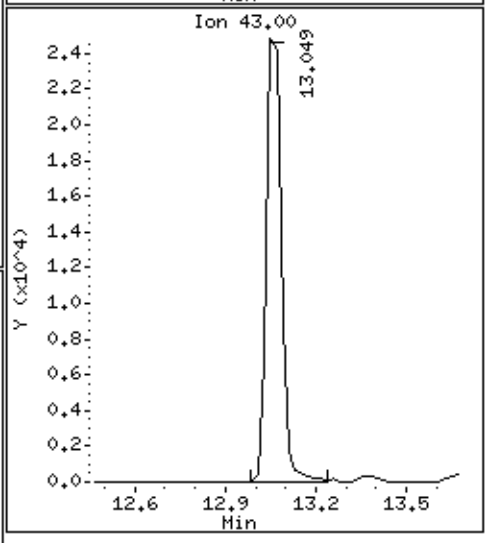
22 Acetone

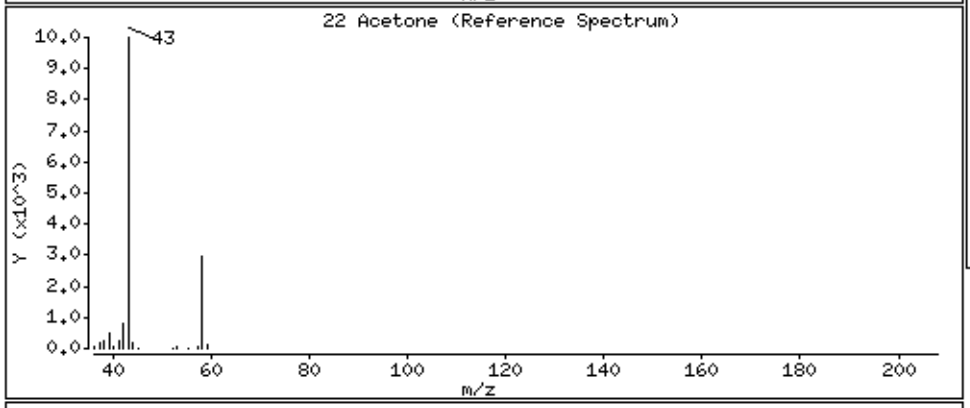
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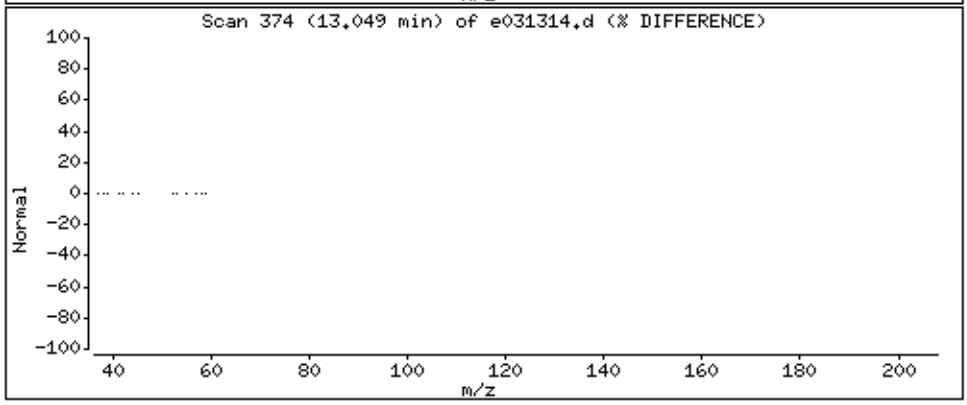


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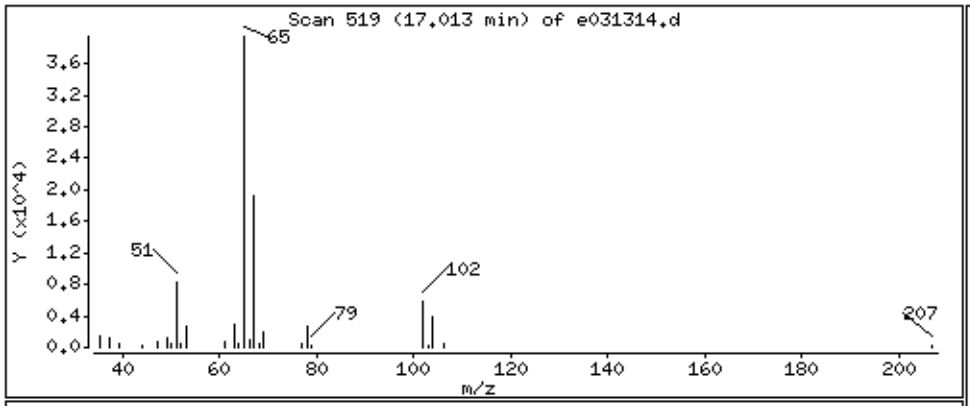
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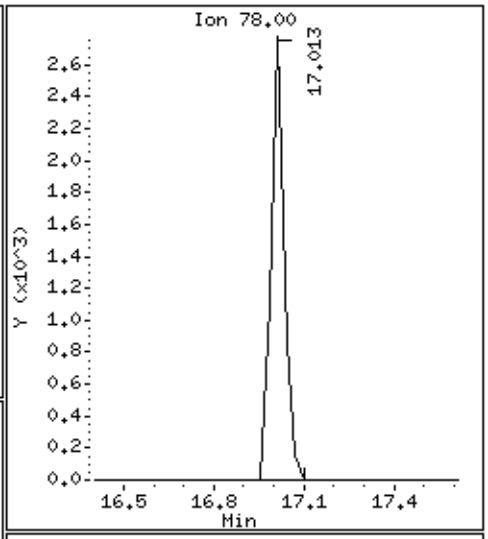
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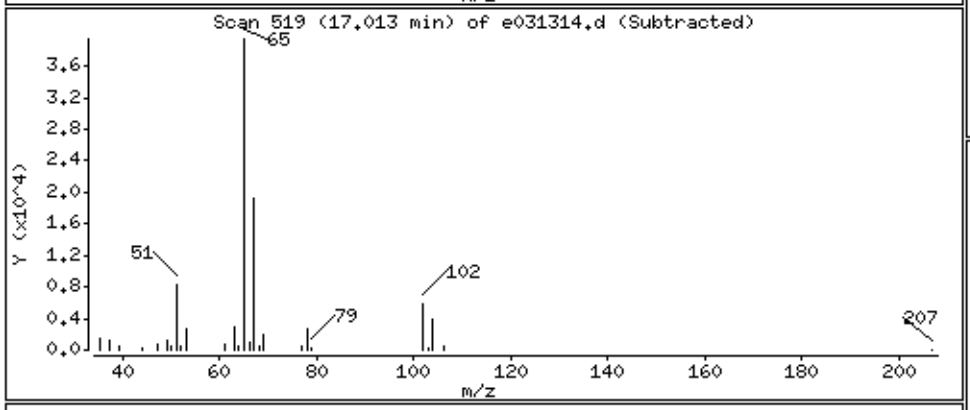
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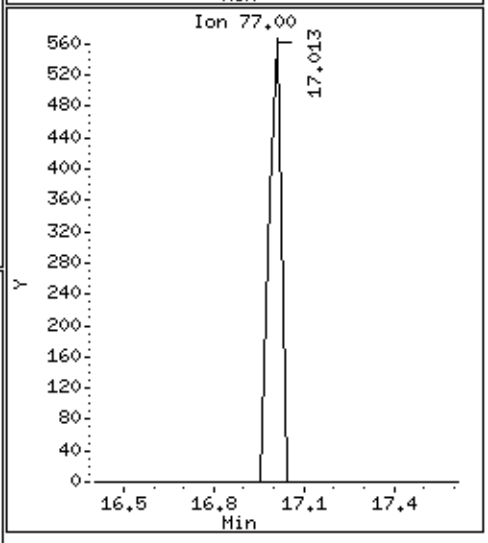
53 Benzene

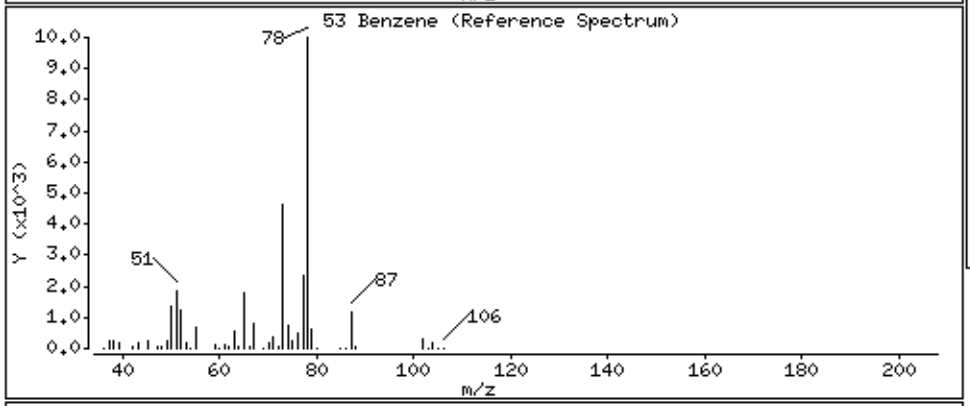
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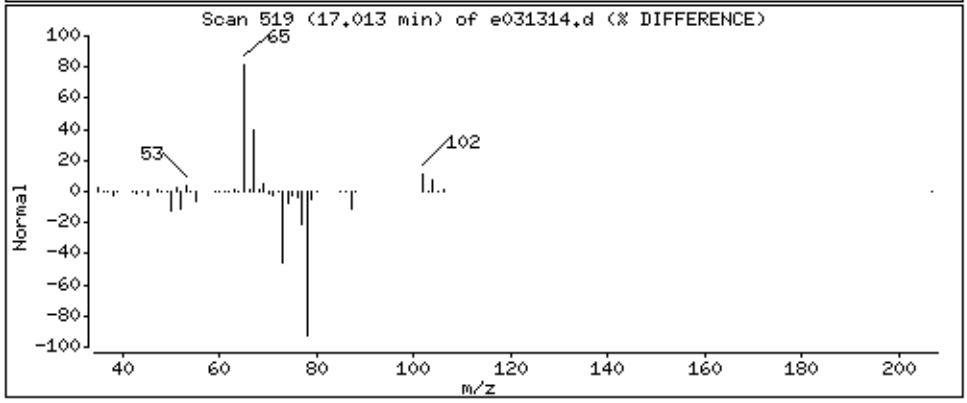


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Date : 13-MAR-2012 19:28

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Sample Info: 250mL #34192

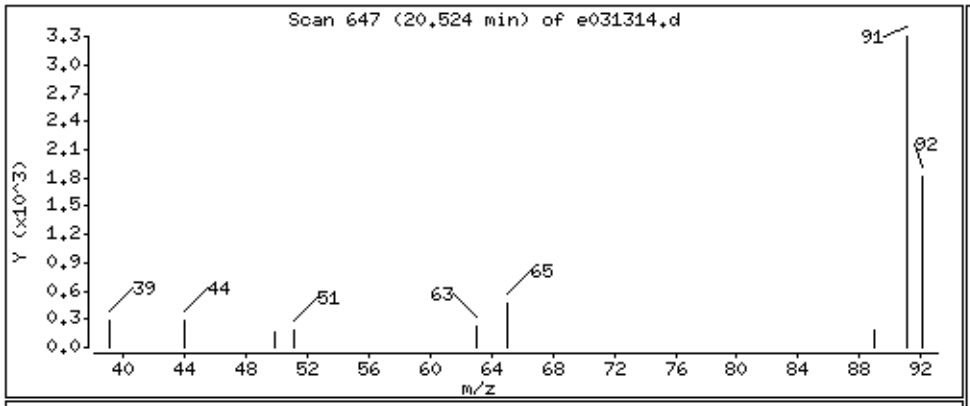
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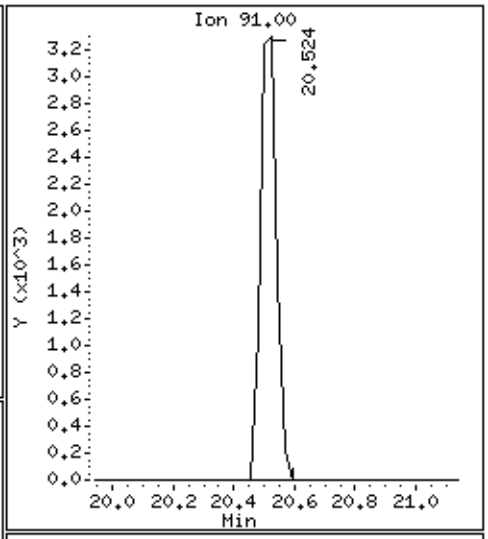
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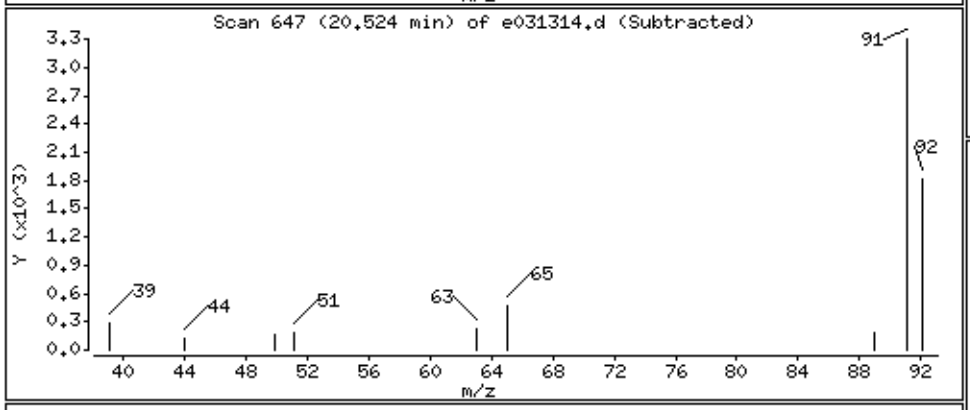
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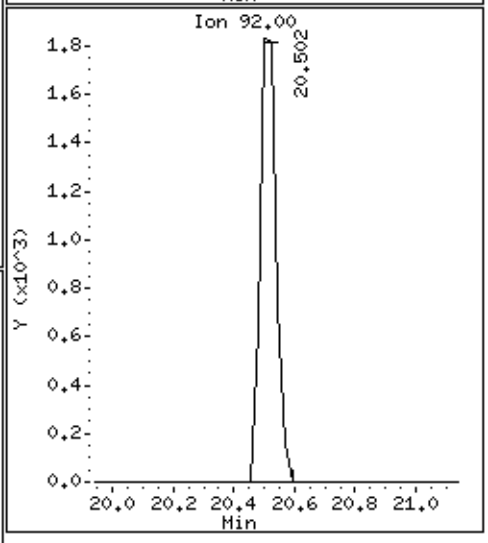
68 Toluene

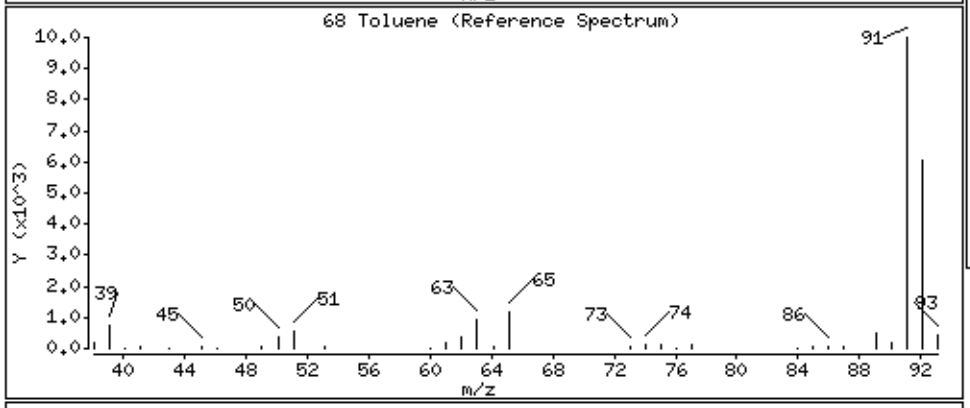
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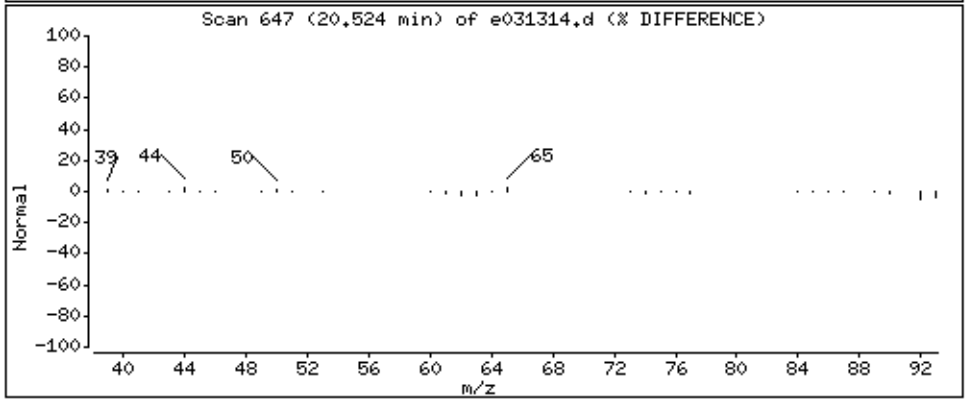


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Sample Info: 250mL #34192

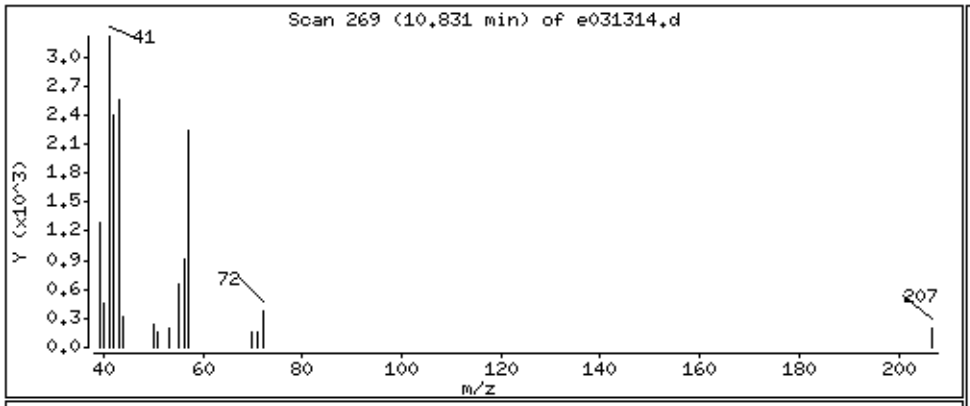
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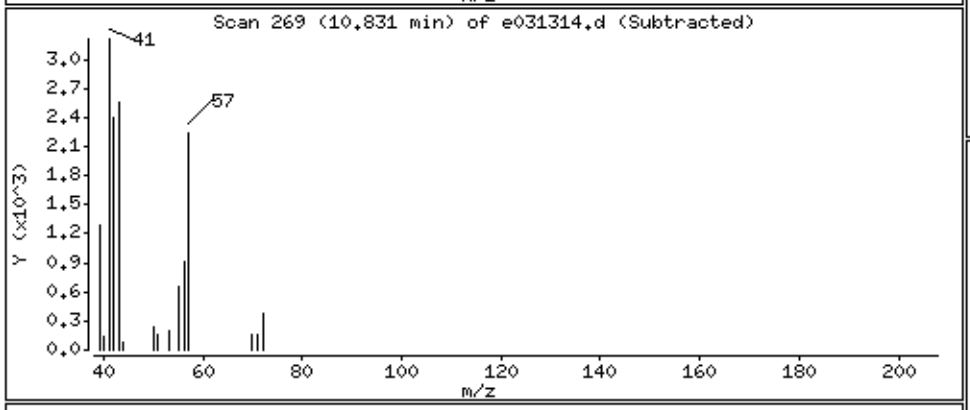
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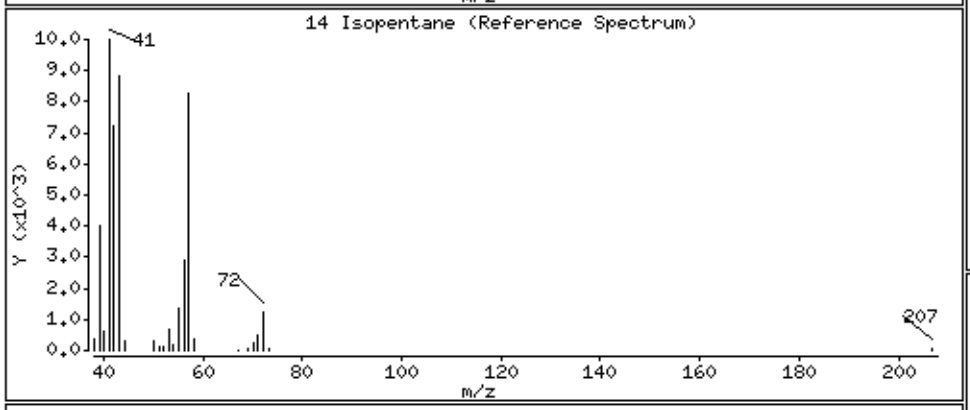
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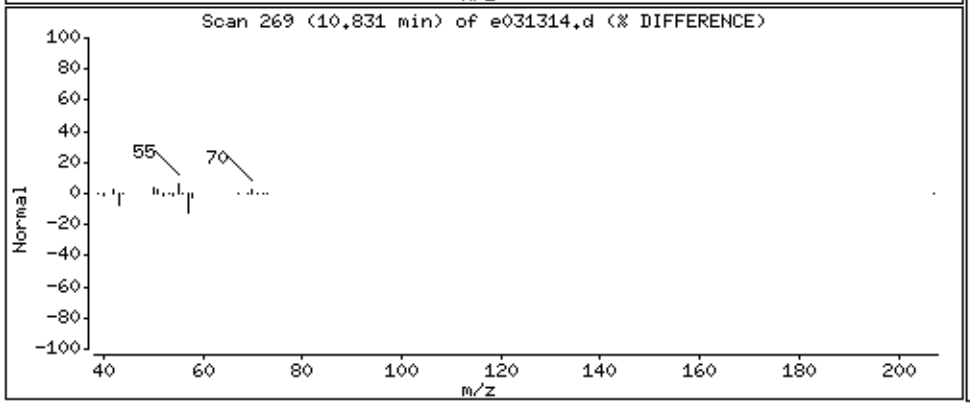
14 Isopentane

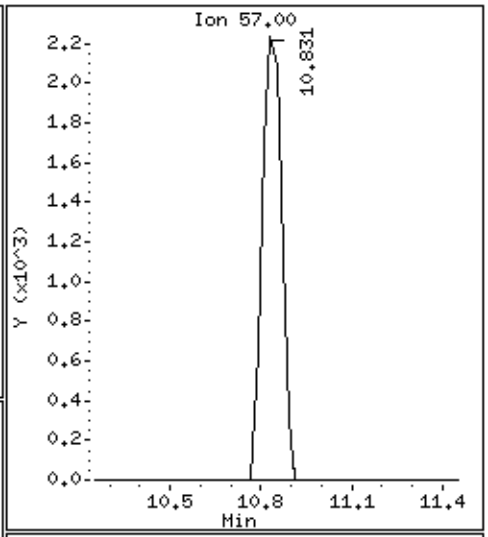
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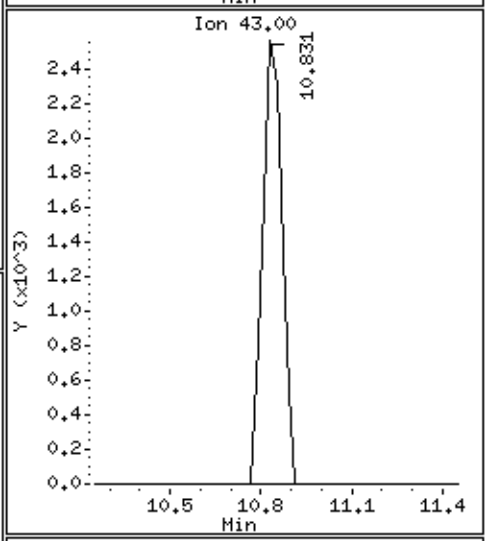


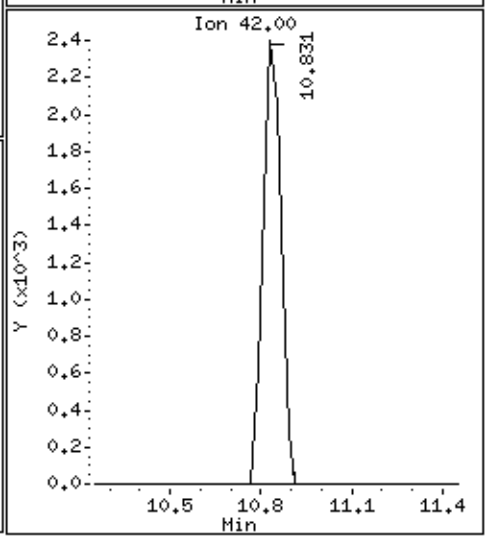



Data File: /chem/msde.i/13Mar2012.b/e031314.d 

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Instrument: msde.i

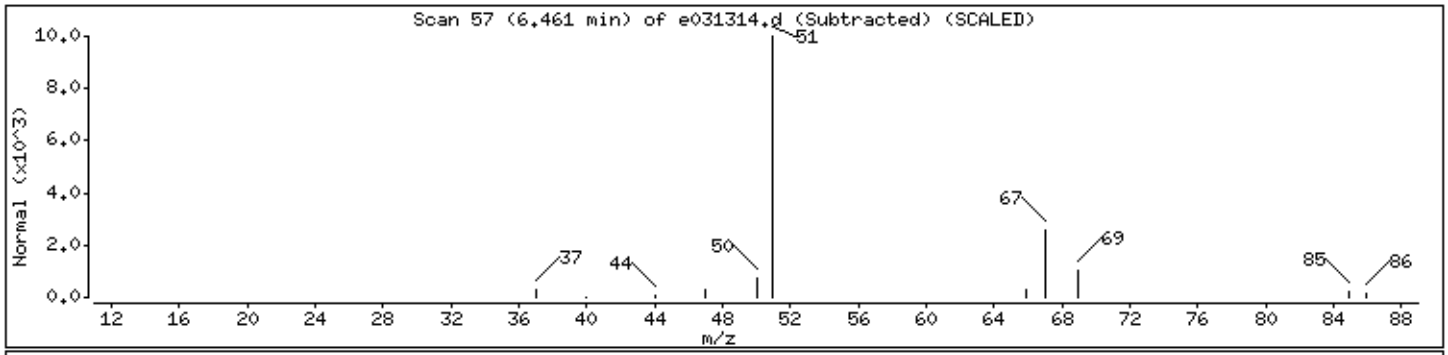
Sample Info: 250mL #34192

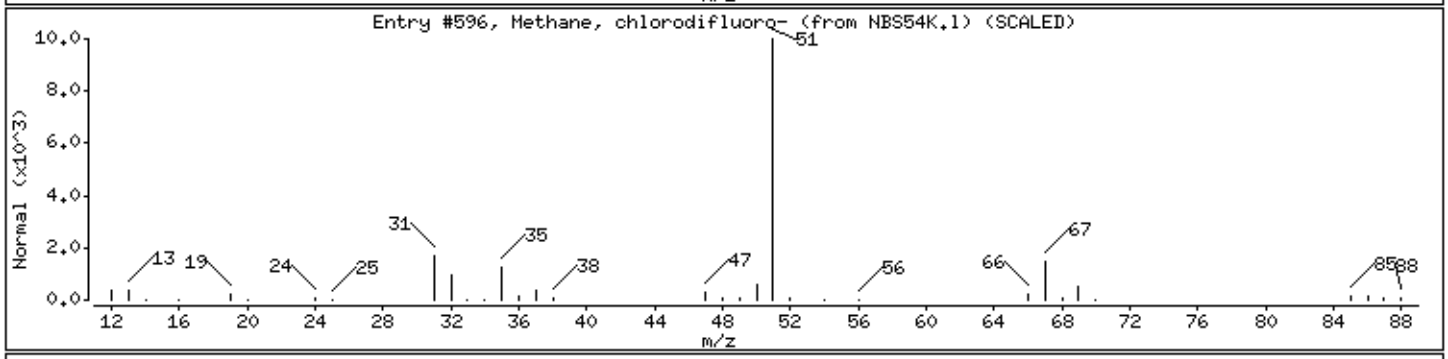
Operator: sac

Column phase: RTx-624

Column diameter: 0.32

| Library Search Compound Match | CAS Number | Library | Entry | Quality | Formula | Weight |
|---|---|---|---|---|---|---|
| Methane, chlorodifluoro- | 75-45-6 | NBS54K.l | 596 | 83 | CHClF2 | 86 |



Data File: /chem/msde.i/13Mar2012.b/e031314.d

Date : 13-MAR-2012 19:28

Client ID:

Instrument: msde.i

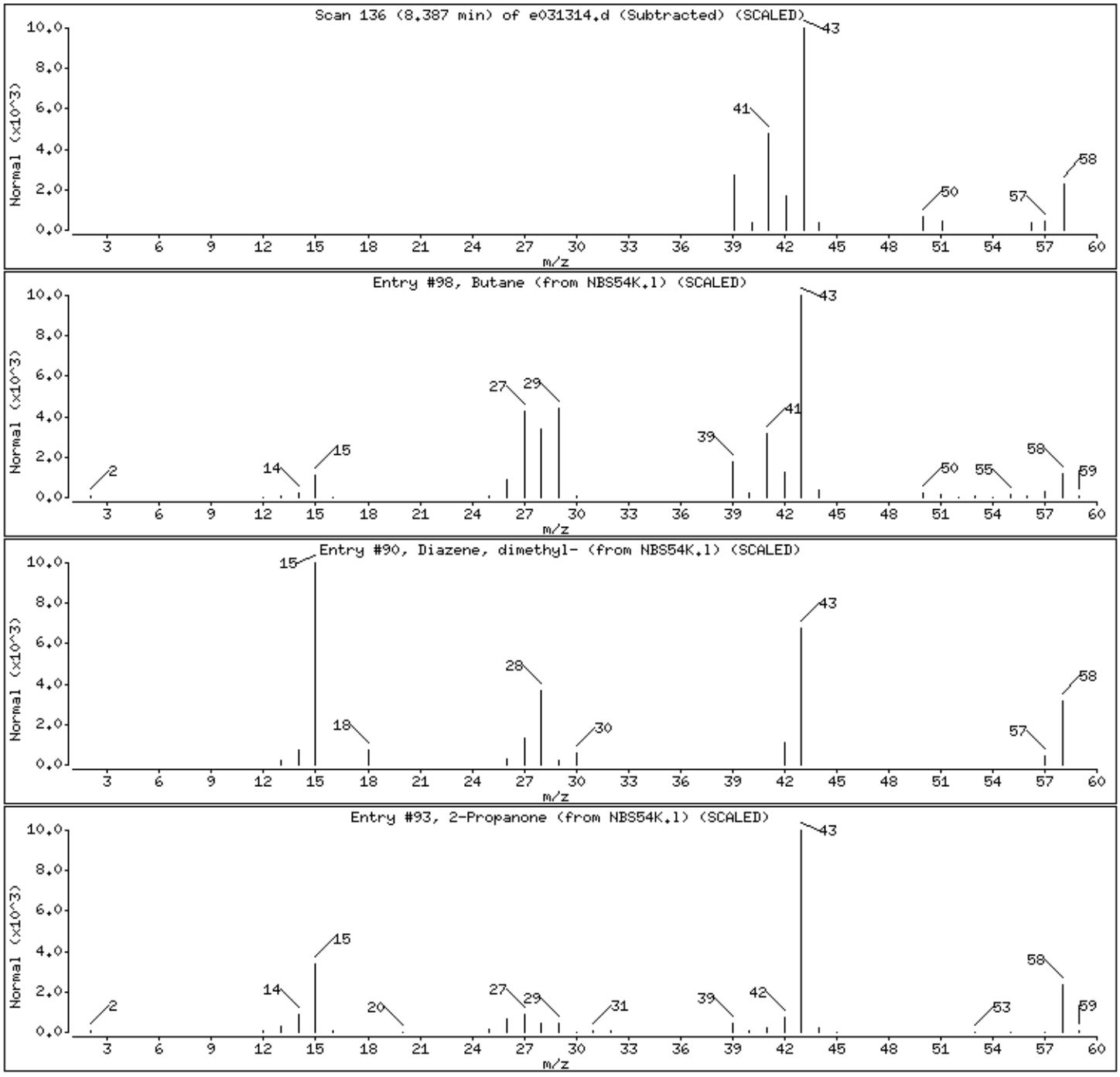
Sample Info: 250mL #34192

Operator: sac

Column phase: RTx-624

Column diameter: 0.32

| Library Search Compound Match | CAS Number | Library | Entry | Quality | Formula | Weight |
|---|---|---|---|---|---|---|
| Butane | 106-97-8 | NBS54K.l | 98 | 9 | C4H10 | 58 |
| Diazene, dimethyl- | 503-28-6 | NBS54K.l | 90 | 5 | C2H6N2 | 58 |
| 2-Propanone | 67-64-1 | NBS54K.l | 93 | 5 | C3H6O | 58 |



Data File: /chem/msde.i/13Mar2012.b/e031314.d

Date : 13-MAR-2012 19:28

Client ID:

Instrument: msde.i

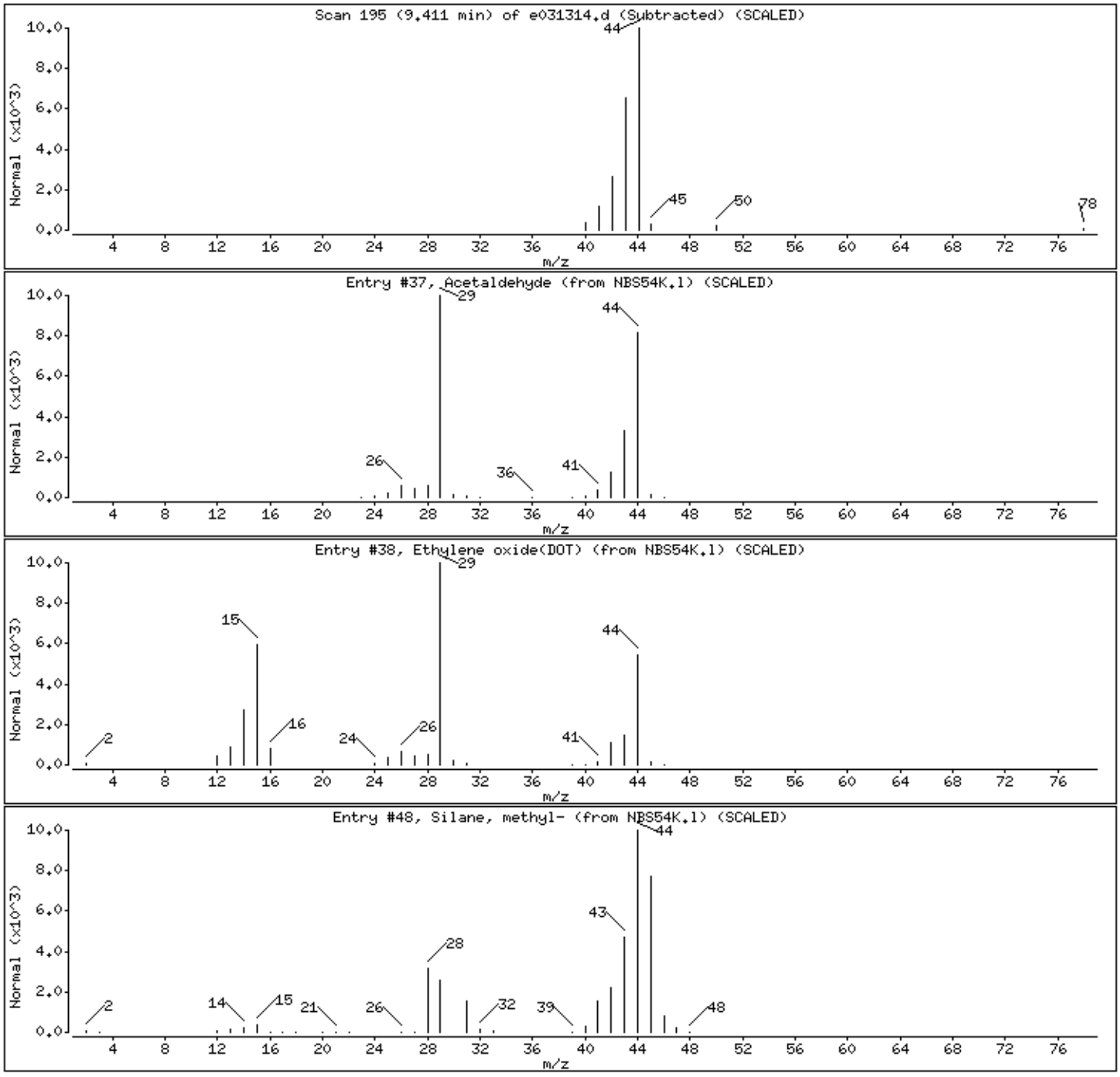
Sample Info: 250mL #34192

Operator: sac

Column phase: RTx-624

Column diameter: 0.32

| Library Search Compound Match | CAS Number | Library | Entry | Quality | Formula | Weight |
|---|---|---|---|---|---|---|
| Acetaldehyde | 75-07-0 | NBS54K.l | 37 | 3 | C2H4O | 44 |
| Ethylene oxide(DOT) | 75-21-8 | NBS54K.l | 38 | 5 | C2H4O | 44 |
| Silane, methyl- | 992-94-9 | NBS54K.l | 48 | 4 | CH6Si | 46 |



Data File: /chem/msde.i/13Mar2012.b/e031314.d

Date : 13-MAR-2012 19:28

Client ID:

Instrument: msde.i

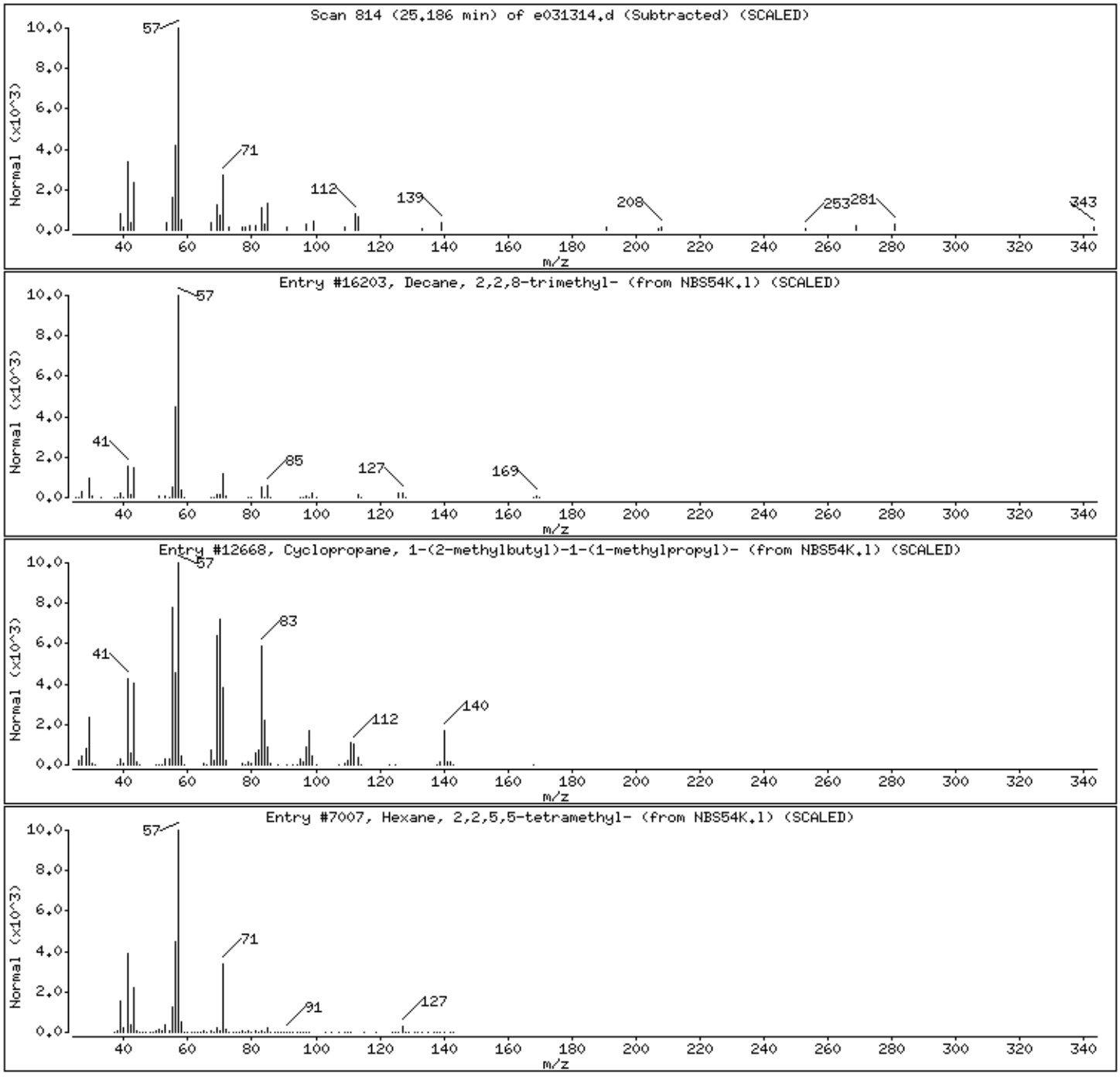
Sample Info: 250mL #34192

Operator: sac

Column phase: RTx-624

Column diameter: 0.32

| Library Search Compound Match | CAS Number | Library | Entry | Quality | Formula | Weight |
|---|---|---|---|---|---|---|
| Decane, 2,2,8-trimethyl- | 62238-01-1 | NBS54K.l | 16203 | 64 | C13H28 | 184 |
| Cyclopropane, 1-(2-methylbutyl)-1-(1-met | 64723-36-0 | NBS54K.l | 12668 | 56 | C12H24 | 168 |
| Hexane, 2,2,5,5-tetramethyl- | 1071-81-4 | NBS54K.l | 7007 | 53 | C10H22 | 142 |



Data File: /chem/msde.i/13Mar2012.b/e031314.d

Date : 13-MAR-2012 19:28

Client ID:

Instrument: msde.i

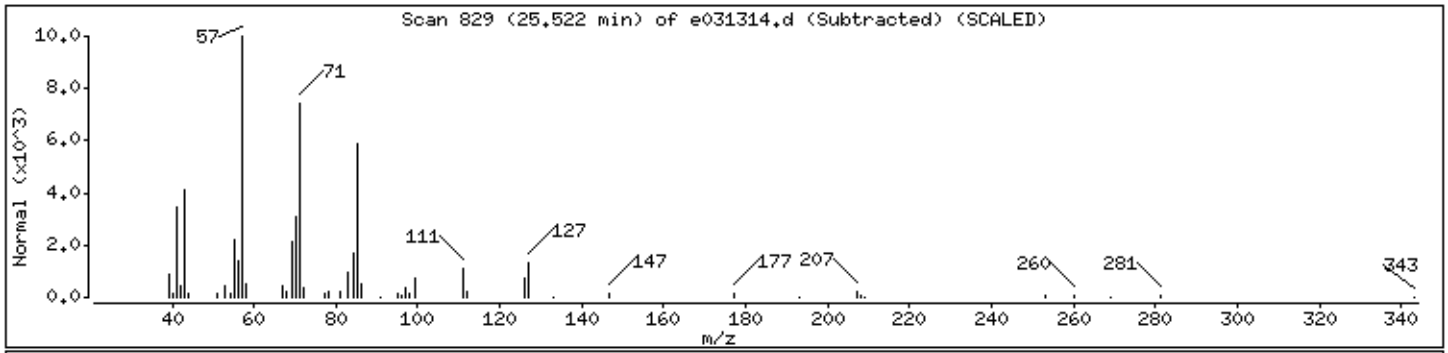
Sample Info: 250mL #34192

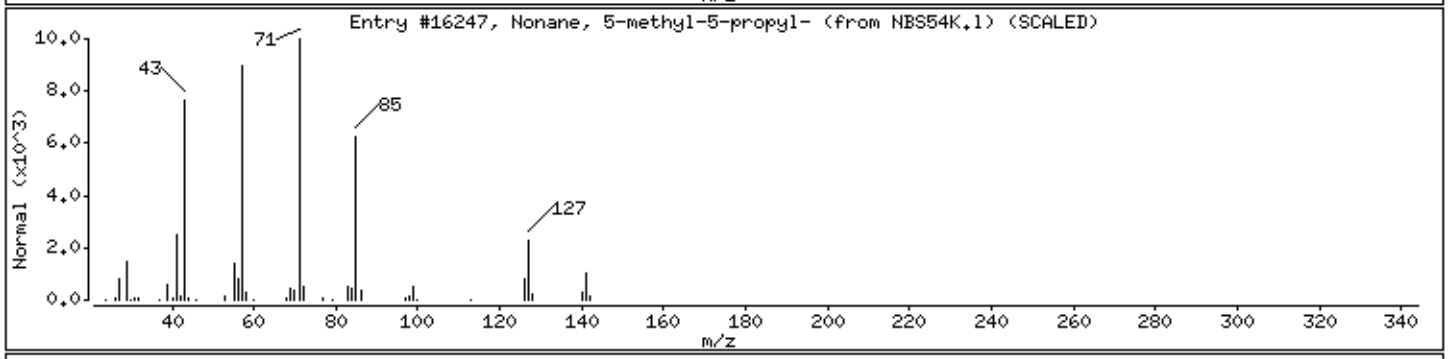
Operator: sac

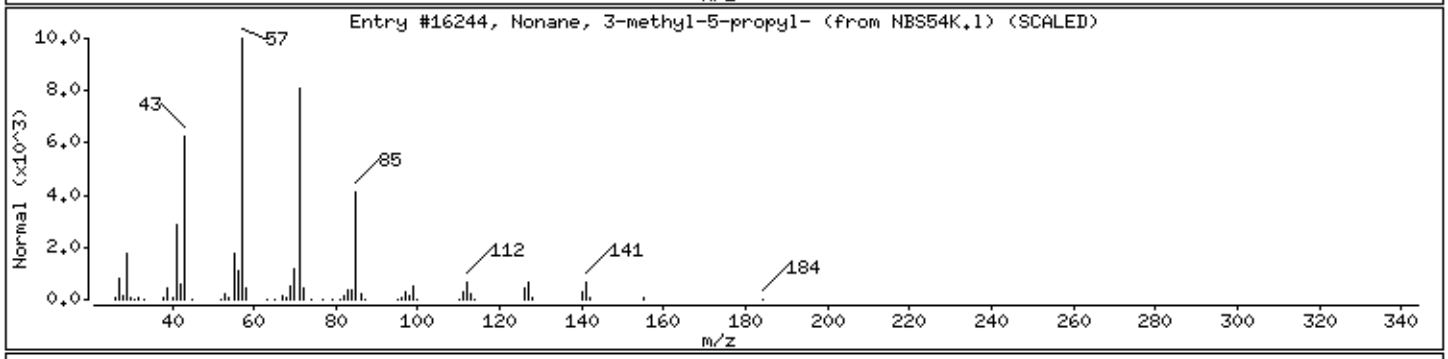
Column phase: RTx-624

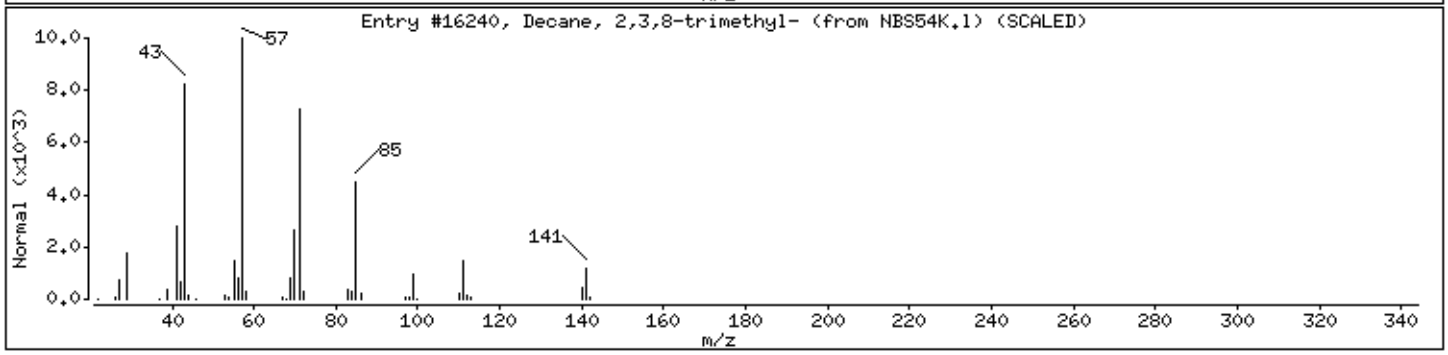
Column diameter: 0.32

| Library Search Compound Match | CAS Number | Library | Entry | Quality | Formula | Weight |
|---|---|---|---|---|---|---|
| Nonane, 5-methyl-5-propyl- | 17312-75-3 | NBS54K.l | 16247 | 59 | C13H28 | 184 |
| Nonane, 3-methyl-5-propyl- | 31081-18-2 | NBS54K.l | 16244 | 59 | C13H28 | 184 |
| Decane, 2,3,8-trimethyl- | 62238-14-6 | NBS54K.l | 16240 | 56 | C13H28 | 184 |



Data File: /chem/msde.i/13Mar2012.b/e031314.d

Date : 13-MAR-2012 19:28

Client ID:

Instrument: msde.i

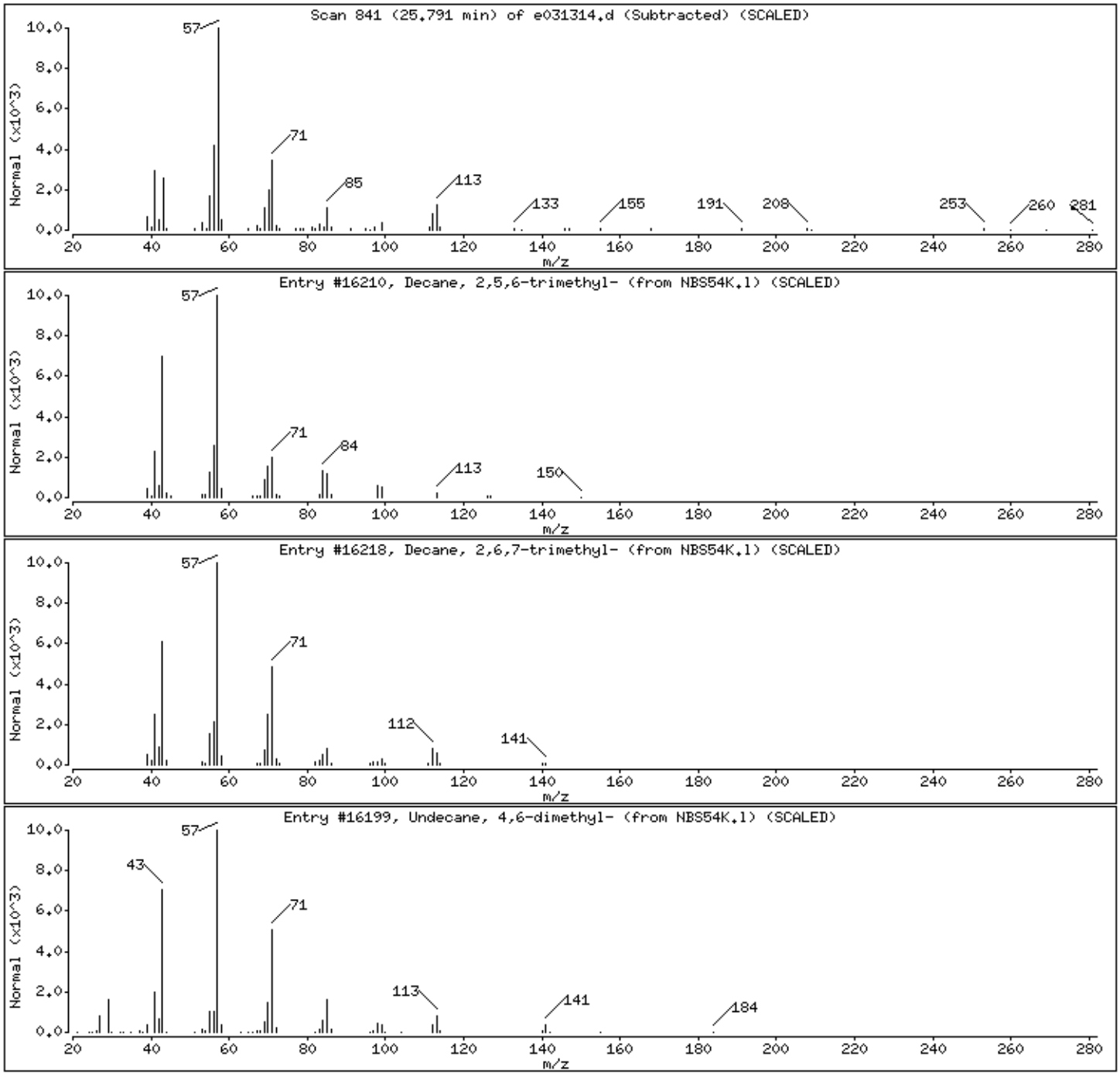
Sample Info: 250mL #34192

Operator: sac

Column phase: RTx-624

Column diameter: 0.32

| Library Search Compound Match | CAS Number | Library | Entry | Quality | Formula | Weight |
|---|---|---|---|---|---|---|
| Decane, 2,5,6-trimethyl- | 62108-23-0 | NBS54K.l | 16210 | 53 | C13H28 | 184 |
| Decane, 2,6,7-trimethyl- | 62108-25-2 | NBS54K.l | 16218 | 50 | C13H28 | 184 |
| Undecane, 4,6-dimethyl- | 17312-82-2 | NBS54K.l | 16199 | 50 | C13H28 | 184 |



Data File: /chem/msde.i/13Mar2012.b/e031314.d

Date : 13-MAR-2012 19:28

Client ID:

Instrument: msde.i

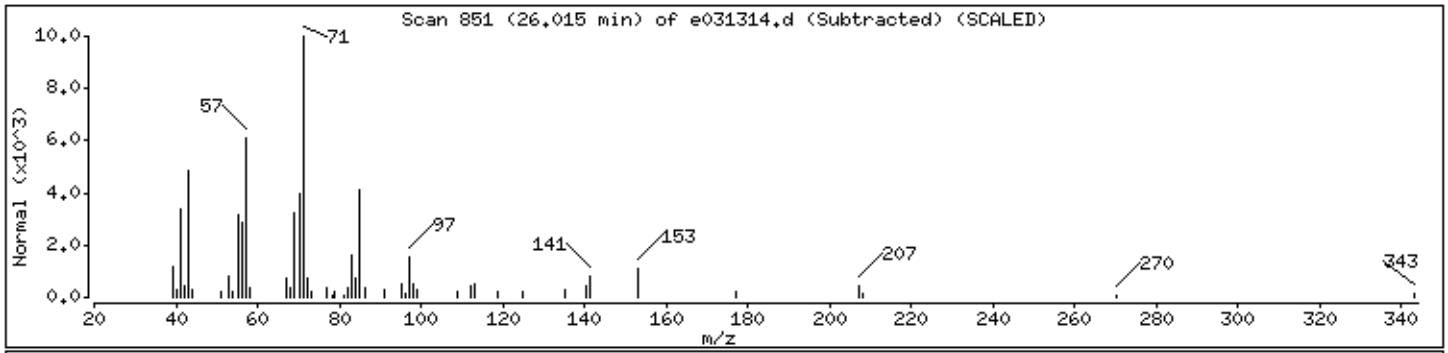
Sample Info: 250mL #34192

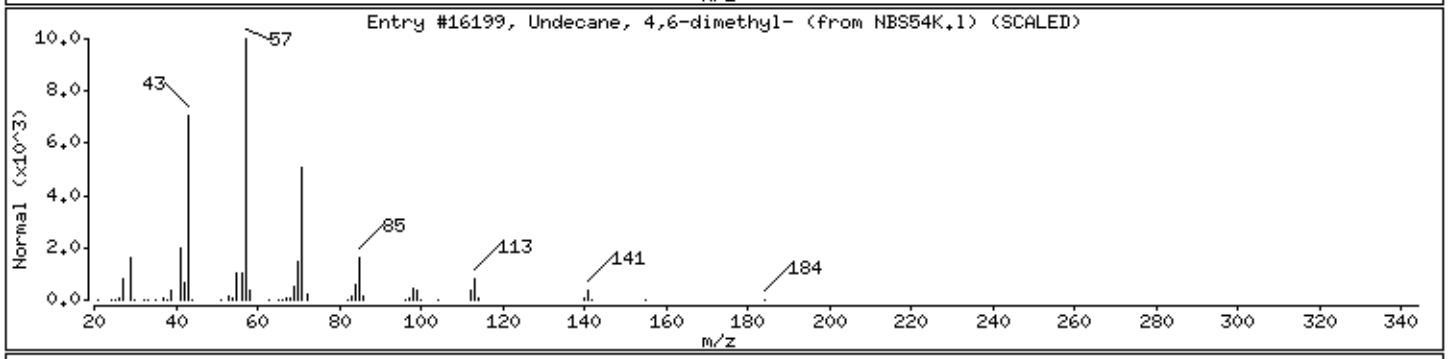
Operator: sac

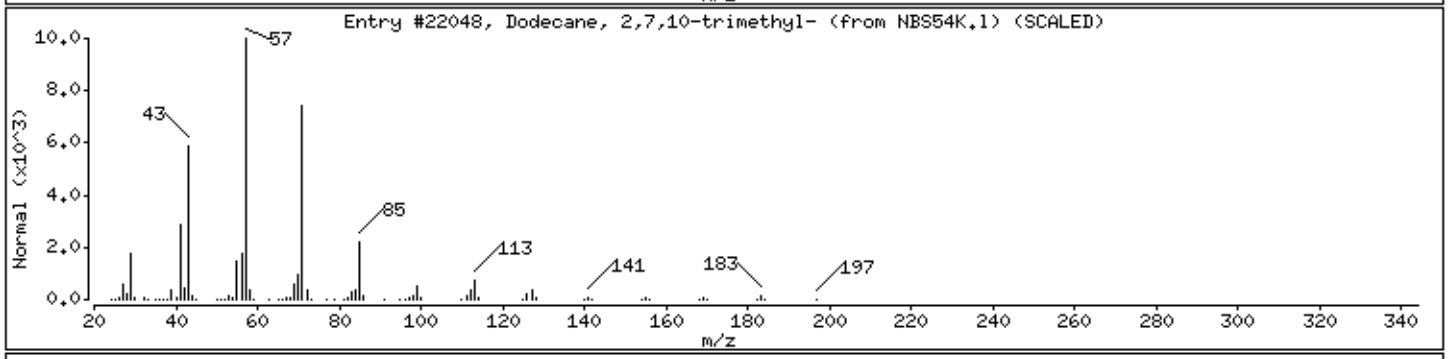
Column phase: RTx-624

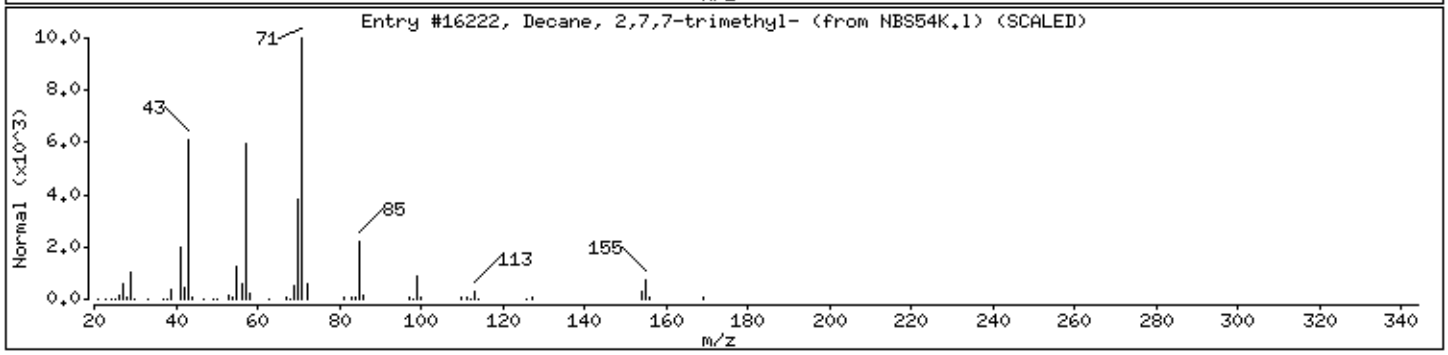
Column diameter: 0.32

| Library Search Compound Match | CAS Number | Library | Entry | Quality | Formula | Weight |
|---|---|---|---|---|---|---|
| Undecane, 4,6-dimethyl- | 17312-82-2 | NBS54K.l | 16199 | 56 | C13H28 | 184 |
| Dodecane, 2,7,10-trimethyl- | 74645-98-0 | NBS54K.l | 22048 | 53 | C15H32 | 212 |
| Decane, 2,7,7-trimethyl- | 62338-15-2 | NBS54K.l | 16222 | 50 | C13H28 | 184 |



Data File: /chem/msde.i/13Mar2012.b/e031314.d

Date : 13-MAR-2012 19:28

Client ID:

Instrument: msde.i

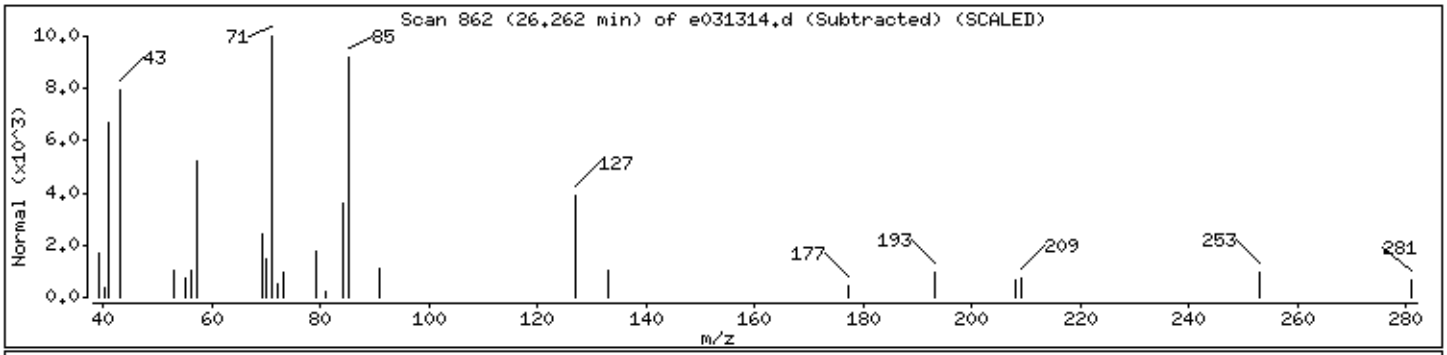
Sample Info: 250mL #34192

Operator: sac

Column phase: RTx-624

Column diameter: 0.32

| Library Search Compound Match | CAS Number | Library | Entry | Quality | Formula | Weight |
|---|---|---|---|---|---|---|
| Unknown | | | 0 | 0 | | 0 |



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# Summary of Detected Compounds
# MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

**Client Sample ID: SG-4**

**Lab ID#: 1202444-02A**

| Compound | Rpt. Limit (ppbv) | Amount (ppbv) | Rpt. Limit (ug/m3) | Amount (ug/m3) |
|---|---|---|---|---|
| 1,3-Butadiene | 3.4 | 15 | 7.6 | 32 |
| Ethanol | 17 | 29 | 32 | 55 |
| Acetone | 17 | 100 | 41 | 250 |
| Carbon Disulfide | 17 | 100 | 53 | 320 |
| Hexane | 3.4 | 140 | 12 | 510 |
| Cyclohexane | 3.4 | 42 | 12 | 140 |
| Benzene | 3.4 | 230 | 11 | 740 |
| Heptane | 3.4 | 33 | 14 | 130 |
| Toluene | 3.4 | 64 | 13 | 240 |
| Ethyl Benzene | 3.4 | 610 | 15 | 2600 |
| m,p-Xylene | 3.4 | 11 | 15 | 47 |
| Cumene | 3.4 | 11 | 17 | 54 |
| 2,3-Dimethylpentane | 17 | 32 | 70 | 130 |
| 2-Methylpentane | 17 | 170 | 60 | 590 |
| Isopentane | 17 | 190 | 50 | 570 |

**TENTATIVELY IDENTIFIED COMPOUNDS**

| Compound | CAS Number | Match Quality | Amount (ppbv) |
|---|---|---|---|
| Cyclopropane, methylmethylene- | 18631-84-0 | 90% | 870 NJ |
| Cyclopentene, 1-methyl- | 693-89-0 | 76% | 710 NJ |
| Cyclohexane, methyl- | 108-87-2 | 91% | 110 NJ |
| Cyclopentane, 1,3-dichloro-, trans- | 26688-50-6 | 25% | 110 NJ |
| Cyclohexene, 4-methyl- | 591-47-9 | 91% | 82 NJ |
| Heptane, 2,2,4,6,6-pentamethyl- | 13475-82-6 | 59% | 160 NJ |
| Nonane, 3,7-dimethyl- | 17302-32-8 | 64% | 200 NJ |
| Decane, 2,2-dimethyl- | 17302-37-3 | 72% | 80 NJ |
| Cyclopropane, 1-(2-methylbutyl)-1-(1-met | 64723-36-0 | 64% | 320 NJ |
| Undecane, 4,6-dimethyl- | 17312-82-2 | 56% | 140 NJ |

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**Client Sample ID: SG-4**

**Lab ID#: 1202444-02A**

**MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN**

| | | | |
|---|---|---|---|
| **File Name:** | **e031409** | **Date of Collection:** | **2/20/12 9:55:00 AM** |
| **Dil. Factor:** | **34.2** | **Date of Analysis:** | **3/14/12 01:25 PM** |

| Compound | Rpt. Limit (ppbv) | Amount (ppbv) | Rpt. Limit (ug/m3) | Amount (ug/m3) |
|---|---|---|---|---|
| Freon 12 | 3.4 | Not Detected | 17 | Not Detected |
| Freon 114 | 3.4 | Not Detected | 24 | Not Detected |
| Chloromethane | 3.4 | Not Detected | 7.1 | Not Detected |
| Vinyl Chloride | 3.4 | Not Detected | 8.7 | Not Detected |
| 1,3-Butadiene | 3.4 | 15 | 7.6 | 32 |
| Bromomethane | 3.4 | Not Detected | 13 | Not Detected |
| Chloroethane | 17 | Not Detected | 45 | Not Detected |
| Freon 11 | 3.4 | Not Detected | 19 | Not Detected |
| Ethanol | 17 | 29 | 32 | 55 |
| Freon 113 | 3.4 | Not Detected | 26 | Not Detected |
| 1,1-Dichloroethene | 3.4 | Not Detected | 14 | Not Detected |
| Acetone | 17 | 100 | 41 | 250 |
| 2-Propanol | 17 | Not Detected | 42 | Not Detected |
| Carbon Disulfide | 17 | 100 | 53 | 320 |
| 3-Chloropropene | 17 | Not Detected | 54 | Not Detected |
| Methylene Chloride | 6.8 | Not Detected | 24 | Not Detected |
| Methyl tert-butyl ether | 3.4 | Not Detected | 12 | Not Detected |
| trans-1,2-Dichloroethene | 3.4 | Not Detected | 14 | Not Detected |
| Hexane | 3.4 | 140 | 12 | 510 |
| 1,1-Dichloroethane | 3.4 | Not Detected | 14 | Not Detected |
| 2-Butanone (Methyl Ethyl Ketone) | 17 | Not Detected | 50 | Not Detected |
| cis-1,2-Dichloroethene | 3.4 | Not Detected | 14 | Not Detected |
| Tetrahydrofuran | 17 | Not Detected | 50 | Not Detected |
| Chloroform | 3.4 | Not Detected | 17 | Not Detected |
| 1,1,1-Trichloroethane | 3.4 | Not Detected | 19 | Not Detected |
| Cyclohexane | 3.4 | 42 | 12 | 140 |
| Carbon Tetrachloride | 3.4 | Not Detected | 22 | Not Detected |
| 2,2,4-Trimethylpentane | 17 | Not Detected | 80 | Not Detected |
| Benzene | 3.4 | 230 | 11 | 740 |
| 1,2-Dichloroethane | 3.4 | Not Detected | 14 | Not Detected |
| Heptane | 3.4 | 33 | 14 | 130 |
| Trichloroethene | 3.4 | Not Detected | 18 | Not Detected |
| 1,2-Dichloropropane | 3.4 | Not Detected | 16 | Not Detected |
| 1,4-Dioxane | 3.4 | Not Detected | 12 | Not Detected |
| Bromodichloromethane | 3.4 | Not Detected | 23 | Not Detected |
| cis-1,3-Dichloropropene | 3.4 | Not Detected | 16 | Not Detected |
| 4-Methyl-2-pentanone | 3.4 | Not Detected | 14 | Not Detected |
| Toluene | 3.4 | 64 | 13 | 240 |
| trans-1,3-Dichloropropene | 3.4 | Not Detected | 16 | Not Detected |
| 1,1,2-Trichloroethane | 3.4 | Not Detected | 19 | Not Detected |
| Tetrachloroethene | 3.4 | Not Detected | 23 | Not Detected |
| 2-Hexanone | 17 | Not Detected | 70 | Not Detected |

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**Client Sample ID: SG-4**

**Lab ID#: 1202444-02A**

**MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN**

| | | | |
|---|---|---|---|
| **File Name:** | **e031409** | **Date of Collection:** | **2/20/12 9:55:00 AM** |
| **Dil. Factor:** | **34.2** | **Date of Analysis:** | **3/14/12 01:25 PM** |

| Compound | Rpt. Limit (ppbv) | Amount (ppbv) | Rpt. Limit (ug/m3) | Amount (ug/m3) |
|---|---|---|---|---|
| Dibromochloromethane | 3.4 | Not Detected | 29 | Not Detected |
| 1,2-Dibromoethane (EDB) | 3.4 | Not Detected | 26 | Not Detected |
| Chlorobenzene | 3.4 | Not Detected | 16 | Not Detected |
| Ethyl Benzene | 3.4 | 610 | 15 | 2600 |
| m,p-Xylene | 3.4 | 11 | 15 | 47 |
| o-Xylene | 3.4 | Not Detected | 15 | Not Detected |
| Styrene | 3.4 | Not Detected | 14 | Not Detected |
| Bromoform | 3.4 | Not Detected | 35 | Not Detected |
| Cumene | 3.4 | 11 | 17 | 54 |
| 1,1,2,2-Tetrachloroethane | 3.4 | Not Detected | 23 | Not Detected |
| Propylbenzene | 3.4 | Not Detected | 17 | Not Detected |
| 4-Ethyltoluene | 3.4 | Not Detected | 17 | Not Detected |
| 1,3,5-Trimethylbenzene | 3.4 | Not Detected | 17 | Not Detected |
| 1,2,4-Trimethylbenzene | 3.4 | Not Detected | 17 | Not Detected |
| 1,3-Dichlorobenzene | 3.4 | Not Detected | 20 | Not Detected |
| 1,4-Dichlorobenzene | 3.4 | Not Detected | 20 | Not Detected |
| alpha-Chlorotoluene | 3.4 | Not Detected | 18 | Not Detected |
| 1,2-Dichlorobenzene | 3.4 | Not Detected | 20 | Not Detected |
| 1,2,4-Trichlorobenzene | 17 | Not Detected | 130 | Not Detected |
| Hexachlorobutadiene | 17 | Not Detected | 180 | Not Detected |
| 2,3-Dimethylpentane | 17 | 32 | 70 | 130 |
| 2-Methylpentane | 17 | 170 | 60 | 590 |
| Indene | 17 | Not Detected | 81 | Not Detected |
| Indan | 17 | Not Detected | 83 | Not Detected |
| Isopentane | 17 | 190 | 50 | 570 |
| Naphthalene | 17 | Not Detected | 90 | Not Detected |
| Thiophene | 17 | Not Detected | 59 | Not Detected |

**TENTATIVELY IDENTIFIED COMPOUNDS**

| Compound | CAS Number | Match Quality | Amount ((ppbv)) |
|---|---|---|---|
| Cyclopropane, methylmethylene- | 18631-84-0 | 90% | 870 NJ |
| Cyclopentene, 1-methyl- | 693-89-0 | 76% | 710 NJ |
| Cyclohexane, methyl- | 108-87-2 | 91% | 110 NJ |
| Cyclopentane, 1,3-dichloro-, trans- | 26688-50-6 | 25% | 110 NJ |
| Cyclohexene, 4-methyl- | 591-47-9 | 91% | 82 NJ |
| Heptane, 2,2,4,6,6-pentamethyl- | 13475-82-6 | 59% | 160 NJ |
| Nonane, 3,7-dimethyl- | 17302-32-8 | 64% | 200 NJ |
| Decane, 2,2-dimethyl- | 17302-37-3 | 72% | 80 NJ |
| Cyclopropane, 1-(2-methylbutyl)-1-(1-met | 64723-36-0 | 64% | 320 NJ |
| Undecane, 4,6-dimethyl- | 17312-82-2 | 56% | 140 NJ |

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**Client Sample ID: SG-4**

**Lab ID#: 1202444-02A**

**MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN**

| | | |
|---|---|---|
| **File Name:** | **e031409** | **Date of Collection: 2/20/12 9:55:00 AM** |
| **Dil. Factor:** | **34.2** | **Date of Analysis: 3/14/12 01:25 PM** |

NJ =The identification is based on presumptive evidence; estimated value.

**Container Type: 6 Liter Summa Special (100% Certified)**

| Surrogates | %Recovery | Method Limits |
|---|---|---|
| 1,2-Dichloroethane-d4 | 108 | 70-130 |
| Toluene-d8 | 102 | 70-130 |
| 4-Bromofluorobenzene | 104 | 70-130 |

Air Toxics Ltd.

EPA TO-15/Modified TO14A

Data file : /chem/msde.i/14Mar2012.b/e031409.d
Lab Smp Id: 1202444-02A
Inj Date : 14-MAR-2012 13:25
Operator : LL Inst ID: msde.i
Smp Info : 12.5mL #94610
Misc Info : 6.5"Hg->5.0psi
Comment : Low-Level/GC-MS
Method : /chem/msde.i/14Mar2012.b/e12l0308b.m
Meth Date : 14-Mar-2012 15:02 scarter Quant Type: ISTD
Cal Date : 10-MAR-2012 19:22 Cal File: e031014.d
Als bottle: 24
Dil Factor: 34.20000
Integrator: HP RTE Compound Sublist: PAR16136.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

| Name | Value | Description |
|---|---|---|
| DF | 34.20000 | Dilution Factor |

| | | | | | CONCENTRATIONS ON-COL | FINAL | | |
|---|---|---|---|---|---|---|---|---|
| RT | EXP RT (REL RT) | MASS | RESPONSE | | ( PPBV) | ( PPBV) | TARGET RANGE | RATIO |
| == | ====== ======== | ==== | ======== | | ======= | ======= | ========== | ===== |
| * 46 Bromochloromethane | | | | | | CAS #: 74-97-5 | | |
| 16.128 | 16.128 (1.000) | 130 | 80182 | 5.00000 | | | 80.00- 120.00 | 100.00 |
| 16.128 | 16.128 (1.000) | 128 | 64399 | | | | 0.00- 30.00 | 80.32 |
| 16.128 | 16.128 (1.000) | 49 | 83127 | | | | 0.00- 30.00 | 103.67 |
| * 58 1,4-Difluorobenzene | | | | | | CAS #: 540-36-3 | | |
| 17.586 | 17.586 (1.000) | 114 | 335116 | 5.00000 | | | 80.00- 120.00 | 100.00 |
| 17.586 | 17.586 (1.000) | 88 | 62894 | | | | 0.00- 30.00 | 18.77 |
| * 75 Chlorobenzene-d5 | | | | | | CAS #: 3114-55-4 | | |
| 22.927 | 22.927 (1.000) | 117 | 287820 | 5.00000 | | | 80.00- 120.00 | 100.00 |
| 22.903 | 22.927 (1.000) | 82 | 198344 | | | | 0.00- 30.00 | 68.91 |
| $ 54 1,2-Dichloroethane-d4 | | | | | | CAS #: 17060-07-0 | | |
| 17.013 | 17.013 (1.055) | 65 | 161126 | 5.39244 | 5.392 | | 80.00- 120.00 | 100.00 |
| 17.013 | 17.013 (1.055) | 67 | 79422 | | | | 0.00- 30.00 | 49.29 |

| RT | EXP RT (REL RT) | MASS | RESPONSE | CONCENTRATIONS ON-COL ( PPBV) | CONCENTRATIONS FINAL ( PPBV) | TARGET RANGE | RATIO |
|---|---|---|---|---|---|---|---|
| $ 67 Toluene-d8 | | | | | CAS #: 2037-26-5 | | |
| 20.368 | 20.368 (1.158) | 98 | 345049 | 5.11183 | 5.112 | 80.00- 120.00 | 100.00 |
| 20.368 | 20.368 (1.158) | 70 | 51096 | | | 0.00- 30.00 | 14.81 |
| 20.368 | 20.368 (1.158) | 100 | 216646 | | | 35.01- 95.01 | 62.79 |
| $ 87 Bromofluorobenzene | | | | | CAS #: 460-00-4 | | |
| 24.526 | 24.526 (1.070) | 174 | 171813 | 5.21823 | 5.218 | 80.00- 120.00 | 100.00 |
| 24.526 | 24.526 (1.070) | 95 | 280055 | | | 125.48- 185.48 | 163.00 |
| 24.526 | 24.526 (1.070) | 176 | 167088 | | | 67.99- 127.99 | 97.25 |
| 11 1,3-Butadiene | | | | | CAS #: 106-99-0 | | |
| 8.751 | 8.769 (0.543) | 54 | 5893 | 0.42896 | 14.670 | 80.00- 120.00 | 100.00 |
| 8.751 | 8.769 (0.543) | 39 | 9009 | | | 0.00- 30.00 | 152.88 |
| 18 Ethanol | | | | | CAS #: 64-17-5 | | |
| 12.324 | 12.324 (0.764) | 45 | 4415 | 0.85580 | 29.268 | 80.00- 120.00 | 100.00 |
| 12.324 | 12.324 (0.764) | 46 | 1491 | | | 0.00- 30.00 | 33.77 |
| 12.324 | 12.324 (0.764) | 43 | 1792 | | | 0.00- 30.00 | 40.59 |
| 22 Acetone | | | | | CAS #: 67-64-1 | | |
| 13.070 | 13.070 (0.810) | 58 | 27701 | 3.05687 | 104.54 | 80.00- 120.00 | 100.00 |
| 13.070 | 13.070 (0.810) | 43 | 87505 | | | 0.00- 30.00 | 315.89 |
| 23 Carbon Disulfide | | | | | CAS #: 75-15-0 | | |
| 13.174 | 13.194 (0.817) | 76 | 178318 | 2.99067 | 102.28 | 80.00- 120.00 | 100.00 |
| 35 Hexane | | | | | CAS #: 110-54-3 | | |
| 14.517 | 14.517 (0.900) | 57 | 110845 | 4.24265 | 145.10 | 80.00- 120.00 | 100.00 |
| 14.517 | 14.517 (0.900) | 43 | 58844 | | | 0.00- 30.00 | 53.09 |
| 14.544 | 14.517 (0.902) | 86 | 28501 | | | 0.00- 30.00 | 25.71 |
| 48 Cyclohexane | | | | | CAS #: 110-82-7 | | |
| 16.467 | 16.467 (1.021) | 84 | 42765 | 1.21608 | 41.590 | 80.00- 120.00 | 100.00 |
| 16.436 | 16.467 (1.019) | 56 | 81756 | | | 0.00- 30.00 | 191.18 |
| 16.436 | 16.467 (1.019) | 41 | 42148 | | | 0.00- 30.00 | 98.56 |
| 53 Benzene | | | | | CAS #: 71-43-2 | | |
| 17.013 | 17.013 (0.967) | 78 | 583683 | 6.78988 | 232.21 | 80.00- 120.00 | 100.00 |
| 17.013 | 17.013 (0.967) | 77 | 137483 | | | 0.00- 30.00 | 23.55 |
| 57 Heptane | | | | | CAS #: 142-82-5 | | |
| 17.159 | 17.159 (0.976) | 57 | 17064 | 0.96037 | 32.845 | 80.00- 120.00 | 100.00 |
| 17.159 | 17.159 (0.976) | 100 | 6620 | | | 0.00- 30.00 | 38.80 |
| 17.159 | 17.159 (0.976) | 43 | 23243 | | | 0.00- 30.00 | 136.21 |
| 68 Toluene | | | | | CAS #: 108-88-3 | | |
| 20.525 | 20.525 (1.167) | 91 | 190953 | 1.86151 | 63.664 | 80.00- 120.00 | 100.00 |

| RT | EXP RT (REL RT) | MASS | RESPONSE | CONCENTRATIONS ON-COL ( PPBV) | CONCENTRATIONS FINAL ( PPBV) | TARGET RANGE | RATIO |
|---|---|---|---|---|---|---|---|
| 68 Toluene (continued) | | | | | | | |
| 20.502 | 20.525 (1.166) | 92 | 114643 | | | 0.00- 30.00 | 60.04 |
| 77 Ethyl Benzene | | | | | CAS #: 100-41-4 | | |
| 23.023 | 23.023 (1.004) | 106 | 711831 | 17.7620 | 607.46 | 80.00- 120.00 | 100.00 |
| 23.023 | 23.023 (1.004) | 91 | 2462952 | | | 0.00- 30.00 | 346.00 |
| 80 m,p-Xylene | | | | | CAS #: 108-38-3 | | |
| 23.192 | 23.192 (1.012) | 106 | 15227 | 0.31578 | 10.800 | 80.00- 120.00 | 100.00 |
| 23.192 | 23.192 (1.012) | 91 | 36460 | | | 0.00- 30.00 | 239.44 |
| 85 Cumene | | | | | CAS #: 98-82-8 | | |
| 24.228 | 24.228 (1.057) | 105 | 48058 | 0.32018 | 10.950 | 80.00- 120.00 | 100.00 |
| 24.228 | 24.228 (1.057) | 120 | 11274 | | | 0.00- 30.00 | 23.46 |
| 45 2,3-Dimethylpentane | | | | | CAS #: 565-59-3 | | |
| 16.405 | 16.405 (1.017) | 71 | 14218 | 0.92551 | 31.652 | 80.00- 120.00 | 100.00 |
| 16.436 | 16.405 (1.019) | 56 | 81756 | | | 0.00- 30.00 | 575.02 |
| 16.405 | 16.405 (1.017) | 43 | 22769 | | | 0.00- 30.00 | 160.14 |
| 24 2-Methylpentane | | | | | CAS #: 107-83-5 | | |
| 13.692 | 13.692 (0.849) | 71 | 81517 | 4.91544 | 168.11 | 80.00- 120.00 | 100.00 |
| 13.692 | 13.692 (0.849) | 43 | 118261 | | | 0.00- 30.00 | 145.08 |
| 13.692 | 13.692 (0.849) | 42 | 60331 | | | 0.00- 30.00 | 74.01 |
| 14 Isopentane | | | | | CAS #: 78-78-4 | | |
| 10.852 | 10.852 (0.673) | 57 | 82587 | 5.61430 | 192.01 | 80.00- 120.00 | 100.00 |
| 10.852 | 10.852 (0.673) | 43 | 88725 | | | 0.00- 30.00 | 107.43 |
| 10.852 | 10.852 (0.673) | 42 | 74105 | | | 0.00- 30.00 | 89.73 |

Air Toxics Ltd.

EPA TO-15/Modified TO14A

Data file : /chem/msde.i/14Mar2012.b/e031409.d
Lab Smp Id: 1202444-02A
Inj Date : 14-MAR-2012 13:25
Operator : LL Inst ID: msde.i
Smp Info : 12.5mL #94610
Misc Info : 6.5"Hg->5.0psi
Comment : Low-Level/GC-MS
Method : /chem/msde.i/14Mar2012.b/e12l0308b.m
Meth Date : 14-Mar-2012 15:02 scarter Quant Type: ISTD
Cal Date : 10-MAR-2012 19:22 Cal File: e031014.d
Als bottle: 24
Dil Factor: 34.20000
Integrator: HP RTE Compound Sublist: PAR16136.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

| Name | Value | Description |
|---|---|---|
| DF | 34.20000 | Dilution Factor |

| ISTD | RT | AREA | AMOUNT |
|---|---|---|---|
| * 46 Bromochloromethane | 16.128 | 3781446 | 5.000 |
| * 58 1,4-Difluorobenzene | 17.586 | 907222 | 5.000 |
| * 75 Chlorobenzene-d5 | 22.927 | 1603328 | 5.000 |

| | CONCENTRATIONS | | | | QUANT | | |
|---|---|---|---|---|---|---|---|
| RT | AREA | ON-COL( PPBV) | FINAL( PPBV) | QUAL | LIBRARY | LIB ENTRY | CPND # |
| 13.609 | 4616183 | 6.10372701 | 208.75 | 90 | NBS54K.l | 182 | 46(L) |

Cyclopropane, methylmethylene- CAS #: 18631-84-0

| RT | AREA | ON-COL( PPBV) | FINAL( PPBV) | QUAL | LIBRARY | LIB ENTRY | CPND # |
|---|---|---|---|---|---|---|---|
| 16.158 | 3781447 | 5.00000000 | 171.00 | 76 | NBS54K.l | 459 | 46(L) |

Cyclopentene, 1-methyl- CAS #: 693-89-0

| RT | AREA | ON-COL( PPBV) | FINAL( PPBV) | QUAL | LIBRARY | LIB ENTRY | CPND # |
|---|---|---|---|---|---|---|---|
| Cyclohexane, methyl- | | | | | CAS #: 108-87-2 | | |
| 18.272 | 575340 | 3.17088551 | 108.44 | 91 | NBS54K.l | 1211 | 58 |
| Cyclopentane, 1,3-dichloro-, trans- | | | | | CAS #: 26688-50-6 | | |
| 19.288 | 590059 | 3.25200683 | 111.22 | 25 | NBS54K.l | 5939 | 58(L) |
| Cyclohexene, 4-methyl- | | | | | CAS #: 591-47-9 | | |
| 19.987 | 436720 | 2.40690487 | 82.316 | 91 | NBS54K.l | 1033 | 58 |
| Heptane, 2,2,4,6,6-pentamethyl- | | | | | CAS #: 13475-82-6 | | |
| 25.186 | 1507074 | 4.69982780 | 160.73 | 59 | NBS54K.l | 13159 | 75(L) |
| Nonane, 3,7-dimethyl- | | | | | CAS #: 17302-32-8 | | |
| 25.522 | 1845857 | 5.75632716 | 196.87 | 64 | NBS54K.l | 9970 | 75 |
| Decane, 2,2-dimethyl- | | | | | CAS #: 17302-37-3 | | |
| 25.679 | 752834 | 2.34772215 | 80.292 | 72 | NBS54K.l | 13151 | 75 |
| Cyclopropane, 1-(2-methylbutyl)-1-(1-met | | | | | CAS #: 64723-36-0 | | |
| 25.791 | 3003016 | 9.36494205 | 320.28 | 64 | NBS54K.l | 12668 | 75 |
| Undecane, 4,6-dimethyl- | | | | | CAS #: 17312-82-2 | | |
| 26.015 | 1356824 | 4.23127115 | 144.71 | 56 | NBS54K.l | 16199 | 75 |

## QC Flag Legend

L - Operator selected an alternate library search match.

Report Date: 21-Mar-2012 11:31

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msde.i
Lab File ID: e031409.d
Lab Smp Id: 1202444-02A
Analysis Type: VOA
Quant Type: ISTD
Operator: LL
Method File: /chem/msde.i/14Mar2012.b/e12l0308b.m
Misc Info: 6.5"Hg->5.0psi

Calibration Date: 14-MAR-2012
Calibration Time: 10:17
Level: LOW
Sample Type: AIR

| | | AREA LIMIT | | | |
|---|---|---|---|---|---|
| COMPOUND | STANDARD | LOWER | UPPER | SAMPLE | %DIFF |
| 46 Bromochloromethan | 90443 | 54266 | 126620 | 80182 | -11.35 |
| 58 1,4-Difluorobenze | 374503 | 224702 | 524304 | 335116 | -10.52 |
| 75 Chlorobenzene-d5 | 310086 | 186052 | 434120 | 287820 | -7.18 |

| | | RT LIMIT | | | |
|---|---|---|---|---|---|
| COMPOUND | STANDARD | LOWER | UPPER | SAMPLE | %DIFF |
| 46 Bromochloromethan | 16.13 | 15.80 | 16.46 | 16.13 | 0.00 |
| 58 1,4-Difluorobenze | 17.59 | 17.26 | 17.92 | 17.59 | 0.00 |
| 75 Chlorobenzene-d5 | 22.93 | 22.60 | 23.26 | 22.93 | 0.00 |

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Report Date: 21-Mar-2012 11:31

Air Toxics Ltd.

RECOVERY REPORT

Client Name: Client SDG: 14Mar2012
Sample Matrix: GAS Fraction: VOA
Lab Smp Id: 1202444-02A
Level: LOW Operator: LL
Data Type: MS DATA SampleType: SAMPLE
SpikeList File: AT09.spk Quant Type: ISTD
Sublist File: PAR16136.sub
Method File: /chem/msde.i/14Mar2012.b/e12l0308b.m
Misc Info: 6.5"Hg->5.0psi

| SURROGATE COMPOUND | CONC ADDED PPBV | CONC RECOVERED PPBV | % RECOVERED | LIMITS |
|---|---|---|---|---|
| $ 54 1,2-Dichloroethane | 5.000 | 5.392 | 107.85 | 70-130 |
| $ 67 Toluene-d8 | 5.000 | 5.112 | 102.24 | 70-130 |
| $ 87 Bromofluorobenzene | 5.000 | 5.218 | 104.36 | 70-130 |

ÎQ

Data File: /chem/msde.i/14Mar2012.b/e031409.d



Date : 14-MAR-2012 13:25

Client ID:

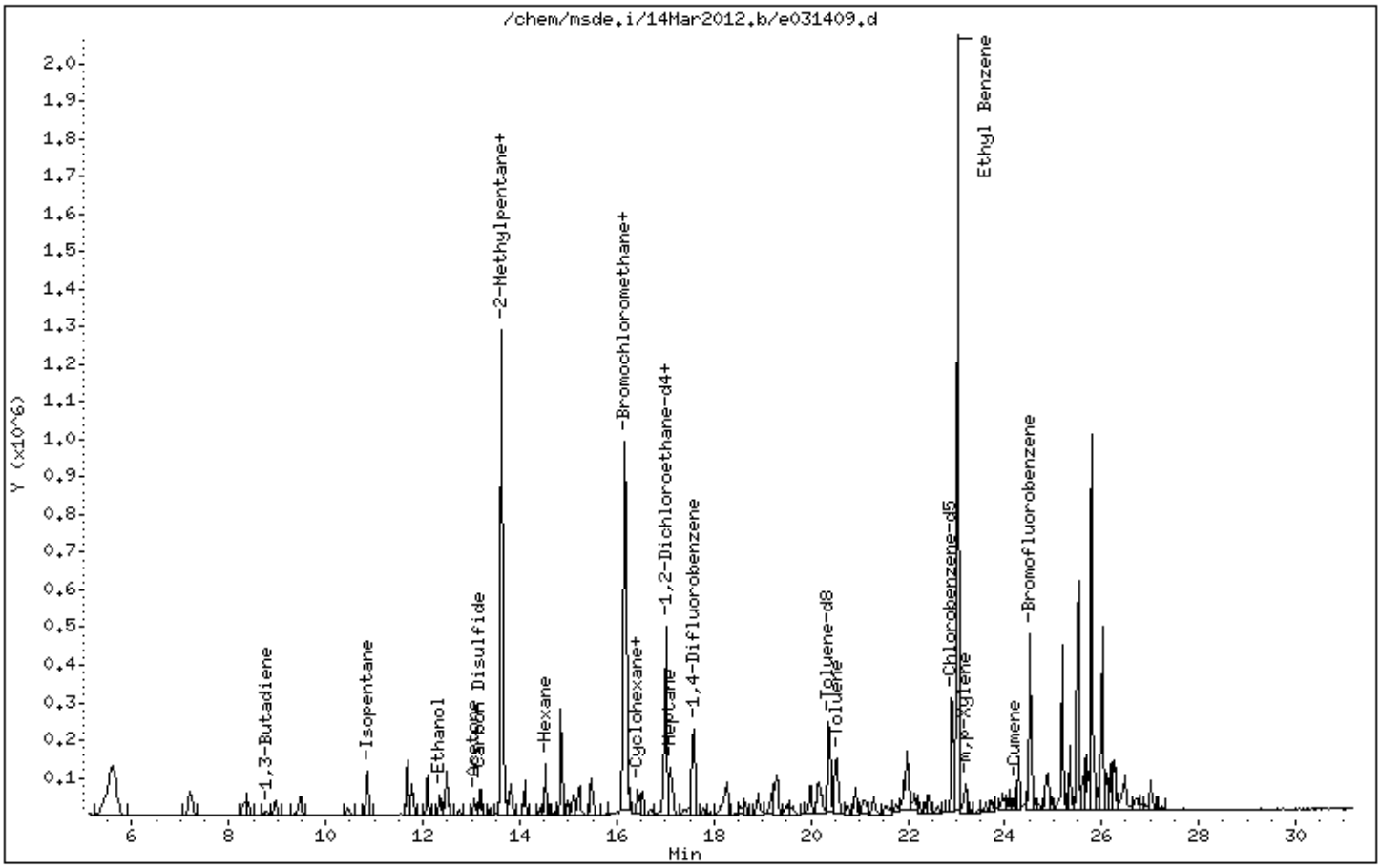
Instrument: msde.i

Sample Info: 12.5mL #94610

Operator: LL

Column phase: RTx-624

Column diameter: 0.32



Data File: /chem/msde.i/14Mar2012.b/e031409.d

Date : 14-MAR-2012 13:25

Client ID:

Instrument: msde.i

Sample Info: 12.5mL #94610

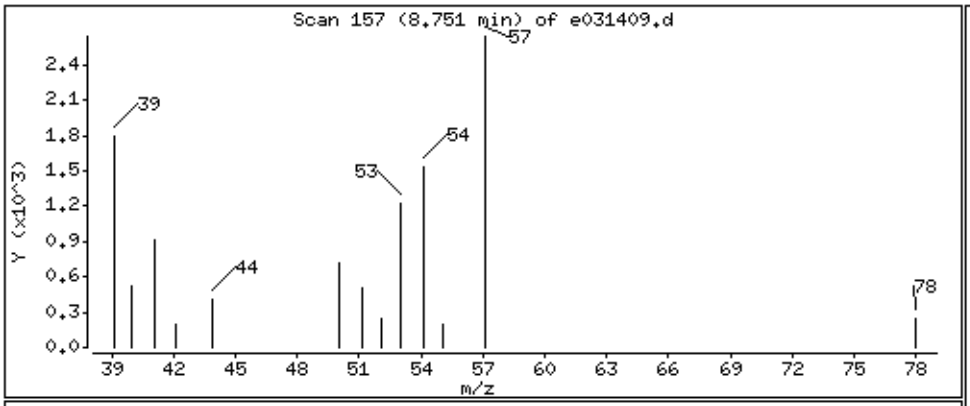
Operator: LL

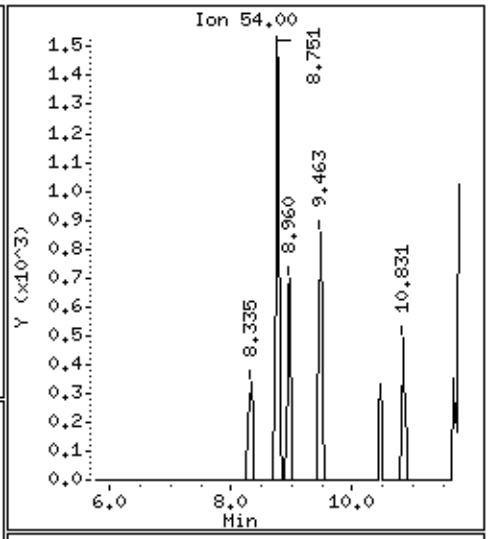
Column phase: RTx-624

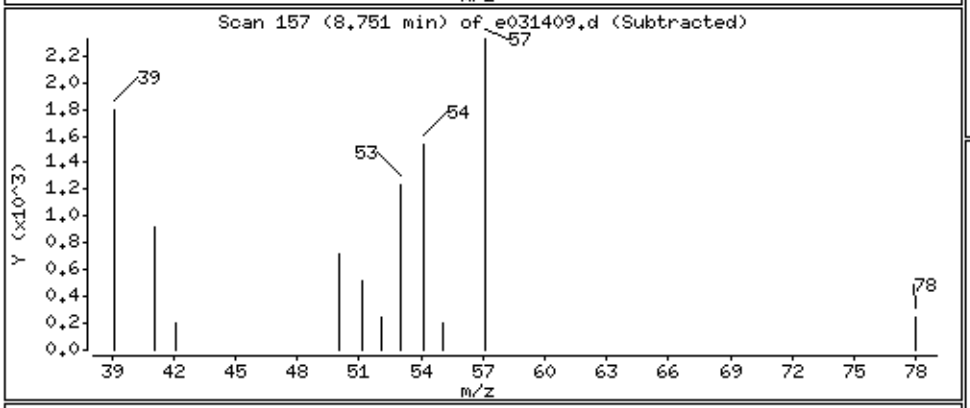
Column diameter: 0.32

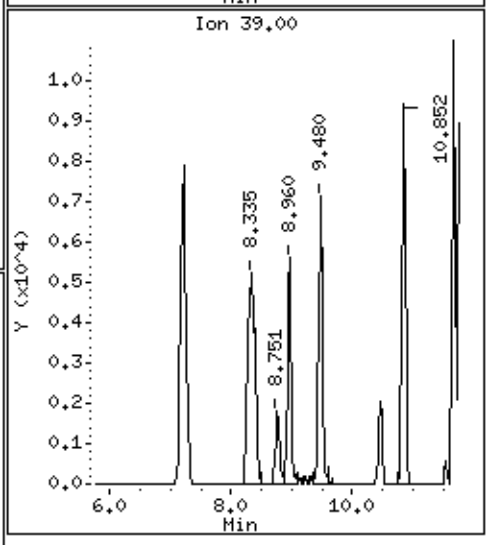
11 1,3-Butadiene

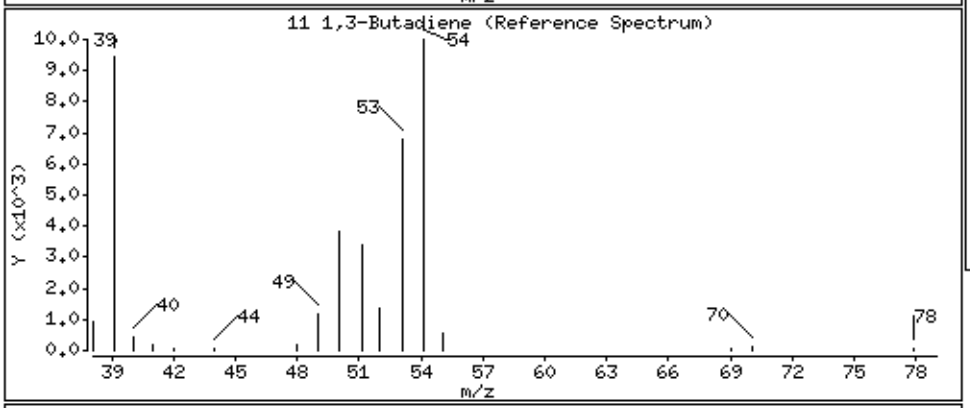
Concentration: 14.670 PPBV

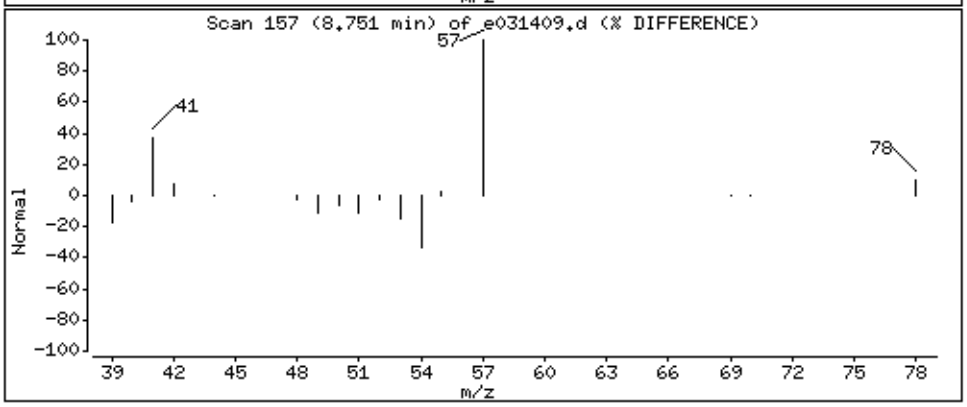


Data File: /chem/msde.i/14Mar2012.b/e031409.d

Date : 14-MAR-2012 13:25

Client ID:

Instrument: msde.i

Sample Info: 12.5mL #94610

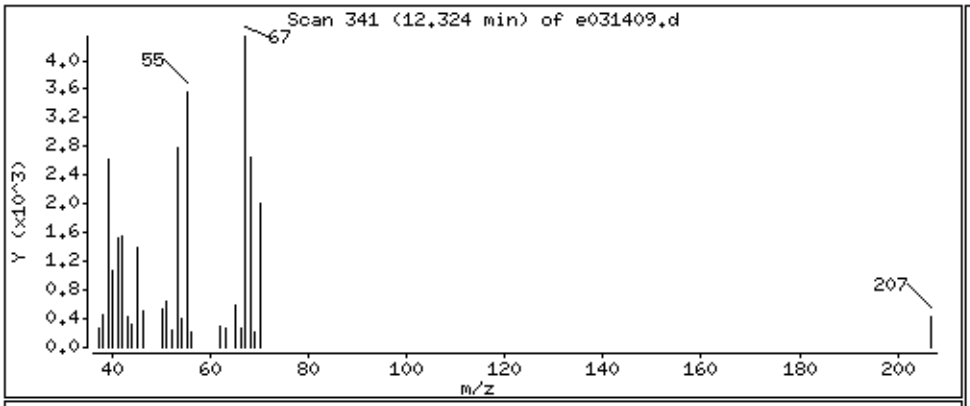
Operator: LL

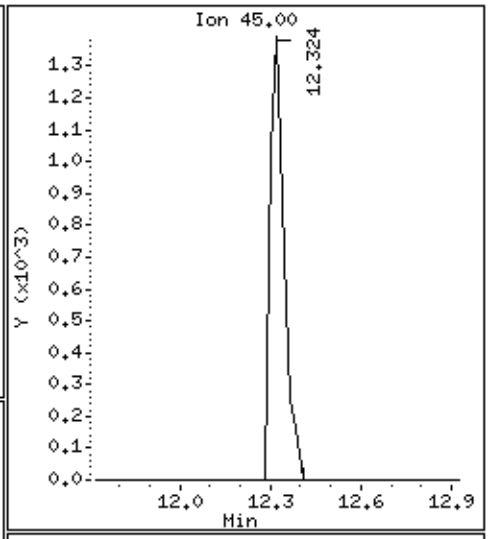
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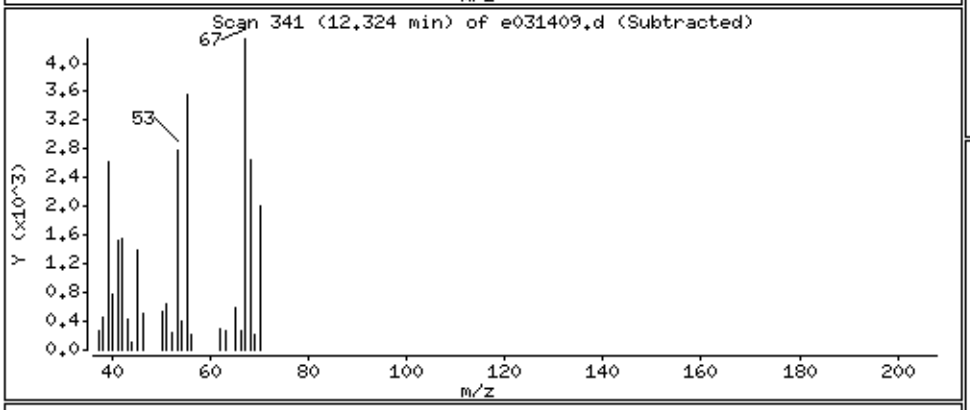
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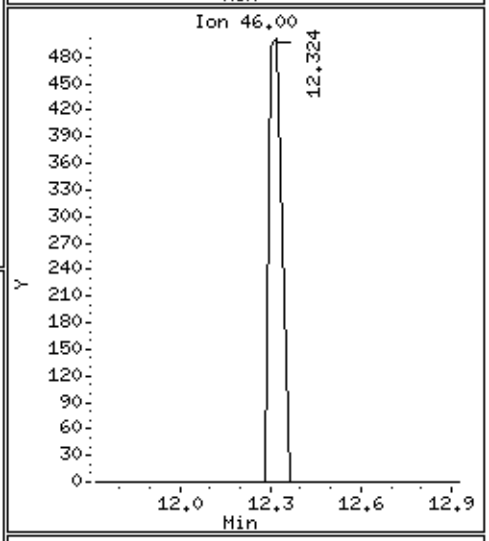
18 Ethanol

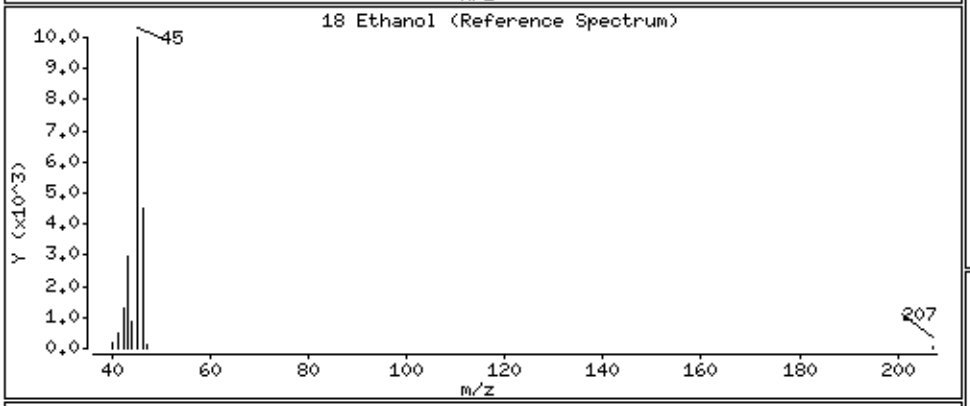
Concentration: 29.268 PPBV

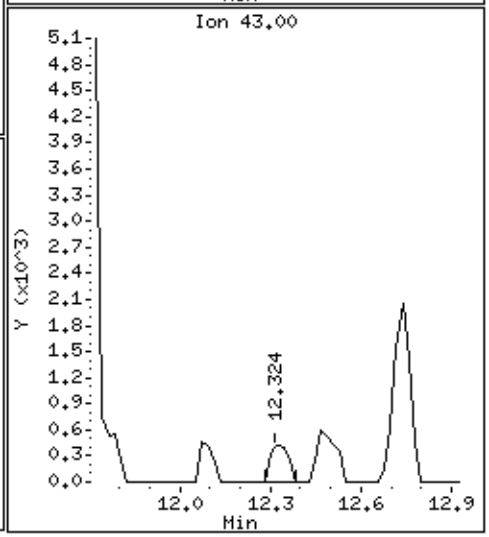


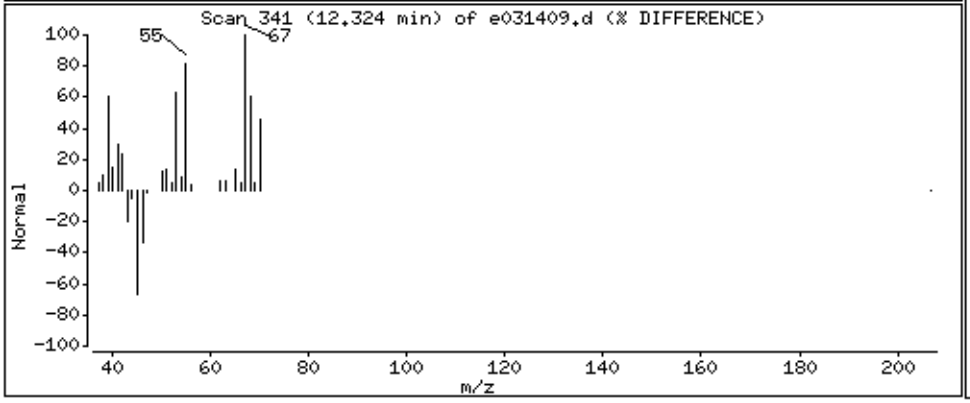



Data File: /chem/msde.i/14Mar2012.b/e031409.d

Date : 14-MAR-2012 13:25

Client ID:

Instrument: msde.i

Sample Info: 12.5mL #94610

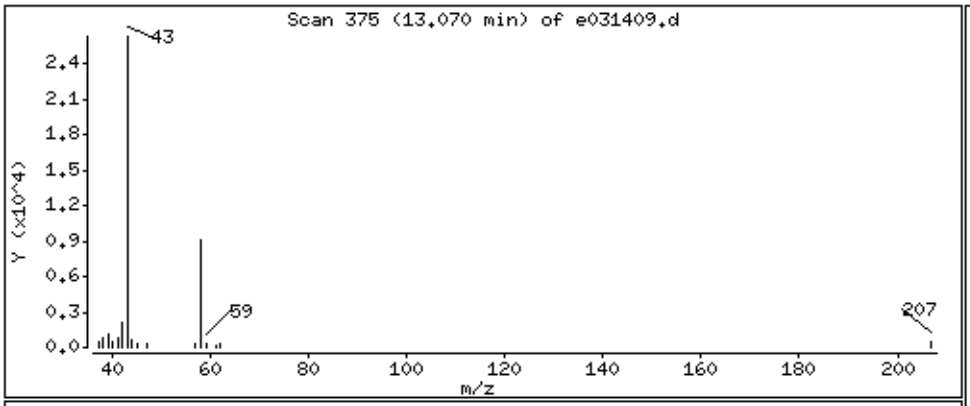
Operator: LL

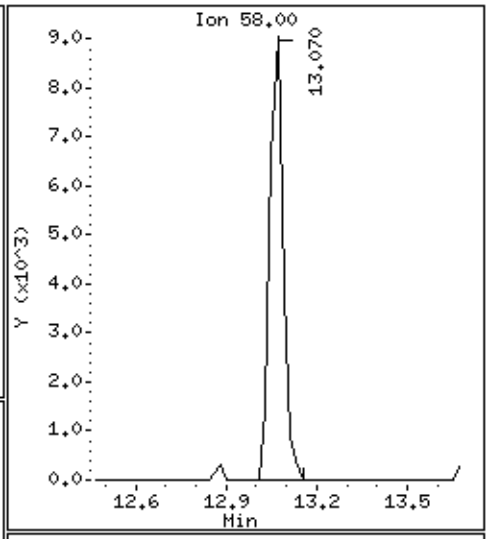
Column phase: RTx-624

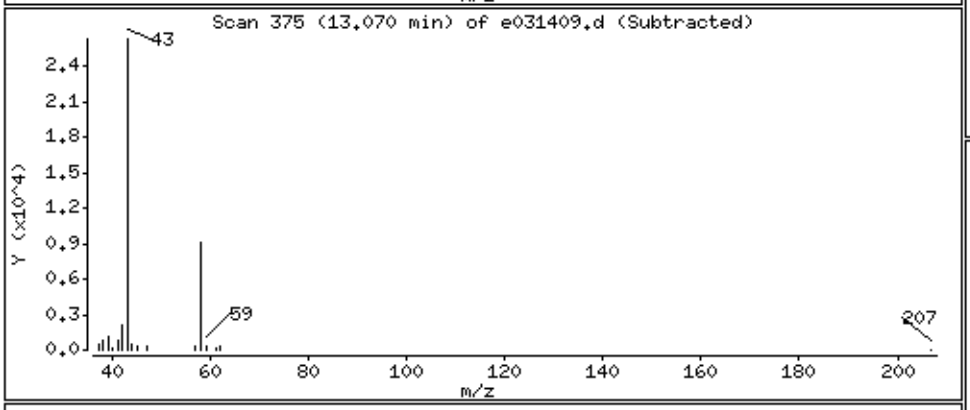
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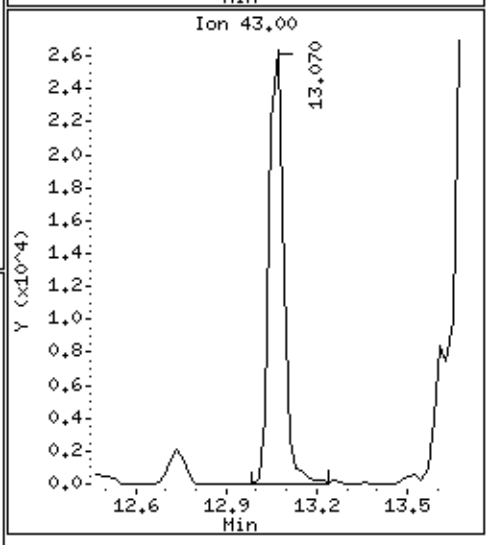
22 Acetone

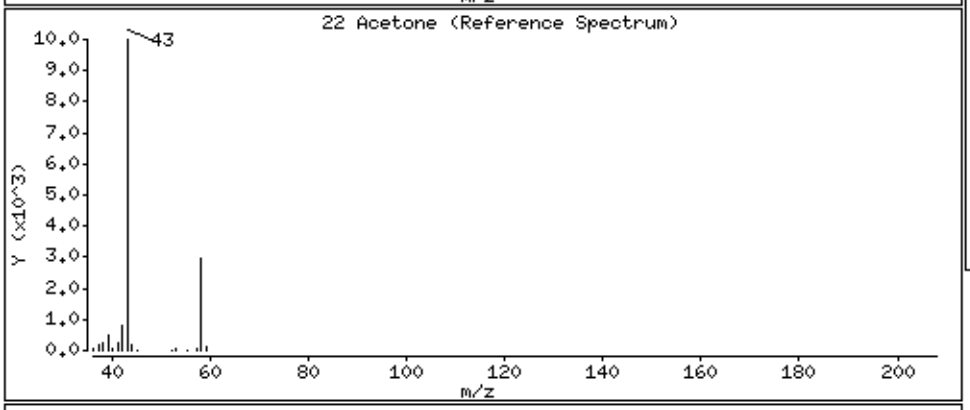
Concentration: 104.54 PPBV

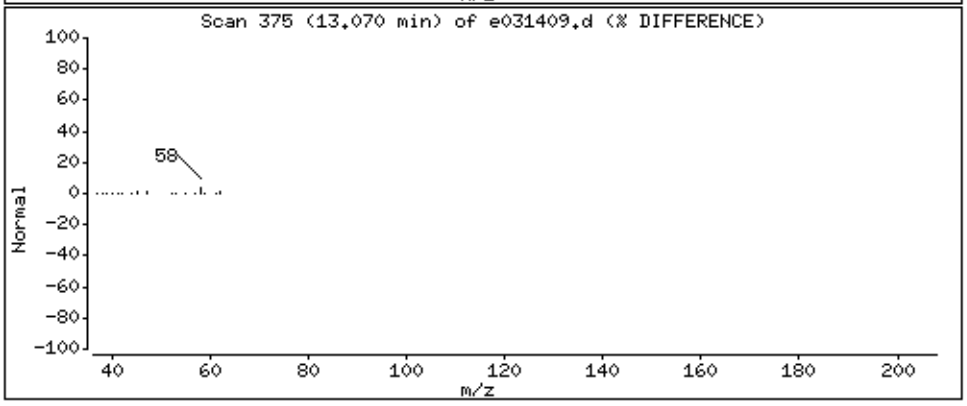


Data File: /chem/msde.i/14Mar2012.b/e031409.d

Date : 14-MAR-2012 13:25

Client ID:

Instrument: msde.i

Sample Info: 12.5mL #94610

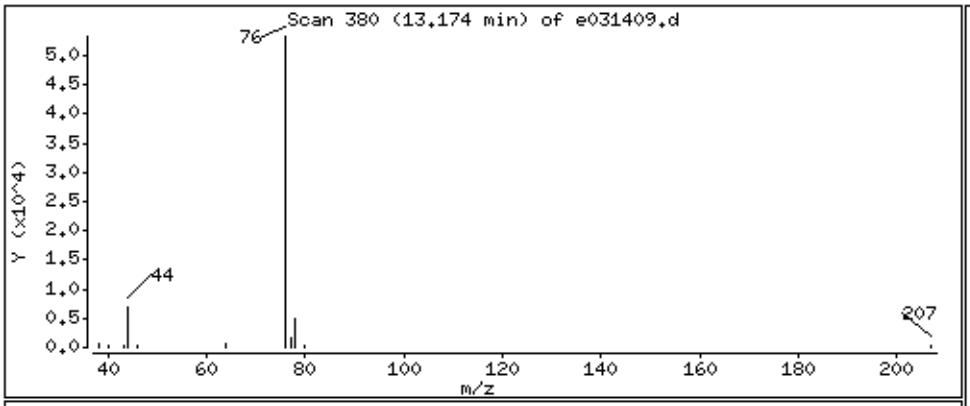
Operator: LL

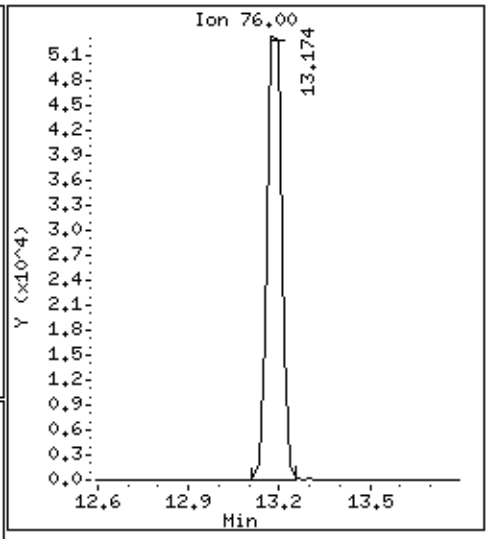
Column phase: RTx-624

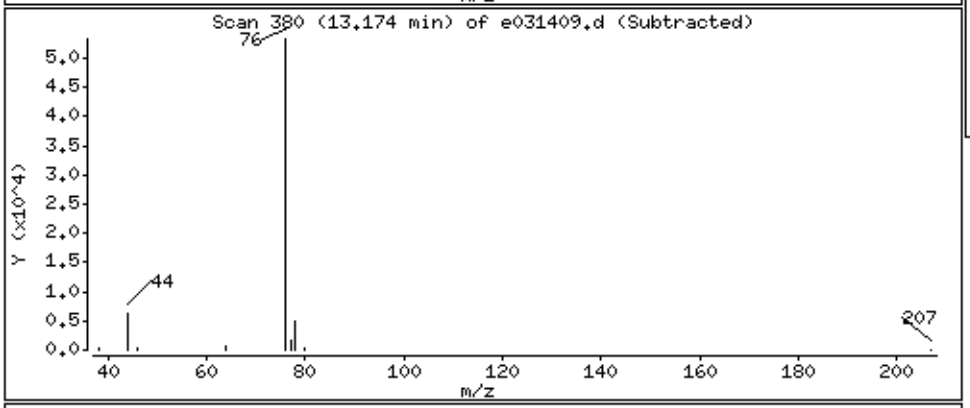
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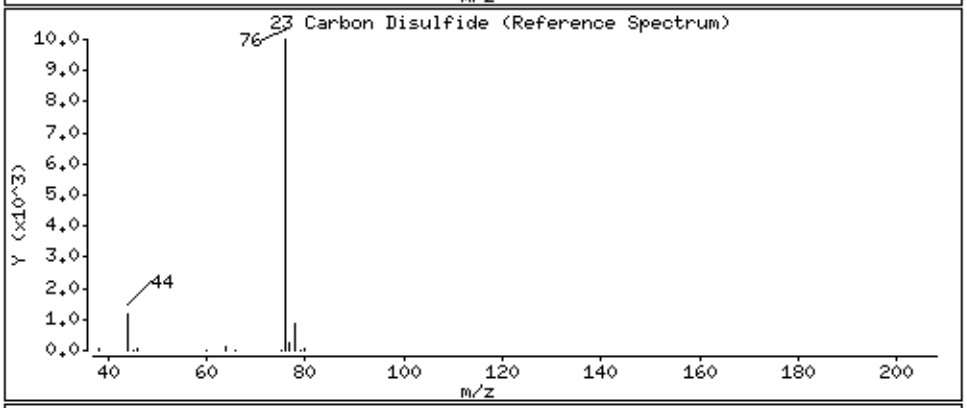
23 Carbon Disulfide

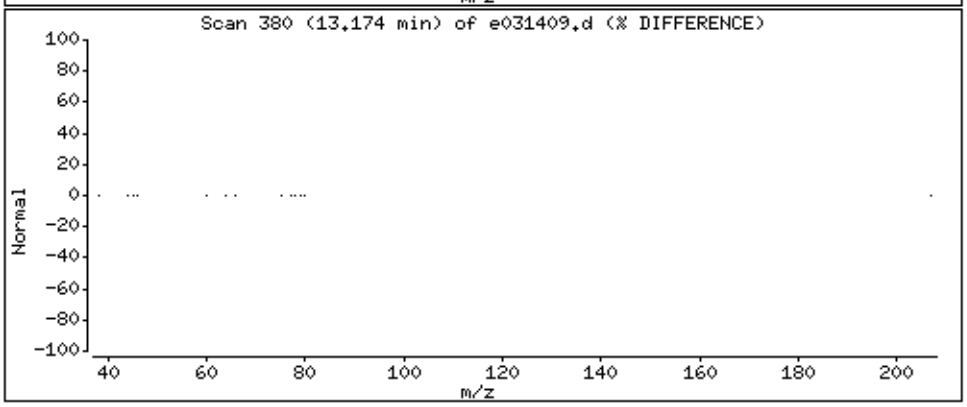
Concentration: 102.28 PPBV



Data File: /chem/msde.i/14Mar2012.b/e031409.d

Date : 14-MAR-2012 13:25

Client ID:

Instrument: msde.i

Sample Info: 12.5mL #94610

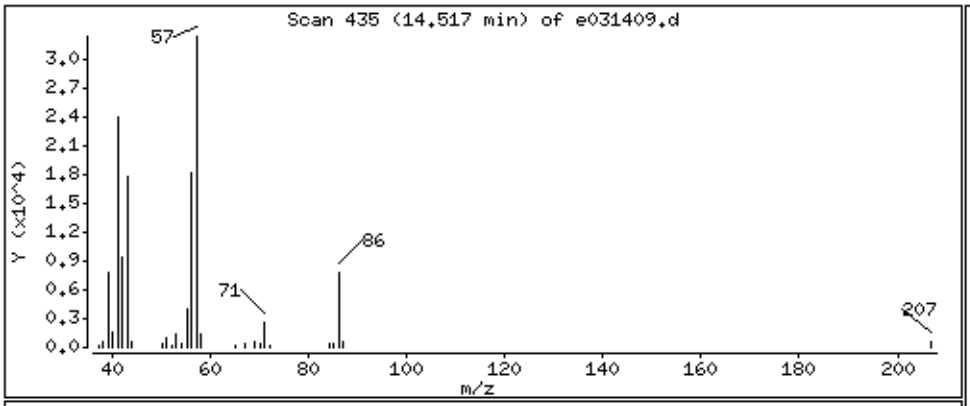
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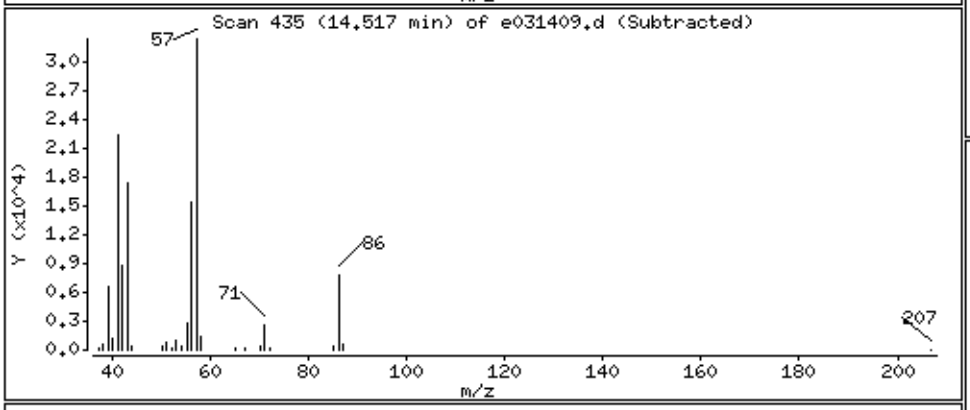
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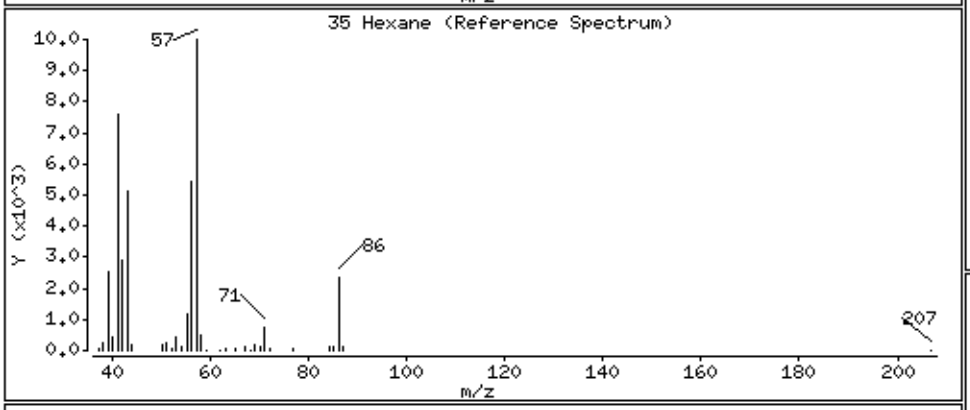
Column diameter: 0.32

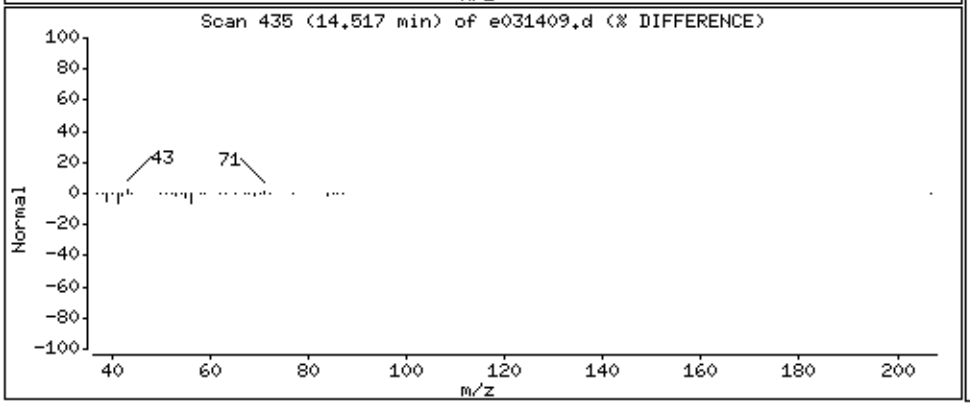
35 Hexane

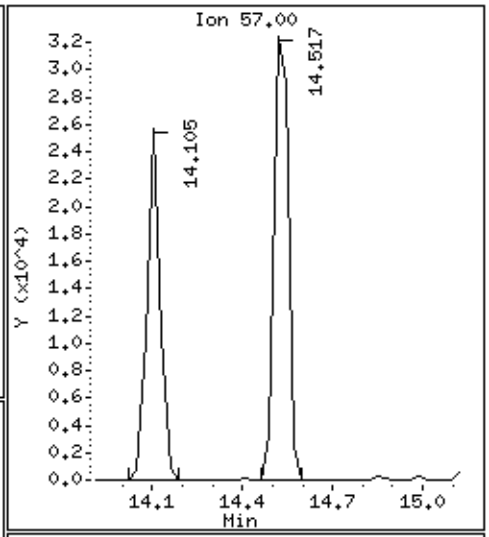
Concentration: 145.10 PPBV

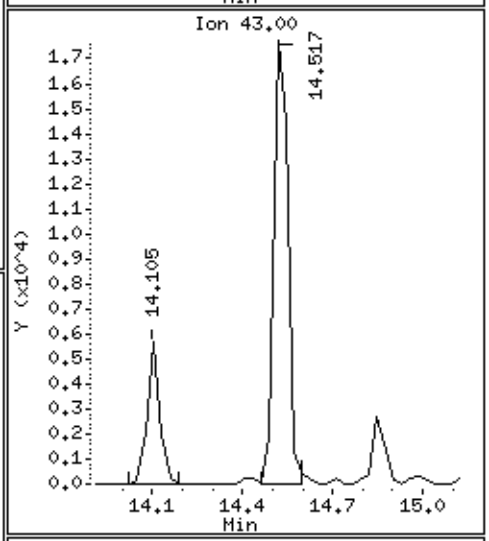


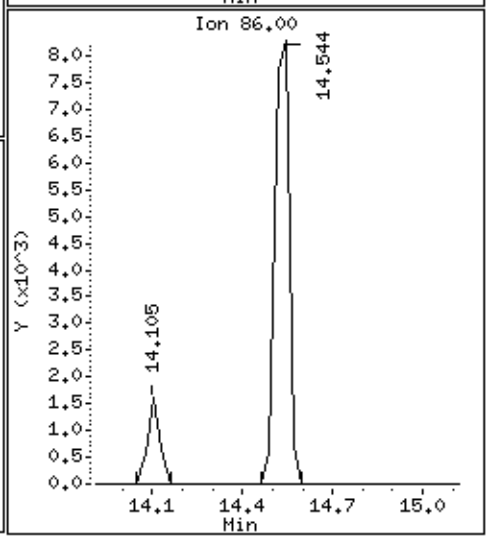



Data File: /chem/msde.i/14Mar2012.b/e031409.d

Date : 14-MAR-2012 13:25

Client ID:

Instrument: msde.i

Sample Info: 12.5mL #94610

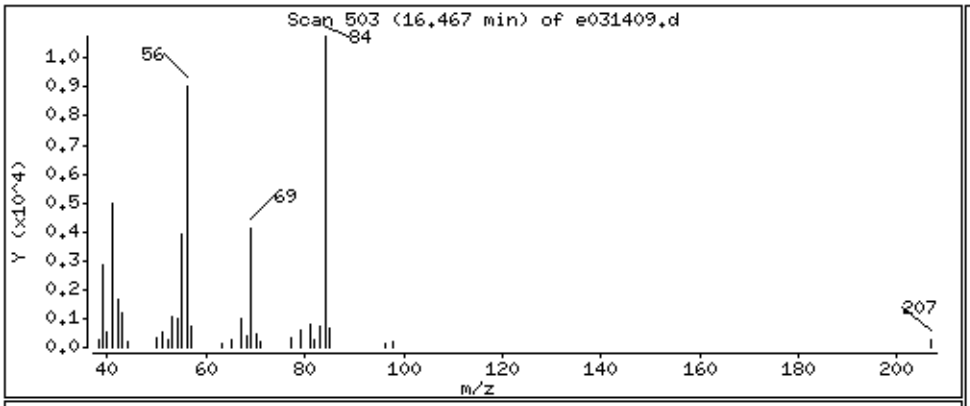
Operator: LL

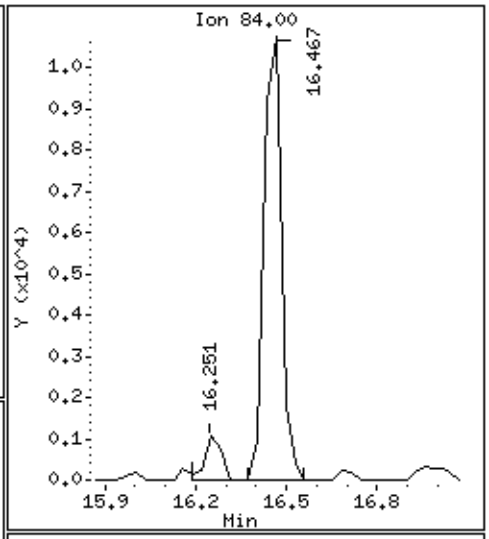
Column phase: RTx-624

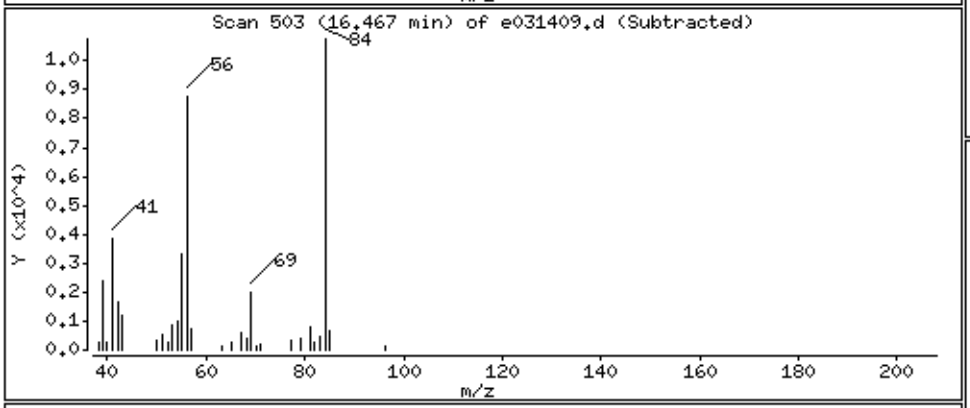
Column diameter: 0.32

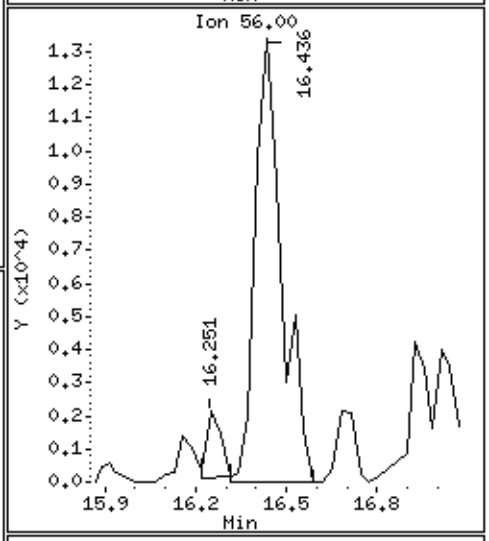
48 Cyclohexane

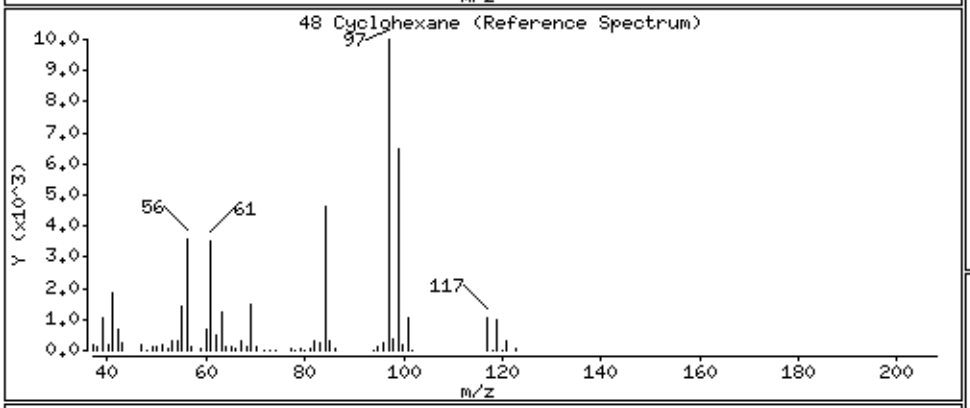
Concentration: 41.590 PPBV

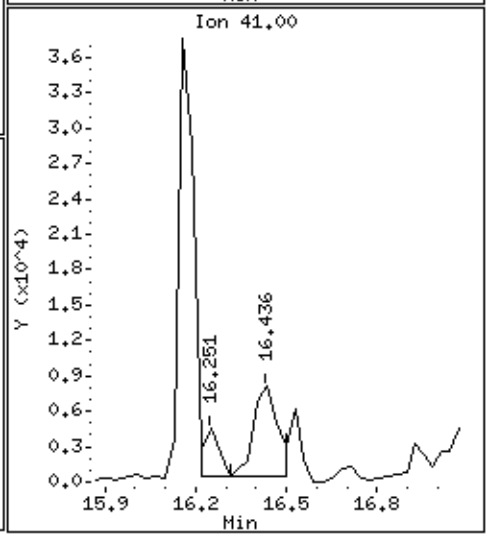


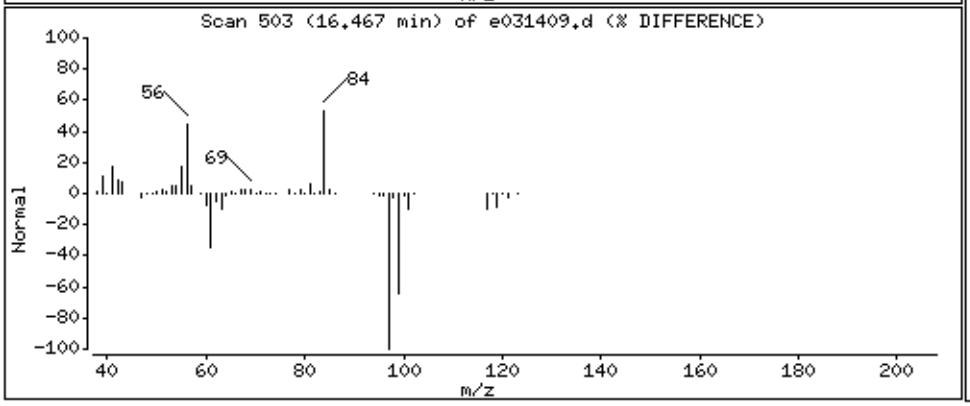



Data File: /chem/msde.i/14Mar2012.b/e031409.d

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Client ID:

Instrument: msde.i

Sample Info: 12.5mL #94610

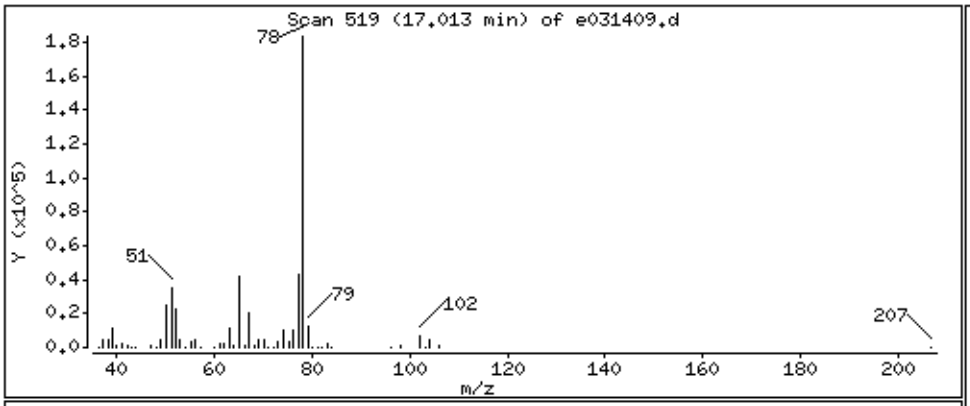
Operator: LL

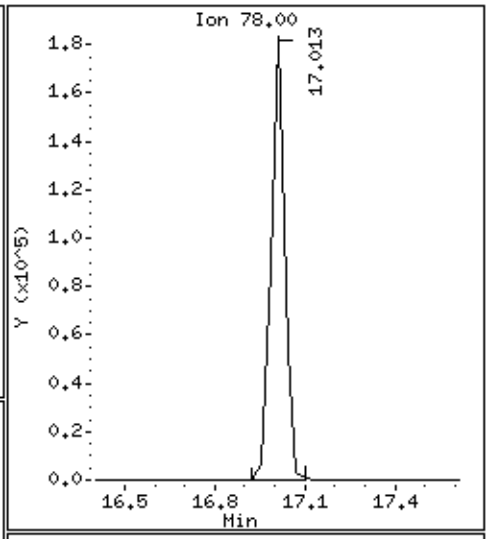
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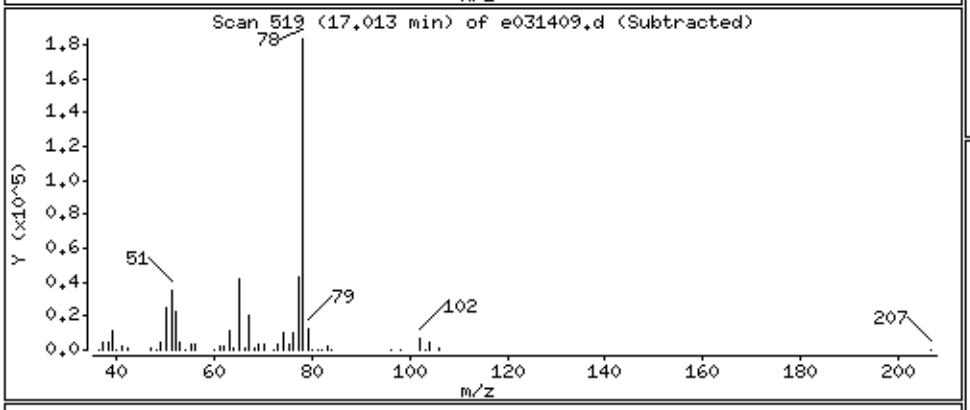
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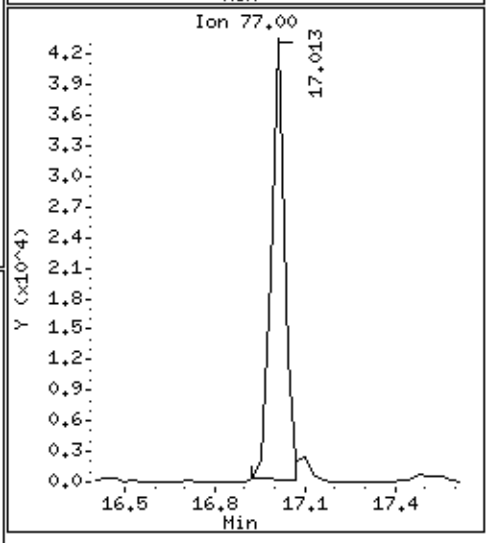
53 Benzene

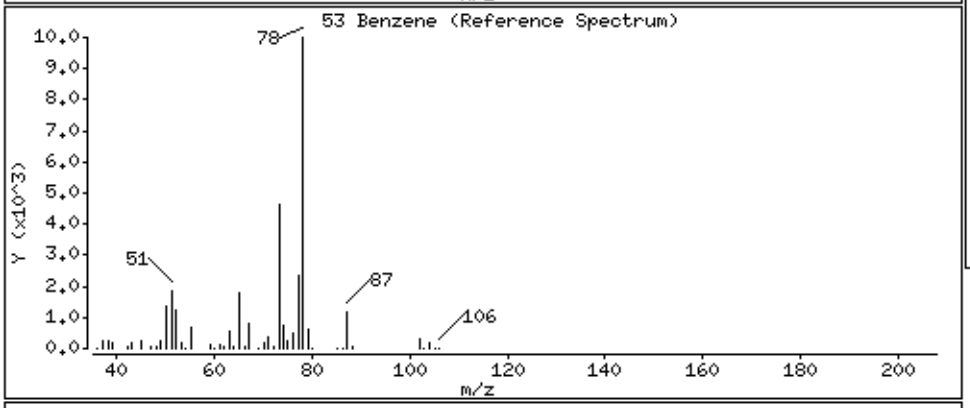
Concentration: 232.21 PPBV

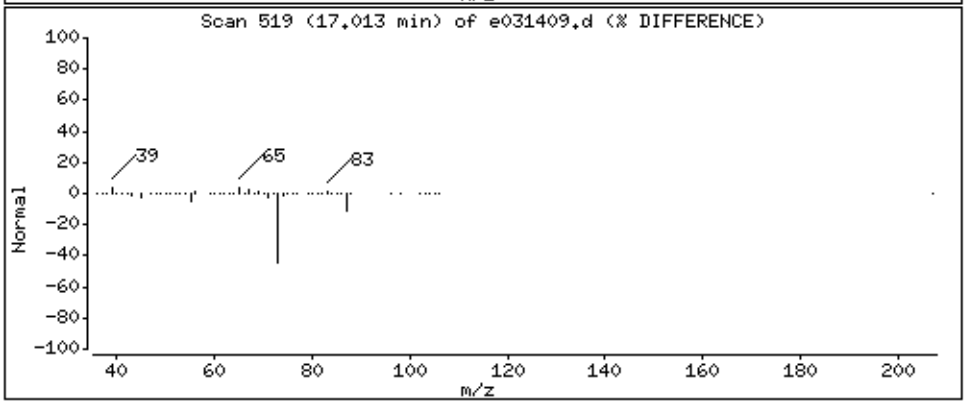


Data File: /chem/msde.i/14Mar2012.b/e031409.d

Date : 14-MAR-2012 13:25

Client ID:

Instrument: msde.i

Sample Info: 12.5mL #94610

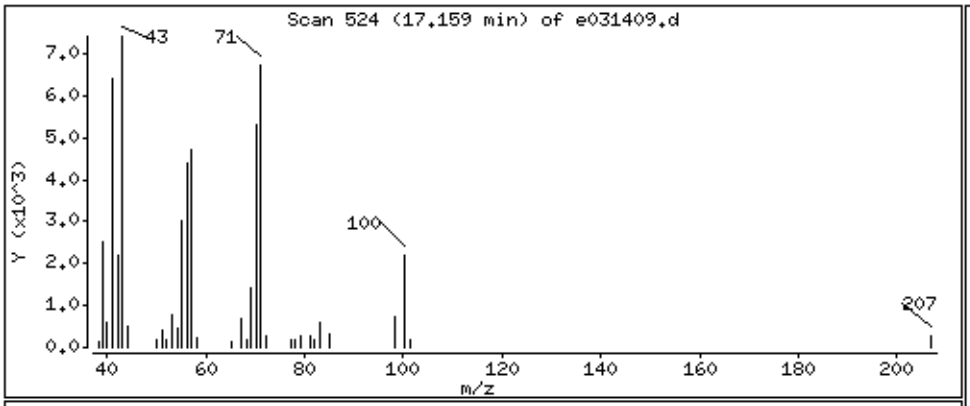
Operator: LL

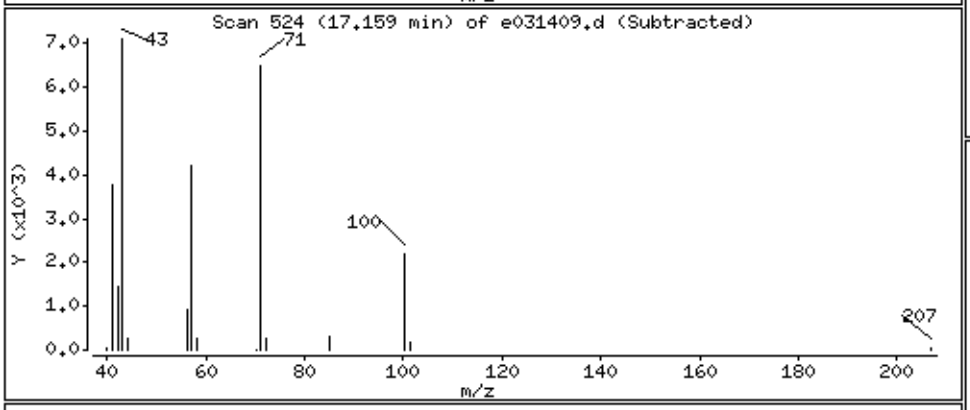
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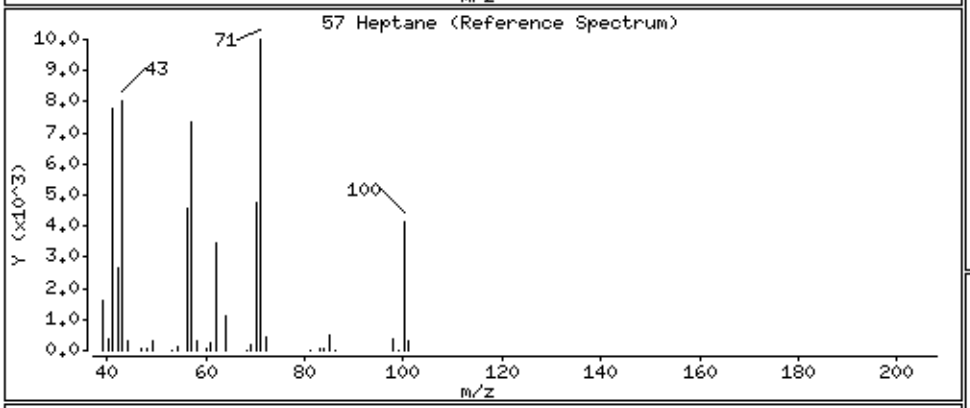
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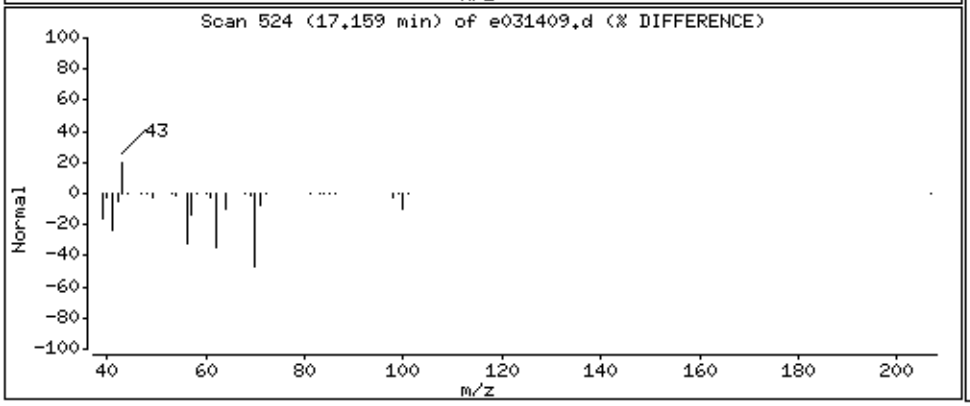
57 Heptane

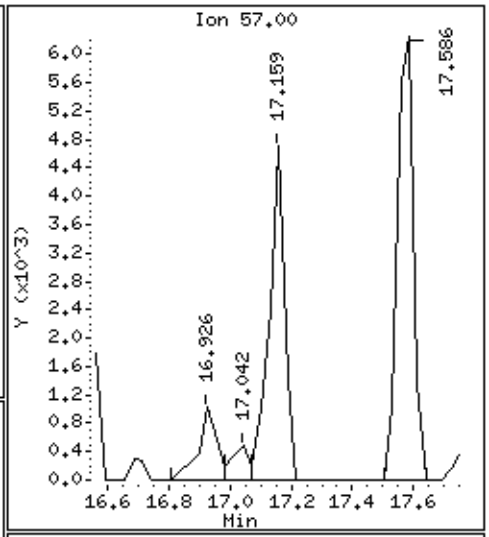
Concentration: 32.845 PPBV

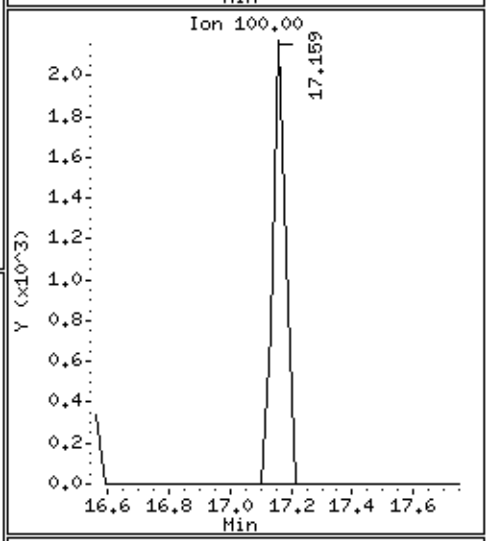


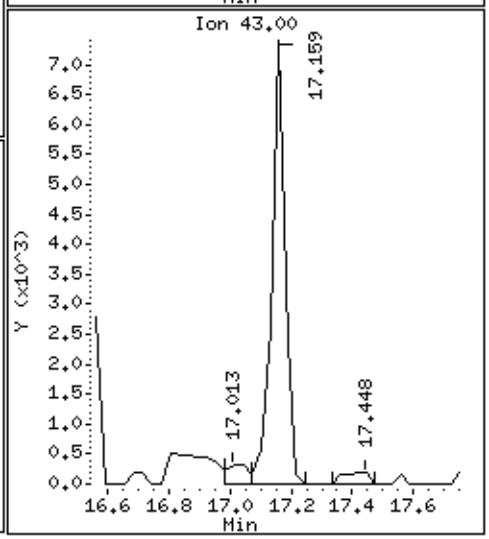



Data File: /chem/msde.i/14Mar2012.b/e031409.d

Date : 14-MAR-2012 13:25

Client ID:

Instrument: msde.i

Sample Info: 12.5mL #94610

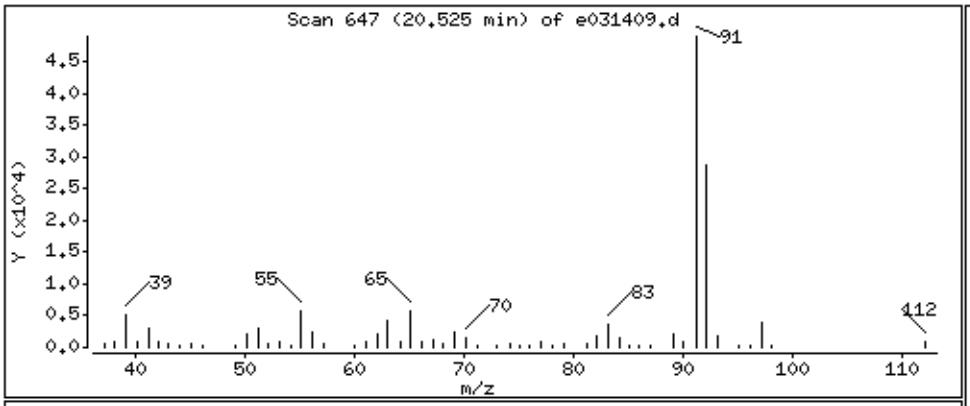
Operator: LL

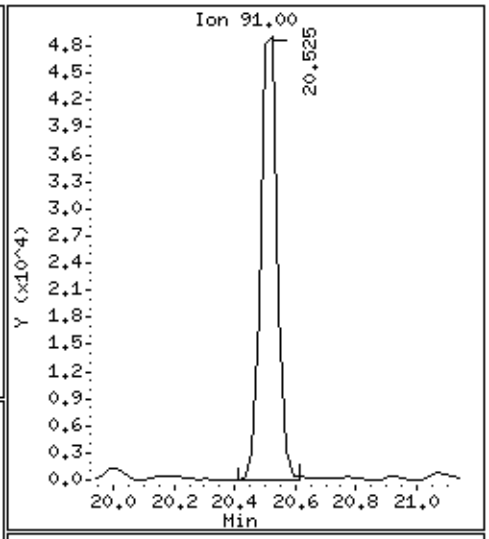
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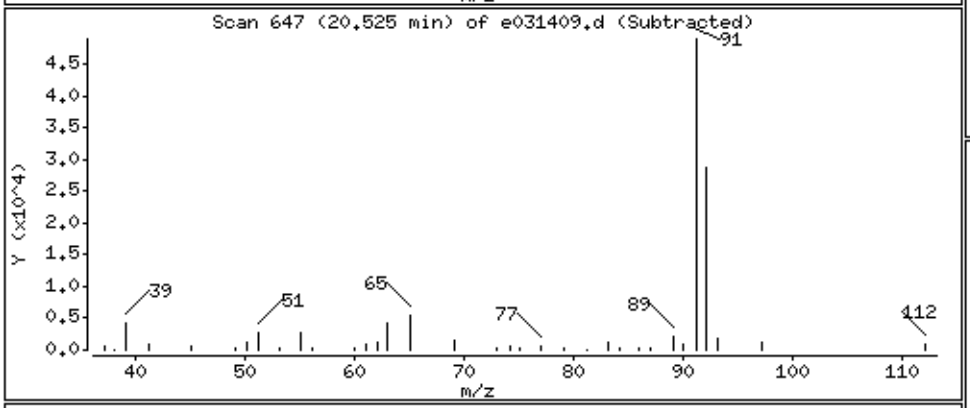
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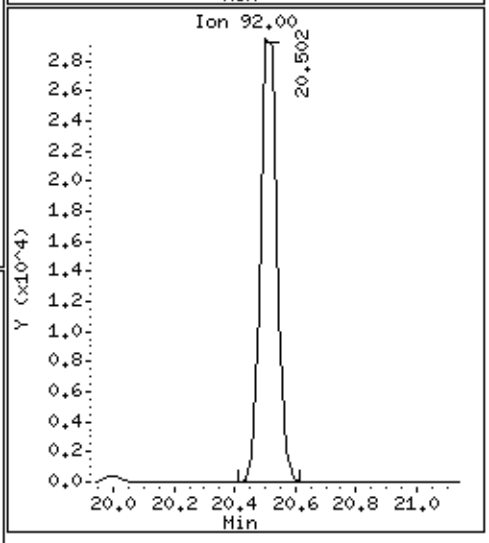
68 Toluene

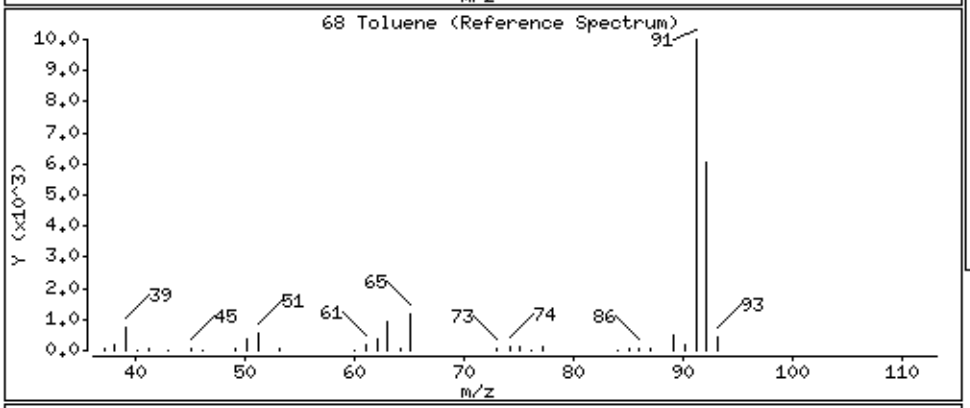
Concentration: 63.664 PPBV

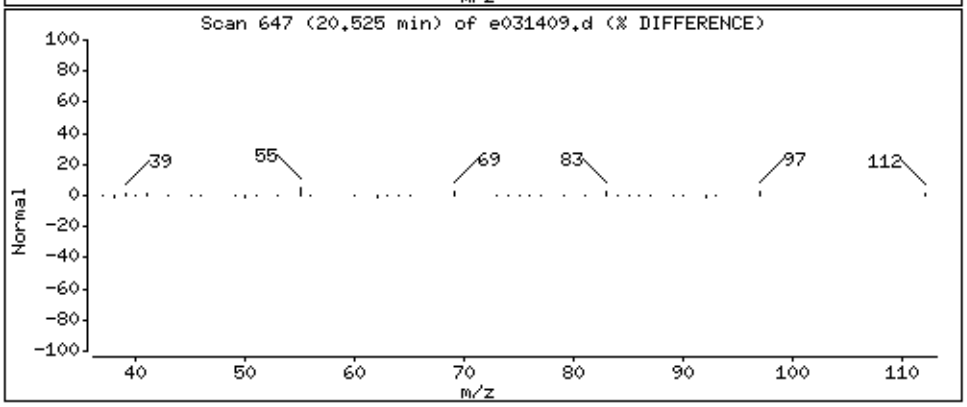


Data File: /chem/msde.i/14Mar2012.b/e031409.d

Date : 14-MAR-2012 13:25

Client ID:

Instrument: msde.i

Sample Info: 12.5mL #94610

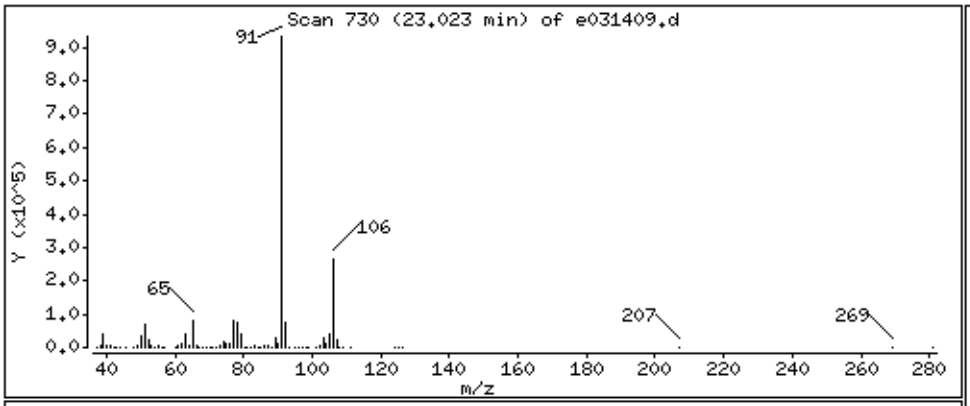
Operator: LL

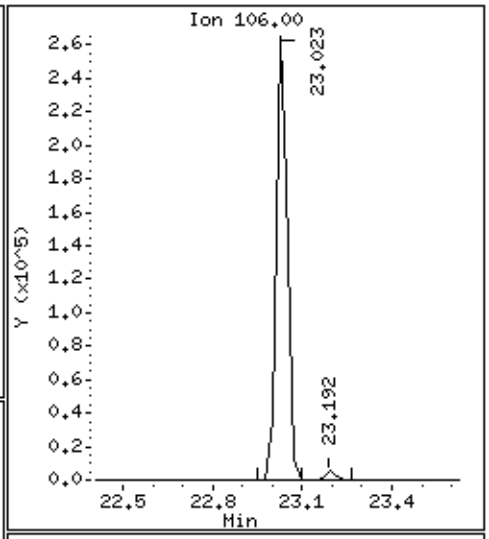
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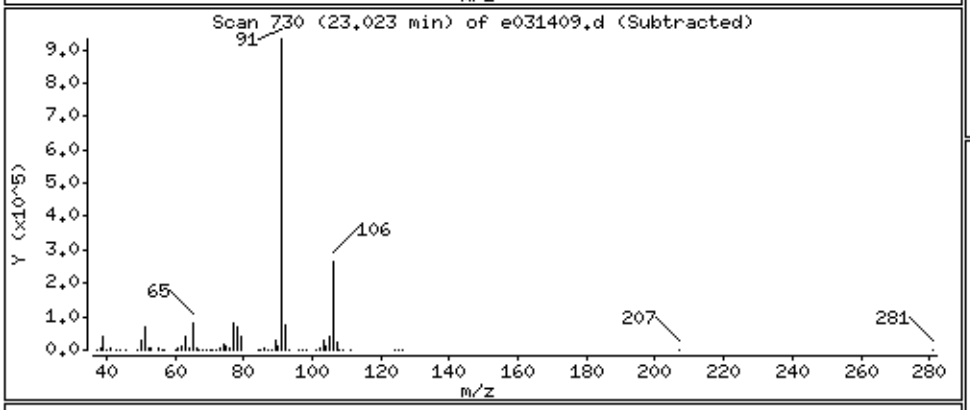
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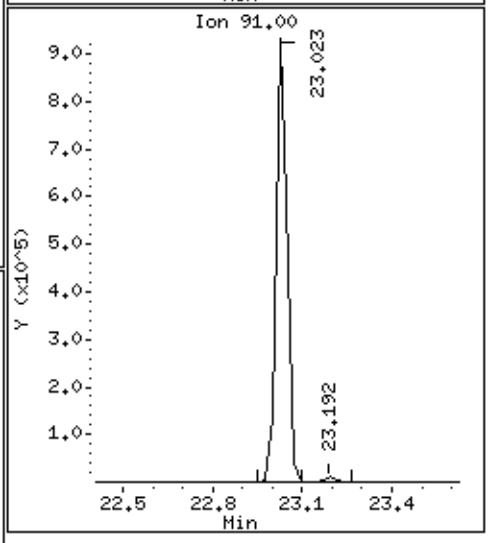
77 Ethyl Benzene

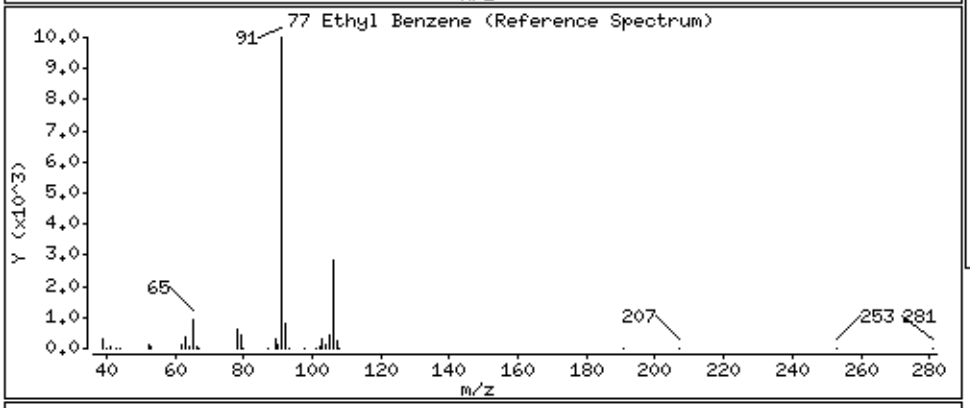
Concentration: 607.46 PPBV

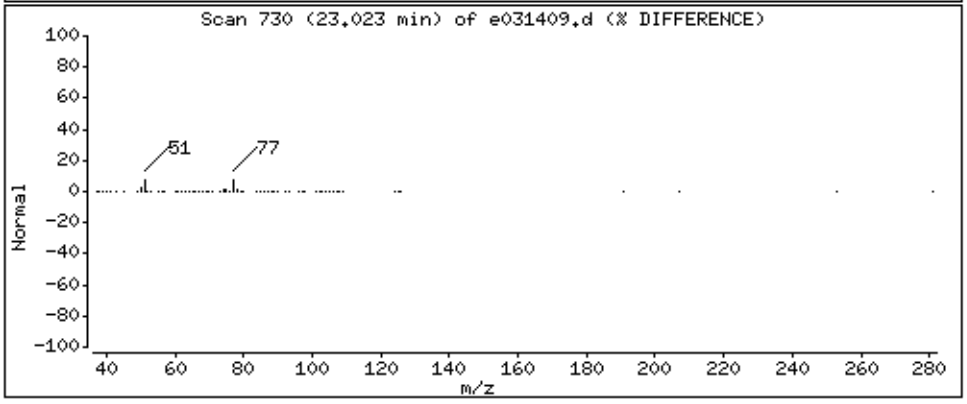


Data File: /chem/msde.i/14Mar2012.b/e031409.d

Date : 14-MAR-2012 13:25

Client ID:

Instrument: msde.i

Sample Info: 12.5mL #94610

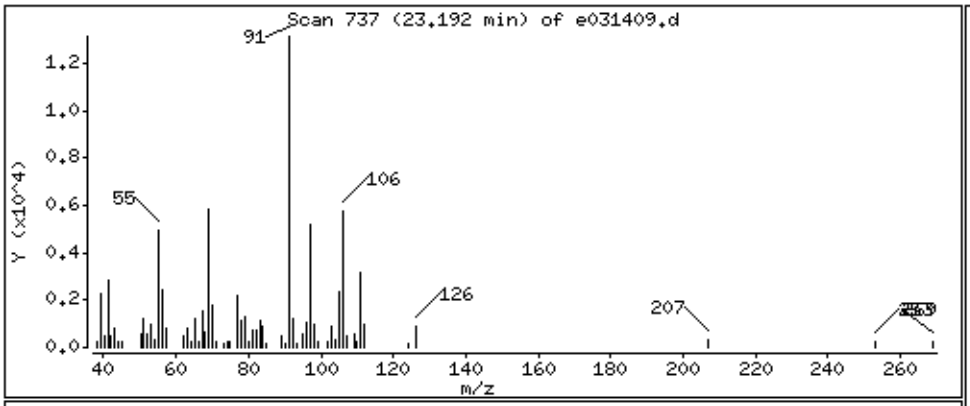
Operator: LL

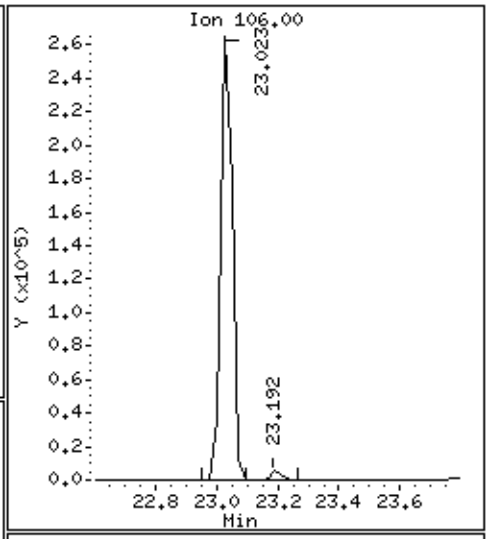
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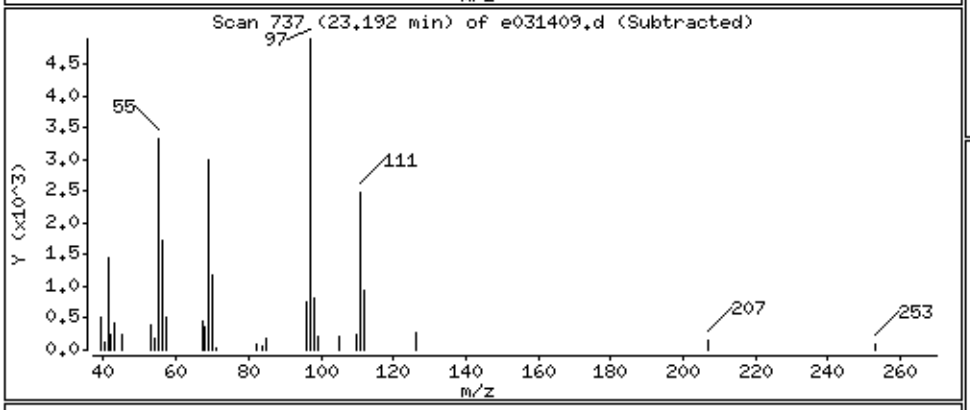
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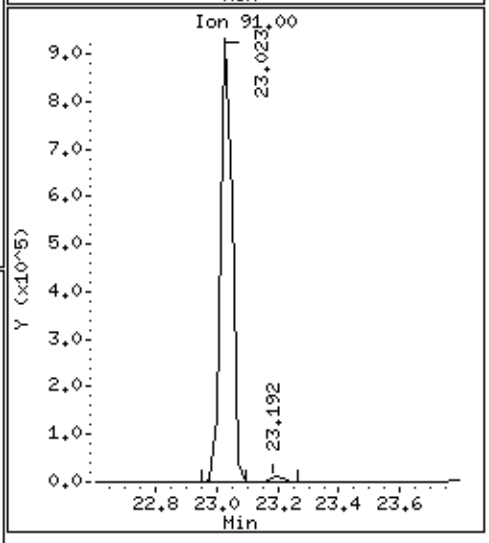
80 m,p-Xylene

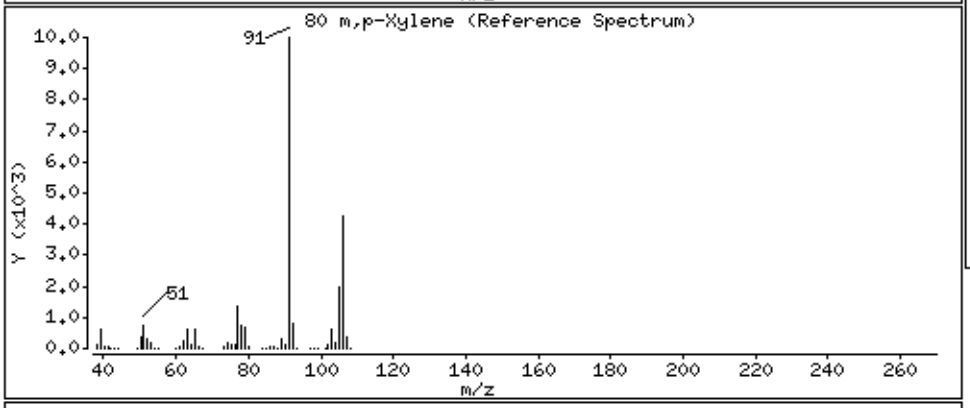
Concentration: 10.800 PPBV

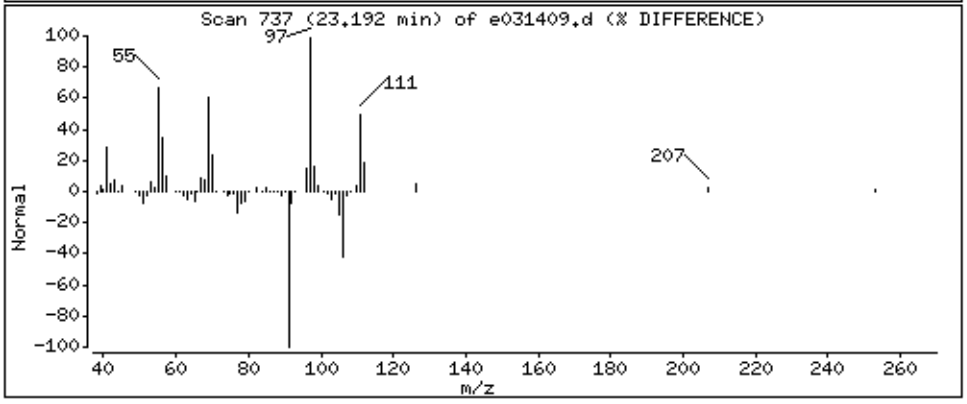


Data File: /chem/msde.i/14Mar2012.b/e031409.d

Date : 14-MAR-2012 13:25

Client ID:

Instrument: msde.i

Sample Info: 12.5mL #94610

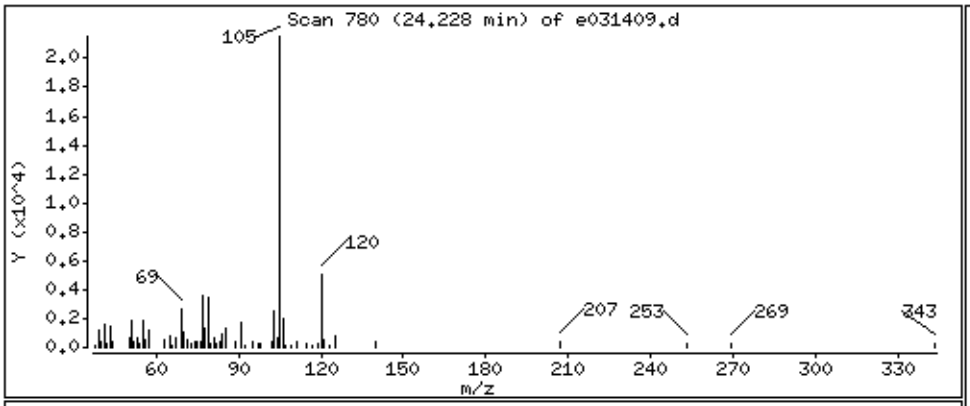
Operator: LL

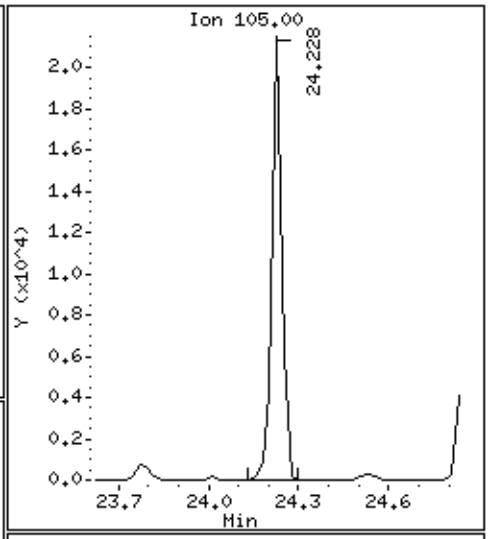
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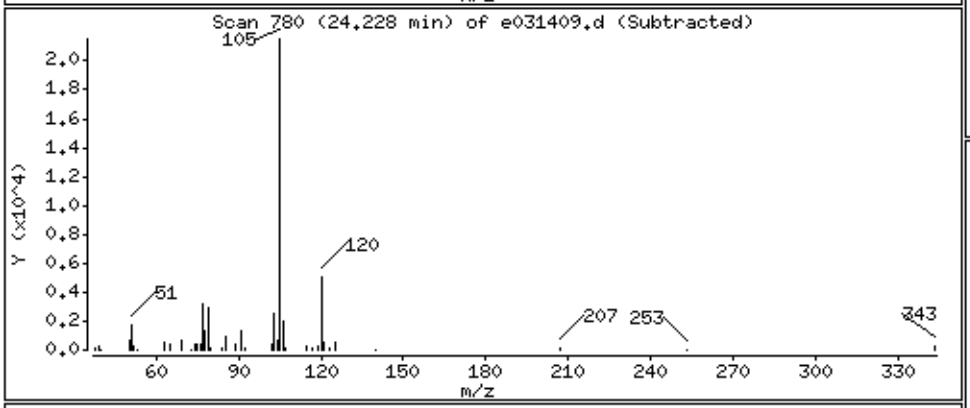
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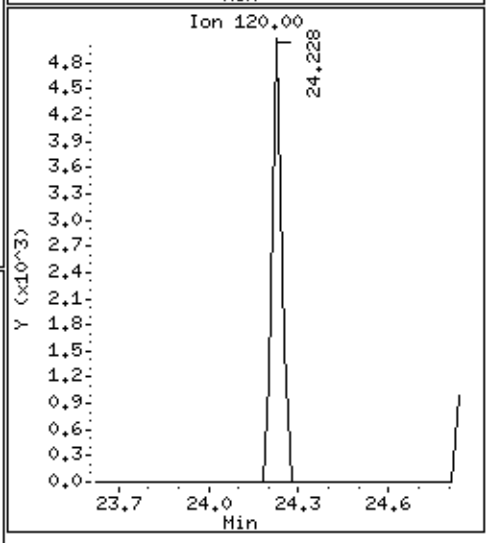
85 Cumene

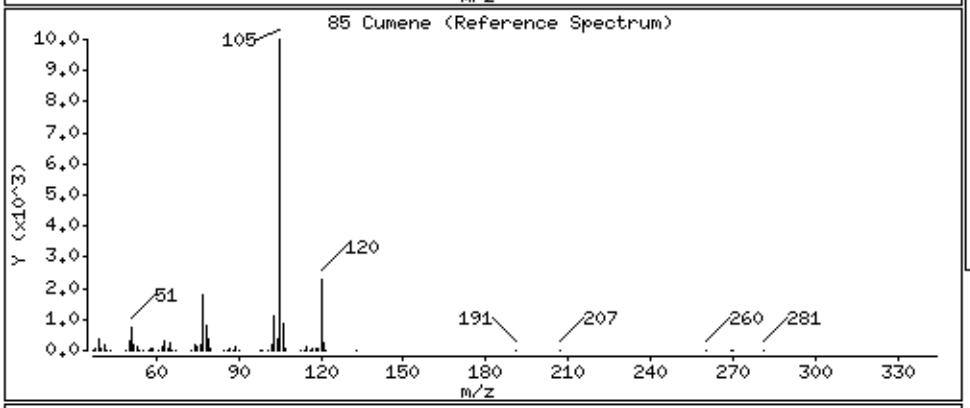
Concentration: 10.950 PPBV

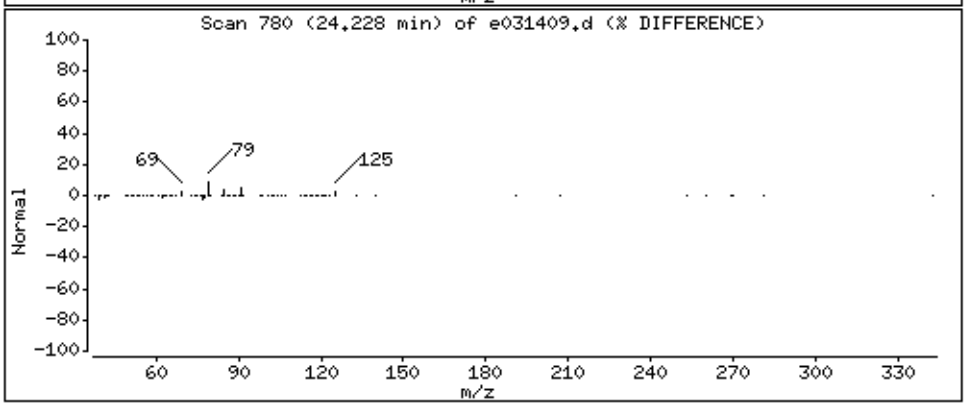


Data File: /chem/msde.i/14Mar2012.b/e031409.d

Date : 14-MAR-2012 13:25

Client ID:

Instrument: msde.i

Sample Info: 12.5mL #94610

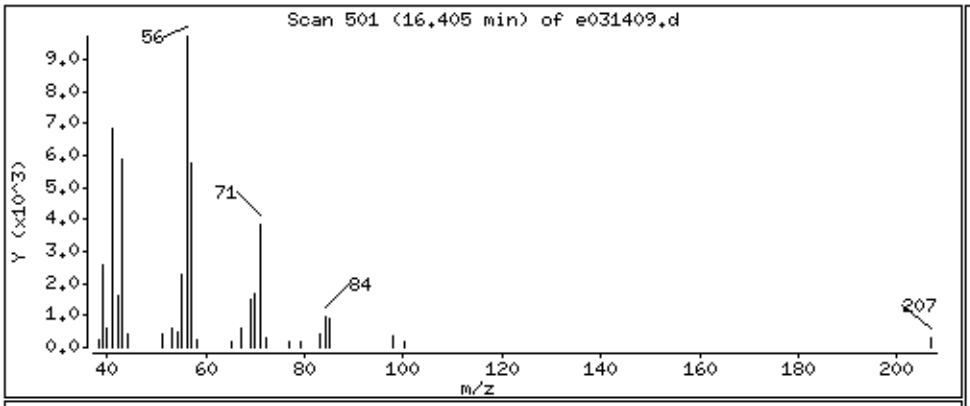
Operator: LL

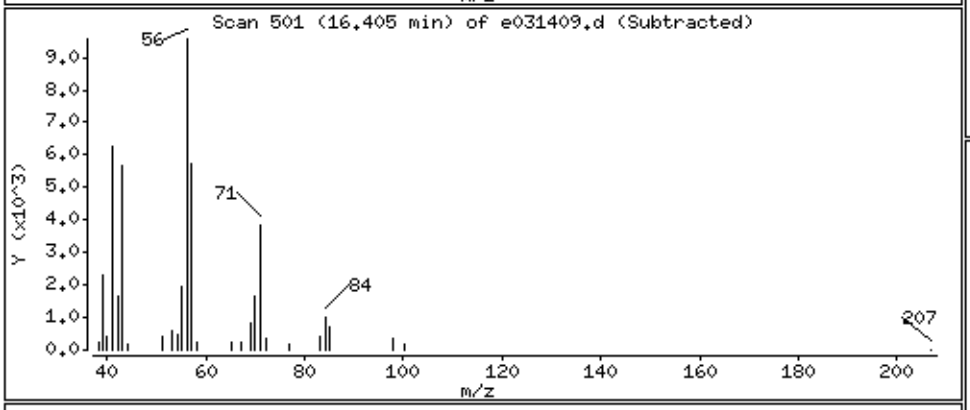
Column phase: RTx-624

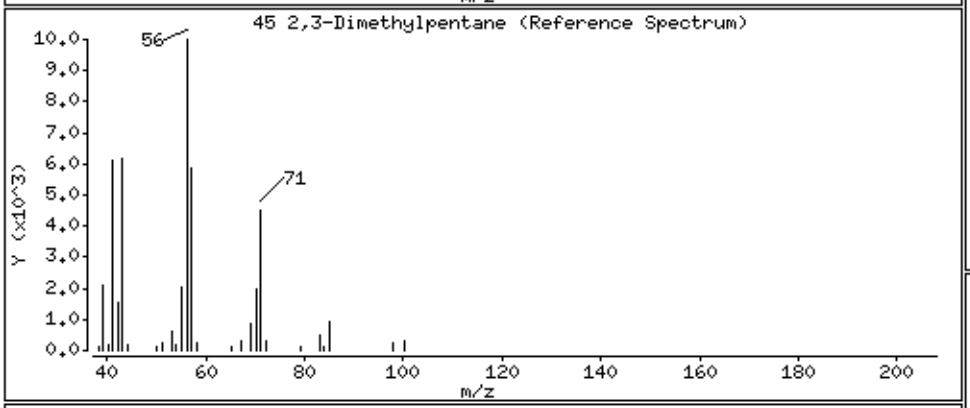
Column diameter: 0.32

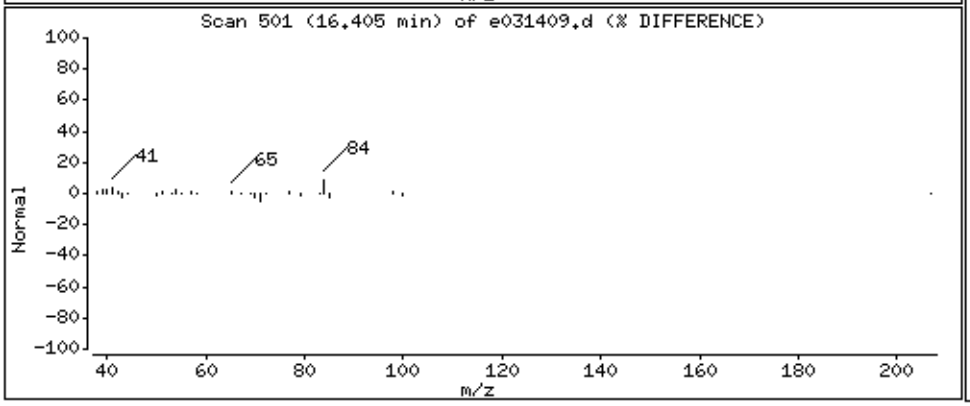
45 2,3-Dimethylpentane

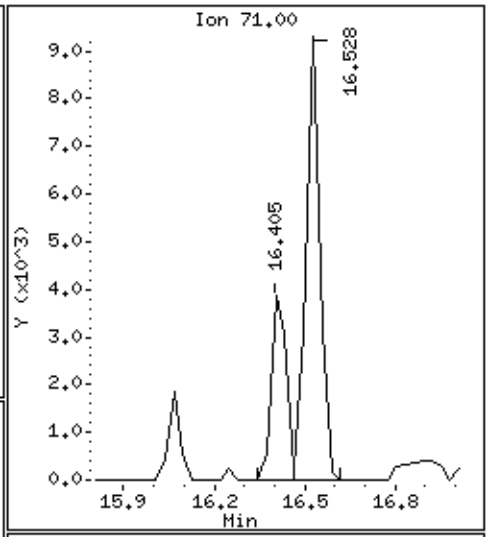
Concentration: 31.652 PPBV

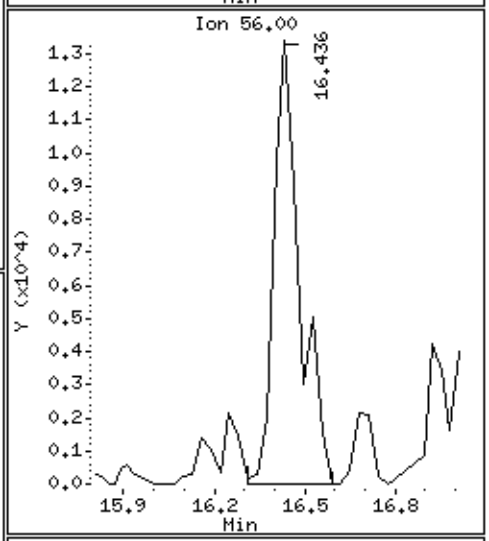


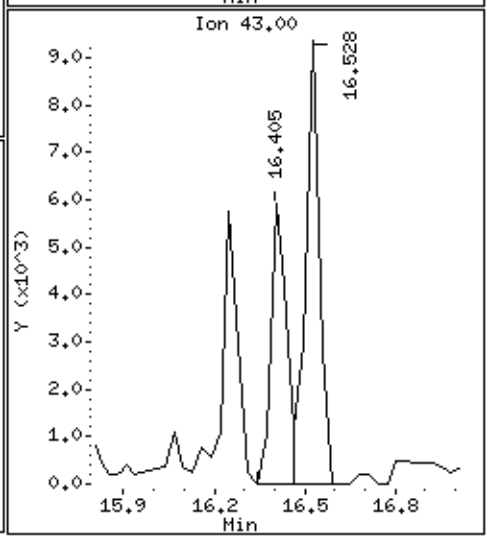



Data File: /chem/msde.i/14Mar2012.b/e031409.d

Date : 14-MAR-2012 13:25

Client ID:

Instrument: msde.i

Sample Info: 12.5mL #94610

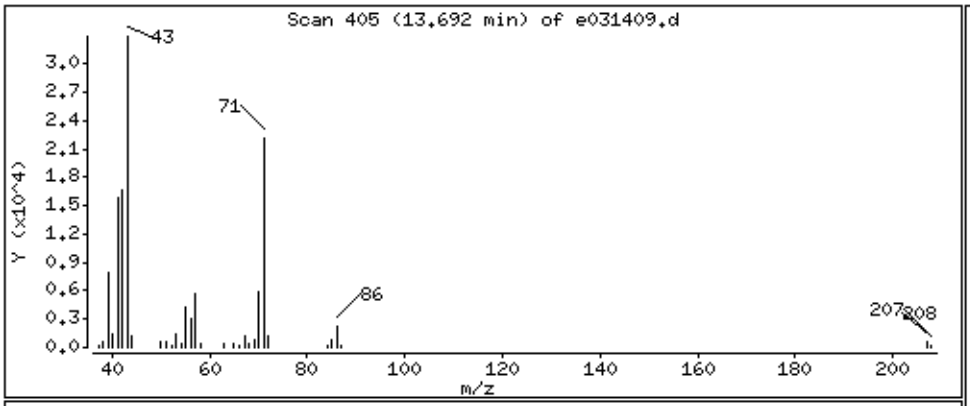
Operator: LL

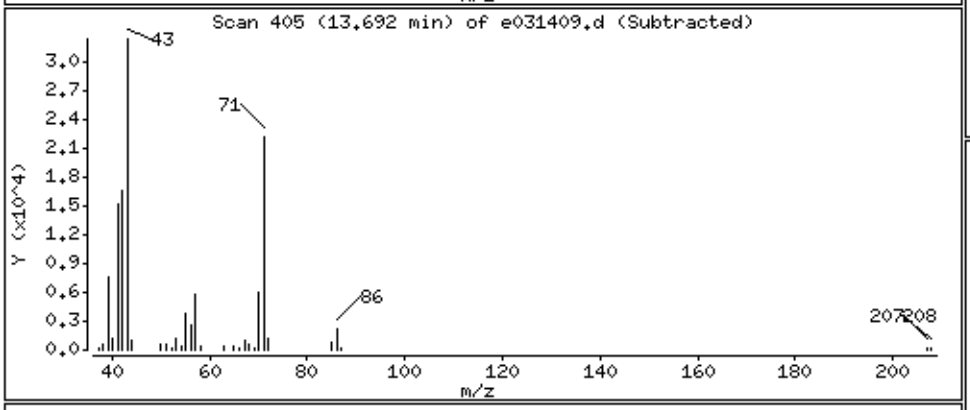
Column phase: RTx-624

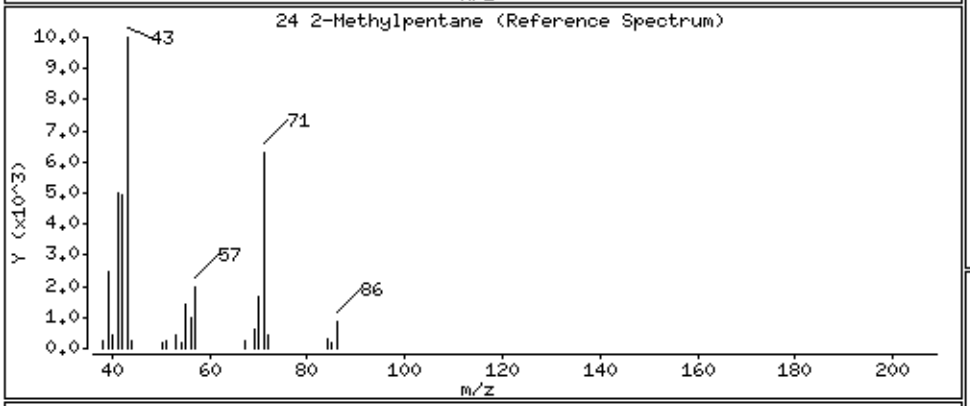
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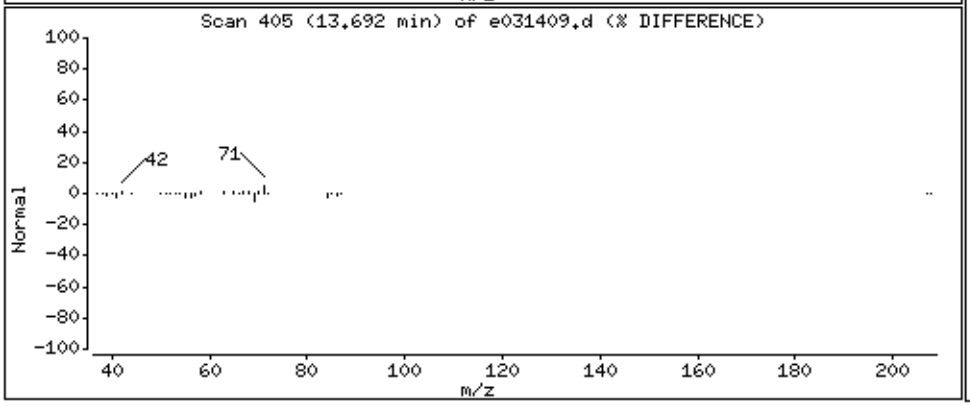
24 2-Methylpentane

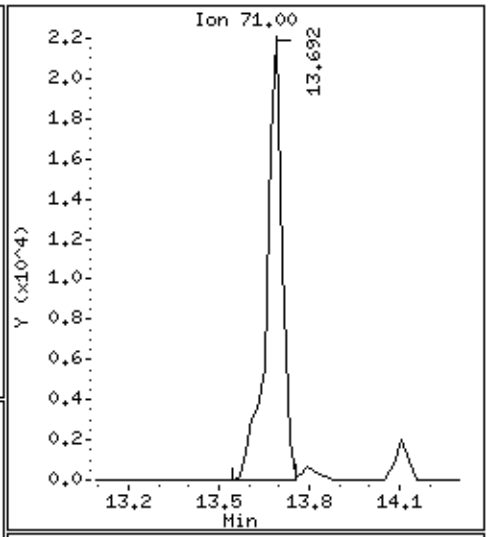
Concentration: 168.11 PPBV

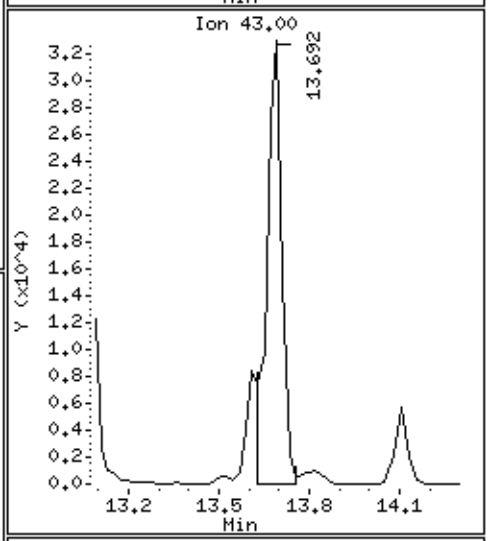


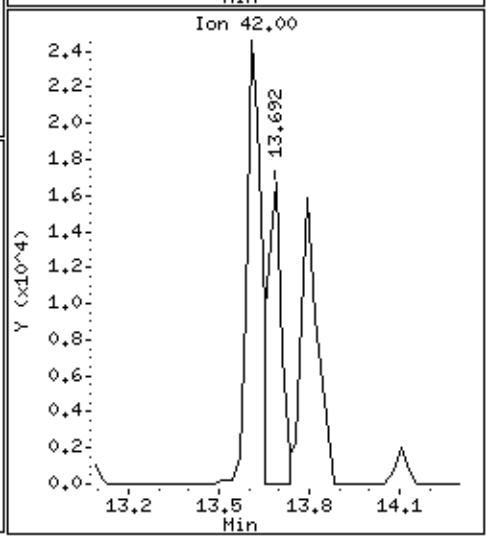



Data File: /chem/msde.i/14Mar2012.b/e031409.d

Date : 14-MAR-2012 13:25

Client ID:

Instrument: msde.i

Sample Info: 12.5mL #94610

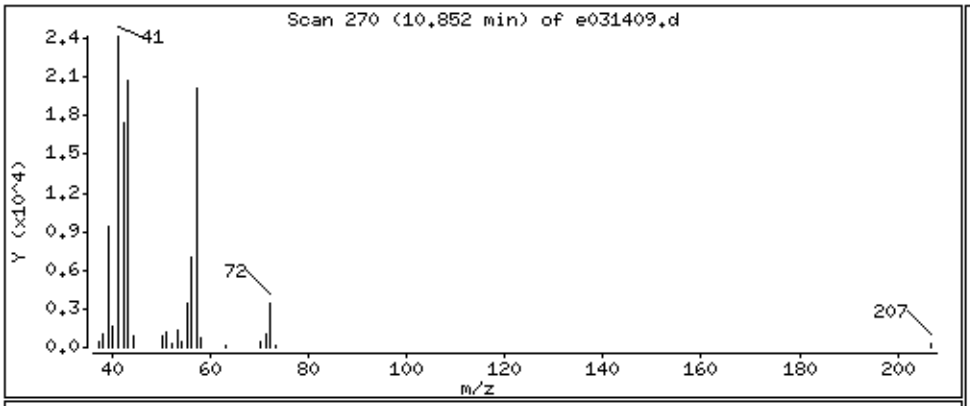
Operator: LL

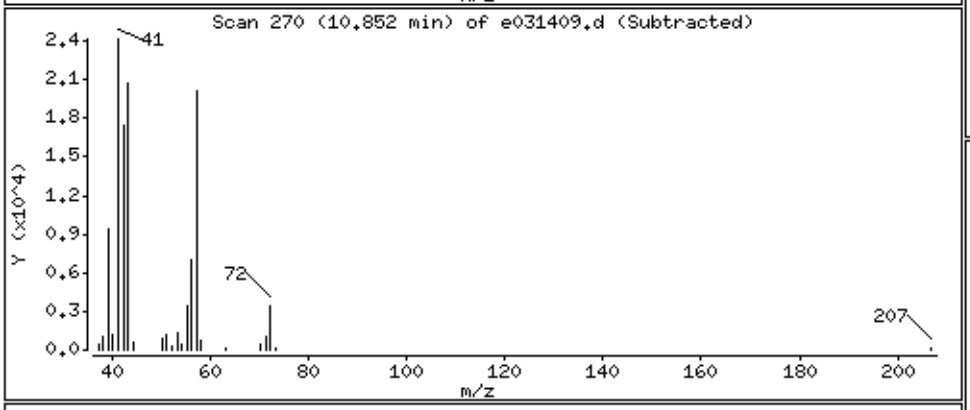
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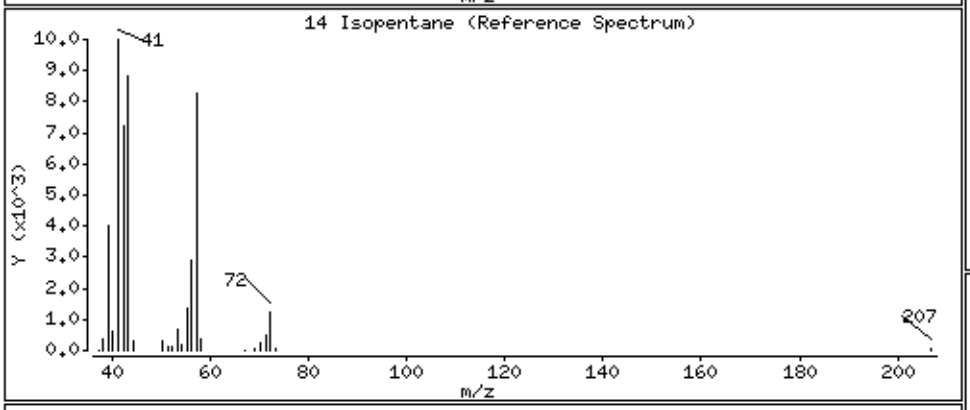
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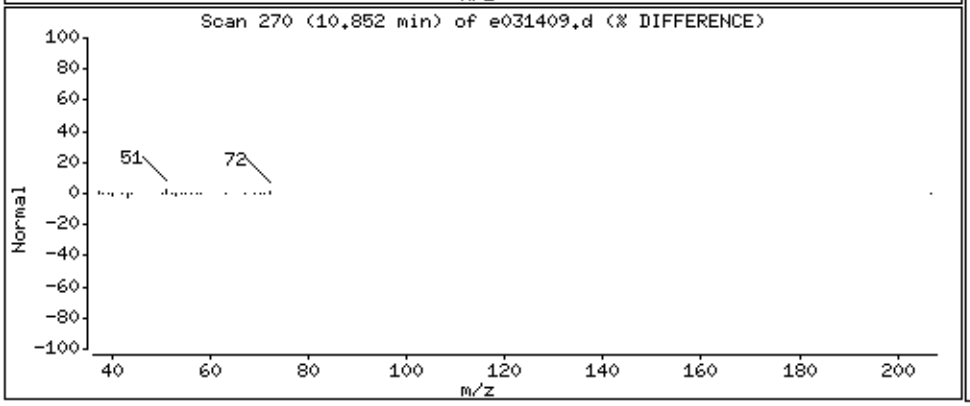
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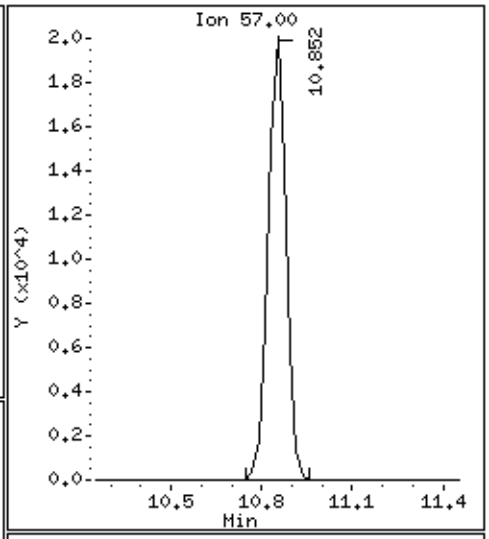
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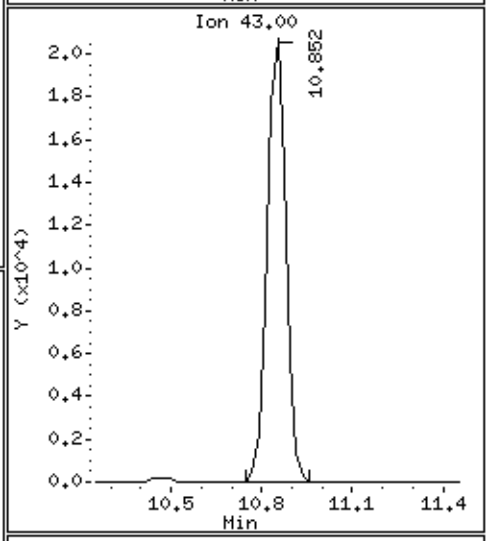


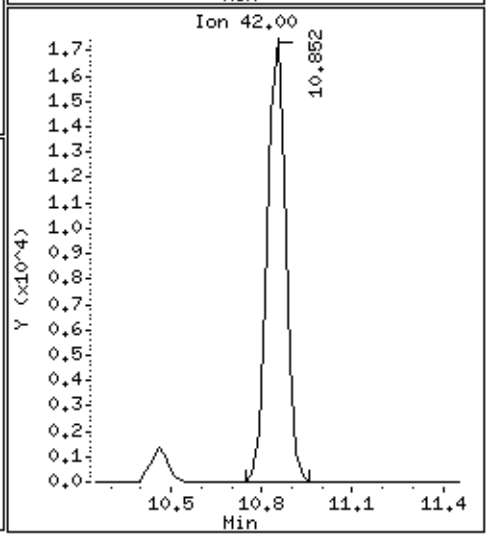



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Date : 14-MAR-2012 13:25

Client ID:

Instrument: msde.i

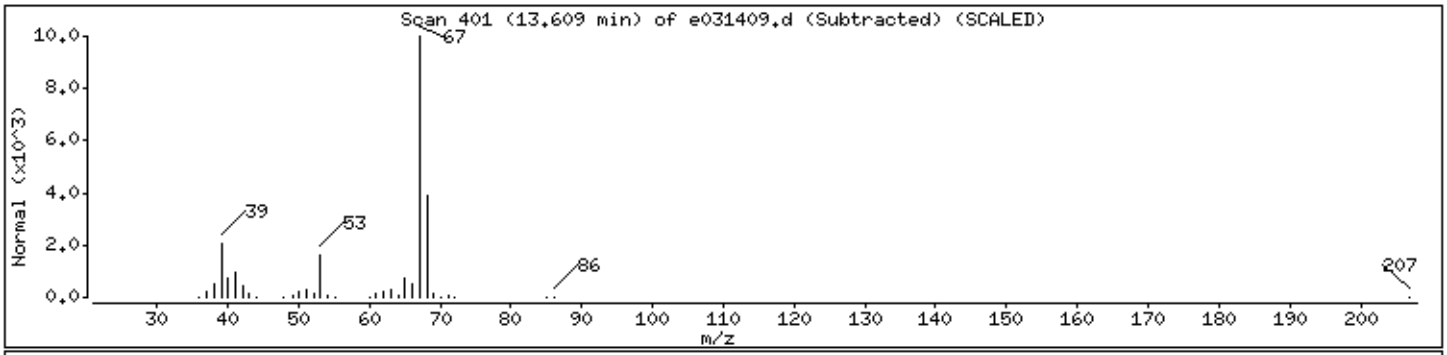
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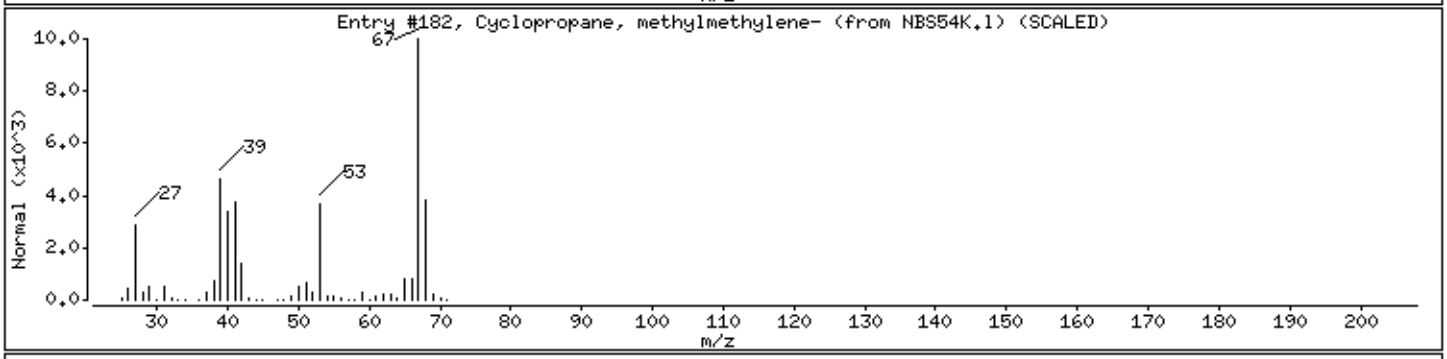
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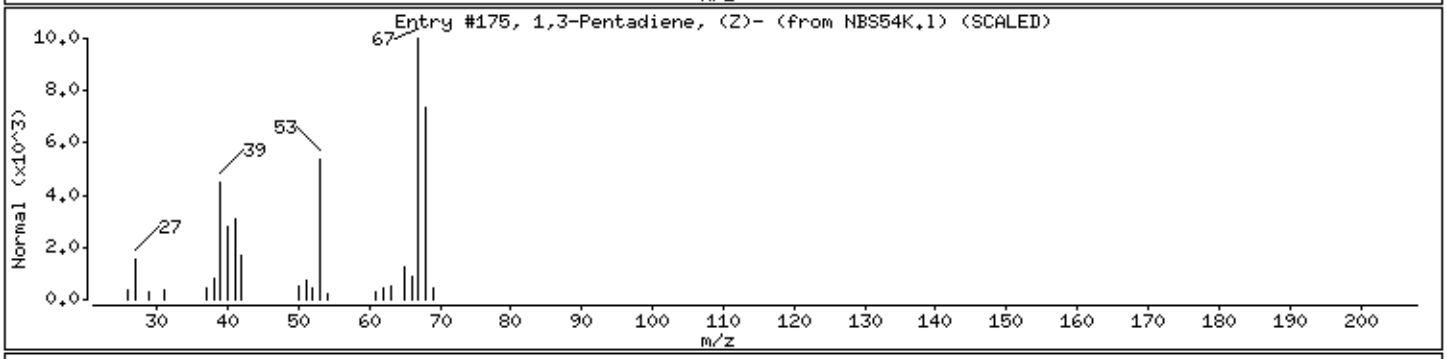
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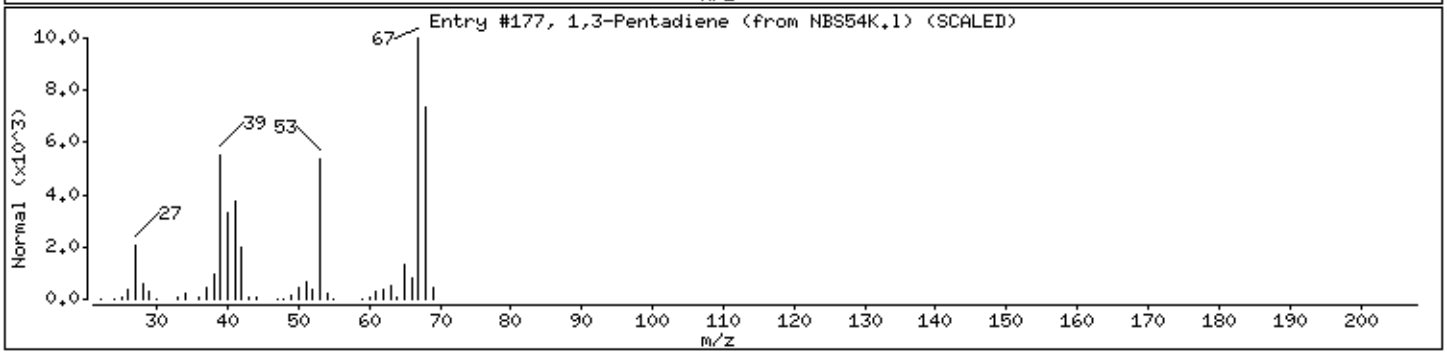
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|---|---|---|---|---|---|---|
| Cyclopropane, methylmethylene- | 18631-84-0 | NBS54K.l | 182 | 90 | C5H8 | 68 |
| 1,3-Pentadiene, (Z)- | 1574-41-0 | NBS54K.l | 175 | 53 | C5H8 | 68 |
| 1,3-Pentadiene | 504-60-9 | NBS54K.l | 177 | 53 | C5H8 | 68 |



Data File: /chem/msde.i/14Mar2012.b/e031409.d

Date : 14-MAR-2012 13:25

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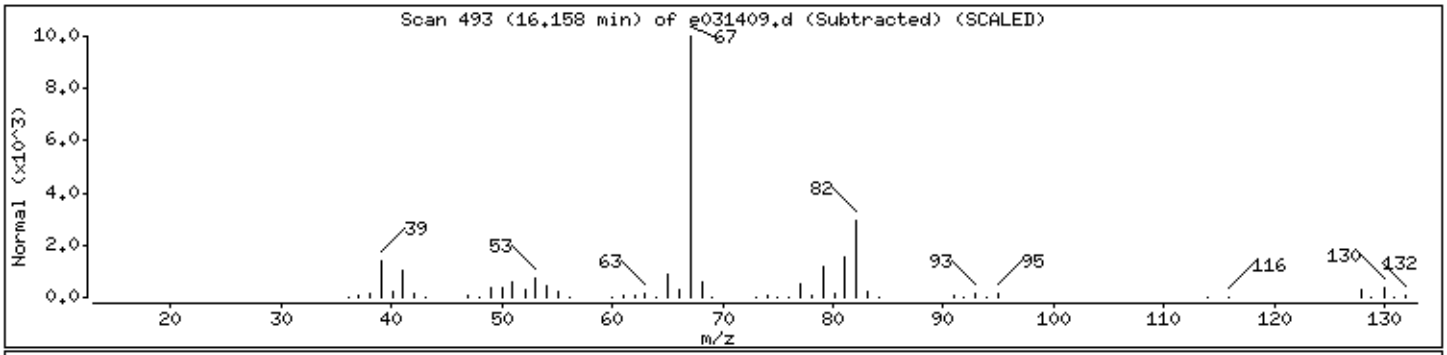
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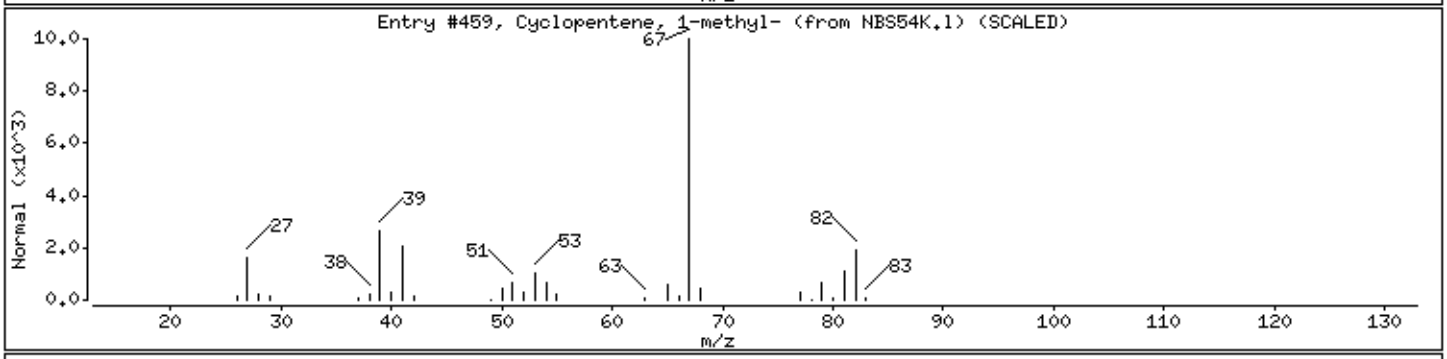
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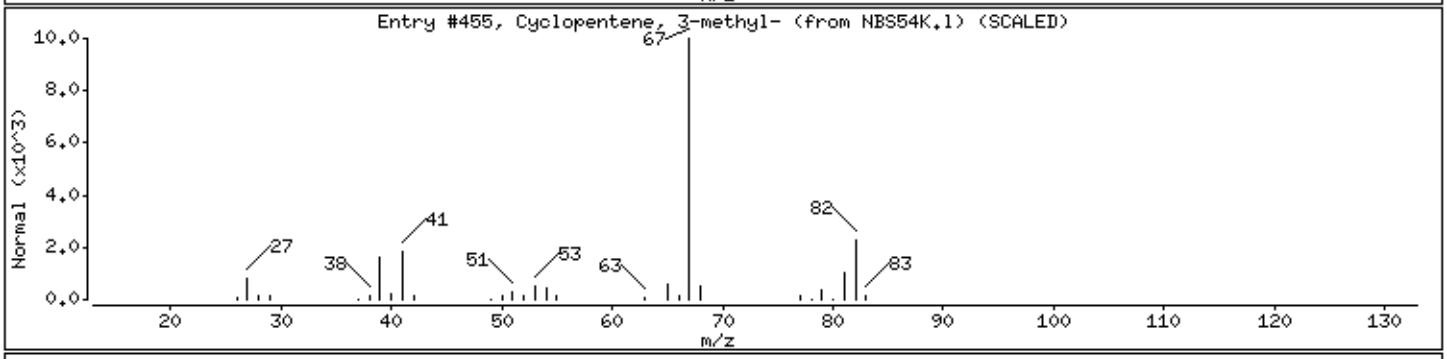
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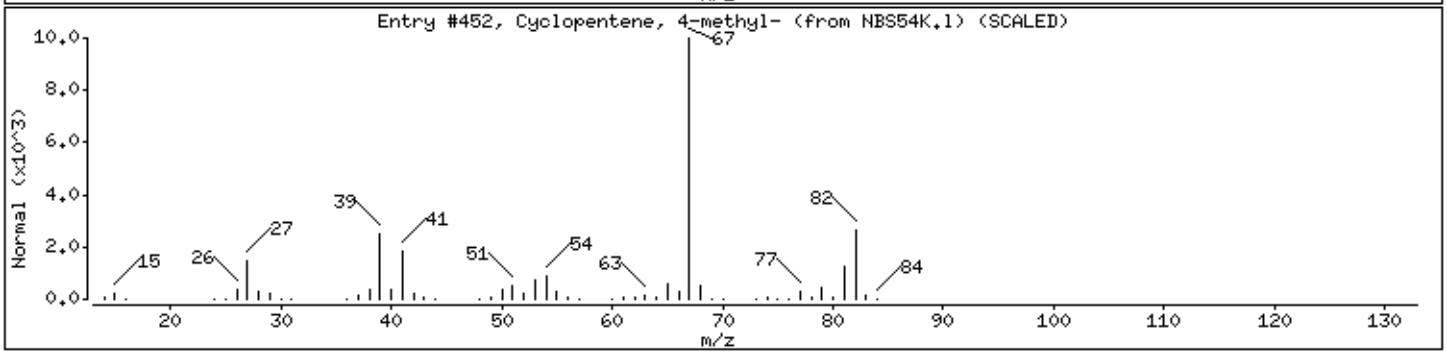
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| Library Search Compound Match | CAS Number | Library | Entry | Quality | Formula | Weight |
|---|---|---|---|---|---|---|
| Cyclopentene, 1-methyl- | 693-89-0 | NBS54K.1 | 459 | 76 | C6H10 | 82 |
| Cyclopentene, 3-methyl- | 1120-62-3 | NBS54K.1 | 455 | 74 | C6H10 | 82 |
| Cyclopentene, 4-methyl- | 1759-81-5 | NBS54K.1 | 452 | 72 | C6H10 | 82 |



Data File: /chem/msde.i/14Mar2012.b/e031409.d

Date : 14-MAR-2012 13:25

Client ID:

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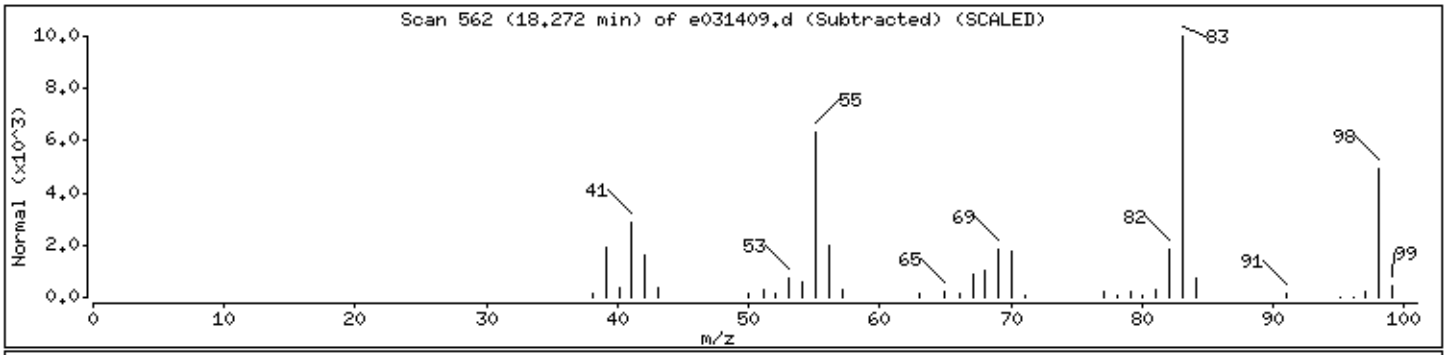
Sample Info: 12.5mL #94610

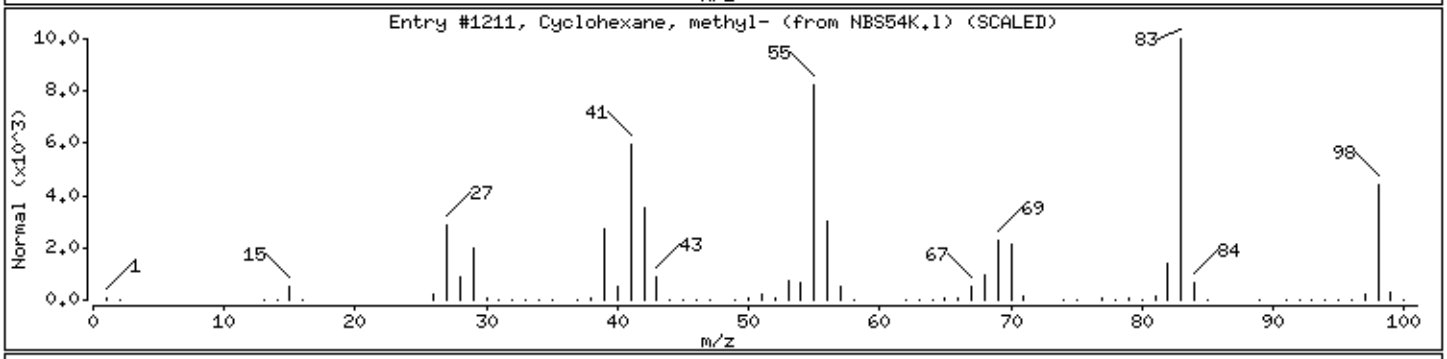
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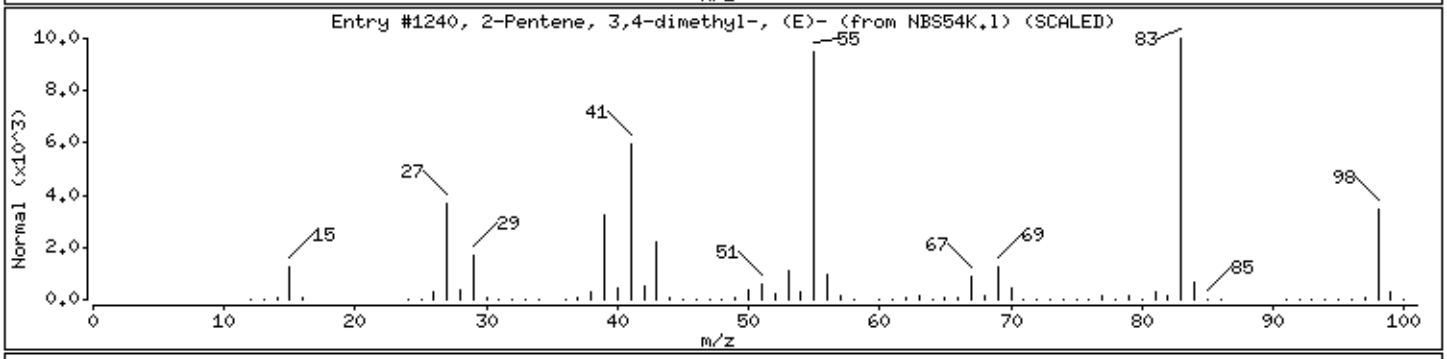
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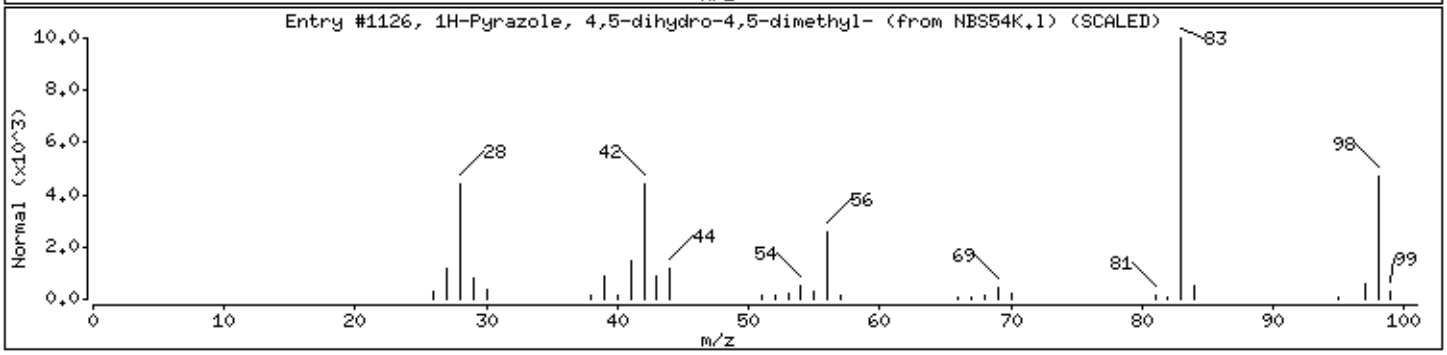
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| Library Search Compound Match | CAS Number | Library | Entry | Quality | Formula | Weight |
|---|---|---|---|---|---|---|
| Cyclohexane, methyl- | 108-87-2 | NBS54K.l | 1211 | 91 | C7H14 | 98 |
| 2-Pentene, 3,4-dimethyl-, (E)- | 4914-92-5 | NBS54K.l | 1240 | 64 | C7H14 | 98 |
| 1H-Pyrazole, 4,5-dihydro-4,5-dimethyl- | 28019-94-5 | NBS54K.l | 1126 | 64 | C5H10N2 | 98 |



Data File: /chem/msde.i/14Mar2012.b/e031409.d

Date : 14-MAR-2012 13:25

Client ID:

Instrument: msde.i

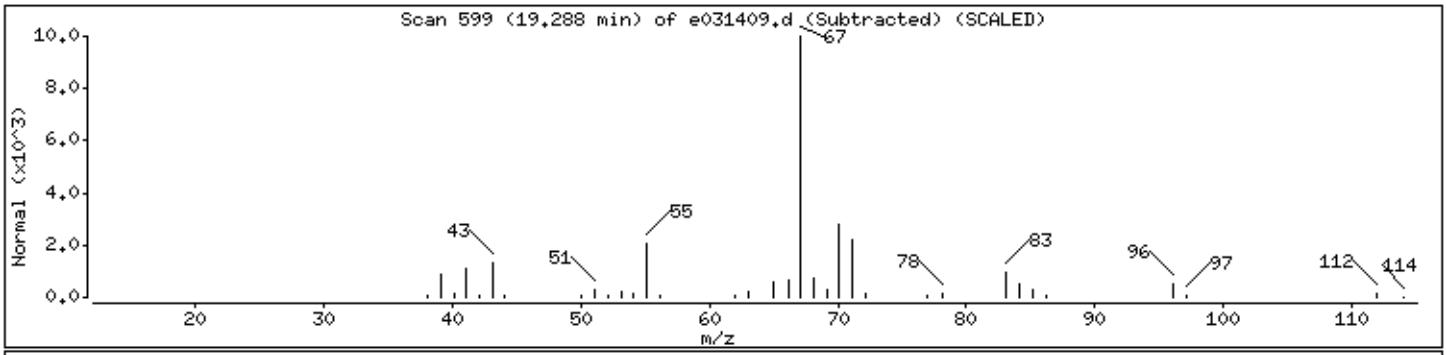
Sample Info: 12.5mL #94610

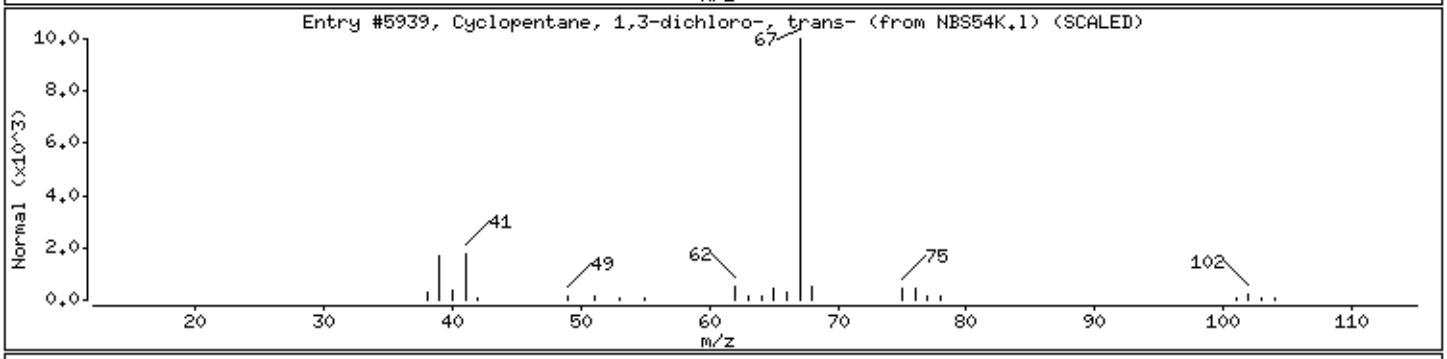
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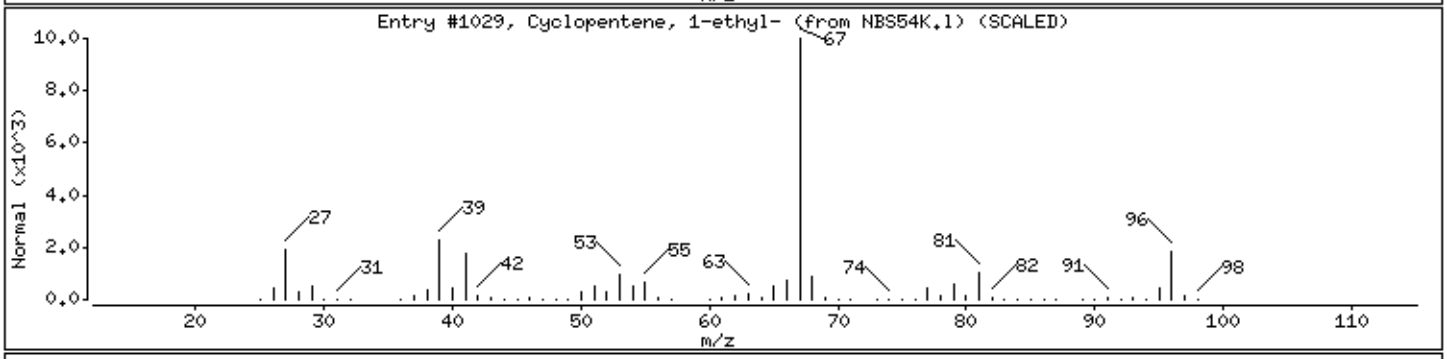
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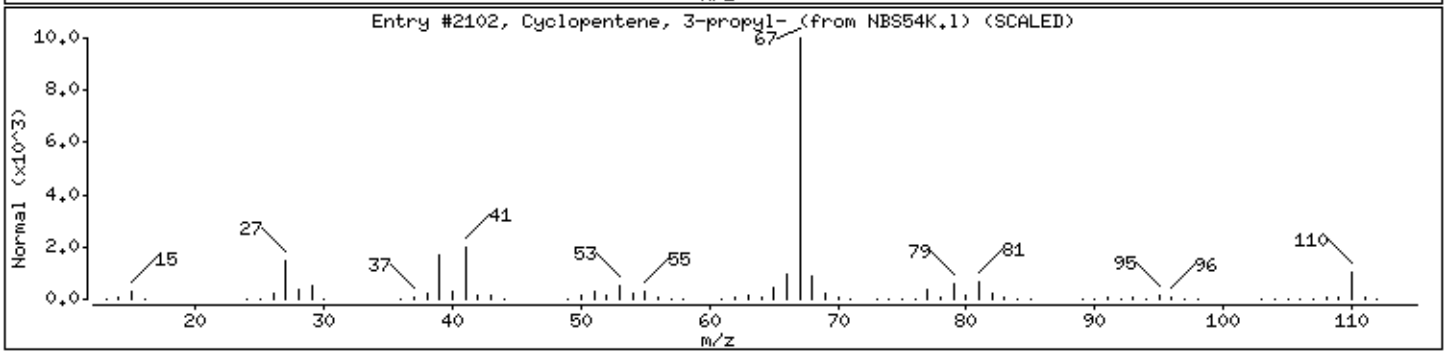
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| Library Search Compound Match | CAS Number | Library | Entry | Quality | Formula | Weight |
|---|---|---|---|---|---|---|
| Cyclopentane, 1,3-dichloro-, trans- | 26688-50-6 | NBS54K.l | 5939 | 25 | C5H8Cl2 | 138 |
| Cyclopentene, 1-ethyl- | 2146-38-5 | NBS54K.l | 1029 | 9 | C7H12 | 96 |
| Cyclopentene, 3-propyl- | 34067-75-9 | NBS54K.l | 2102 | 4 | C8H14 | 110 |



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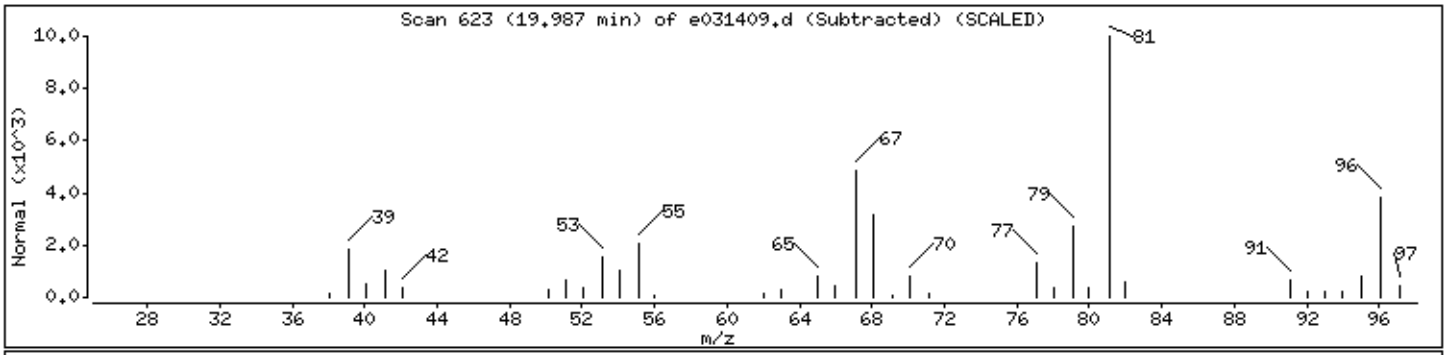
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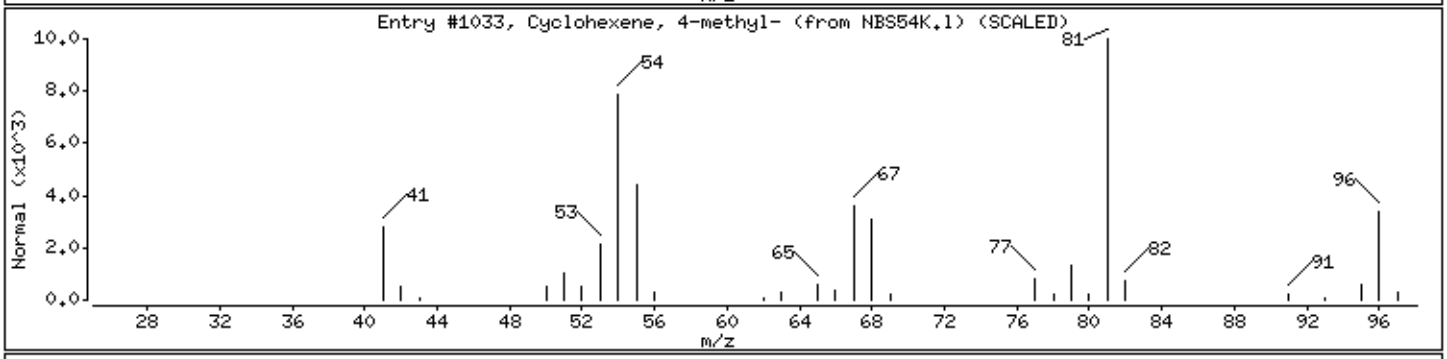
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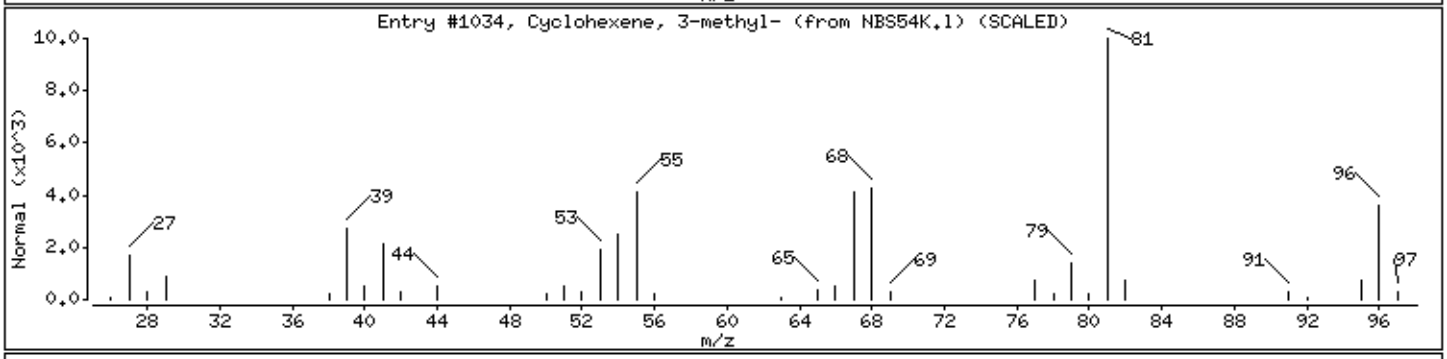
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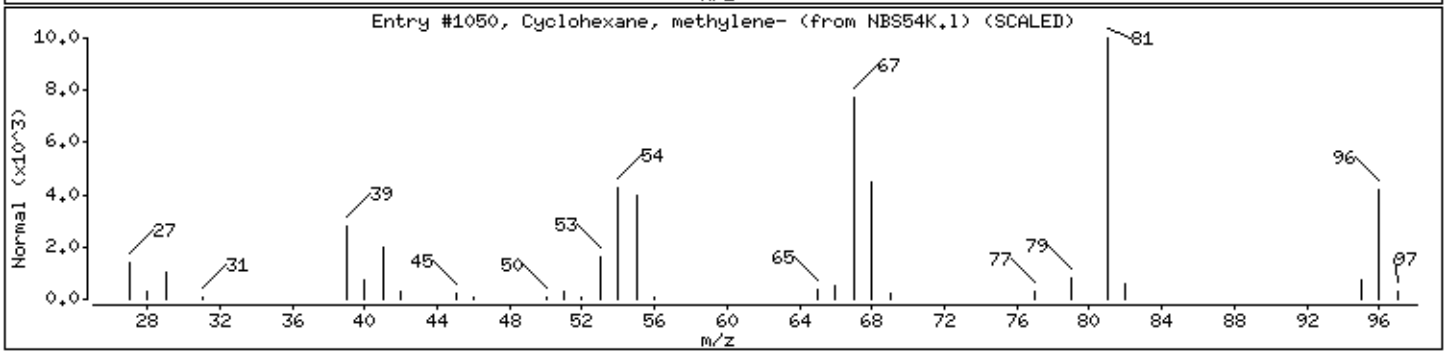
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| Library Search Compound Match | CAS Number | Library | Entry | Quality | Formula | Weight |
|---|---|---|---|---|---|---|
| Cyclohexene, 4-methyl- | 591-47-9 | NBS54K.l | 1033 | 91 | C7H12 | 96 |
| Cyclohexene, 3-methyl- | 591-48-0 | NBS54K.l | 1034 | 83 | C7H12 | 96 |
| Cyclohexane, methylene- | 1192-37-6 | NBS54K.l | 1050 | 83 | C7H12 | 96 |



Data File: /chem/msde.i/14Mar2012.b/e031409.d

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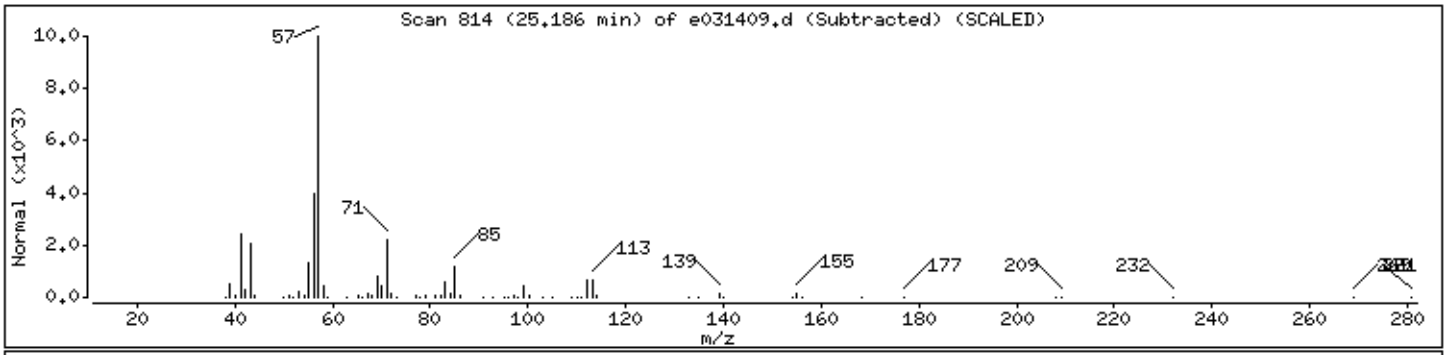
Sample Info: 12.5mL #94610

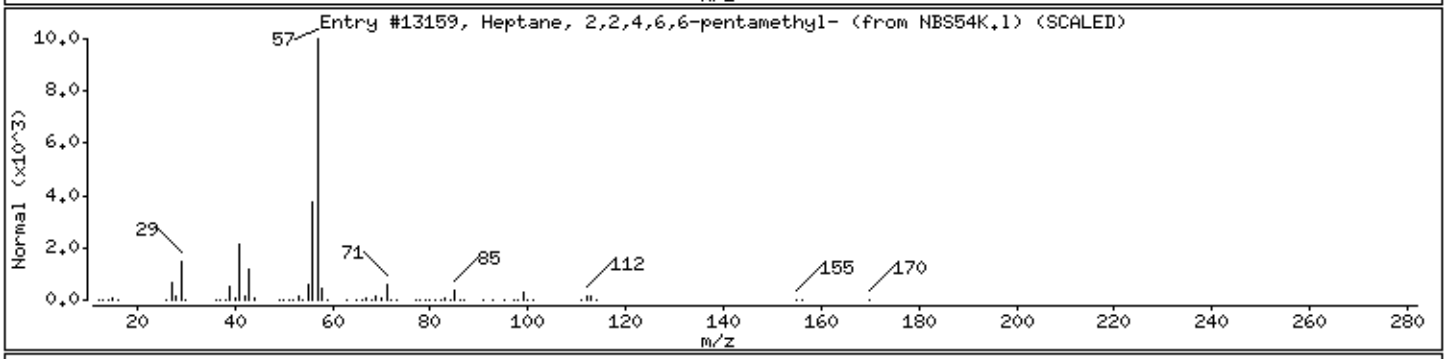
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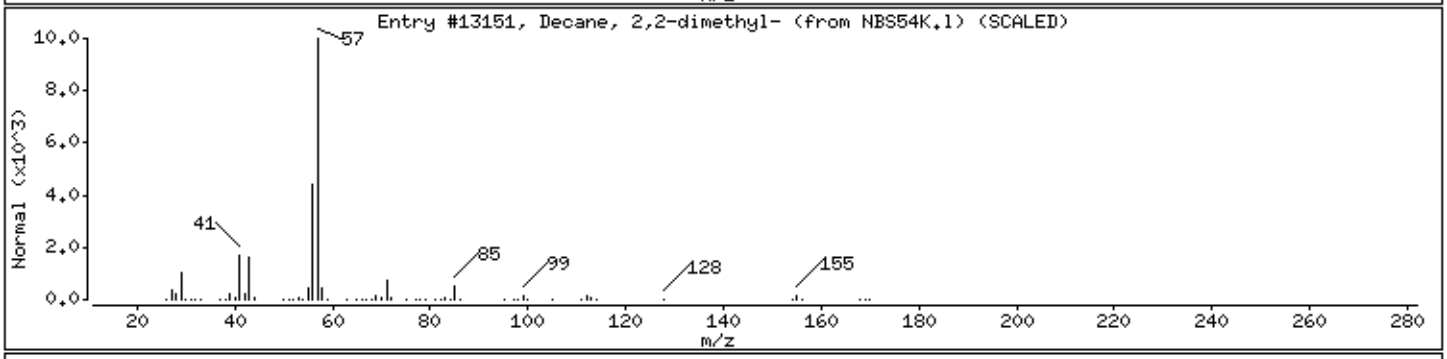
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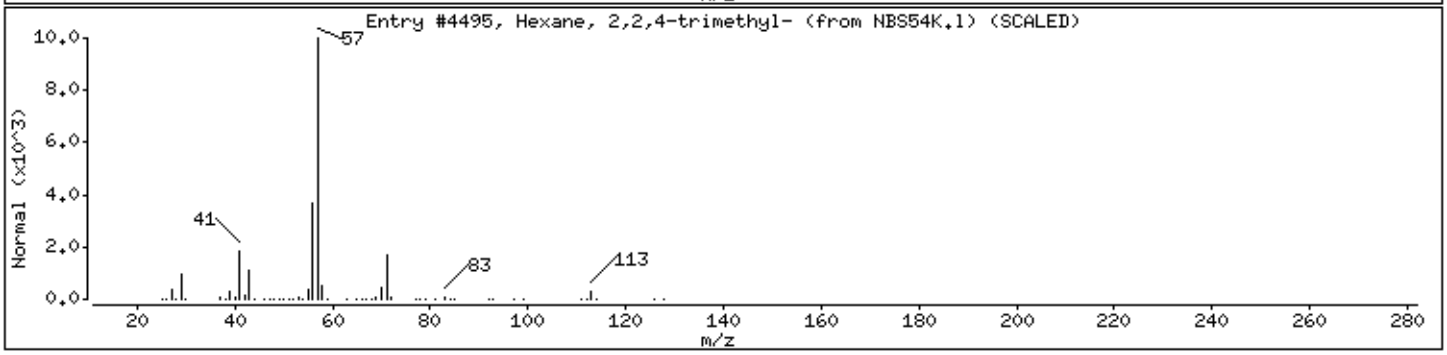
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| Library Search Compound Match | CAS Number | Library | Entry | Quality | Formula | Weight |
|---|---|---|---|---|---|---|
| Heptane, 2,2,4,6,6-pentamethyl- | 13475-82-6 | NBS54K.l | 13159 | 59 | C12H26 | 170 |
| Decane, 2,2-dimethyl- | 17302-37-3 | NBS54K.l | 13151 | 64 | C12H26 | 170 |
| Hexane, 2,2,4-trimethyl- | 16747-26-5 | NBS54K.l | 4495 | 59 | C9H20 | 128 |



Data File: /chem/msde.i/14Mar2012.b/e031409.d

Date : 14-MAR-2012 13:25

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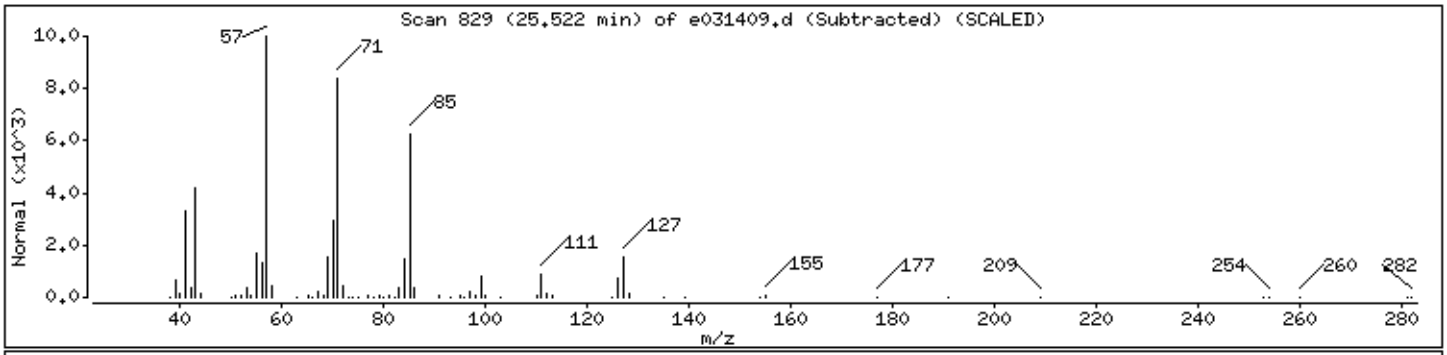
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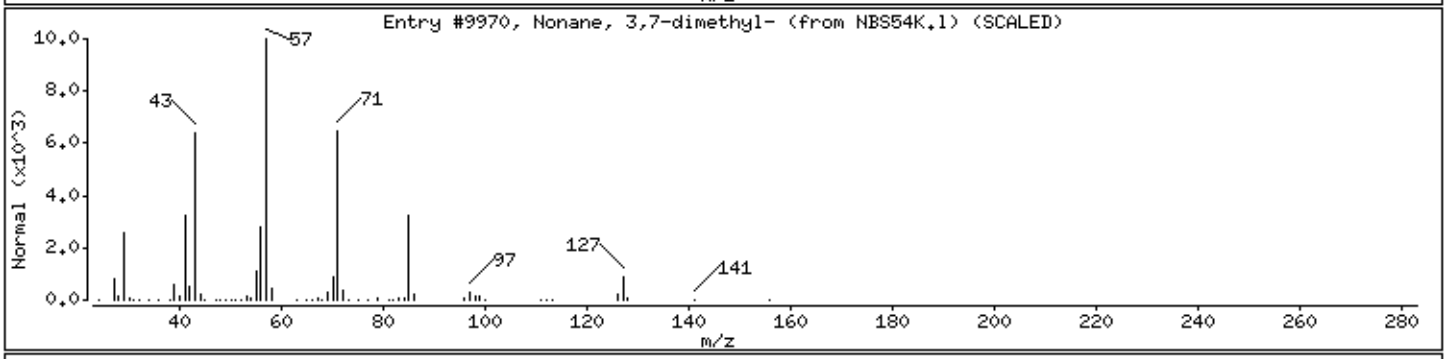
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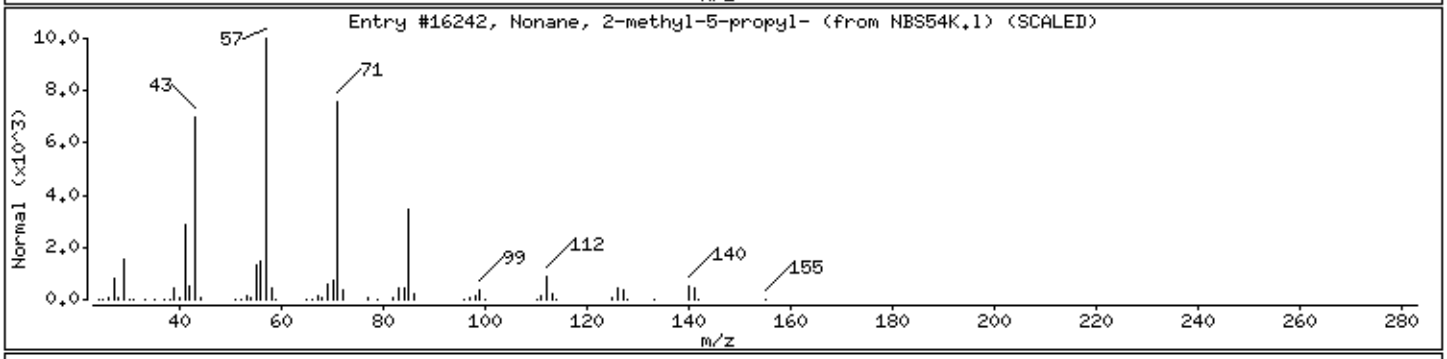
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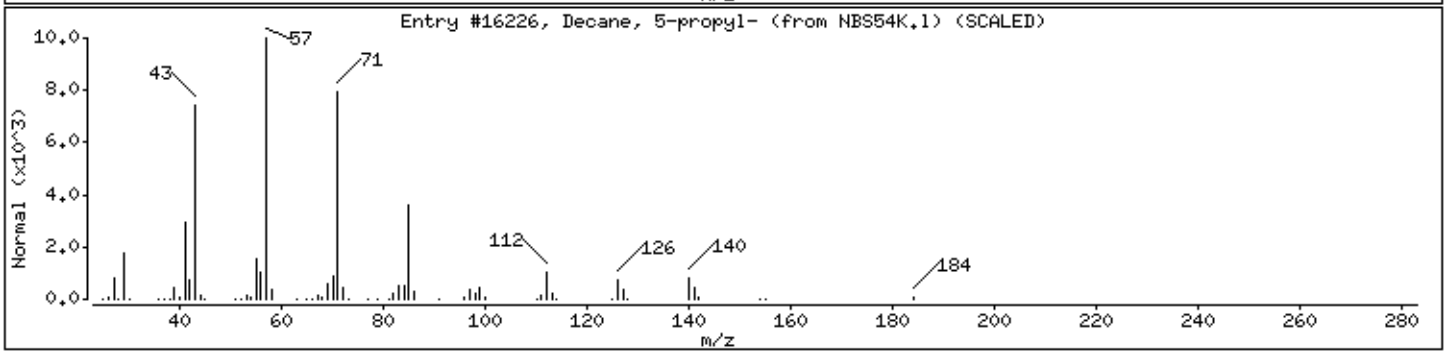
Column diameter: 0.32

| Library Search Compound Match | CAS Number | Library | Entry | Quality | Formula | Weight |
|---|---|---|---|---|---|---|
| Nonane, 3,7-dimethyl- | 17302-32-8 | NBS54K.l | 9970 | 64 | C11H24 | 156 |
| Nonane, 2-methyl-5-propyl- | 31081-17-1 | NBS54K.l | 16242 | 64 | C13H28 | 184 |
| Decane, 5-propyl- | 17312-62-8 | NBS54K.l | 16226 | 64 | C13H28 | 184 |



Data File: /chem/msde.i/14Mar2012.b/e031409.d

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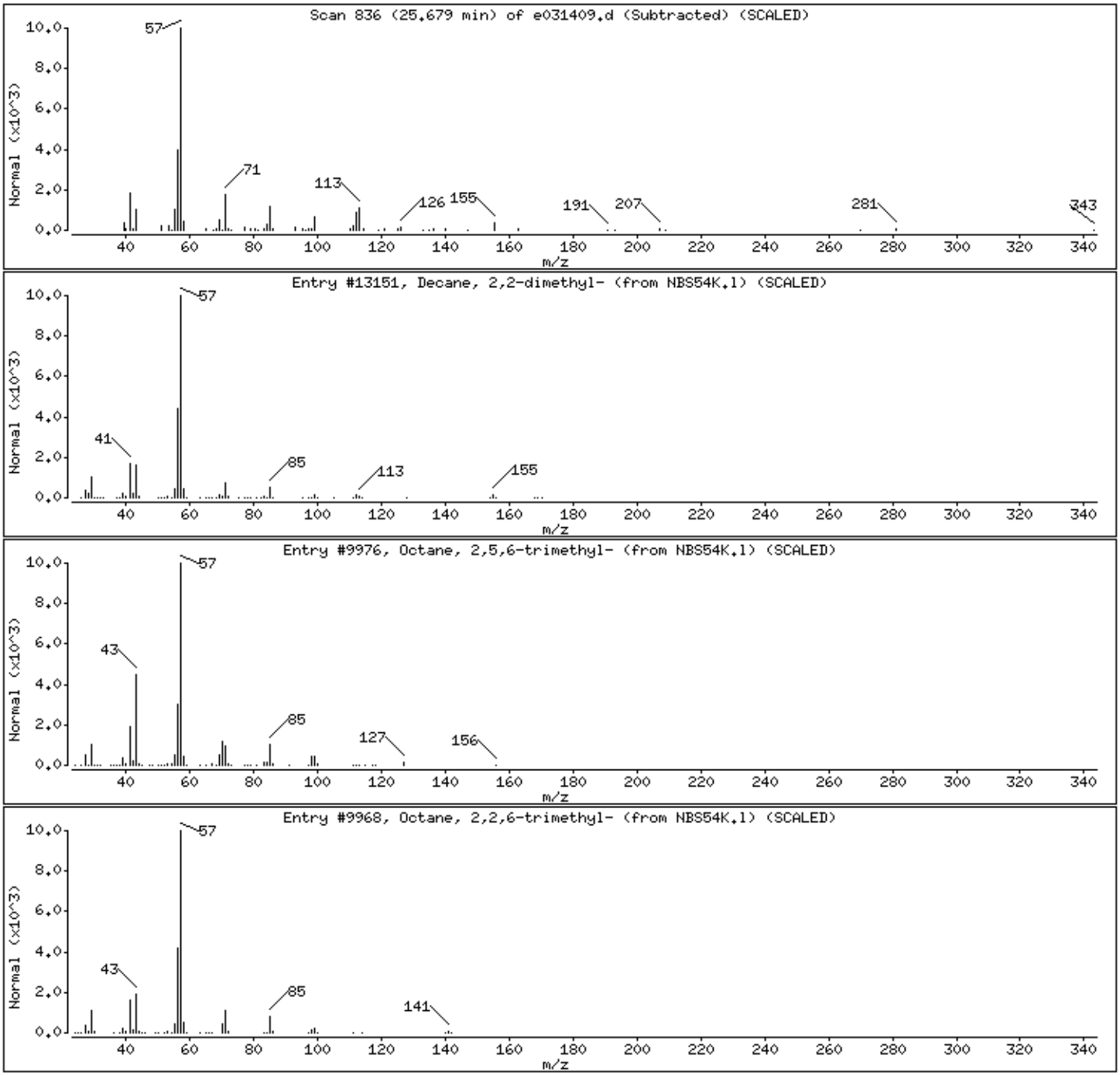
Sample Info: 12.5mL #94610

Operator: LL

Column phase: RTx-624

Column diameter: 0.32

| Library Search Compound Match | CAS Number | Library | Entry | Quality | Formula | Weight |
|---|---|---|---|---|---|---|
| Decane, 2,2-dimethyl- | 17302-37-3 | NBS54K.l | 13151 | 72 | C12H26 | 170 |
| Octane, 2,5,6-trimethyl- | 62016-14-2 | NBS54K.l | 9976 | 59 | C11H24 | 156 |
| Octane, 2,2,6-trimethyl- | 62016-28-8 | NBS54K.l | 9968 | 59 | C11H24 | 156 |



Data File: /chem/msde.i/14Mar2012.b/e031409.d

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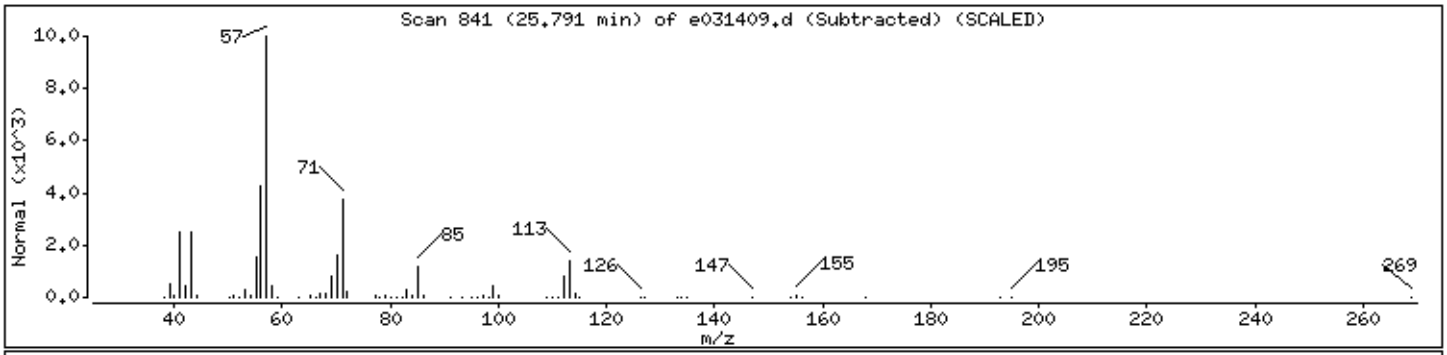
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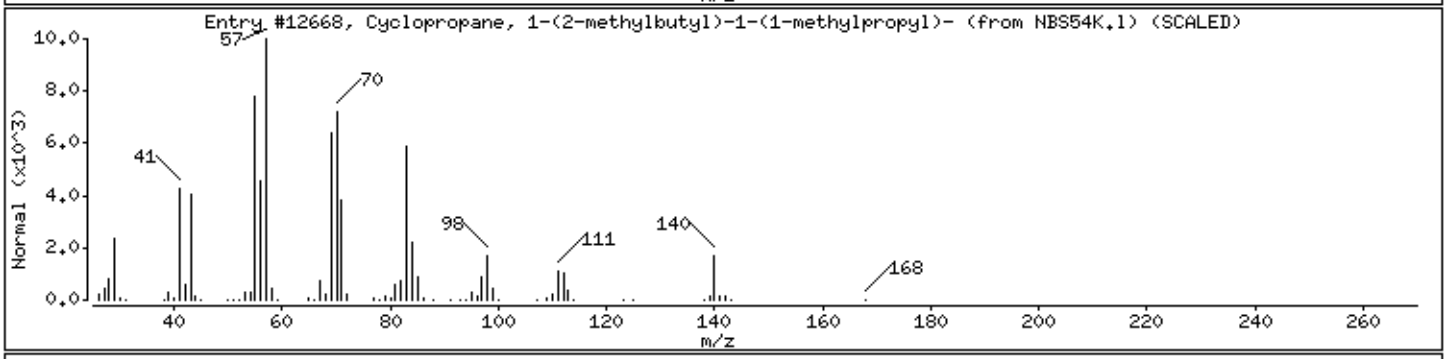
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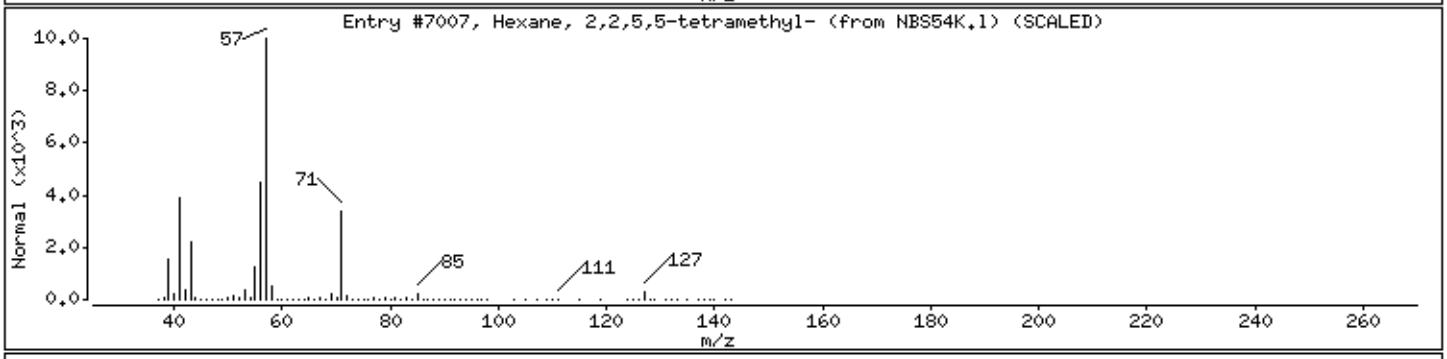
Column phase: RTx-624

Column diameter: 0.32

| Library Search Compound Match | CAS Number | Library | Entry | Quality | Formula | Weight |
|---|---|---|---|---|---|---|
| Cyclopropane, 1-(2-methylbutyl)-1-(1-met | 64723-36-0 | NBS54K.l | 12668 | 64 | C12H24 | 168 |
| Hexane, 2,2,5,5-tetramethyl- | 1071-81-4 | NBS54K.l | 7007 | 50 | C10H22 | 142 |



Data File: /chem/msde.i/14Mar2012.b/e031409.d

Date : 14-MAR-2012 13:25

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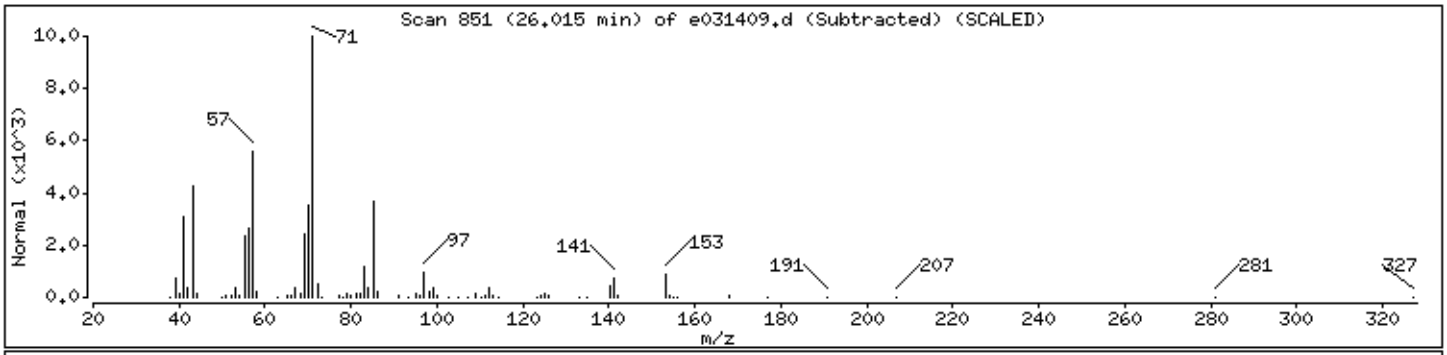
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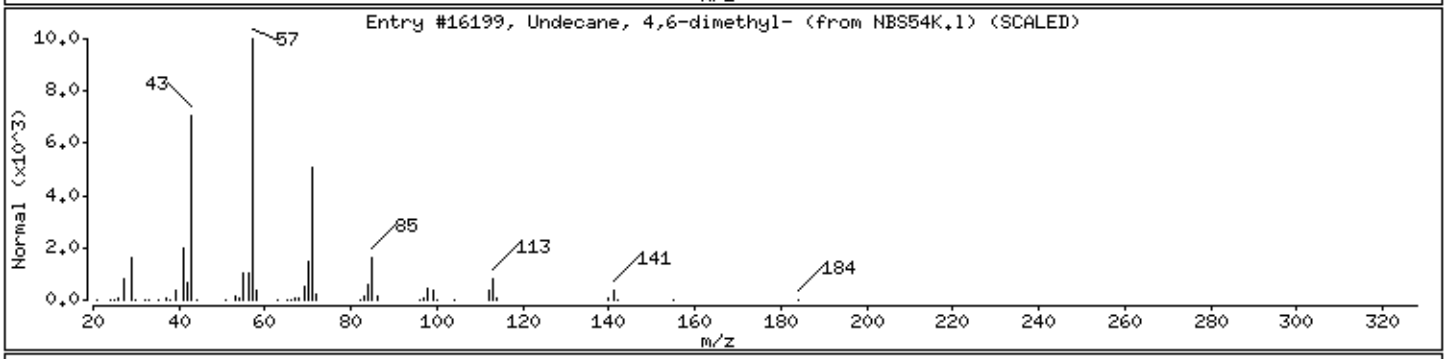
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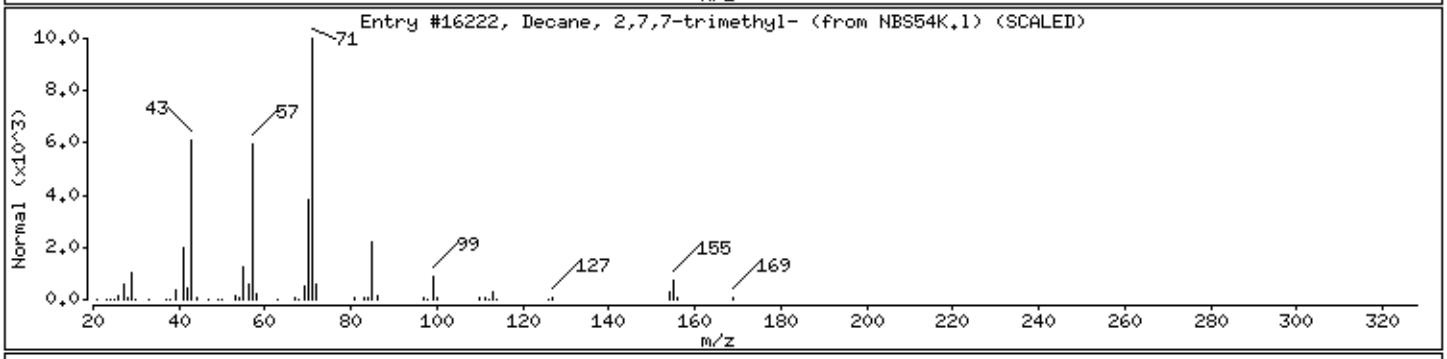
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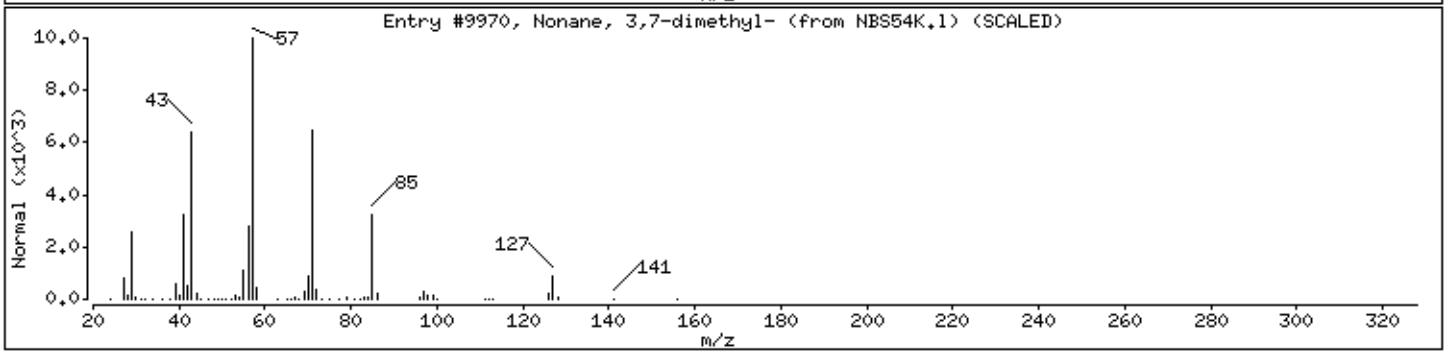
Column diameter: 0.32

| Library Search Compound Match | CAS Number | Library | Entry | Quality | Formula | Weight |
|---|---|---|---|---|---|---|
| Undecane, 4,6-dimethyl- | 17312-82-2 | NBS54K.l | 16199 | 56 | C13H28 | 184 |
| Decane, 2,7,7-trimethyl- | 62338-15-2 | NBS54K.l | 16222 | 53 | C13H28 | 184 |
| Nonane, 3,7-dimethyl- | 17302-32-8 | NBS54K.l | 9970 | 53 | C11H24 | 156 |



eurofins | Air Toxics

# Summary of Detected Compounds
# MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

**Client Sample ID: SG-5**

**Lab ID#: 1202444-03A**

| Compound | Rpt. Limit (ppbv) | Amount (ppbv) | Rpt. Limit (ug/m3) | Amount (ug/m3) |
|---|---|---|---|---|
| Freon 12 | 16 | 33 | 80 | 160 |
| Chloromethane | 16 | 33 | 33 | 69 |
| Ethanol | 80 | 250 | 150 | 470 |
| Acetone | 80 | 1100 | 190 | 2600 |
| Methylene Chloride | 32 | 550 J | 110 | 1900 J |
| Hexane | 16 | 280 | 57 | 980 |
| 2-Butanone (Methyl Ethyl Ketone) | 80 | 240 | 240 | 720 |
| Cyclohexane | 16 | 1100 | 55 | 3900 |
| Benzene | 16 | 28 | 51 | 90 |
| Toluene | 16 | 25 | 61 | 96 |
| m,p-Xylene | 16 | 17 | 70 | 73 |
| 2,3-Dimethylpentane | 80 | 1800 | 330 | 7500 |
| 2-Methylpentane | 80 | 4000 | 280 | 14000 |
| Isopentane | 80 | 4000 | 240 | 12000 |

**TENTATIVELY IDENTIFIED COMPOUNDS**

| Compound | CAS Number | Match Quality | Amount (ppbv) |
|---|---|---|---|
| Propane | 74-98-6 | 9.0% | 3300 NJ |
| Propane, 2-methyl- | 75-28-5 | 42% | 4700 NJ |
| Pentane, 3-methyl- | 96-14-0 | 90% | 1900 NJ |
| Heptane, 3,3,4-trimethyl- | 20278-87-9 | 36% | 2700 NJ |
| Heptanol | 53535-33-4 | 64% | 1600 NJ |
| Cyclopentane, 1,2-dimethyl-, cis- | 1192-18-3 | 58% | 1900 NJ |
| Furan, 2-methoxy- | 25414-22-6 | 64% | 2400 NJ |
| Pentane, 3-ethyl-2-methyl- | 609-26-7 | 64% | 2400 NJ |
| Cyclohexane, 1,3-dimethyl-, trans- | 2207-03-6 | 83% | 2500 NJ |
| Cyclohexane, 1,3,5-trimethyl- | 1839-63-0 | 64% | 1800 NJ |

eurofins | Air Toxics

**Client Sample ID: SG-5**

**Lab ID#: 1202444-03A**

**MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN**

| | | | |
|---|---|---|---|
| **File Name:** | **e032010** | **Date of Collection:** | **2/20/12 10:20:00 AM** |
| **Dil. Factor:** | **161** | **Date of Analysis:** | **3/20/12 05:17 PM** |

| Compound | Rpt. Limit (ppbv) | Amount (ppbv) | Rpt. Limit (ug/m3) | Amount (ug/m3) |
|---|---|---|---|---|
| Freon 12 | 16 | 33 | 80 | 160 |
| Freon 114 | 16 | Not Detected | 110 | Not Detected |
| Chloromethane | 16 | 33 | 33 | 69 |
| Vinyl Chloride | 16 | Not Detected | 41 | Not Detected |
| 1,3-Butadiene | 16 | Not Detected | 36 | Not Detected |
| Bromomethane | 16 | Not Detected | 62 | Not Detected |
| Chloroethane | 80 | Not Detected | 210 | Not Detected |
| Freon 11 | 16 | Not Detected | 90 | Not Detected |
| Ethanol | 80 | 250 | 150 | 470 |
| Freon 113 | 16 | Not Detected | 120 | Not Detected |
| 1,1-Dichloroethene | 16 | Not Detected | 64 | Not Detected |
| Acetone | 80 | 1100 | 190 | 2600 |
| 2-Propanol | 80 | Not Detected | 200 | Not Detected |
| Carbon Disulfide | 80 | Not Detected | 250 | Not Detected |
| 3-Chloropropene | 80 | Not Detected | 250 | Not Detected |
| Methylene Chloride | 32 | 550 J | 110 | 1900 J |
| Methyl tert-butyl ether | 16 | Not Detected | 58 | Not Detected |
| trans-1,2-Dichloroethene | 16 | Not Detected | 64 | Not Detected |
| Hexane | 16 | 280 | 57 | 980 |
| 1,1-Dichloroethane | 16 | Not Detected | 65 | Not Detected |
| 2-Butanone (Methyl Ethyl Ketone) | 80 | 240 | 240 | 720 |
| cis-1,2-Dichloroethene | 16 | Not Detected | 64 | Not Detected |
| Tetrahydrofuran | 80 | Not Detected | 240 | Not Detected |
| Chloroform | 16 | Not Detected | 79 | Not Detected |
| 1,1,1-Trichloroethane | 16 | Not Detected | 88 | Not Detected |
| Cyclohexane | 16 | 1100 | 55 | 3900 |
| Carbon Tetrachloride | 16 | Not Detected | 100 | Not Detected |
| 2,2,4-Trimethylpentane | 80 | Not Detected | 380 | Not Detected |
| Benzene | 16 | 28 | 51 | 90 |
| 1,2-Dichloroethane | 16 | Not Detected | 65 | Not Detected |
| Heptane | 16 | Not Detected | 66 | Not Detected |
| Trichloroethene | 16 | Not Detected | 86 | Not Detected |
| 1,2-Dichloropropane | 16 | Not Detected | 74 | Not Detected |
| 1,4-Dioxane | 16 | Not Detected | 58 | Not Detected |
| Bromodichloromethane | 16 | Not Detected | 110 | Not Detected |
| cis-1,3-Dichloropropene | 16 | Not Detected | 73 | Not Detected |
| 4-Methyl-2-pentanone | 16 | Not Detected | 66 | Not Detected |
| Toluene | 16 | 25 | 61 | 96 |
| trans-1,3-Dichloropropene | 16 | Not Detected | 73 | Not Detected |
| 1,1,2-Trichloroethane | 16 | Not Detected | 88 | Not Detected |
| Tetrachloroethene | 16 | Not Detected | 110 | Not Detected |
| 2-Hexanone | 80 | Not Detected | 330 | Not Detected |

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**Client Sample ID: SG-5**

**Lab ID#: 1202444-03A**

**MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN**

| | | | |
|---|---|---|---|
| **File Name:** | **e032010** | **Date of Collection:** | **2/20/12 10:20:00 AM** |
| **Dil. Factor:** | **161** | **Date of Analysis:** | **3/20/12 05:17 PM** |

| Compound | Rpt. Limit (ppbv) | Amount (ppbv) | Rpt. Limit (ug/m3) | Amount (ug/m3) |
|---|---|---|---|---|
| Dibromochloromethane | 16 | Not Detected | 140 | Not Detected |
| 1,2-Dibromoethane (EDB) | 16 | Not Detected | 120 | Not Detected |
| Chlorobenzene | 16 | Not Detected | 74 | Not Detected |
| Ethyl Benzene | 16 | Not Detected | 70 | Not Detected |
| m,p-Xylene | 16 | 17 | 70 | 73 |
| o-Xylene | 16 | Not Detected | 70 | Not Detected |
| Styrene | 16 | Not Detected | 68 | Not Detected |
| Bromoform | 16 | Not Detected | 170 | Not Detected |
| Cumene | 16 | Not Detected | 79 | Not Detected |
| 1,1,2,2-Tetrachloroethane | 16 | Not Detected | 110 | Not Detected |
| Propylbenzene | 16 | Not Detected | 79 | Not Detected |
| 4-Ethyltoluene | 16 | Not Detected | 79 | Not Detected |
| 1,3,5-Trimethylbenzene | 16 | Not Detected | 79 | Not Detected |
| 1,2,4-Trimethylbenzene | 16 | Not Detected | 79 | Not Detected |
| 1,3-Dichlorobenzene | 16 | Not Detected | 97 | Not Detected |
| 1,4-Dichlorobenzene | 16 | Not Detected | 97 | Not Detected |
| alpha-Chlorotoluene | 16 | Not Detected | 83 | Not Detected |
| 1,2-Dichlorobenzene | 16 | Not Detected | 97 | Not Detected |
| 1,2,4-Trichlorobenzene | 80 | Not Detected | 600 | Not Detected |
| Hexachlorobutadiene | 80 | Not Detected | 860 | Not Detected |
| 2,3-Dimethylpentane | 80 | 1800 | 330 | 7500 |
| 2-Methylpentane | 80 | 4000 | 280 | 14000 |
| Indene | 80 | Not Detected | 380 | Not Detected |
| Indan | 80 | Not Detected | 390 | Not Detected |
| Isopentane | 80 | 4000 | 240 | 12000 |
| Naphthalene | 80 | Not Detected | 420 | Not Detected |
| Thiophene | 80 | Not Detected | 280 | Not Detected |

J = Estimated value due to bias in the CCV.

**TENTATIVELY IDENTIFIED COMPOUNDS**

| Compound | CAS Number | Match Quality | Amount ((ppbv)) |
|---|---|---|---|
| Propane | 74-98-6 | 9.0% | 3300 NJ |
| Propane, 2-methyl- | 75-28-5 | 42% | 4700 NJ |
| Pentane, 3-methyl- | 96-14-0 | 90% | 1900 NJ |
| Heptane, 3,3,4-trimethyl- | 20278-87-9 | 36% | 2700 NJ |
| Heptanol | 53535-33-4 | 64% | 1600 NJ |
| Cyclopentane, 1,2-dimethyl-, cis- | 1192-18-3 | 58% | 1900 NJ |
| Furan, 2-methoxy- | 25414-22-6 | 64% | 2400 NJ |
| Pentane, 3-ethyl-2-methyl- | 609-26-7 | 64% | 2400 NJ |
| Cyclohexane, 1,3-dimethyl-, trans- | 2207-03-6 | 83% | 2500 NJ |

eurofins | Air Toxics

**Client Sample ID: SG-5**

**Lab ID#: 1202444-03A**

**MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN**

| | | | |
|---|---|---|---|
| **File Name:** | **e032010** | **Date of Collection: 2/20/12 10:20:00 AM** | |
| **Dil. Factor:** | **161** | **Date of Analysis: 3/20/12 05:17 PM** | |

**TENTATIVELY IDENTIFIED COMPOUNDS**

| Compound | CAS Number | Match Quality | Amount ((ppbv)) |
|---|---|---|---|
| Cyclohexane, 1,3,5-trimethyl- | 1839-63-0 | 64% | 1800 NJ |

NJ =The identification is based on presumptive evidence; estimated value.
Q = Exceeds Quality Control limits of 70% to 130%, due to matrix effects.
**Container Type: 6 Liter Summa Special (100% Certified)**

| Surrogates | %Recovery | Method Limits |
|---|---|---|
| 1,2-Dichloroethane-d4 | 154 Q | 70-130 |
| Toluene-d8 | 103 | 70-130 |
| 4-Bromofluorobenzene | 105 | 70-130 |

Air Toxics Ltd.

EPA TO-15/Modified TO14A

Data file : /chem/msde.i/20Mar2012.b/e032010.d
Lab Smp Id: 1202444-03A
Inj Date : 20-MAR-2012 17:17
Operator : sac Inst ID: msde.i
Smp Info : 200mL #35287
Misc Info : 5.0"Hg - 5psi (80x can)
Comment : Low-Level/GC-MS
Method : /chem/msde.i/20Mar2012.b/e12l0308c.m
Meth Date : 21-Mar-2012 06:46 croush Quant Type: ISTD
Cal Date : 16-MAR-2012 11:53 Cal File: e031607.d
Als bottle: 26
Dil Factor: 161.00000
Integrator: HP RTE Compound Sublist: PAR16136.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

| Name | Value | Description |
|---|---|---|
| DF | 161.00000 | Dilution Factor |

| | | | | CONCENTRATIONS ON-COL | FINAL | | |
|---|---|---|---|---|---|---|---|
| RT | EXP RT (REL RT) | MASS | RESPONSE | ( PPBV) | ( PPBV) | TARGET RANGE | RATIO |
| * 46 Bromochloromethane | | | | | CAS #: 74-97-5 | | |
| 16.127 | 16.128 (1.000) | 130 | 75662 | 5.00000 | | 80.00- 120.00 | 100.00 |
| 16.127 | 16.128 (1.000) | 128 | 58102 | | | 0.00- 30.00 | 76.79 |
| 16.127 | 16.128 (1.000) | 49 | 66929 | | | 0.00- 30.00 | 88.46 |
| * 58 1,4-Difluorobenzene | | | | | CAS #: 540-36-3 | | |
| 17.586 | 17.586 (1.000) | 114 | 308054 | 5.00000 | | 80.00- 120.00 | 100.00 |
| 17.558 | 17.586 (1.000) | 88 | 56313 | | | 0.00- 30.00 | 18.28 |
| * 75 Chlorobenzene-d5 | | | | | CAS #: 3114-55-4 | | |
| 22.924 | 22.925 (1.000) | 117 | 274598 | 5.00000 | | 80.00- 120.00 | 100.00 |
| 22.924 | 22.925 (1.000) | 82 | 238049 | | | 0.00- 30.00 | 86.69 |
| $ 54 1,2-Dichloroethane-d4 | | | | | CAS #: 17060-07-0 | | |
| 17.013 | 17.013 (1.055) | 65 | 217512 | 7.71439 | 7.714 | 80.00- 120.00 | 100.00(aR) |
| 17.013 | 17.013 (1.055) | 67 | 133459 | | | 0.00- 30.00 | 61.36 |

| RT | EXP RT (REL RT) | MASS | RESPONSE | CONCENTRATIONS ON-COL ( PPBV) | CONCENTRATIONS FINAL ( PPBV) | TARGET RANGE | RATIO |
|---|---|---|---|---|---|---|---|
| $ 67 Toluene-d8 | | | | | CAS #: 2037-26-5 | | |
| 20.368 | 20.368 (1.158) | 98 | 319727 | 5.15280 | 5.153 | 80.00- 120.00 | 100.00(a) |
| 20.390 | 20.368 (1.159) | 70 | 71420 | | | 0.00- 30.00 | 22.34 |
| 20.368 | 20.368 (1.158) | 100 | 199986 | | | 33.74- 93.74 | 62.55 |
| $ 87 Bromofluorobenzene | | | | | CAS #: 460-00-4 | | |
| 24.523 | 24.523 (1.070) | 174 | 165652 | 5.27336 | 5.273 | 80.00- 120.00 | 100.00(a) |
| 24.523 | 24.523 (1.070) | 95 | 264517 | | | 121.72- 181.72 | 159.68 |
| 24.523 | 24.523 (1.070) | 176 | 161588 | | | 65.45- 125.45 | 97.55 |
| 4 Dichlorodifluoromethane/Fr12 | | | | | CAS #: 75-71-8 | | |
| 5.931 | 5.955 (0.368) | 85 | 18084 | 0.20453 | 32.929 | 80.00- 120.00 | 100.00 |
| 5.979 | 5.955 (0.371) | 87 | 4821 | | | 2.47- 62.47 | 26.66 |
| 7 Chloromethane | | | | | CAS #: 74-87-3 | | |
| 7.715 | 7.691 (0.478) | 50 | 2716 | 0.20784 | 33.463 | 80.00- 120.00 | 100.00 |
| 7.691 | 7.691 (0.477) | 52 | 553 | | | 0.00- 30.00 | 20.36 |
| 18 Ethanol | | | | | CAS #: 64-17-5 | | |
| 12.324 | 12.324 (0.764) | 45 | 7603 | 1.56180 | 251.45 | 80.00- 120.00 | 100.00 |
| 12.324 | 12.324 (0.764) | 46 | 3064 | | | 0.00- 30.00 | 40.30 |
| 12.324 | 12.324 (0.764) | 43 | 2701 | | | 0.00- 30.00 | 35.53 |
| 22 Acetone | | | | | CAS #: 67-64-1 | | |
| 13.070 | 13.070 (0.810) | 58 | 59124 | 6.91425 | 1113.2 | 80.00- 120.00 | 100.00 |
| 13.070 | 13.070 (0.810) | 43 | 212765 | | | 0.00- 30.00 | 359.86 |
| 29 Methylene Chloride | | | | | CAS #: 75-09-2 | | |
| 13.885 | 13.885 (0.861) | 84 | 35990 | 3.40971 | 548.96 | 80.00- 120.00 | 100.00 |
| 13.885 | 13.885 (0.861) | 49 | 18483 | | | 0.00- 30.00 | 51.36 |
| 13.885 | 13.885 (0.861) | 51 | 10267 | | | 0.00- 30.00 | 28.53 |
| 35 Hexane | | | | | CAS #: 110-54-3 | | |
| 14.517 | 14.517 (0.900) | 57 | 42431 | 1.72109 | 277.10 | 80.00- 120.00 | 100.00 |
| 14.517 | 14.517 (0.900) | 43 | 22492 | | | 0.00- 30.00 | 53.01 |
| 14.517 | 14.517 (0.900) | 86 | 10036 | | | 0.00- 30.00 | 23.65 |
| 42 2-Butanone | | | | | CAS #: 78-93-3 | | |
| 15.766 | 15.766 (0.978) | 72 | 23561 | 1.51984 | 244.69 | 80.00- 120.00 | 100.00 |
| 15.766 | 15.766 (0.978) | 43 | 65619 | | | 0.00- 30.00 | 278.51 |
| 15.766 | 15.766 (0.978) | 57 | 7633 | | | 0.00- 30.00 | 32.40 |
| 48 Cyclohexane | | | | | CAS #: 110-82-7 | | |
| 16.466 | 16.467 (1.021) | 84 | 231903 | 6.98844 | 1125.1 | 80.00- 120.00 | 100.00 |
| 16.405 | 16.467 (1.017) | 56 | 533858 | | | 0.00- 30.00 | 230.21 |
| 16.405 | 16.467 (1.017) | 41 | 306510 | | | 0.00- 30.00 | 132.17 |

| RT | EXP RT (REL RT) | MASS | RESPONSE | CONCENTRATIONS ON-COL ( PPBV) | FINAL ( PPBV) | TARGET RANGE | RATIO |
|---|---|---|---|---|---|---|---|
| 53 Benzene | | | | | CAS #: 71-43-2 | | |
| 17.013 | 17.013 (0.967) | 78 | 13798 | 0.17461 | 28.112 | 80.00- 120.00 | 100.00 |
| 17.013 | 17.013 (0.967) | 77 | 4555 | | | 0.00- 30.00 | 33.01 |
| 68 Toluene | | | | | CAS #: 108-88-3 | | |
| 20.525 | 20.502 (1.167) | 91 | 14877 | 0.15777 | 25.401 | 80.00- 120.00 | 100.00 |
| 20.502 | 20.502 (1.166) | 92 | 9259 | | | 0.00- 30.00 | 62.24 |
| 80 m,p-Xylene | | | | | CAS #: 108-38-3 | | |
| 23.189 | 23.190 (1.012) | 106 | 4792 | 0.10416 | 16.770 | 80.00- 120.00 | 100.00 |
| 23.189 | 23.190 (1.012) | 91 | 17199 | | | 0.00- 30.00 | 358.91 |
| 45 2,3-Dimethylpentane | | | | | CAS #: 565-59-3 | | |
| 16.405 | 16.405 (1.017) | 71 | 164777 | 11.3668 | 1830.0 | 80.00- 120.00 | 100.00 |
| 16.405 | 16.405 (1.017) | 56 | 539334 | | | 0.00- 30.00 | 327.31 |
| 16.405 | 16.405 (1.017) | 43 | 208706 | | | 0.00- 30.00 | 126.66 |
| 24 2-Methylpentane | | | | | CAS #: 107-83-5 | | |
| 13.692 | 13.692 (0.849) | 71 | 391249 | 25.0015 | 4025.2 | 80.00- 120.00 | 100.00 |
| 13.692 | 13.692 (0.849) | 43 | 533652 | | | 0.00- 30.00 | 136.40 |
| 13.692 | 13.692 (0.849) | 42 | 245118 | | | 0.00- 30.00 | 62.65 |
| 14 Isopentane | | | | | CAS #: 78-78-4 | | |
| 10.852 | 10.852 (0.673) | 57 | 342848 | 24.6993 | 3976.6 | 80.00- 120.00 | 100.00 |
| 10.852 | 10.852 (0.673) | 43 | 362606 | | | 0.00- 30.00 | 105.76 |
| 10.852 | 10.852 (0.673) | 42 | 305750 | | | 0.00- 30.00 | 89.18 |

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
R - Spike/Surrogate failed recovery limits.

Air Toxics Ltd.

EPA TO-15/Modified TO14A

Data file : /chem/msde.i/20Mar2012.b/e032010.d
Lab Smp Id: 1202444-03A
Inj Date : 20-MAR-2012 17:17
Operator : sac Inst ID: msde.i
Smp Info : 200mL #35287
Misc Info : 5.0"Hg - 5psi (80x can)
Comment : Low-Level/GC-MS
Method : /chem/msde.i/20Mar2012.b/e12l0308c.m
Meth Date : 21-Mar-2012 06:46 croush Quant Type: ISTD
Cal Date : 16-MAR-2012 11:53 Cal File: e031607.d
Als bottle: 26
Dil Factor: 161.00000
Integrator: HP RTE Compound Sublist: PAR16136.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

| Name | Value | Description |
|---|---|---|
| DF | 161.00000 | Dilution Factor |

| ISTD | RT | AREA | AMOUNT |
|---|---|---|---|
| * 46 Bromochloromethane | 16.127 | 704267 | 5.000 |
| * 58 1,4-Difluorobenzene | 17.586 | 1064789 | 5.000 |
| * 75 Chlorobenzene-d5 | 22.924 | 2317261 | 5.000 |

| | CONCENTRATIONS | | | | QUANT | | |
|---|---|---|---|---|---|---|---|
| RT | AREA | ON-COL( PPBV) | FINAL( PPBV) | QUAL | LIBRARY | LIB ENTRY | CPND # |
| Propane | | | | | CAS #: 74-98-6 | | |
| 5.497 | 2892686 | 20.5368449 | 3306.4 | 9 | NBS54K.l | 39 | 46(L) |
| Propane, 2-methyl- | | | | | CAS #: 75-28-5 | | |
| 7.233 | 4112635 | 29.1979660 | 4700.9 | 42 | NBS54K.l | 97 | 46(L) |

| RT | AREA | ON-COL( PPBV) | FINAL( PPBV) | QUAL | LIBRARY | LIB ENTRY | CPND # |
|---|---|---|---|---|---|---|---|
| Pentane, 3-methyl- | | | | CAS #: 96-14-0 | | | |
| 14.105 | 1699754 | 12.0675335 | 1942.9 | 90 | NBS54K.l | 685 | 46 |
| Heptane, 3,3,4-trimethyl- | | | | CAS #: 20278-87-9 | | | |
| 16.528 | 2377363 | 16.8782695 | 2717.4 | 36 | NBS54K.l | 6991 | 46(L) |
| Heptanol | | | | CAS #: 53535-33-4 | | | |
| 16.925 | 2077662 | 9.75621584 | 1570.8 | 64 | NBS54K.l | 2985 | 58(L) |
| Cyclopentane, 1,2-dimethyl-, cis- | | | | CAS #: 1192-18-3 | | | |
| 18.190 | 2558182 | 12.0126229 | 1934.0 | 58 | NBS54K.l | 1244 | 58 |
| Furan, 2-methoxy- | | | | CAS #: 25414-22-6 | | | |
| 18.272 | 3132190 | 14.7080288 | 2368.0 | 64 | NBS54K.l | 1107 | 58 |
| Pentane, 3-ethyl-2-methyl- | | | | CAS #: 609-26-7 | | | |
| 19.261 | 3206527 | 15.0570976 | 2424.2 | 64 | NBS54K.l | 2755 | 58 |
| Cyclohexane, 1,3-dimethyl-, trans- | | | | CAS #: 2207-03-6 | | | |
| 20.144 | 3353186 | 15.7457759 | 2535.1 | 83 | NBS54K.l | 2387 | 58(L) |
| Cyclohexane, 1,3,5-trimethyl- | | | | CAS #: 1839-63-0 | | | |
| 21.985 | 5046938 | 10.8898741 | 1753.3 | 64 | NBS54K.l | 4076 | 75 |

## QC Flag Legend

L - Operator selected an alternate library search match.

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msde.i
Lab File ID: e032010.d
Lab Smp Id: 1202444-03A
Analysis Type: VOA
Quant Type: ISTD
Operator: sac
Method File: /chem/msde.i/20Mar2012.b/e12l0308c.m
Misc Info: 5.0"Hg - 5psi (80x can)

Calibration Date: 20-MAR-2012
Calibration Time: 10:17
Level: LOW
Sample Type: AIR

| | | AREA LIMIT | | | |
|---|---|---|---|---|---|
| COMPOUND | STANDARD | LOWER | UPPER | SAMPLE | %DIFF |
| 46 Bromochloromethan | 103496 | 62098 | 144894 | 75662 | -26.89 |
| 58 1,4-Difluorobenze | 407788 | 244673 | 570903 | 308054 | -24.46 |
| 75 Chlorobenzene-d5 | 335497 | 201298 | 469696 | 274598 | -18.15 |

| | | RT LIMIT | | | |
|---|---|---|---|---|---|
| COMPOUND | STANDARD | LOWER | UPPER | SAMPLE | %DIFF |
| 46 Bromochloromethan | 16.13 | 15.80 | 16.46 | 16.13 | 0.00 |
| 58 1,4-Difluorobenze | 17.59 | 17.26 | 17.92 | 17.59 | 0.00 |
| 75 Chlorobenzene-d5 | 22.92 | 22.59 | 23.25 | 22.92 | 0.00 |

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Report Date: 21-Mar-2012 11:58

Air Toxics Ltd.

RECOVERY REPORT

Client Name: Client SDG: 20Mar2012
Sample Matrix: GAS Fraction: VOA
Lab Smp Id: 1202444-03A
Level: LOW Operator: sac
Data Type: MS DATA SampleType: SAMPLE
SpikeList File: AT09.spk Quant Type: ISTD
Sublist File: PAR16136.sub
Method File: /chem/msde.i/20Mar2012.b/e12l0308c.m
Misc Info: 5.0"Hg - 5psi (80x can)

| SURROGATE COMPOUND | CONC ADDED PPBV | CONC RECOVERED PPBV | % RECOVERED | LIMITS |
|---|---|---|---|---|
| $ 54 1,2-Dichloroethane | 5.000 | 7.714 | 154.29* | 70-130 |
| $ 67 Toluene-d8 | 5.000 | 5.153 | 103.06 | 70-130 |
| $ 87 Bromofluorobenzene | 5.000 | 5.273 | 105.47 | 70-130 |

l

Data File: /chem/msde.i/20Mar2012.b/e032010.d



Date : 20-MAR-2012 17:17

Client ID:

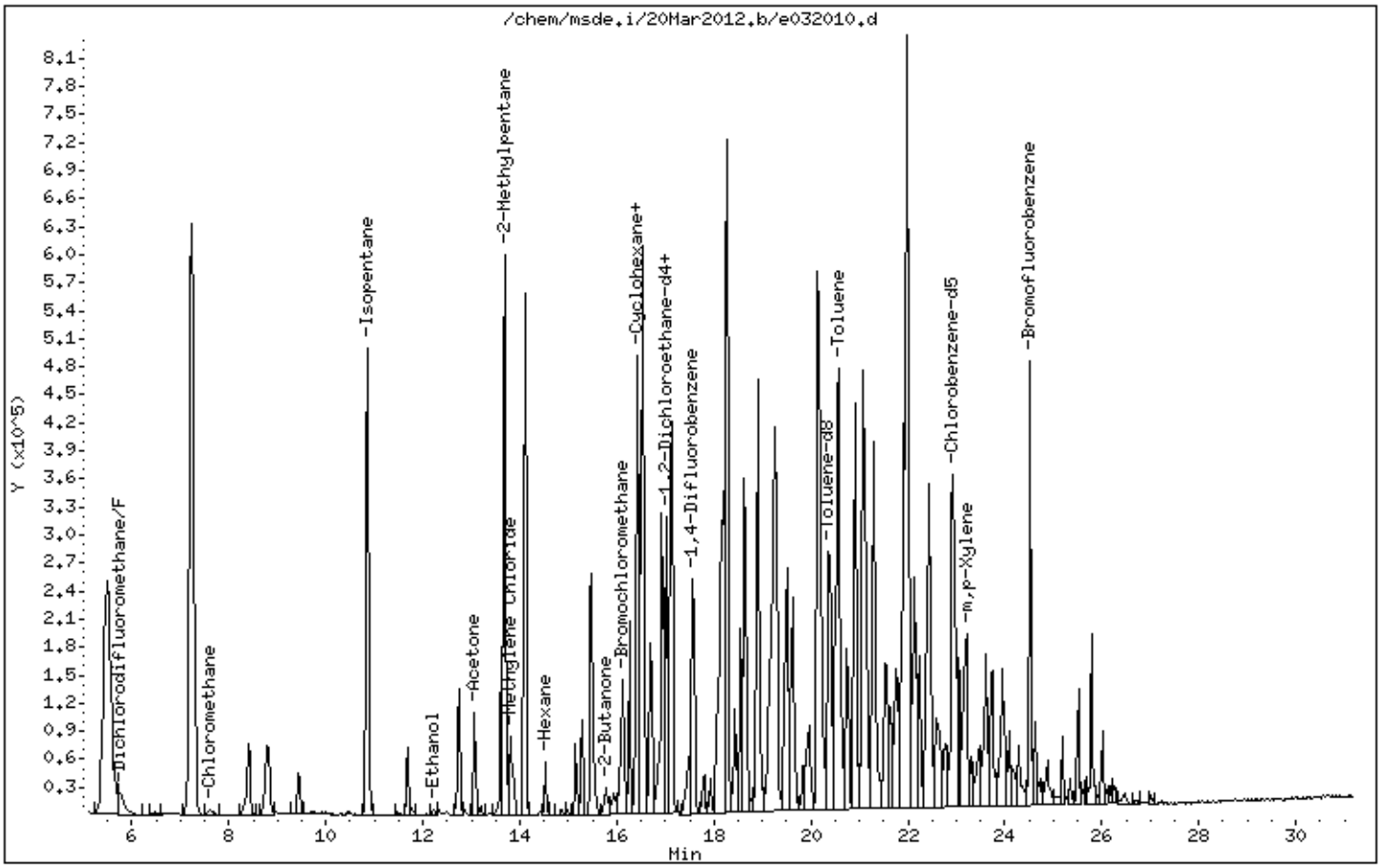
Instrument: msde.i

Sample Info: 200mL #35287

Operator: sac

Column phase: RTx-624

Column diameter: 0.32



Data File: /chem/msde.i/20Mar2012.b/e032010.d

Date : 20-MAR-2012 17:17

Client ID:

Instrument: msde.i

Sample Info: 200mL #35287

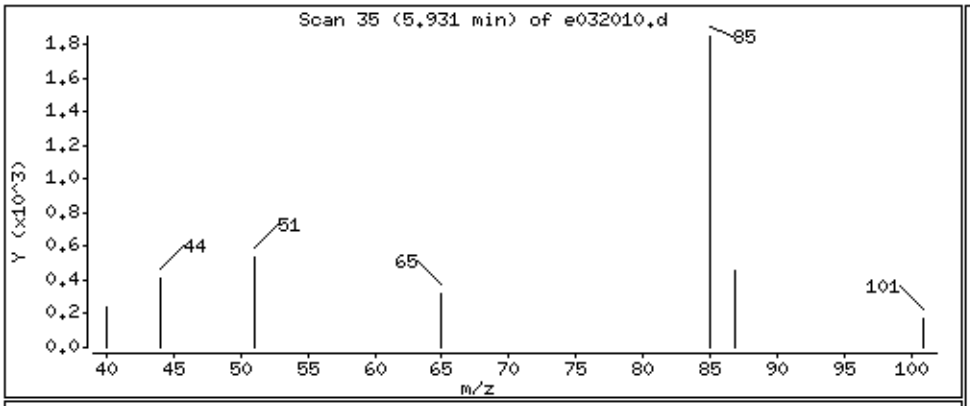
Operator: sac

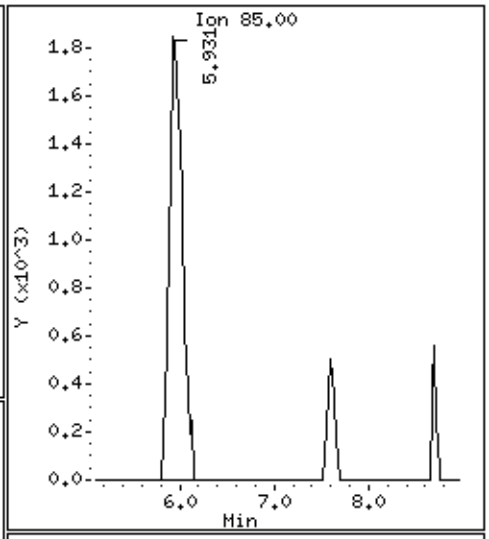
Column phase: RTx-624

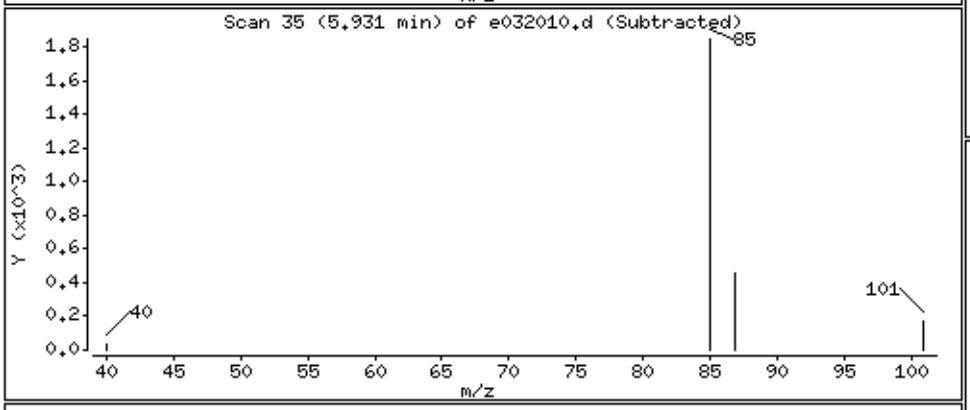
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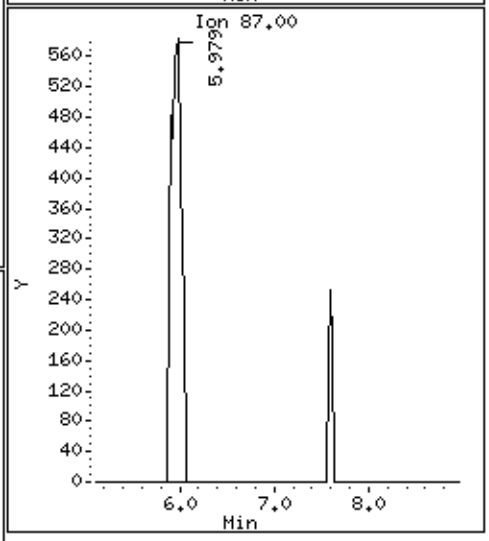
4 Dichlorodifluoromethane/Fr12

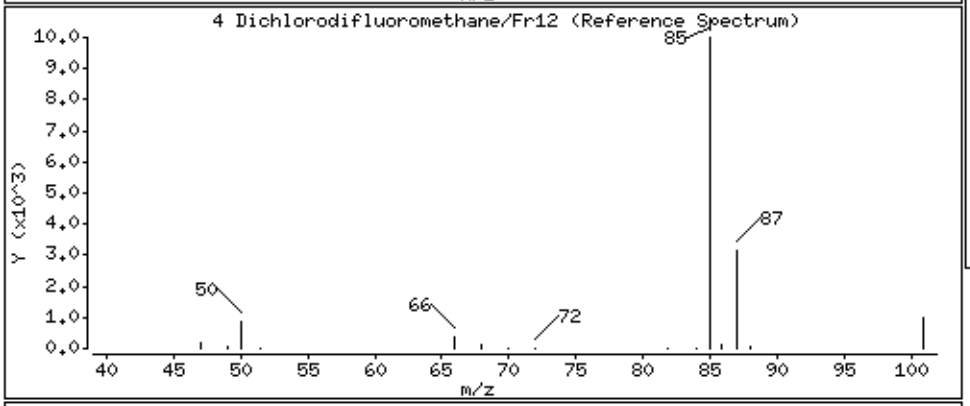
Concentration: 32.929 PPBV

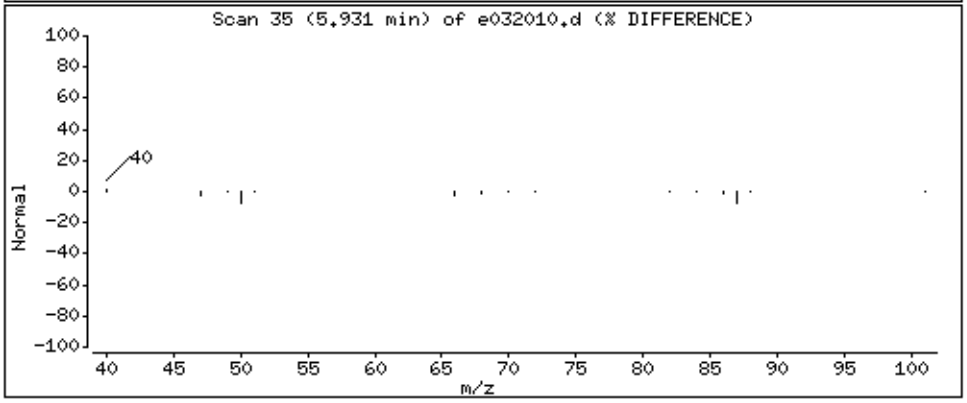


Data File: /chem/msde.i/20Mar2012.b/e032010.d

Date : 20-MAR-2012 17:17

Client ID:

Instrument: msde.i

Sample Info: 200mL #35287

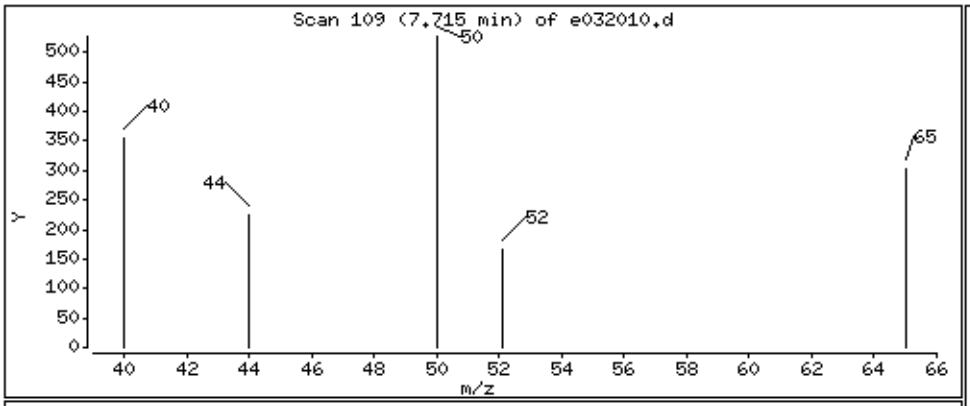
Operator: sac

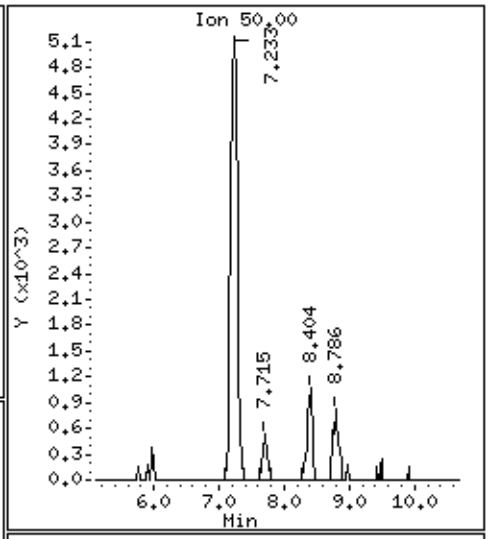
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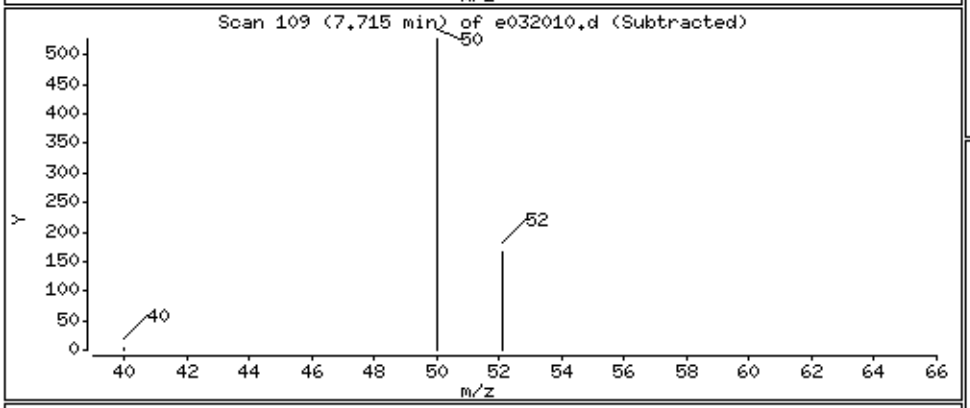
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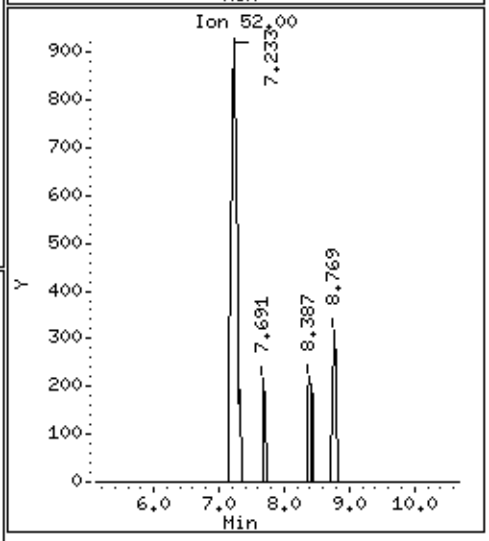
7 Chloromethane

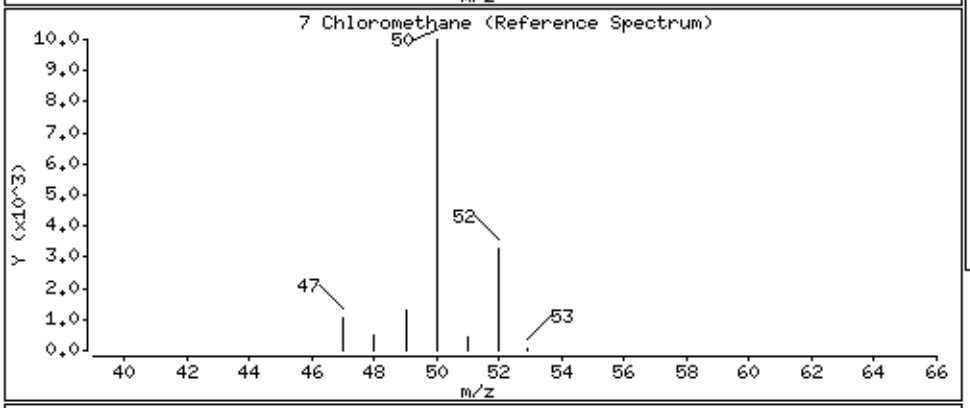
Concentration: 33.463 PPBV

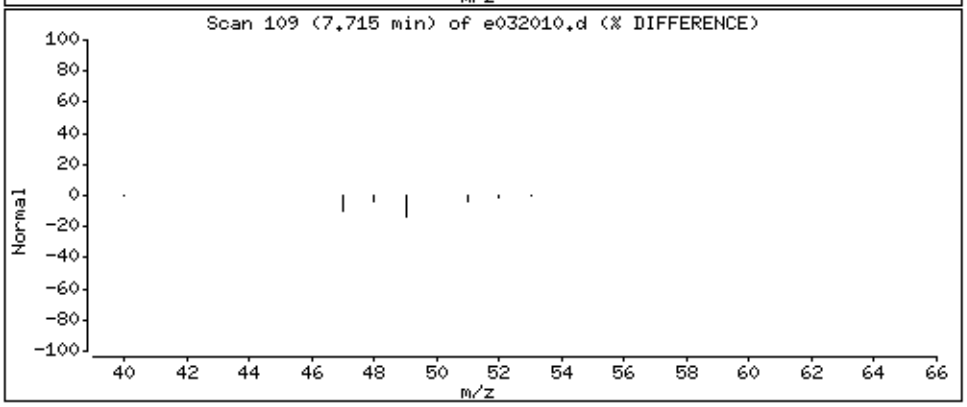


Data File: /chem/msde.i/20Mar2012.b/e032010.d

Date : 20-MAR-2012 17:17

Client ID:

Instrument: msde.i

Sample Info: 200mL #35287

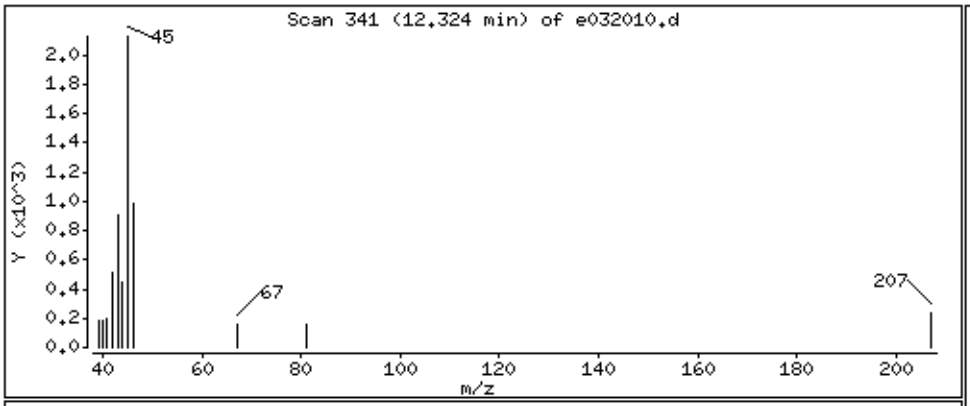
Operator: sac

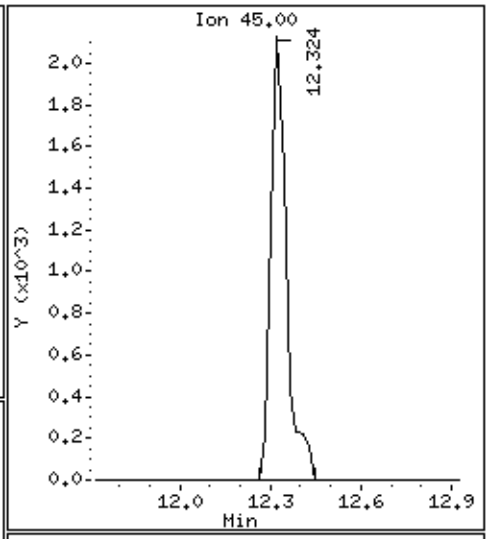
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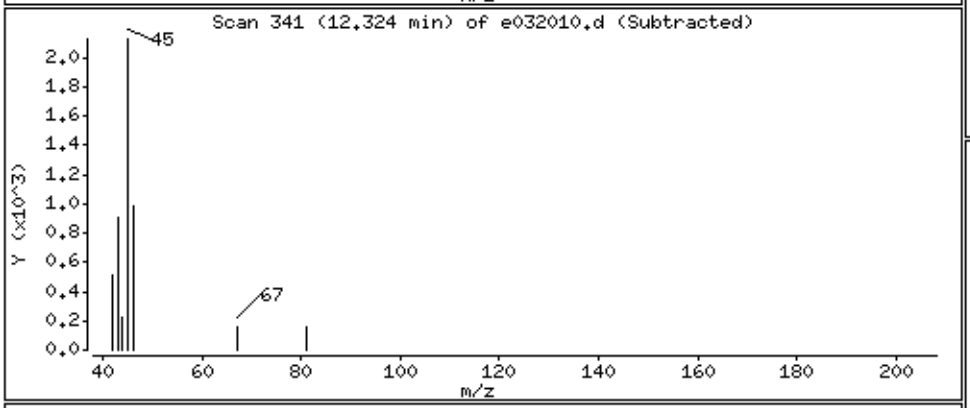
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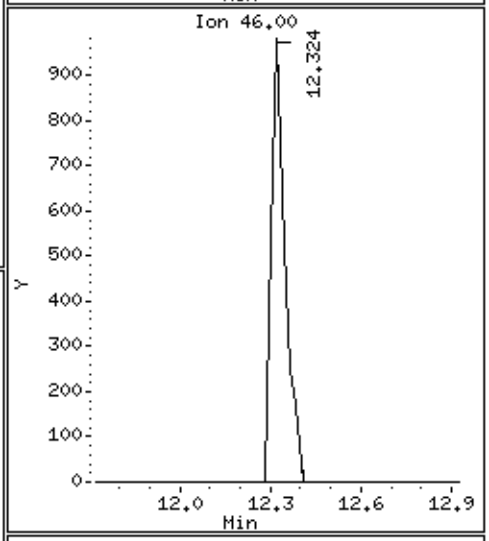
18 Ethanol

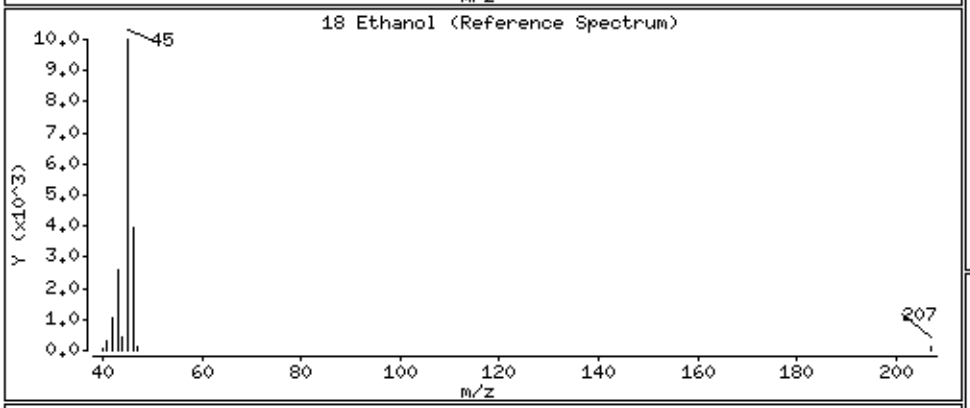
Concentration: 251.45 PPBV

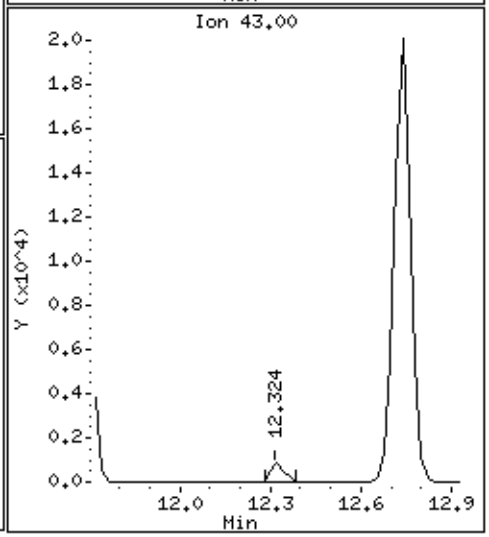


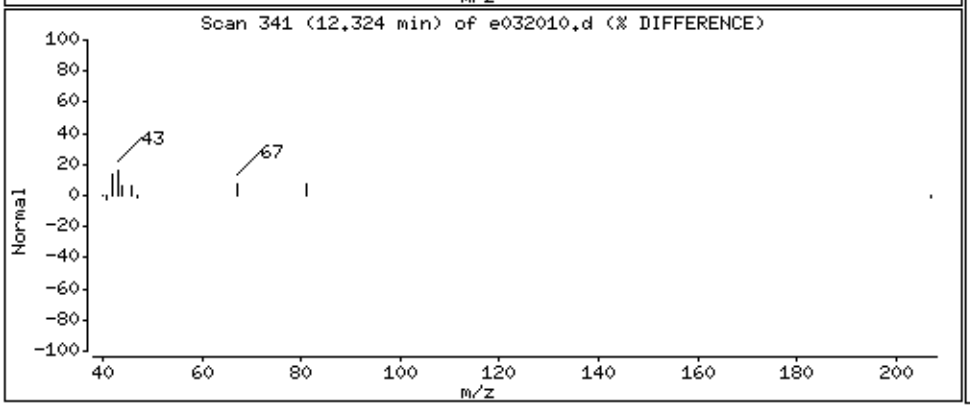



Data File: /chem/msde.i/20Mar2012.b/e032010.d

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Client ID:

Instrument: msde.i

Sample Info: 200mL #35287

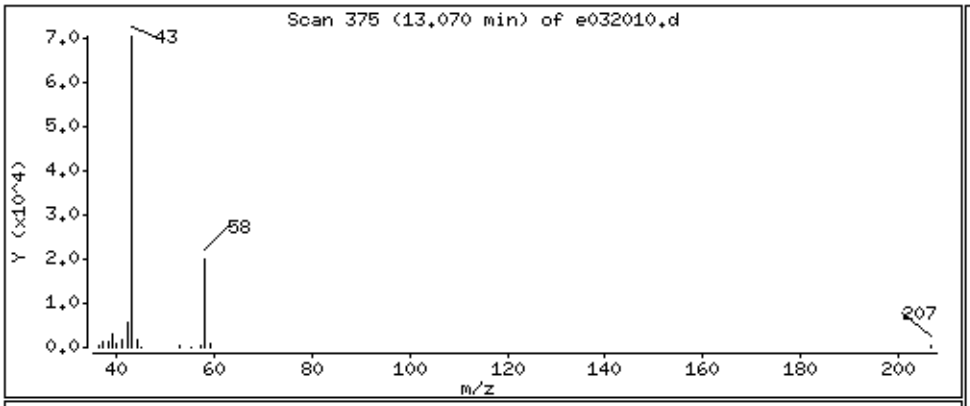
Operator: sac

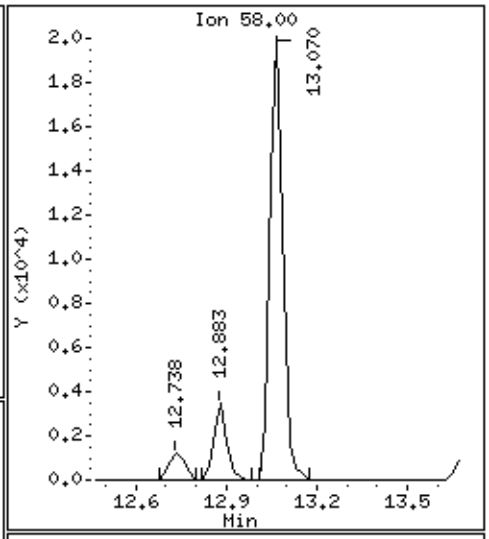
Column phase: RTx-624

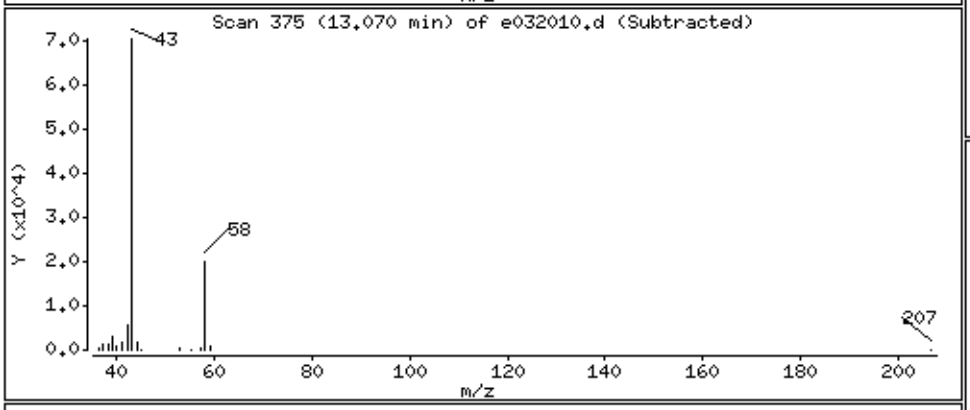
Column diameter: 0.32

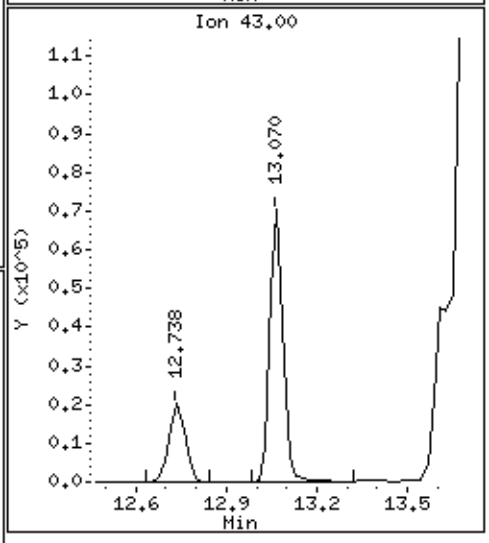
22 Acetone

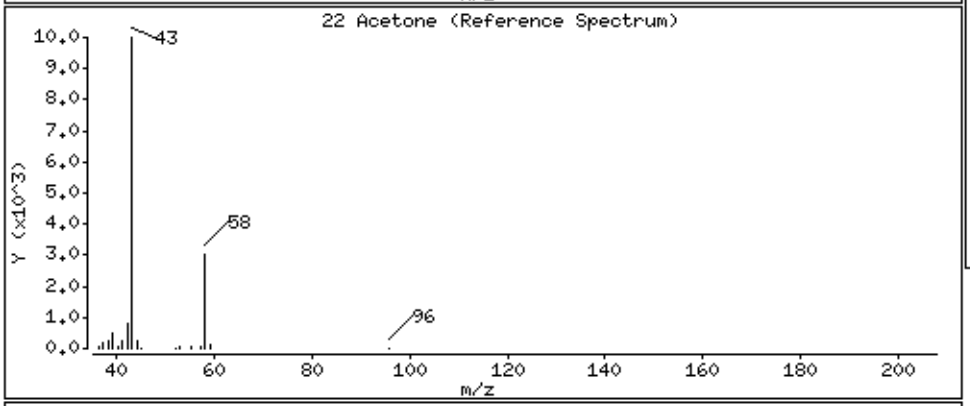
Concentration: 1113.2 PPBV

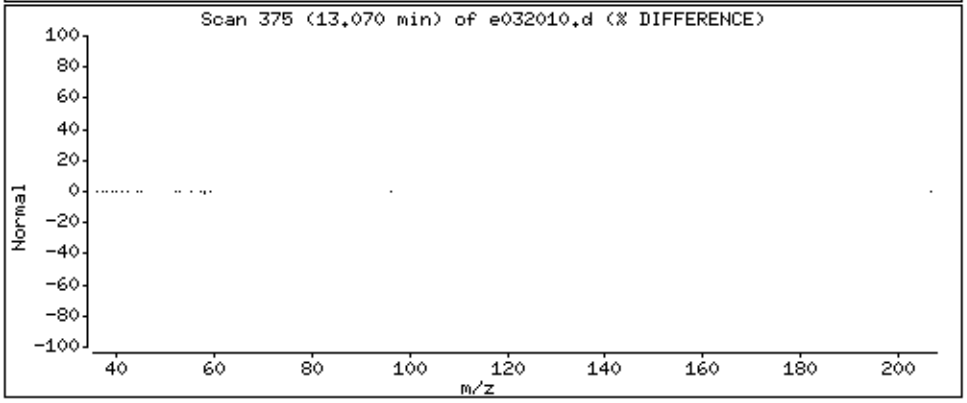


Data File: /chem/msde.i/20Mar2012.b/e032010.d

Date : 20-MAR-2012 17:17

Client ID:

Instrument: msde.i

Sample Info: 200mL #35287

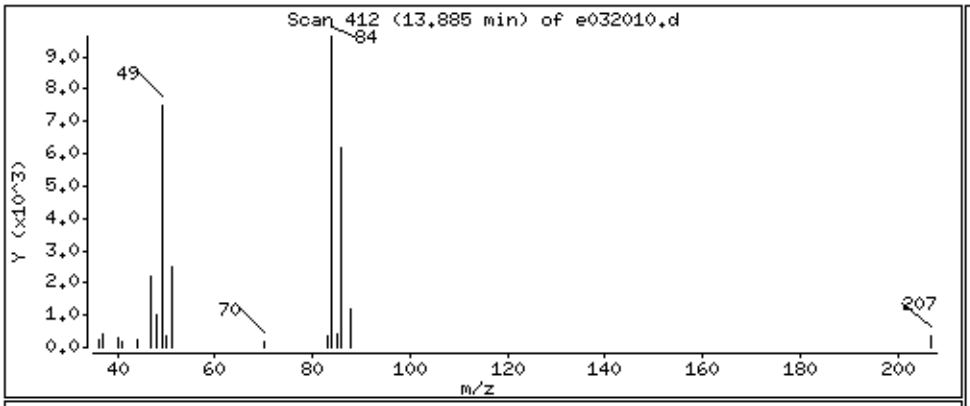
Operator: sac

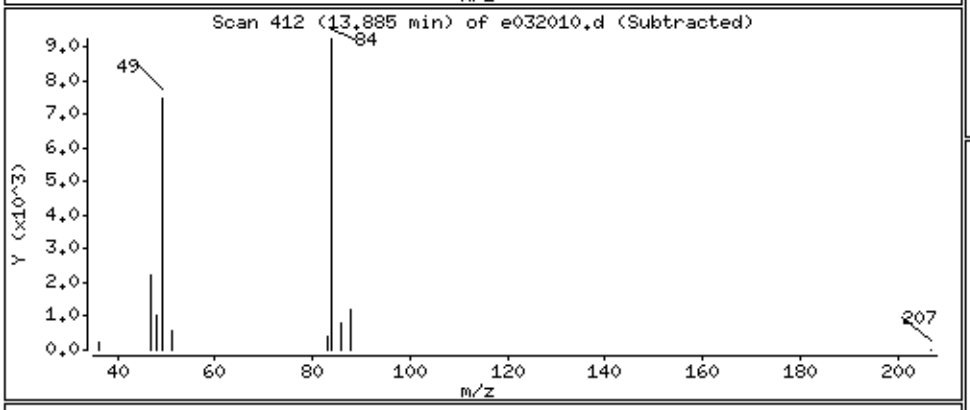
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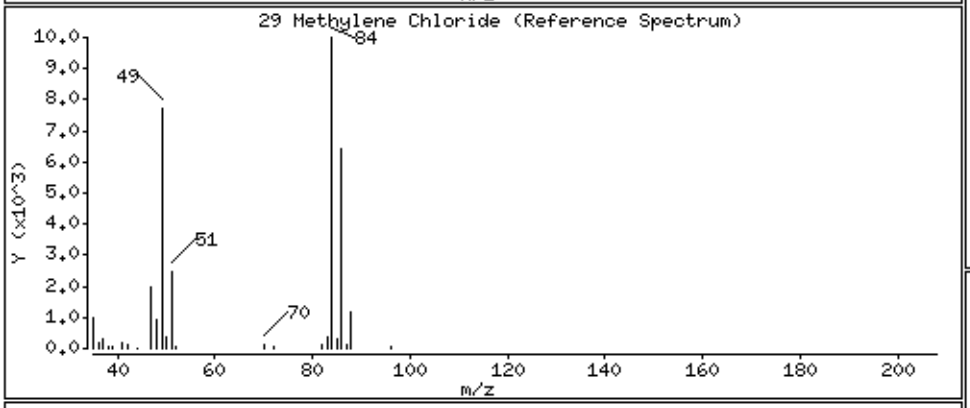
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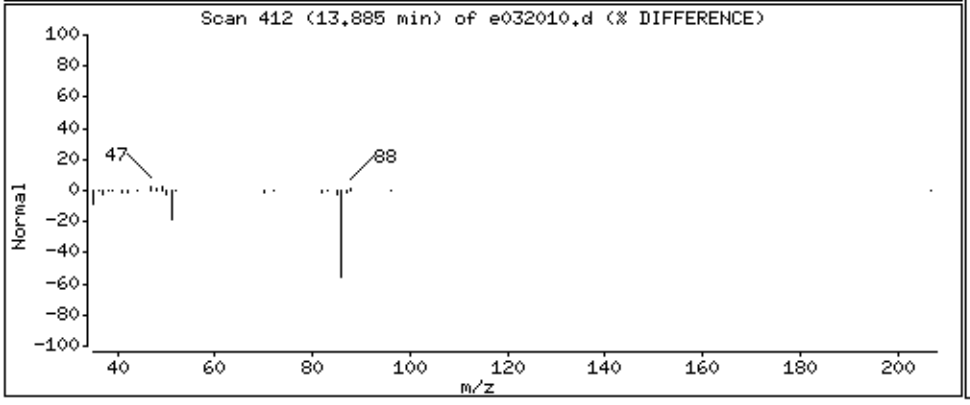
29 Methylene Chloride

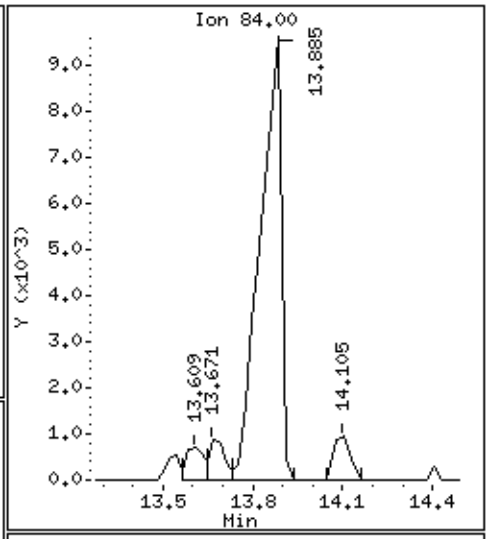
Concentration: 548.96 PPBV

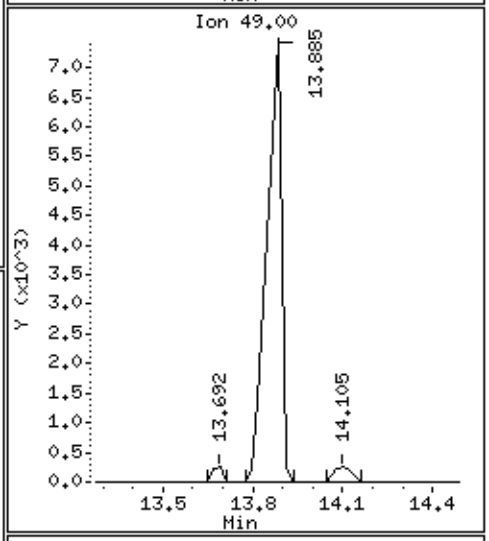


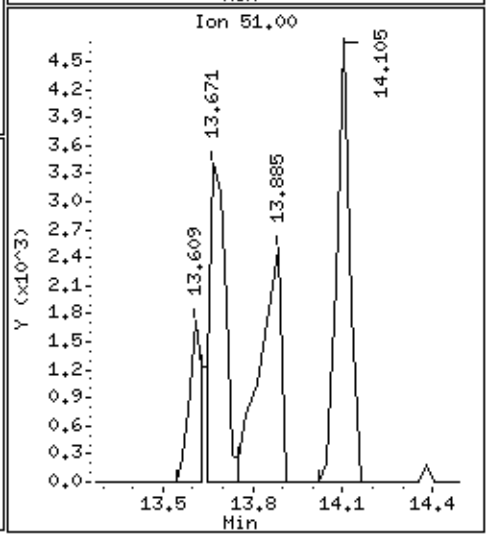



Data File: /chem/msde.i/20Mar2012.b/e032010.d

Date : 20-MAR-2012 17:17

Client ID:

Instrument: msde.i

Sample Info: 200mL #35287

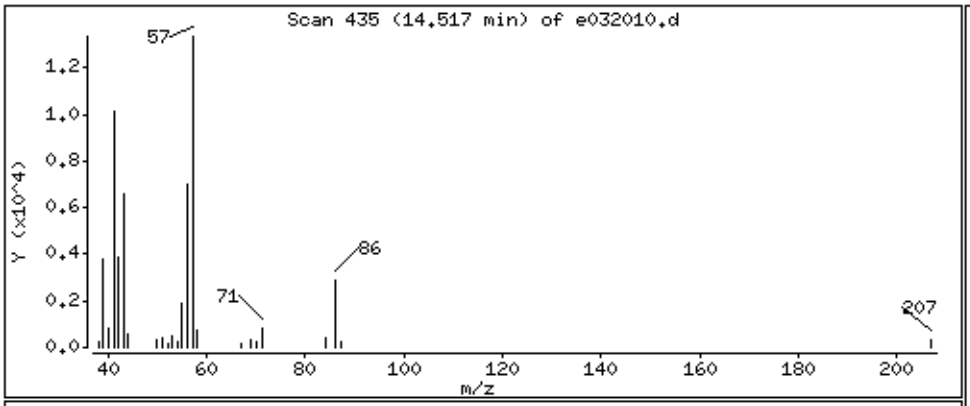
Operator: sac

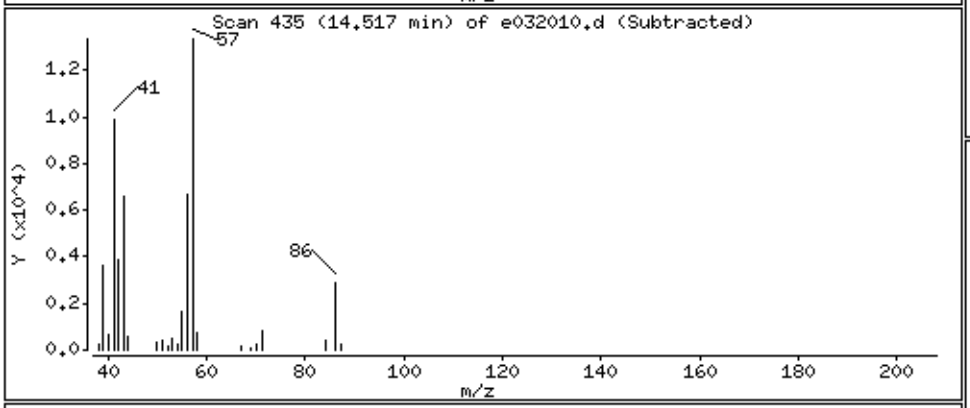
Column phase: RTx-624

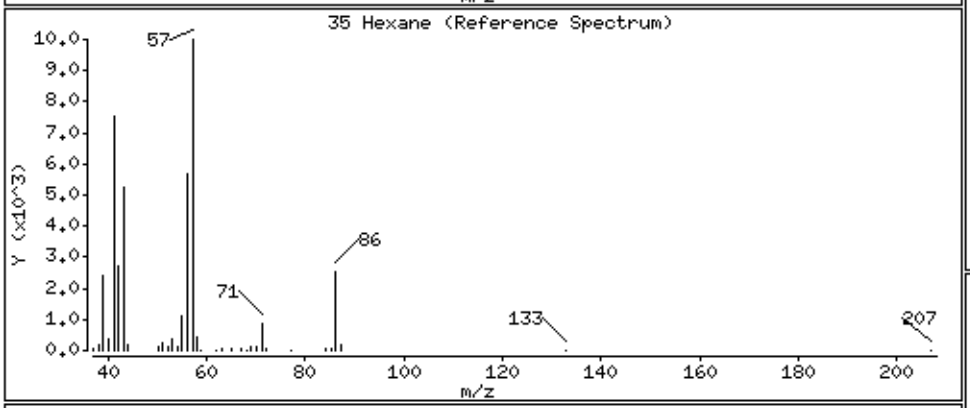
Column diameter: 0.32

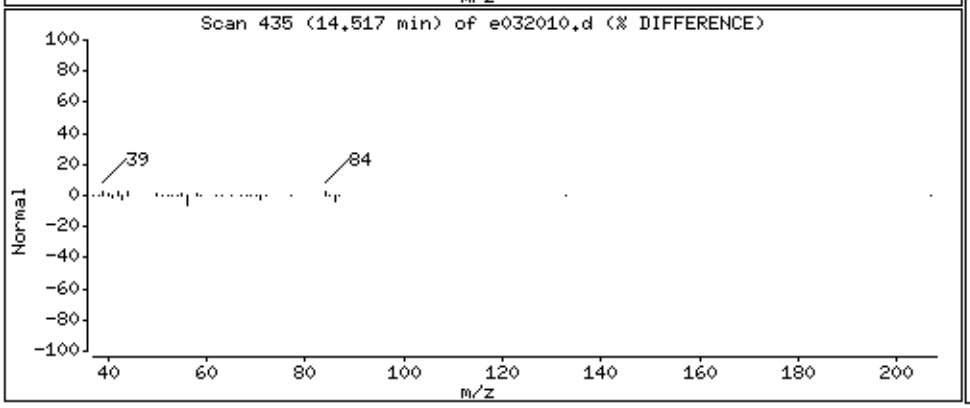
35 Hexane

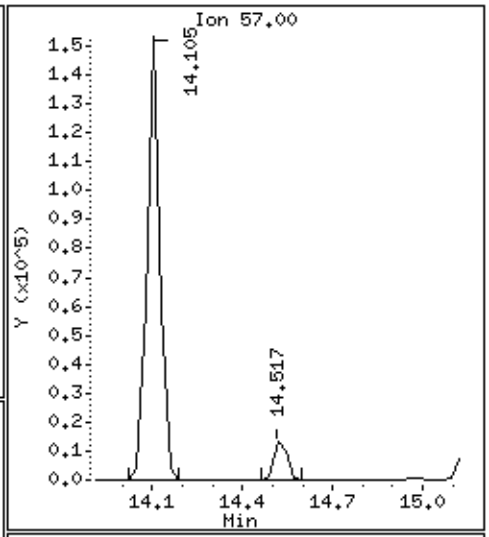
Concentration: 277.10 PPBV

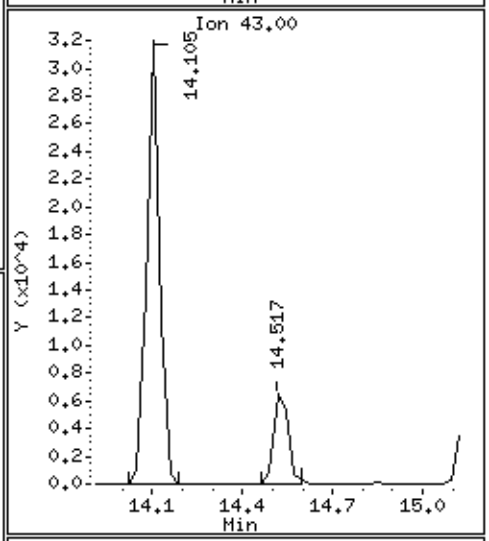


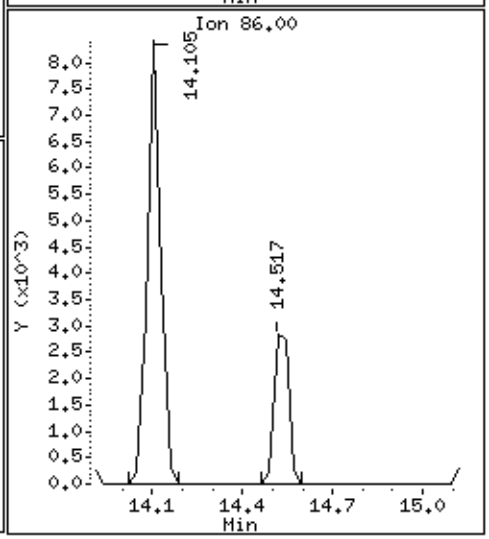



Data File: /chem/msde.i/20Mar2012.b/e032010.d

Date : 20-MAR-2012 17:17

Client ID:

Instrument: msde.i

Sample Info: 200mL #35287

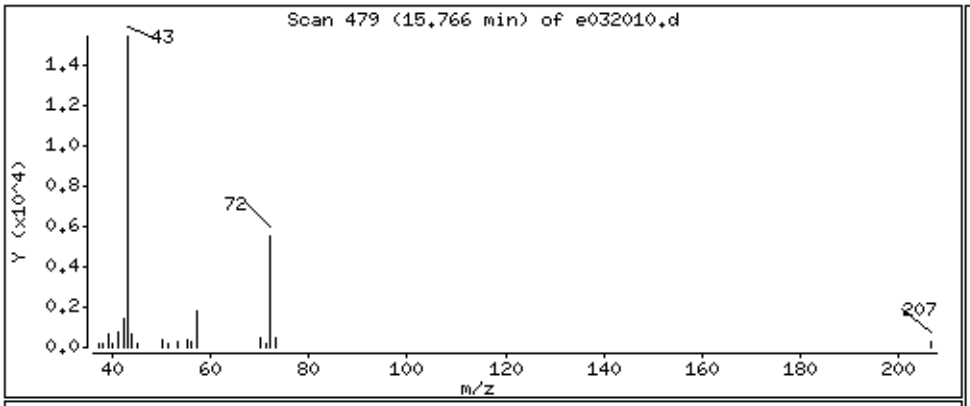
Operator: sac

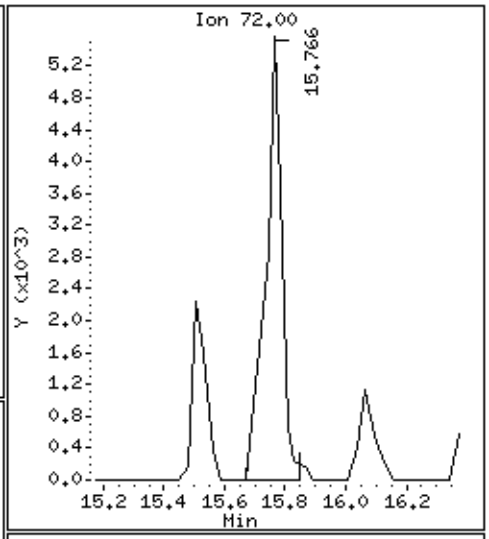
Column phase: RTx-624

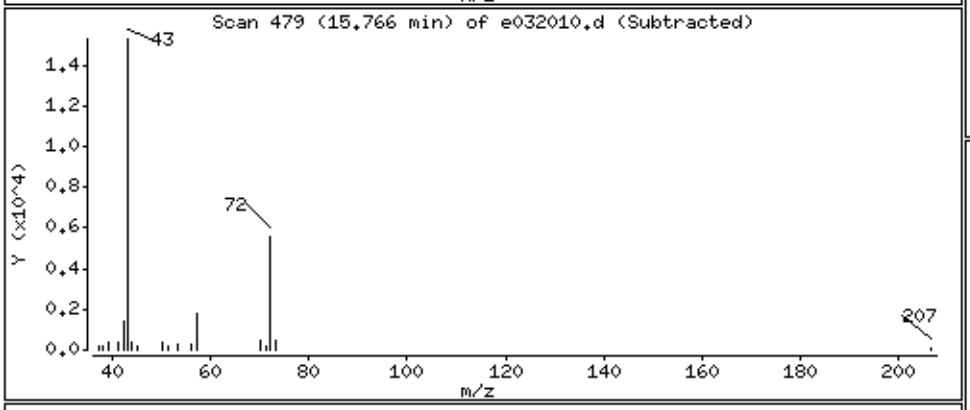
Column diameter: 0.32

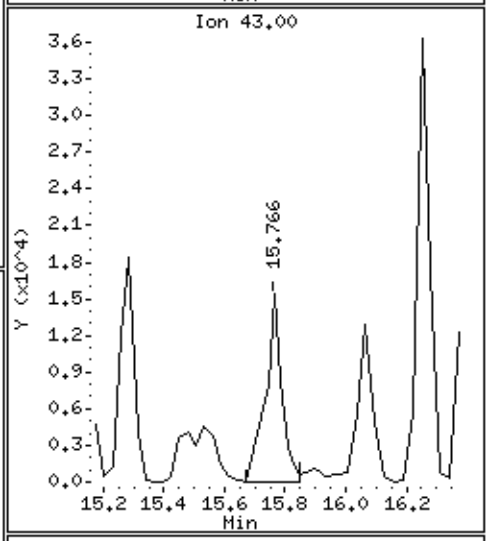
42 2-Butanone

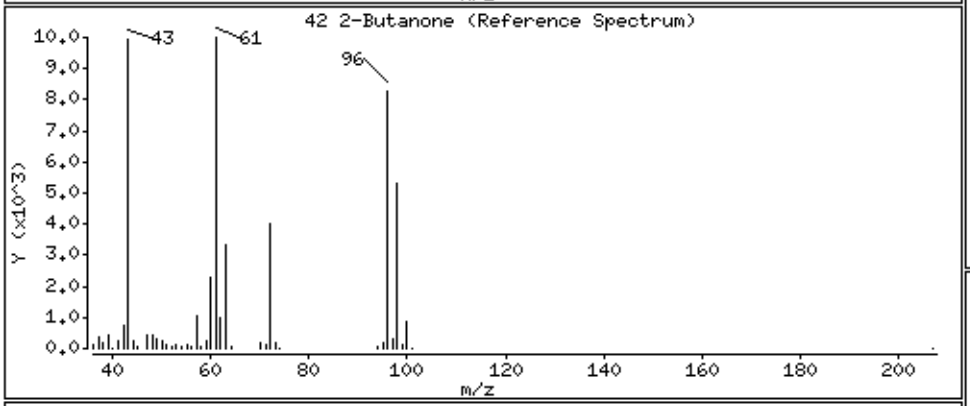
Concentration: 244.69 PPBV

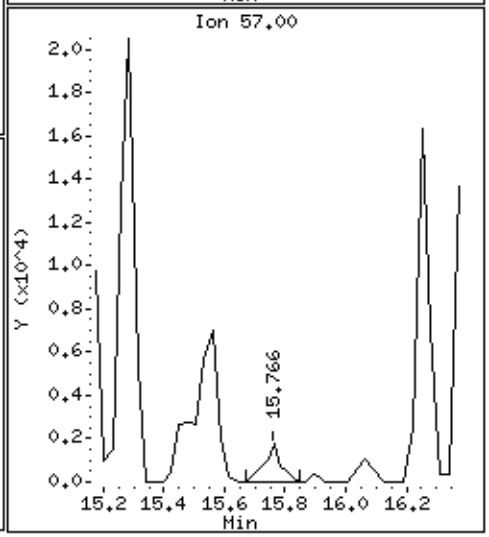


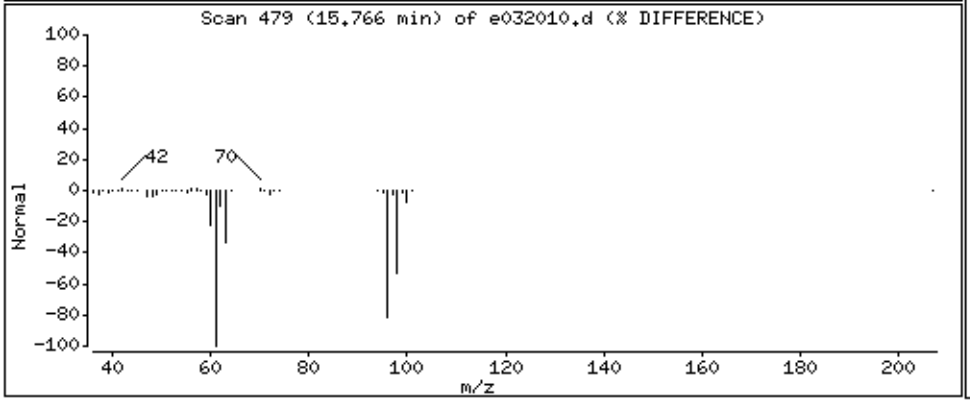



Data File: /chem/msde.i/20Mar2012.b/e032010.d

Date : 20-MAR-2012 17:17

Client ID:

Instrument: msde.i

Sample Info: 200mL #35287

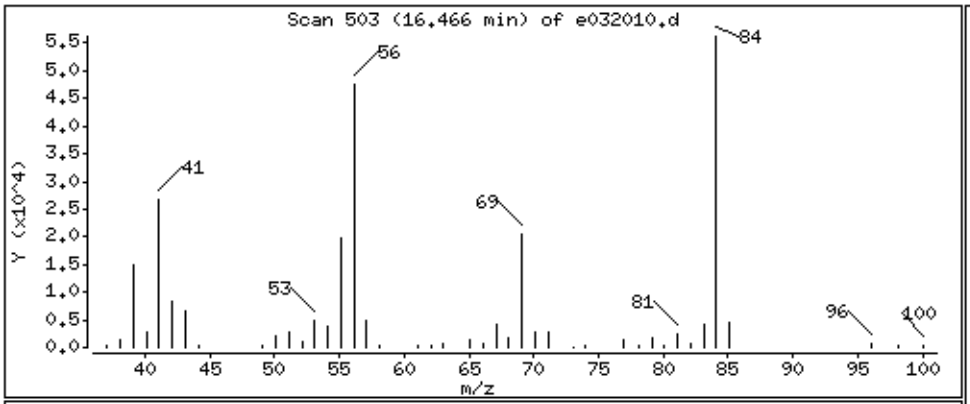
Operator: sac

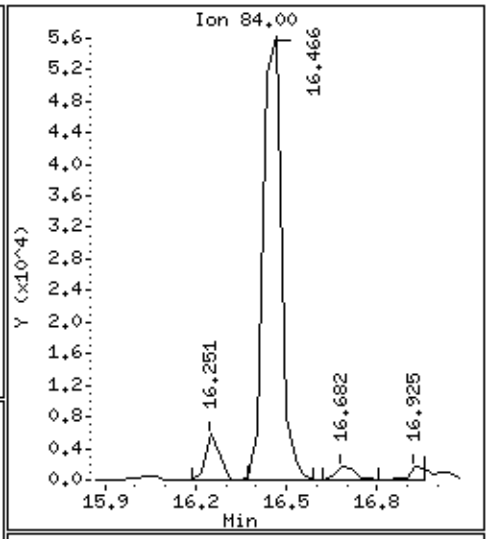
Column phase: RTx-624

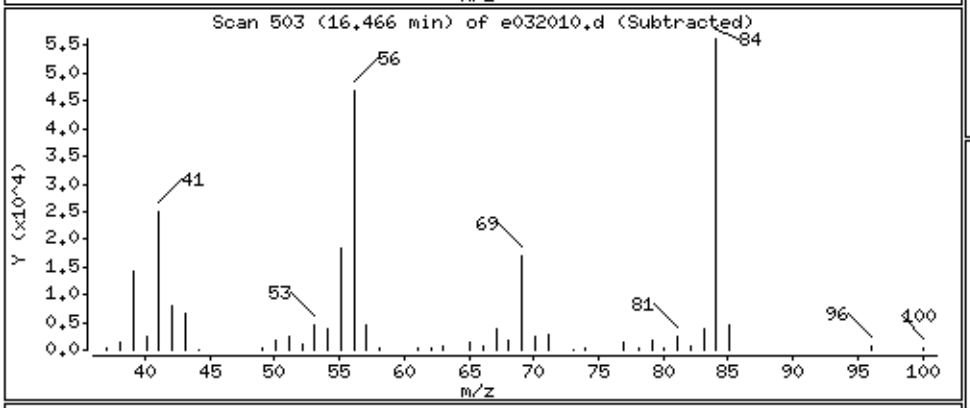
Column diameter: 0.32

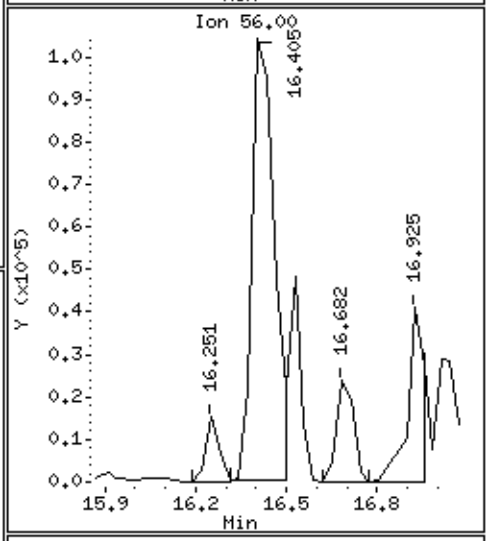
48 Cyclohexane

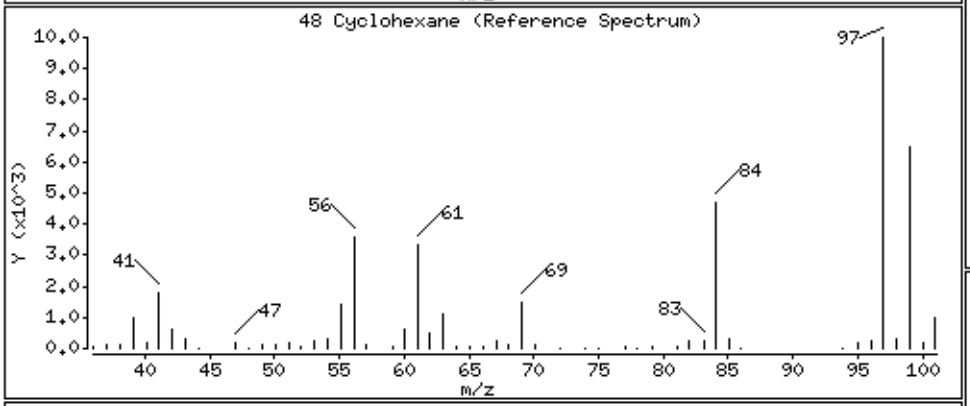
Concentration: 1125.1 PPBV

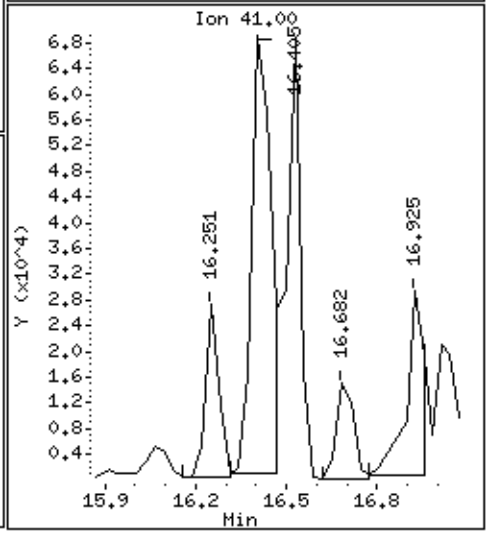


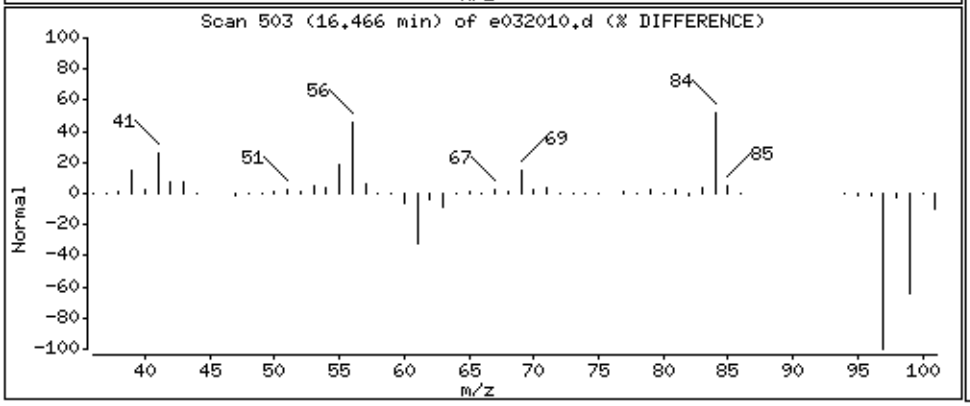



Data File: /chem/msde.i/20Mar2012.b/e032010.d

Date : 20-MAR-2012 17:17

Client ID:

Instrument: msde.i

Sample Info: 200mL #35287

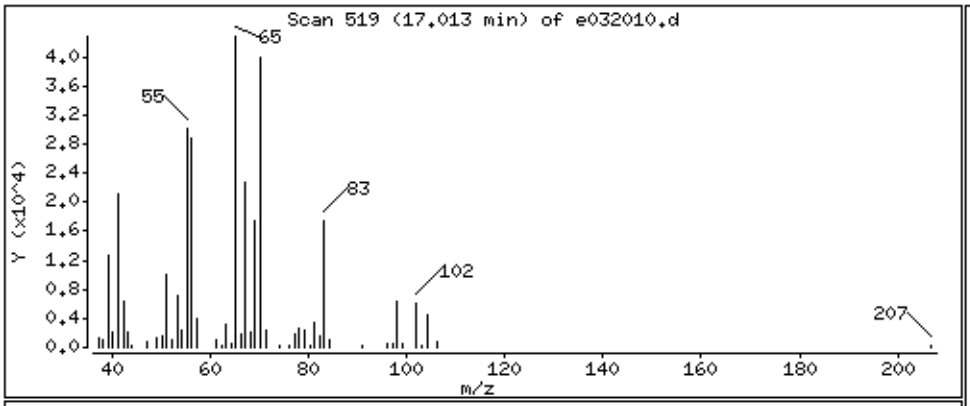
Operator: sac

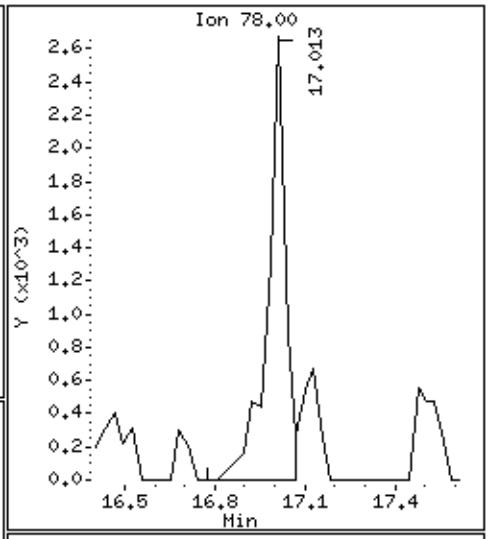
Column phase: RTx-624

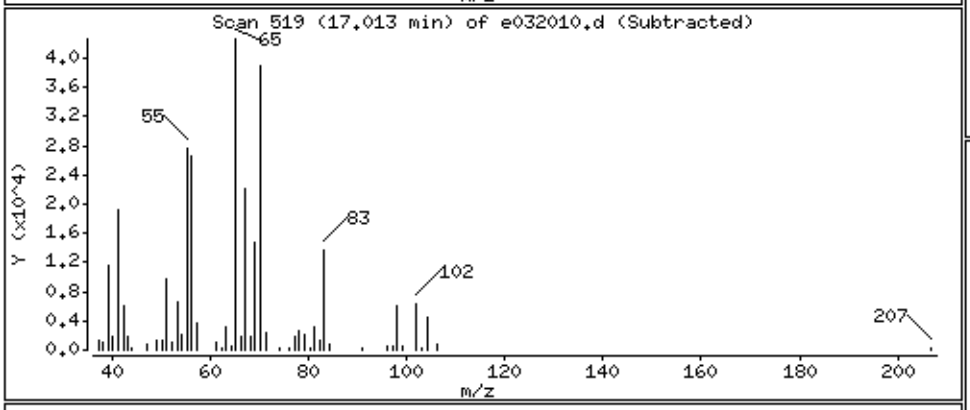
Column diameter: 0.32

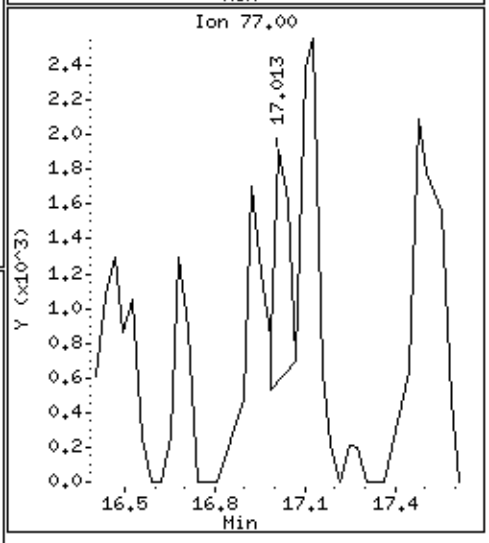
53 Benzene

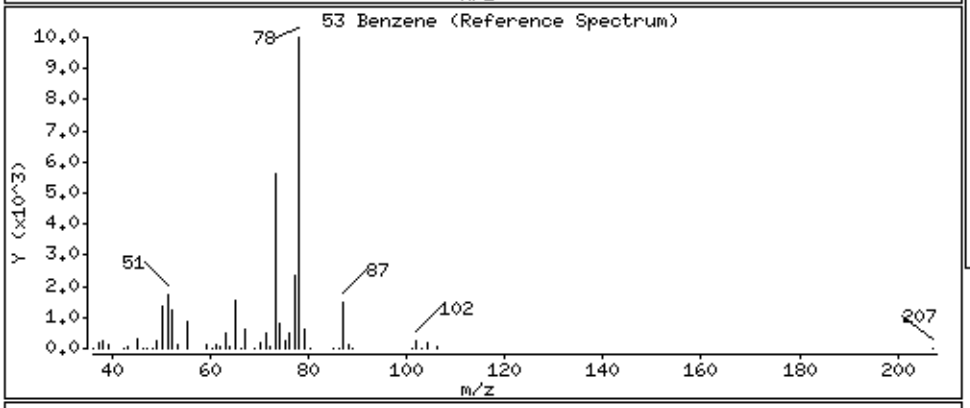
Concentration: 28.112 PPBV

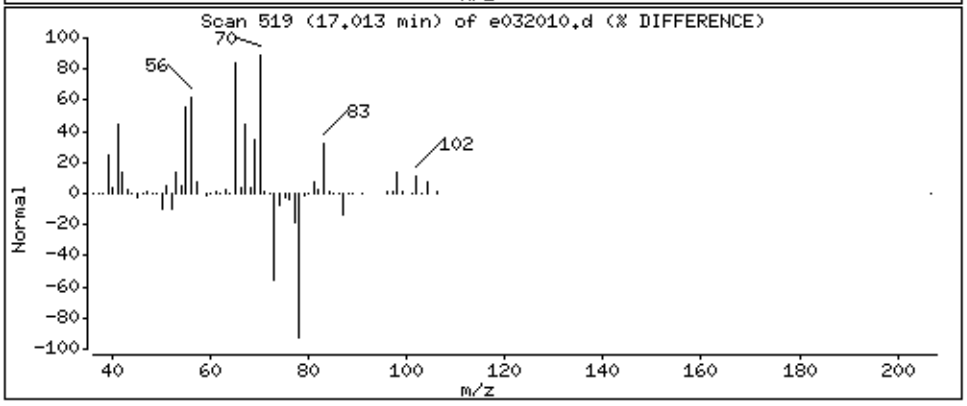


Data File: /chem/msde.i/20Mar2012.b/e032010.d

Date : 20-MAR-2012 17:17

Client ID:

Instrument: msde.i

Sample Info: 200mL #35287

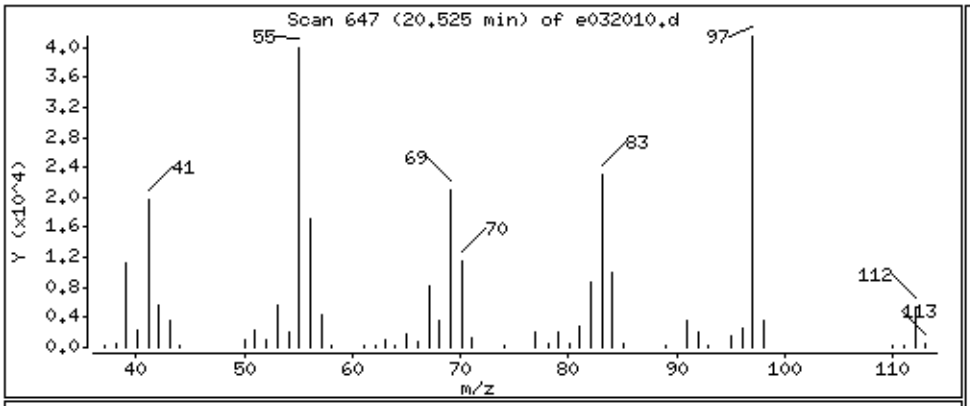
Operator: sac

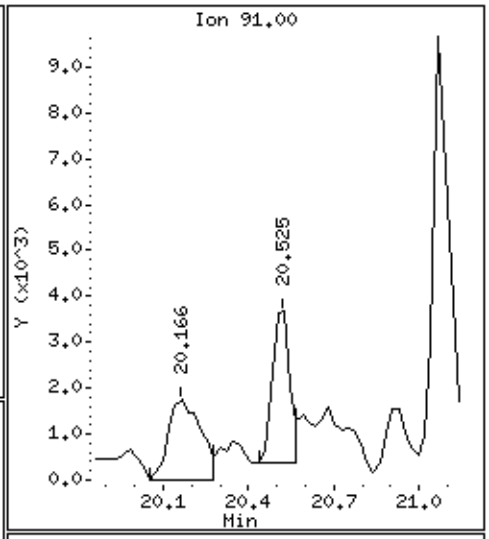
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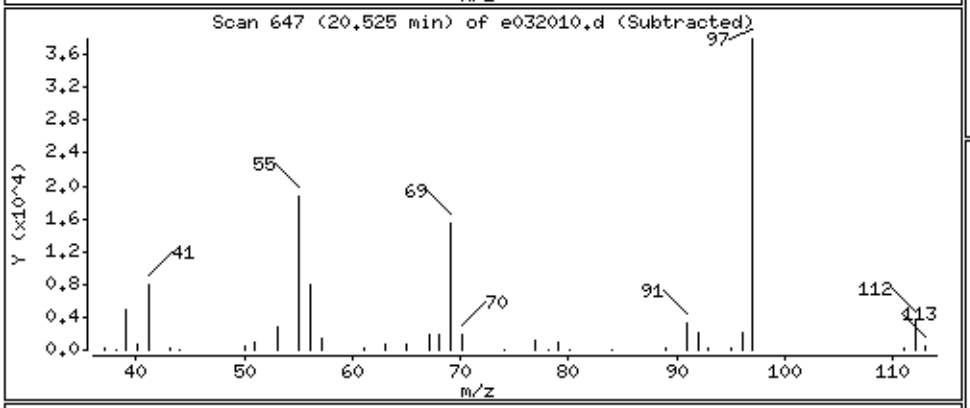
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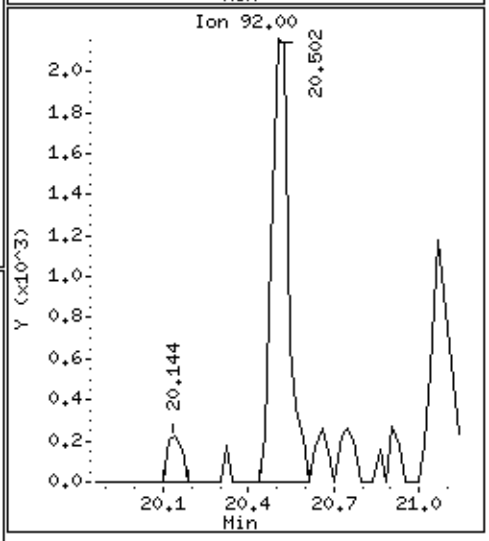
68 Toluene

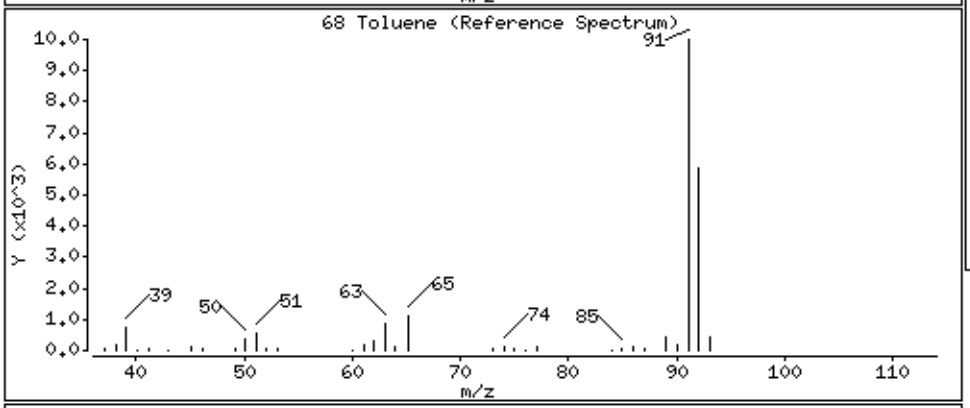
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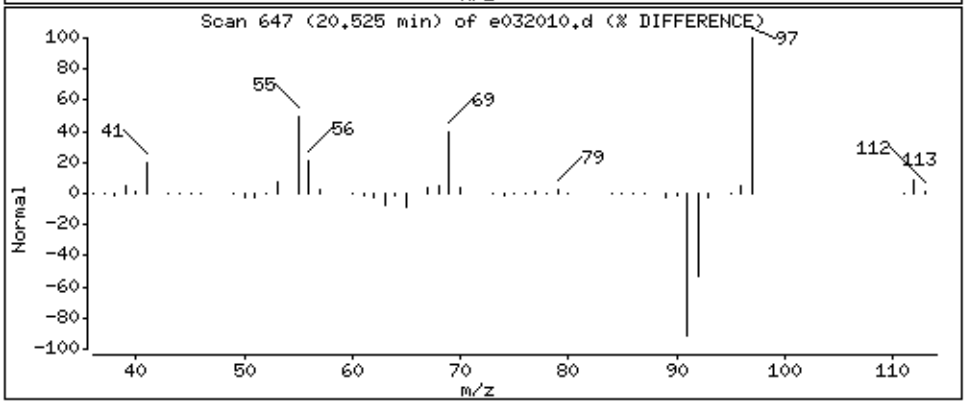


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Date : 20-MAR-2012 17:17

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Instrument: msde.i

Sample Info: 200mL #35287

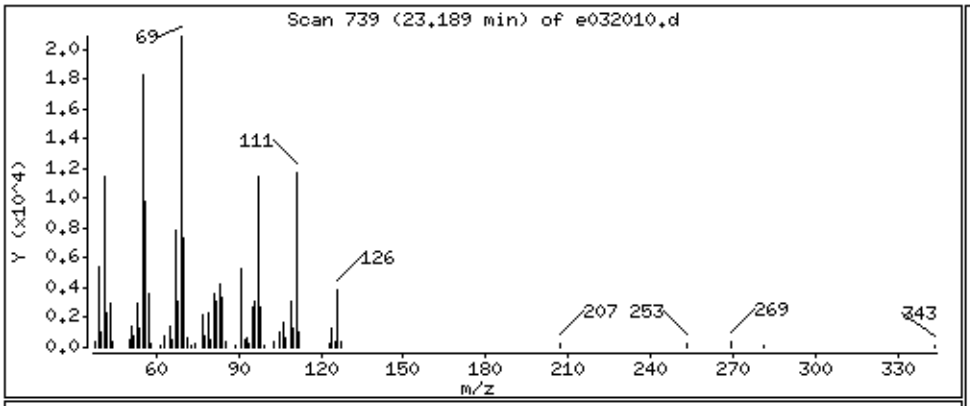
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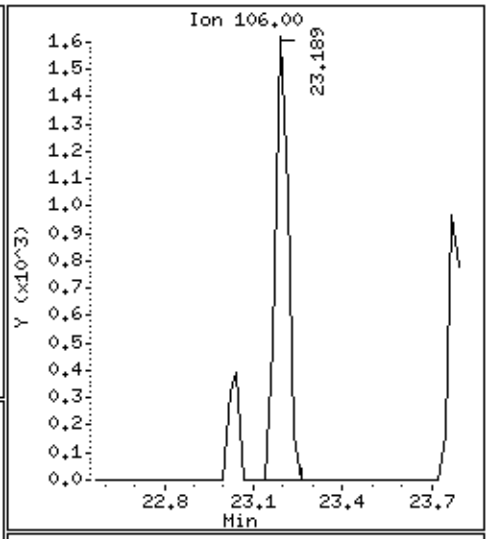
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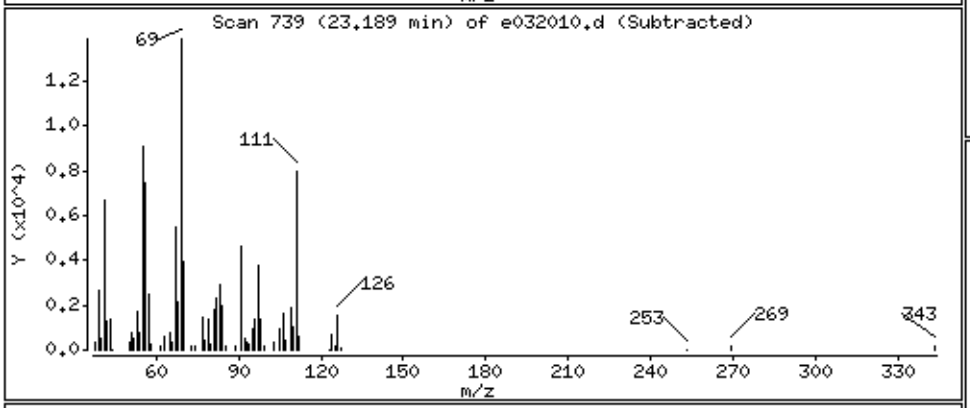
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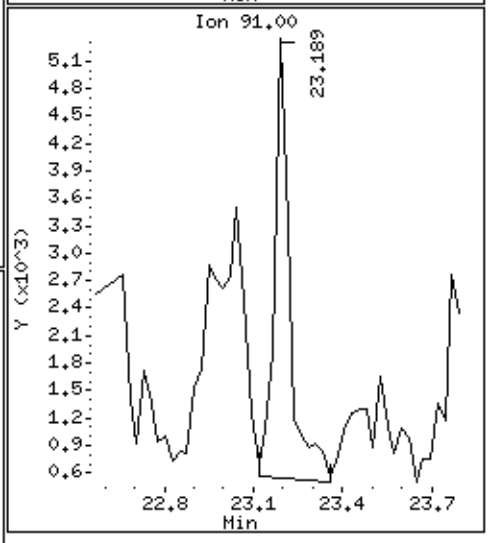
80 m,p-Xylene

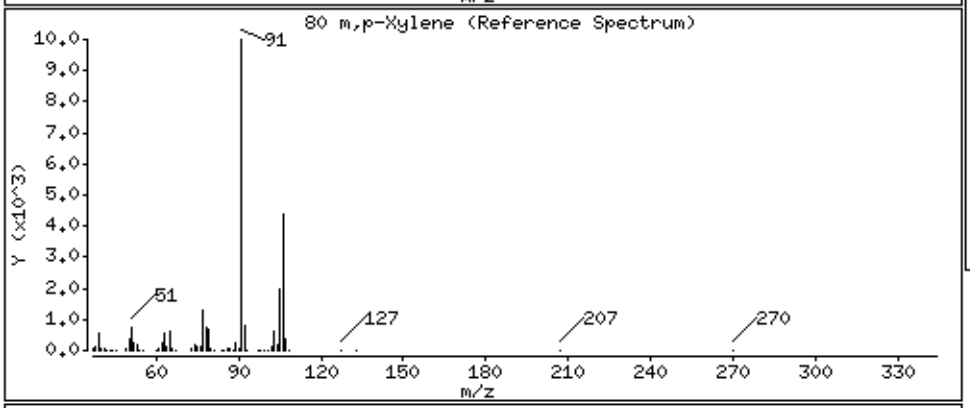
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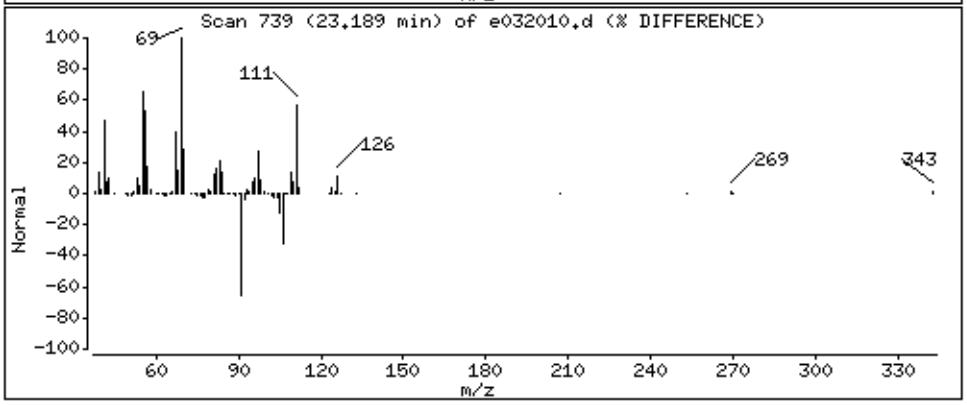


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Client ID:

Instrument: msde.i

Sample Info: 200mL #35287

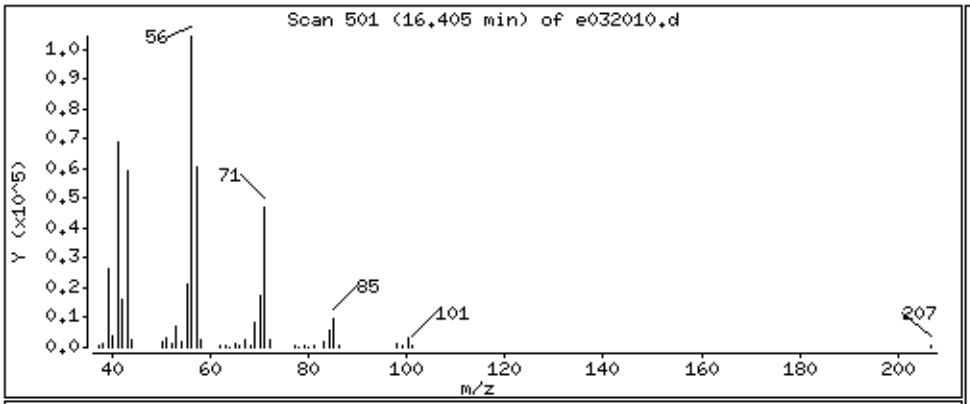
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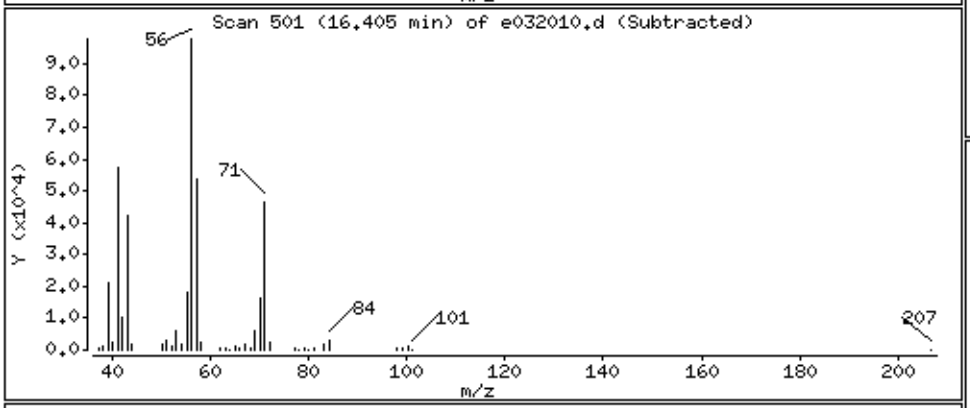
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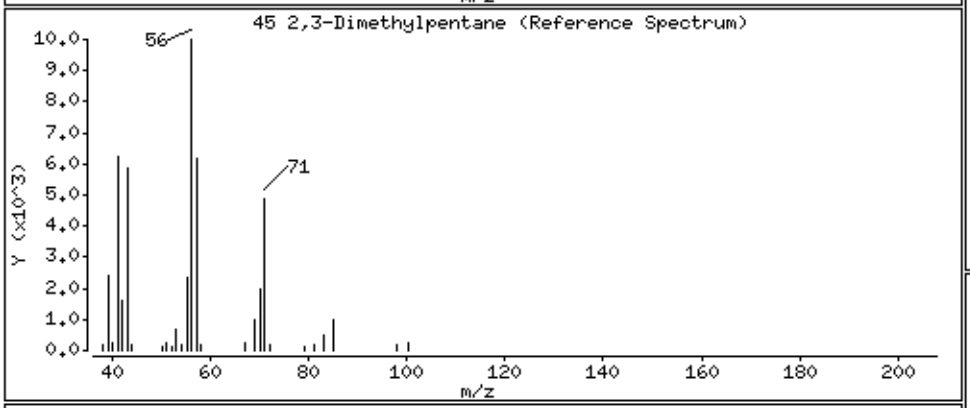
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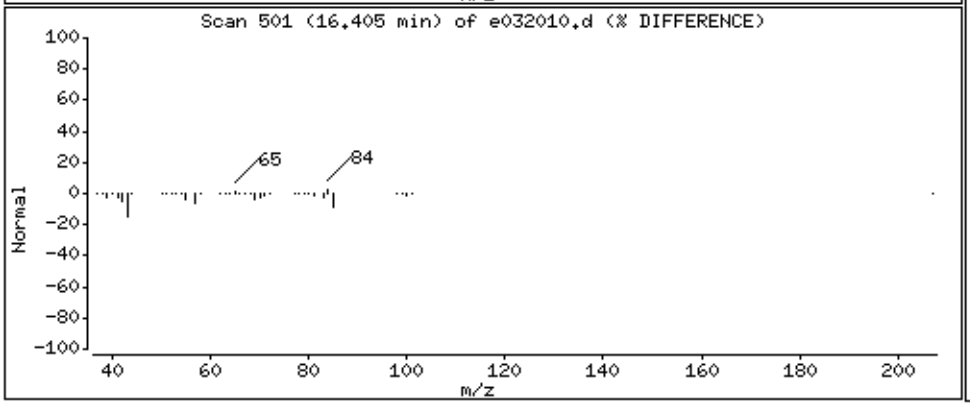
45 2,3-Dimethylpentane

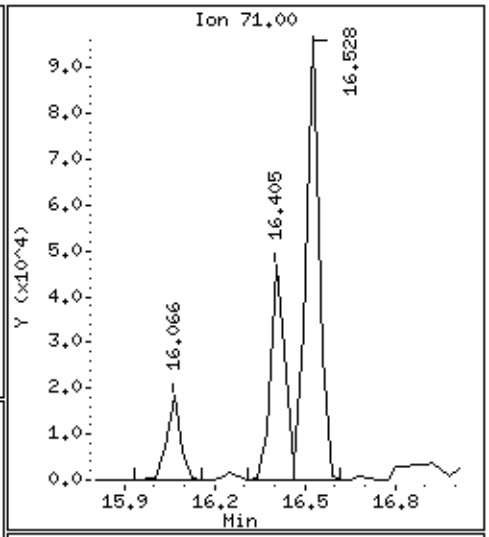
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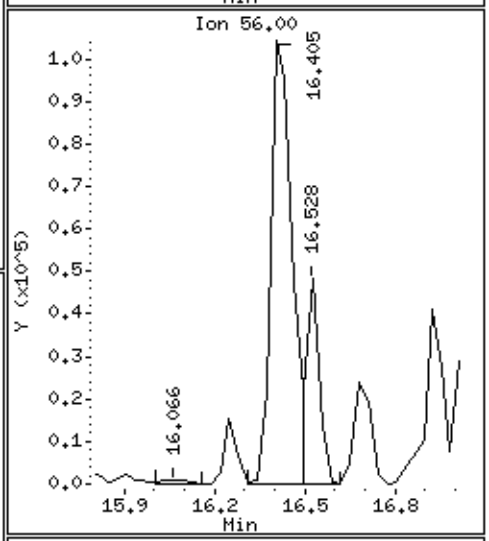


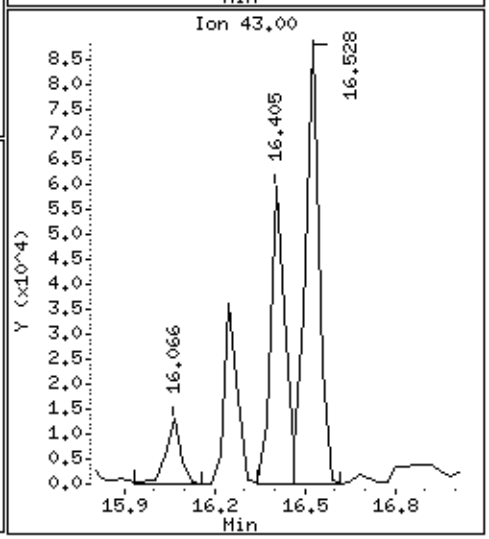



Data File: /chem/msde.i/20Mar2012.b/e032010.d

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Client ID:

Instrument: msde.i

Sample Info: 200mL #35287

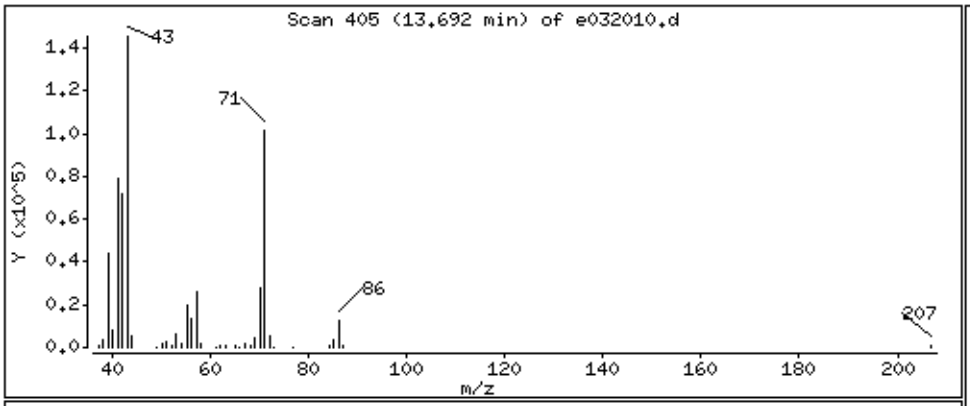
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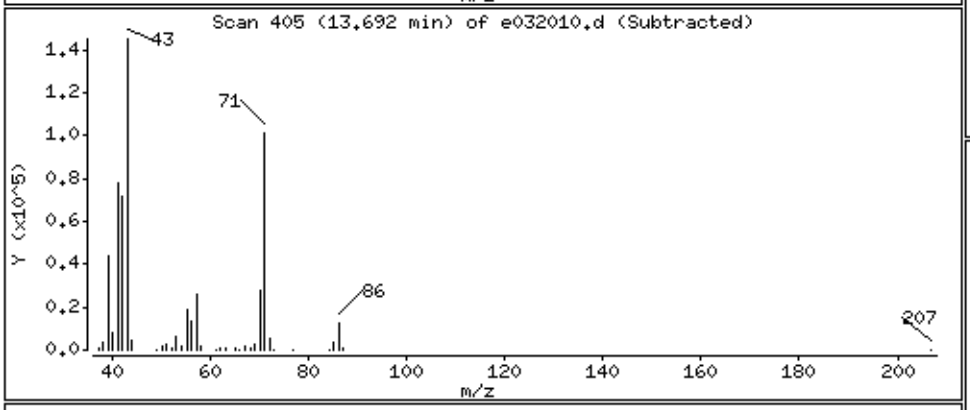
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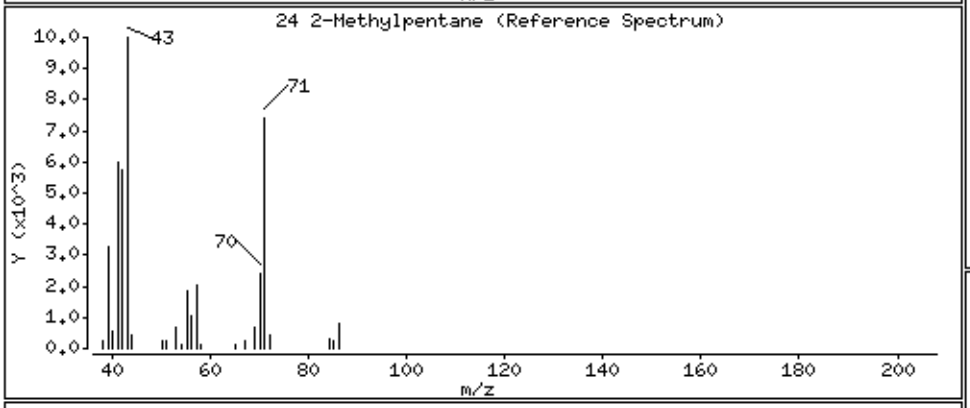
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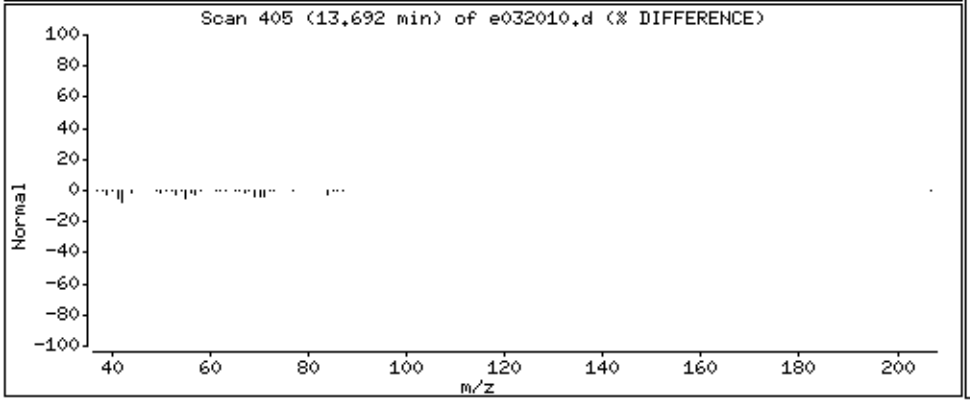
24 2-Methylpentane

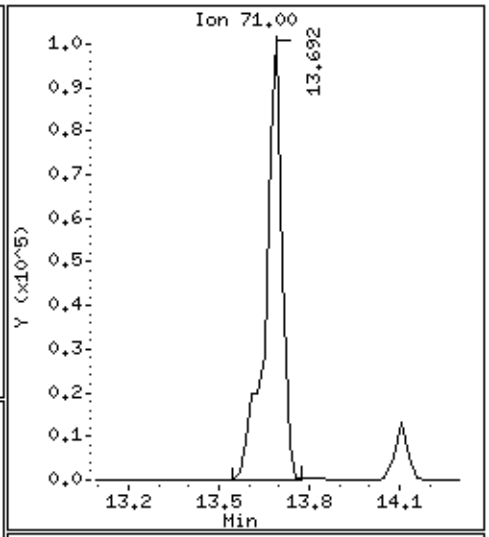
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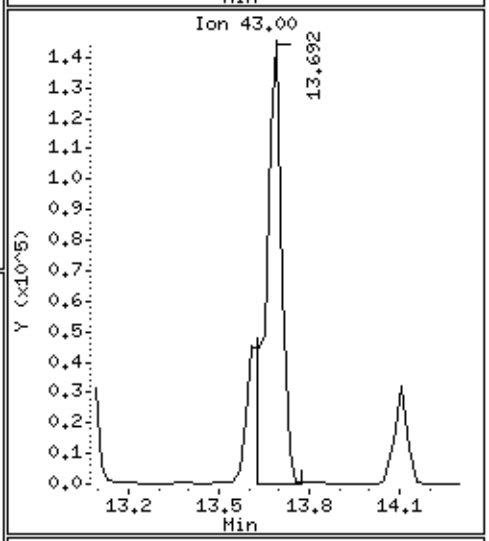


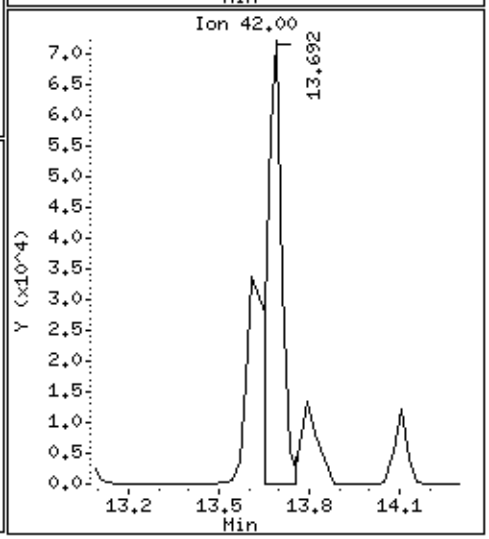



Data File: /chem/msde.i/20Mar2012.b/e032010.d

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Client ID:

Instrument: msde.i

Sample Info: 200mL #35287

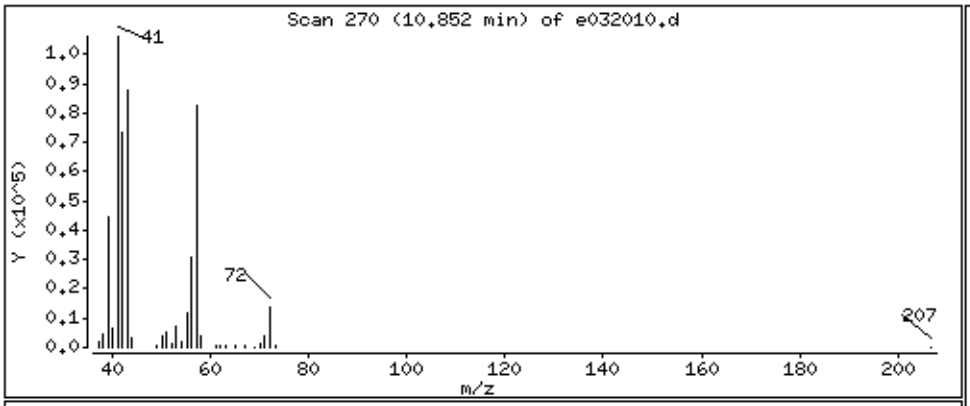
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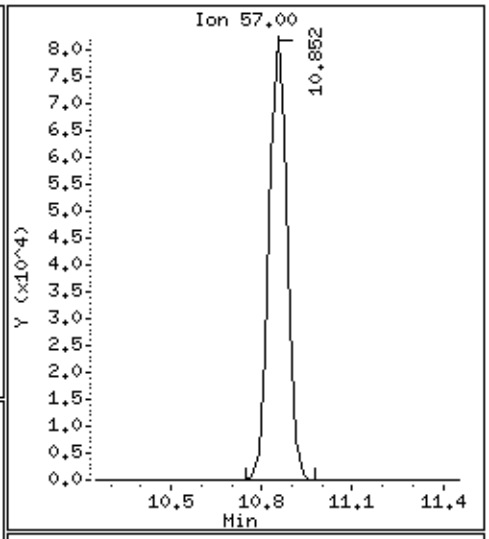
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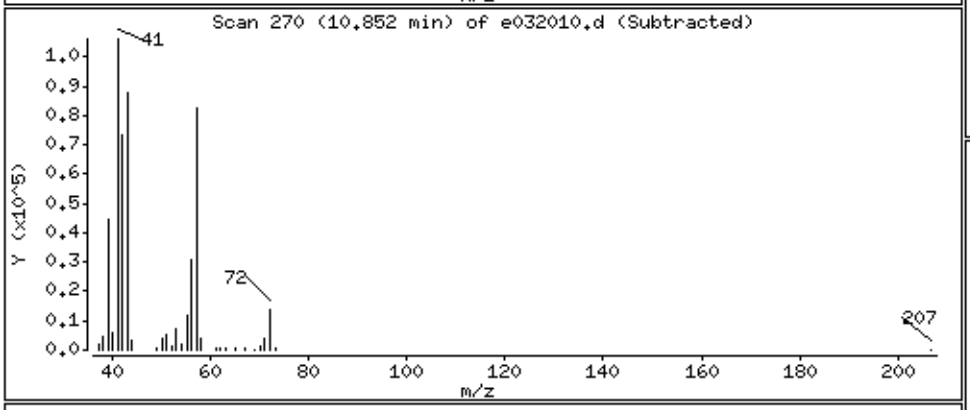
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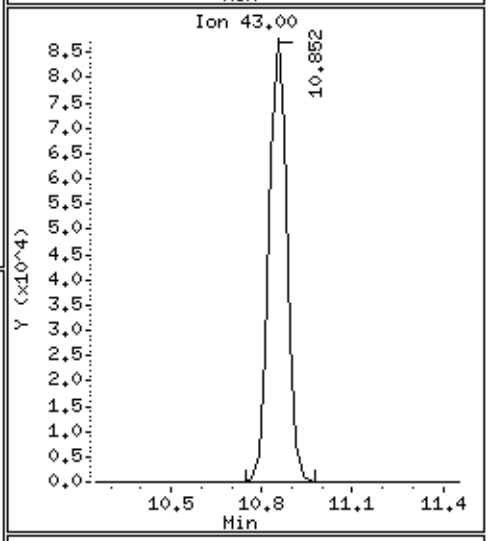
14 Isopentane

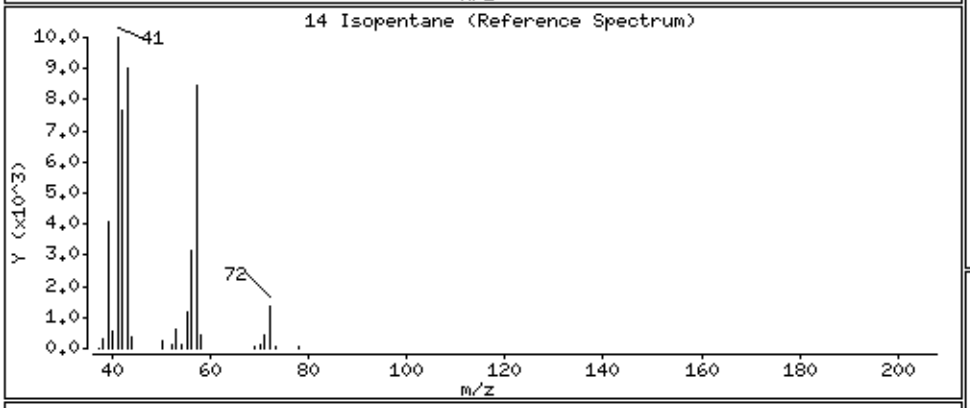
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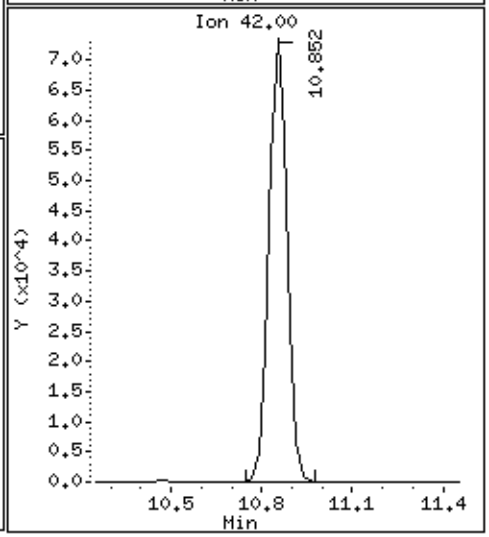


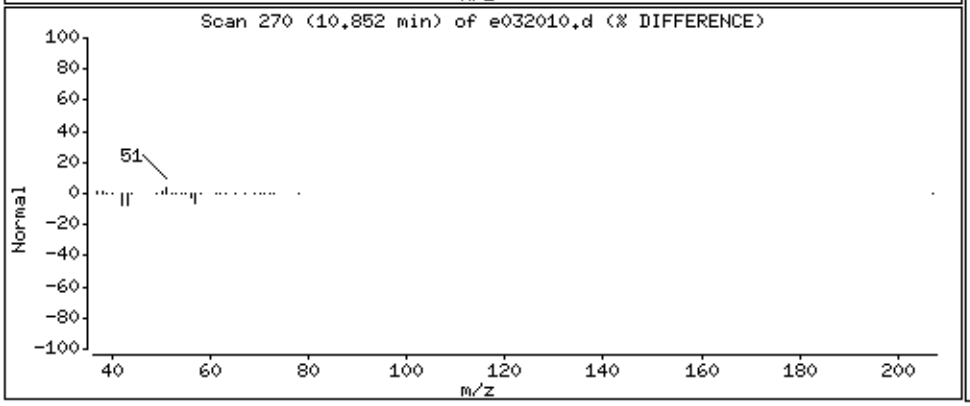



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Instrument: msde.i

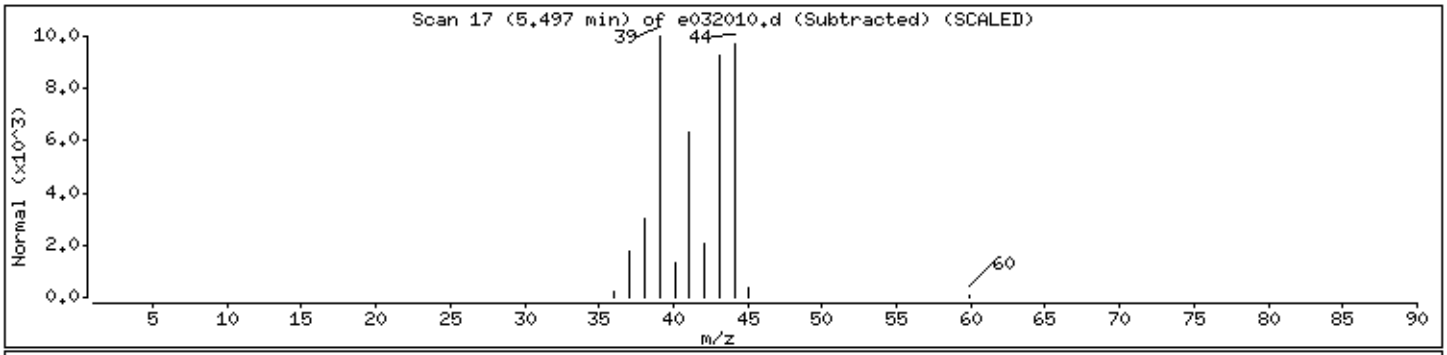
Sample Info: 200mL #35287

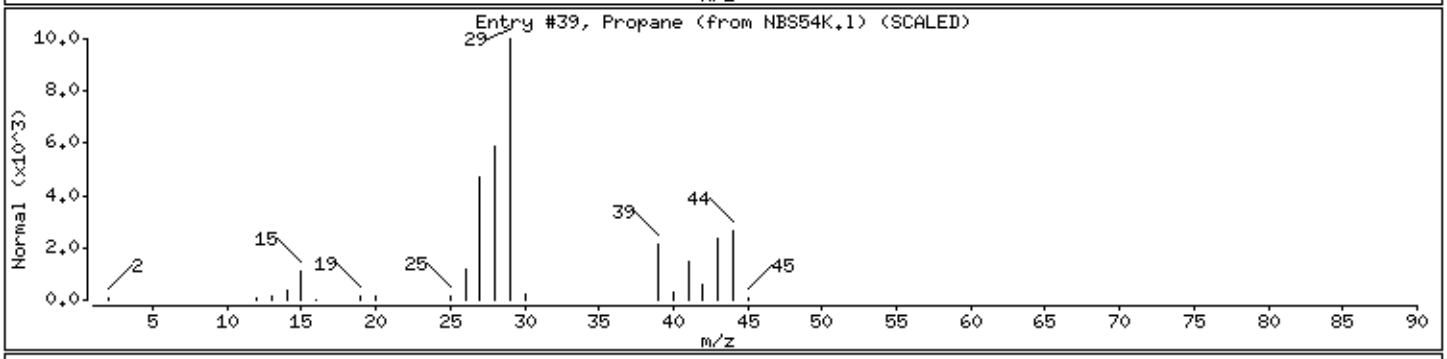
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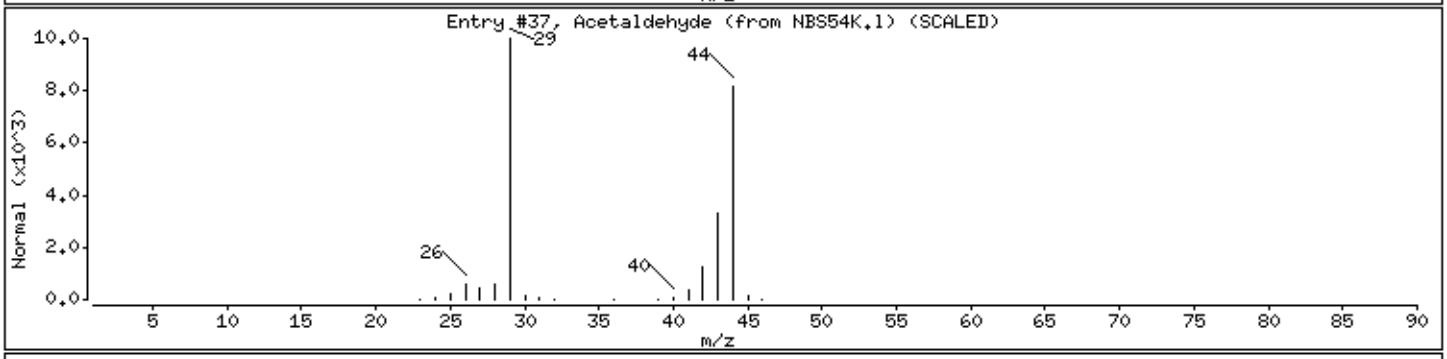
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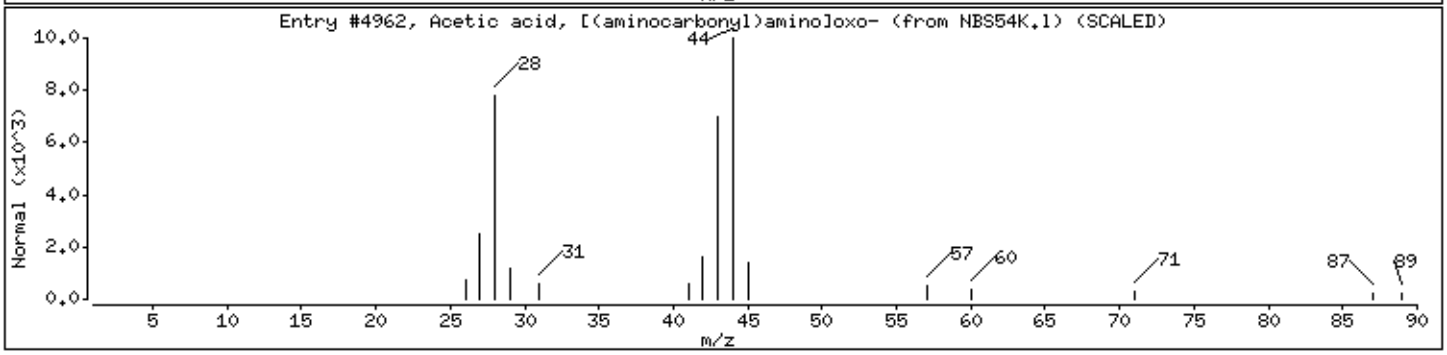
Column diameter: 0.32

| Library Search Compound Match | CAS Number | Library | Entry | Quality | Formula | Weight |
|---|---|---|---|---|---|---|
| Propane | 74-98-6 | NBS54K.1 | 39 | 9 | C3H8 | 44 |
| Acetaldehyde | 75-07-0 | NBS54K.1 | 37 | 5 | C2H4O | 44 |
| Acetic acid, [(aminocarbonyl)aminoloxo- | 585-05-7 | NBS54K.1 | 4962 | 2 | C3H4N2O4 | 132 |



Data File: /chem/msde.i/20Mar2012.b/e032010.d

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Instrument: msde.i

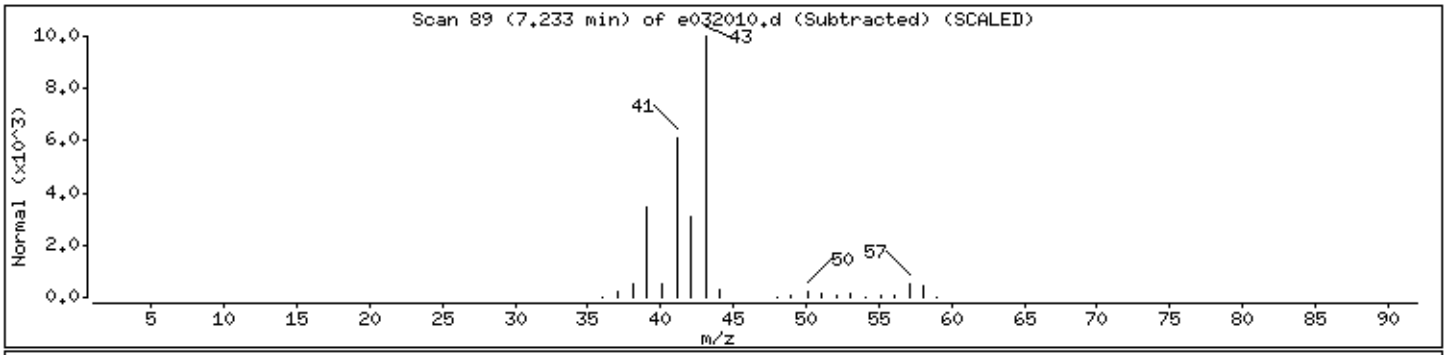
Sample Info: 200mL #35287

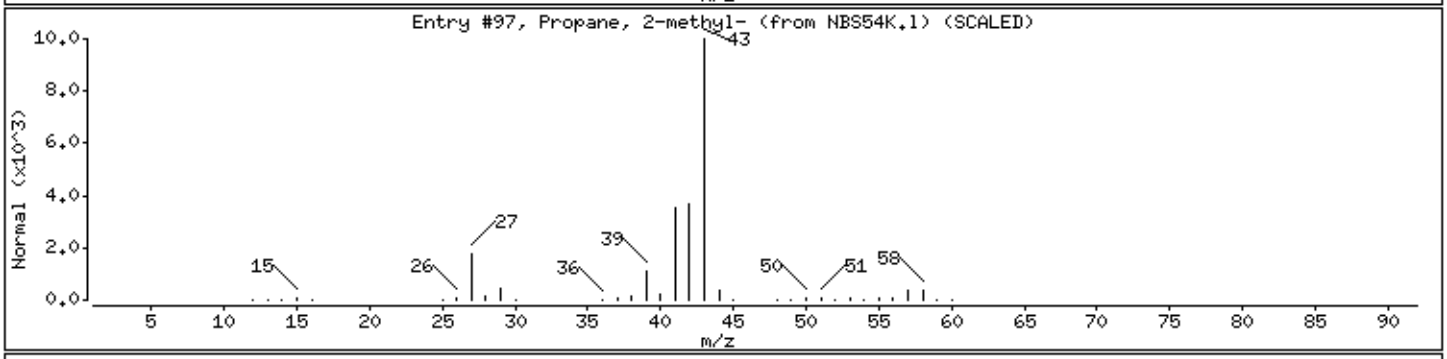
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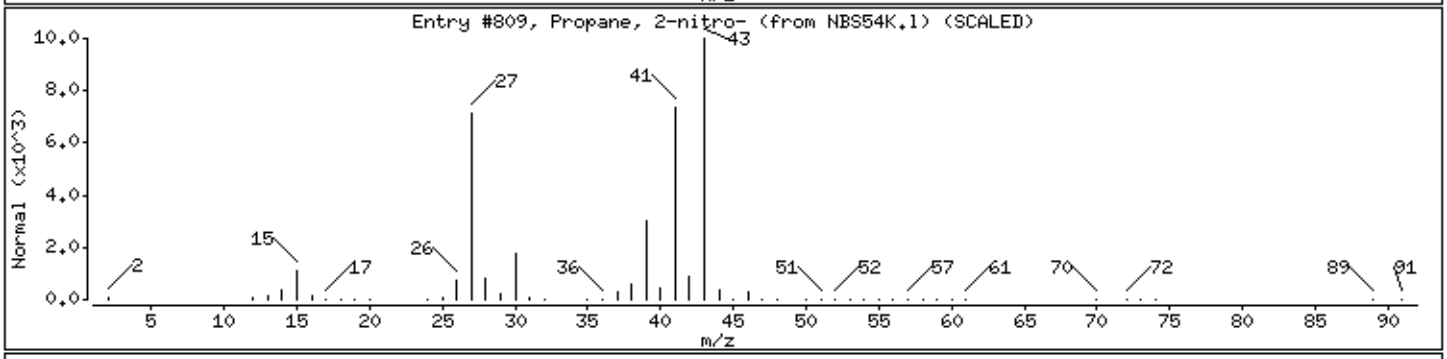
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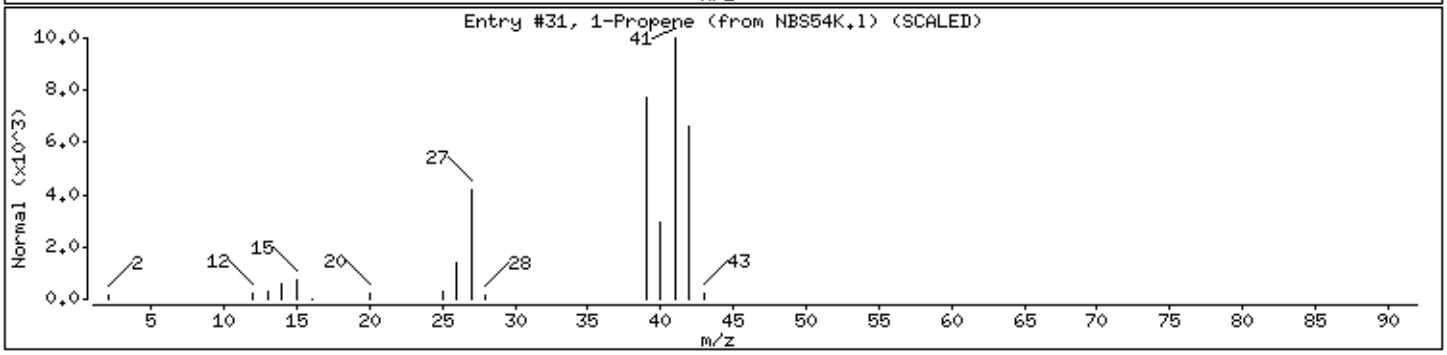
Column diameter: 0.32

| Library Search Compound Match | CAS Number | Library | Entry | Quality | Formula | Weight |
|---|---|---|---|---|---|---|
| Propane, 2-methyl- | 75-28-5 | NBS54K.l | 97 | 42 | C4H10 | 58 |
| Propane, 2-nitro- | 79-46-9 | NBS54K.l | 809 | 9 | C3H7NO2 | 89 |
| 1-Propene | 115-07-1 | NBS54K.l | 31 | 7 | C3H6 | 42 |



Data File: /chem/msde.i/20Mar2012.b/e032010.d

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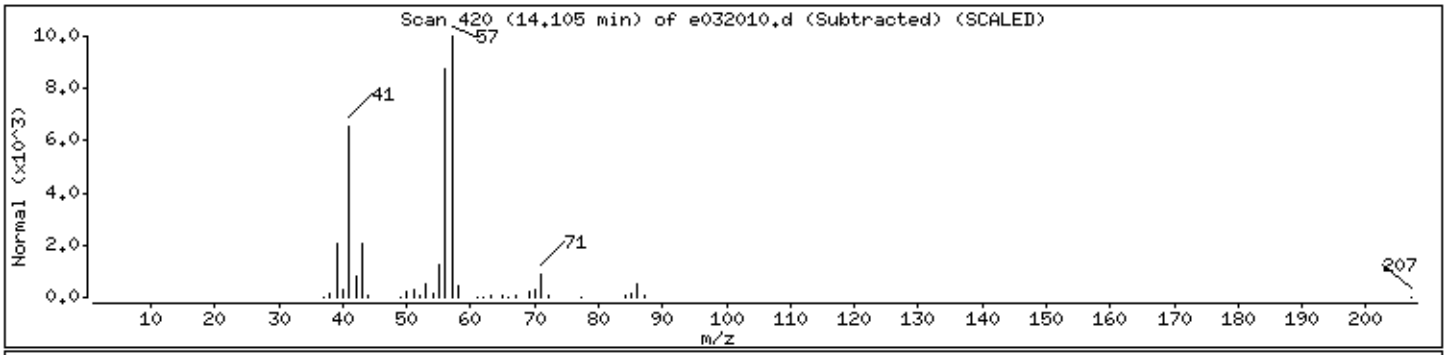
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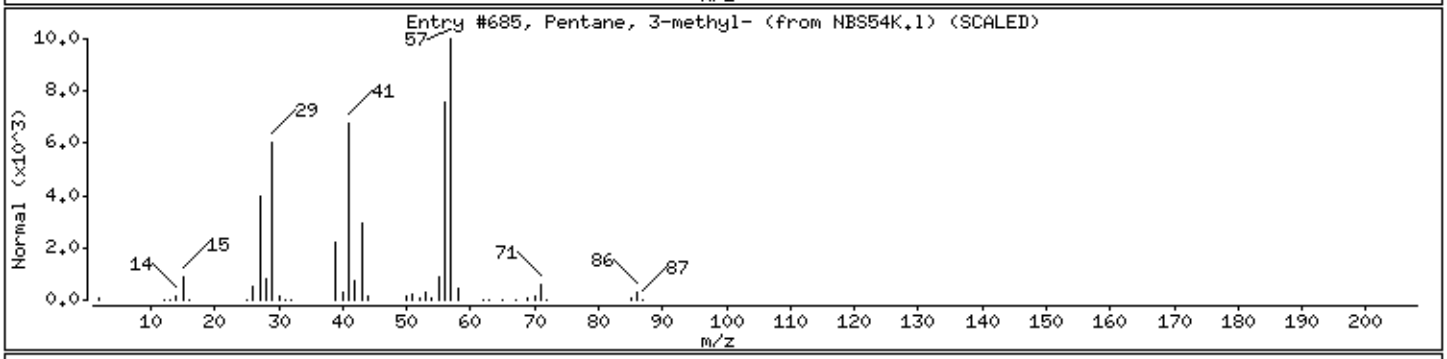
Operator: sac

Column phase: RTx-624

Column diameter: 0.32

| Library Search Compound Match | CAS Number | Library | Entry | Quality | Formula | Weight |
|---|---|---|---|---|---|---|
| Pentane, 3-methyl- | 96-14-0 | NBS54K.l | 685 | 90 | C6H14 | 86 |



Data File: /chem/msde.i/20Mar2012.b/e032010.d

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Instrument: msde.i

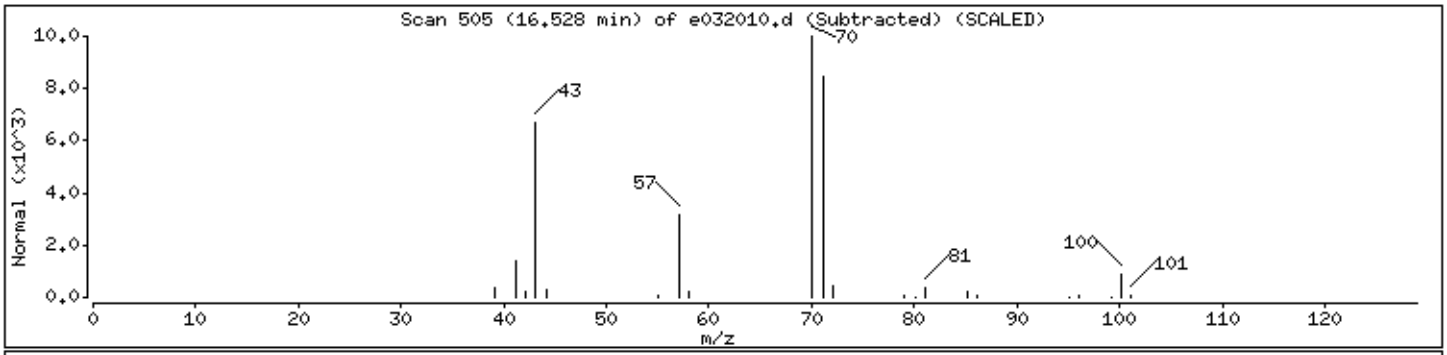
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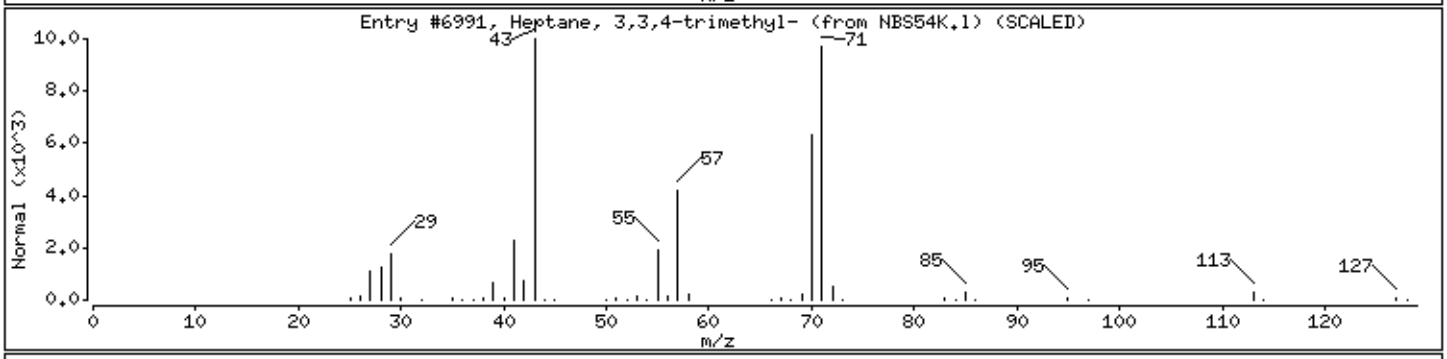
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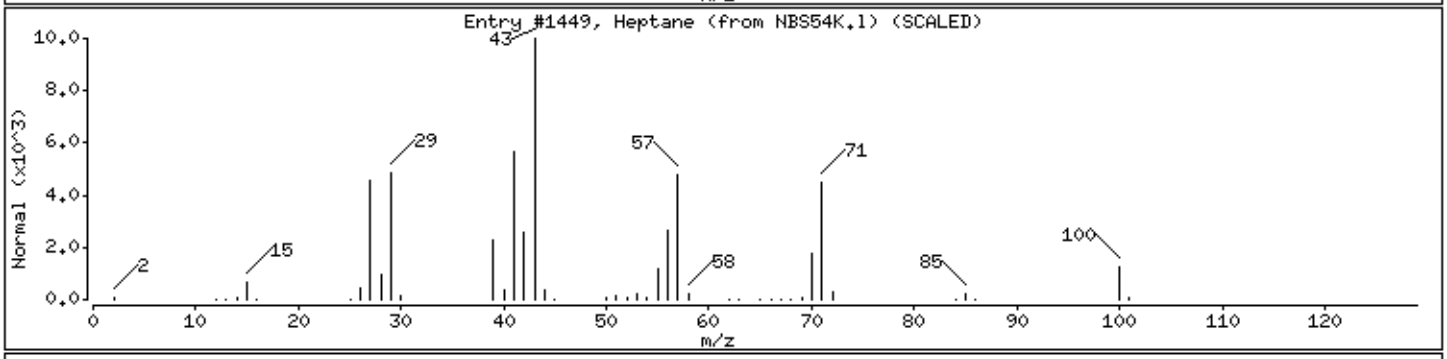
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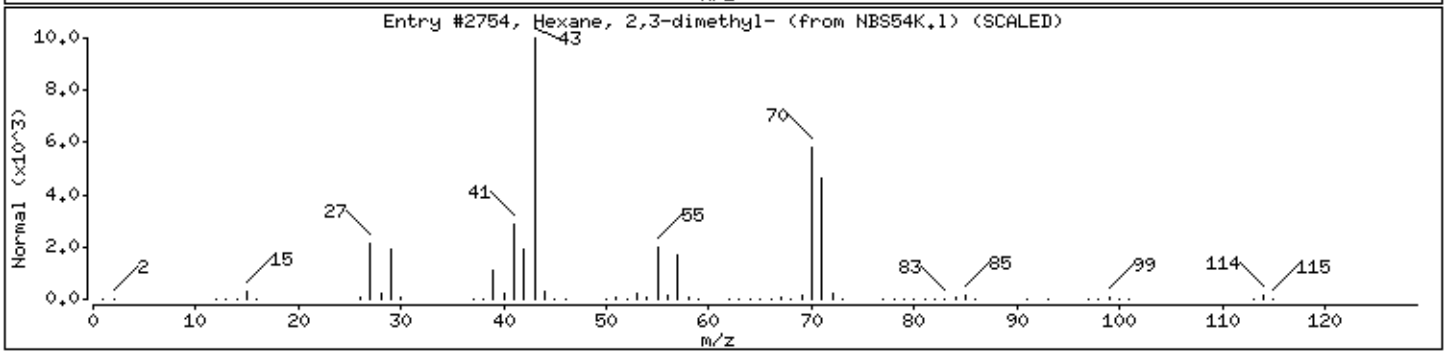
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| Library Search Compound Match | CAS Number | Library | Entry | Quality | Formula | Weight |
|---|---|---|---|---|---|---|
| Heptane, 3,3,4-trimethyl- | 20278-87-9 | NBS54K.l | 6991 | 36 | C10H22 | 142 |
| Heptane | 142-82-5 | NBS54K.l | 1449 | 10 | C7H16 | 100 |
| Hexane, 2,3-dimethyl- | 584-94-1 | NBS54K.l | 2754 | 9 | C8H18 | 114 |



Data File: /chem/msde.i/20Mar2012.b/e032010.d

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Client ID:

Instrument: msde.i

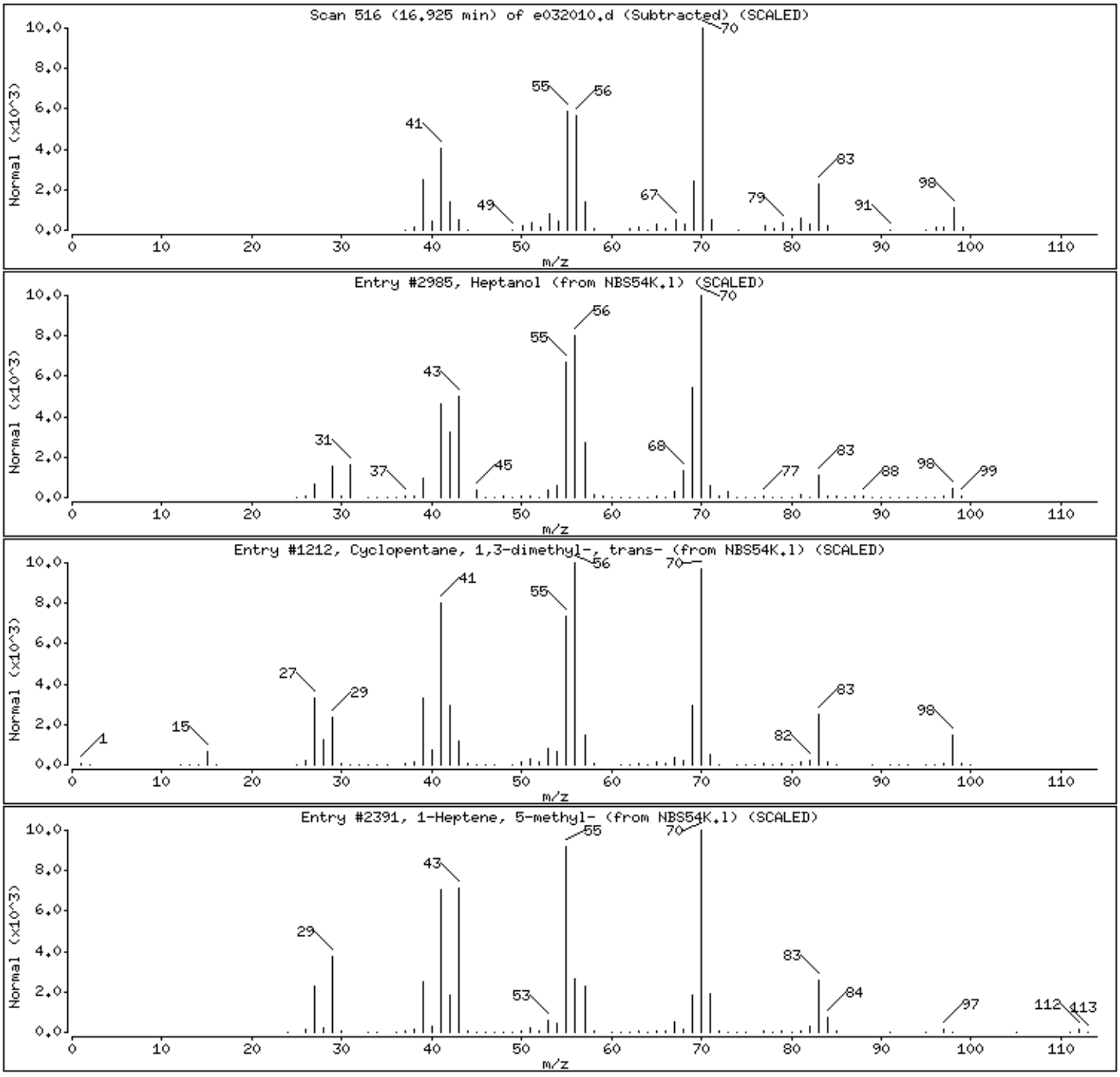
Sample Info: 200mL #35287

Operator: sac

Column phase: RTx-624

Column diameter: 0.32

| Library Search Compound Match | CAS Number | Library | Entry | Quality | Formula | Weight |
|---|---|---|---|---|---|---|
| Heptanol | 53535-33-4 | NBS54K.l | 2985 | 64 | C7H16O | 116 |
| Cyclopentane, 1,3-dimethyl-, trans- | 1759-58-6 | NBS54K.l | 1212 | 64 | C7H14 | 98 |
| 1-Heptene, 5-methyl- | 13151-04-7 | NBS54K.l | 2391 | 42 | C8H16 | 112 |



Data File: /chem/msde.i/20Mar2012.b/e032010.d

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Client ID:

Instrument: msde.i

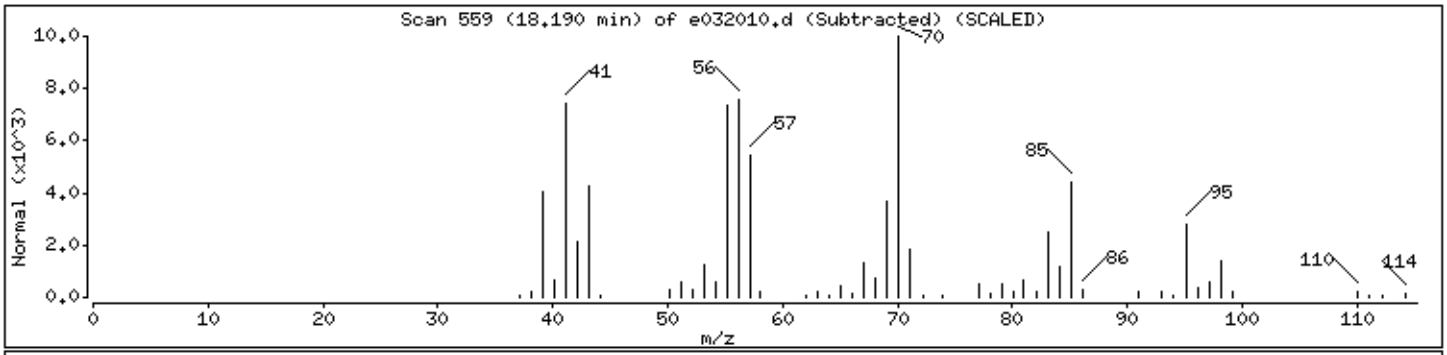
Sample Info: 200mL #35287

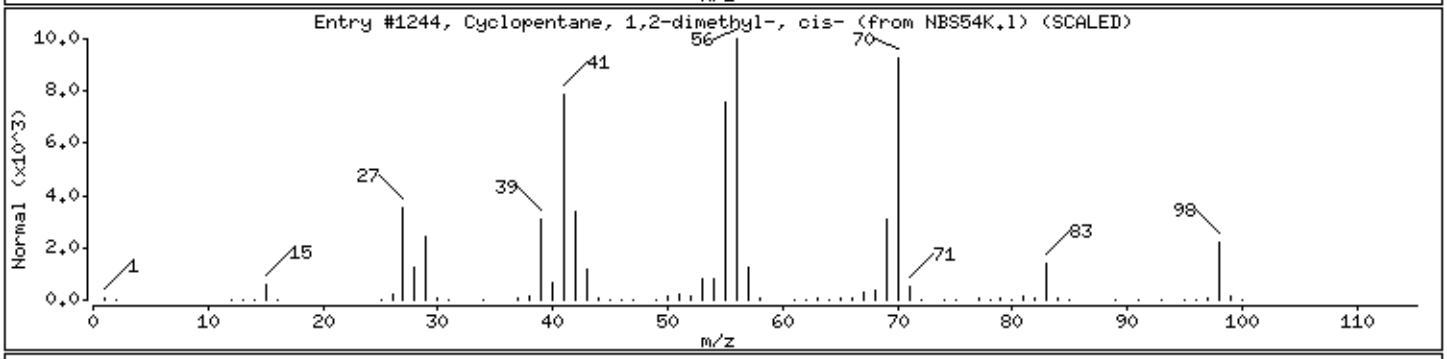
Operator: sac

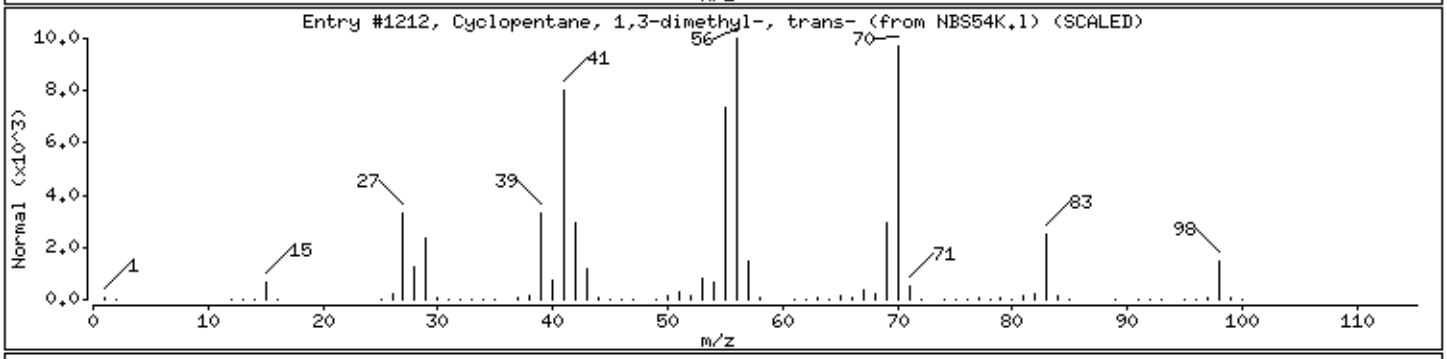
Column phase: RTx-624

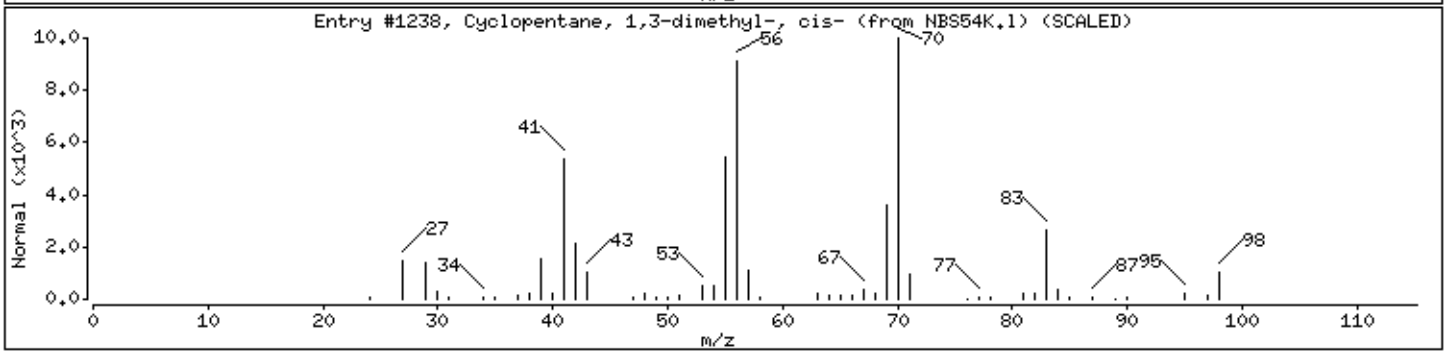
Column diameter: 0.32

| Library Search Compound Match | CAS Number | Library | Entry | Quality | Formula | Weight |
|---|---|---|---|---|---|---|
| Cyclopentane, 1,2-dimethyl-, cis- | 1192-18-3 | NBS54K.l | 1244 | 58 | C7H14 | 98 |
| Cyclopentane, 1,3-dimethyl-, trans- | 1759-58-6 | NBS54K.l | 1212 | 58 | C7H14 | 98 |
| Cyclopentane, 1,3-dimethyl-, cis- | 2532-58-3 | NBS54K.l | 1238 | 50 | C7H14 | 98 |



Data File: /chem/msde.i/20Mar2012.b/e032010.d

Date : 20-MAR-2012 17:17

Client ID:

Instrument: msde.i

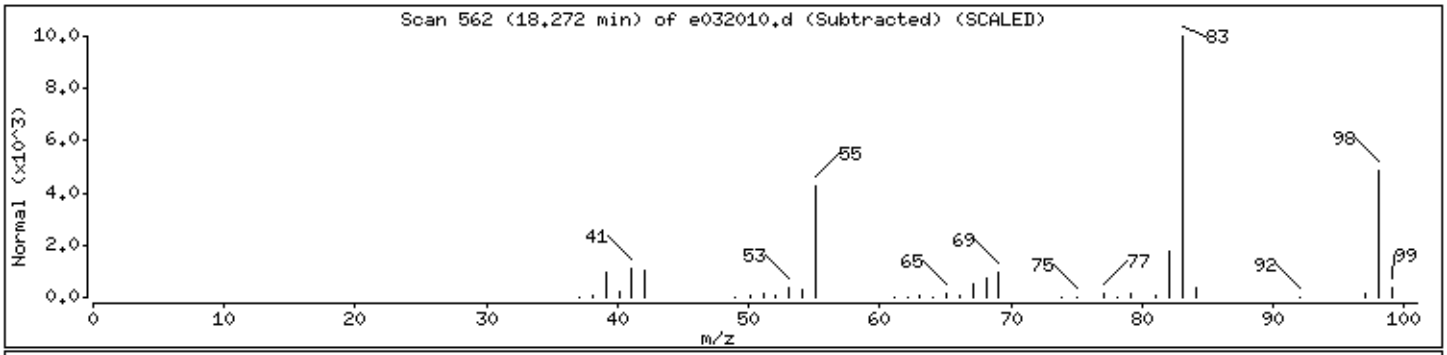
Sample Info: 200mL #35287

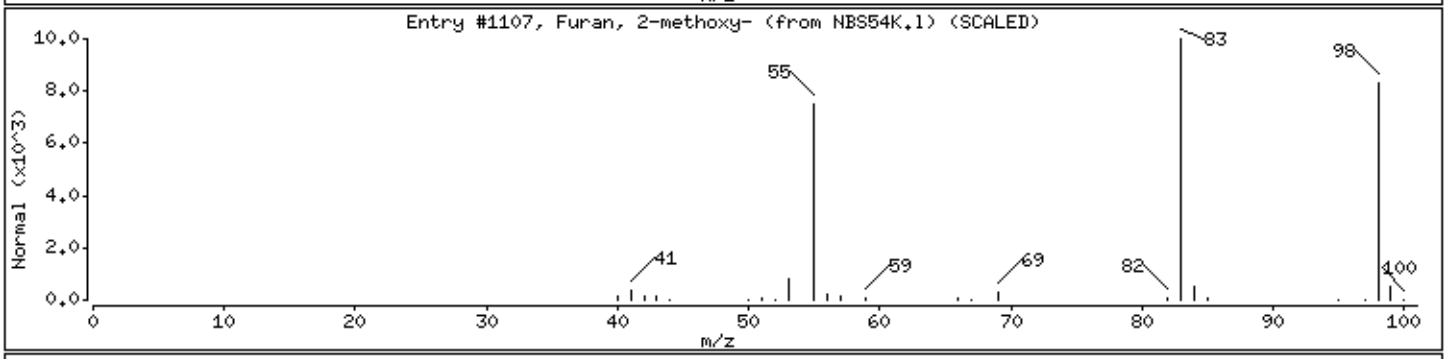
Operator: sac

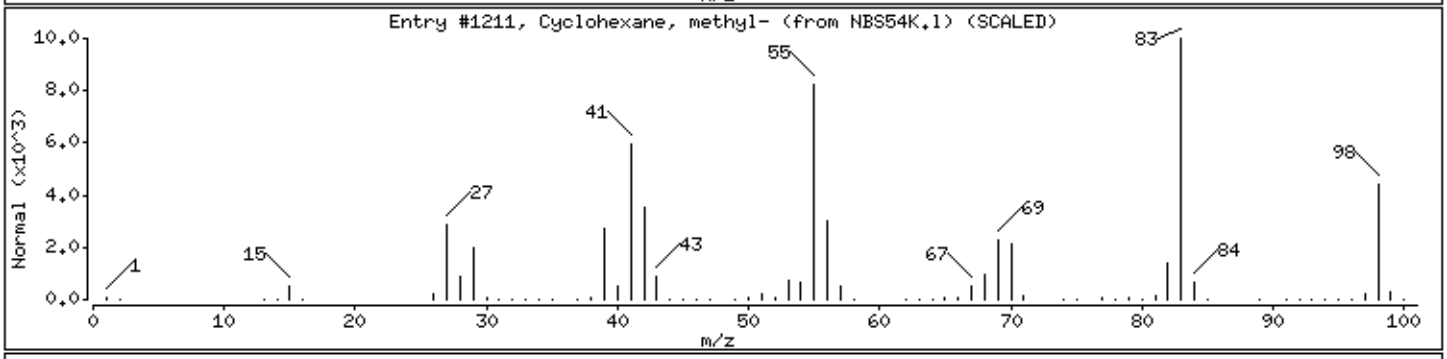
Column phase: RTx-624

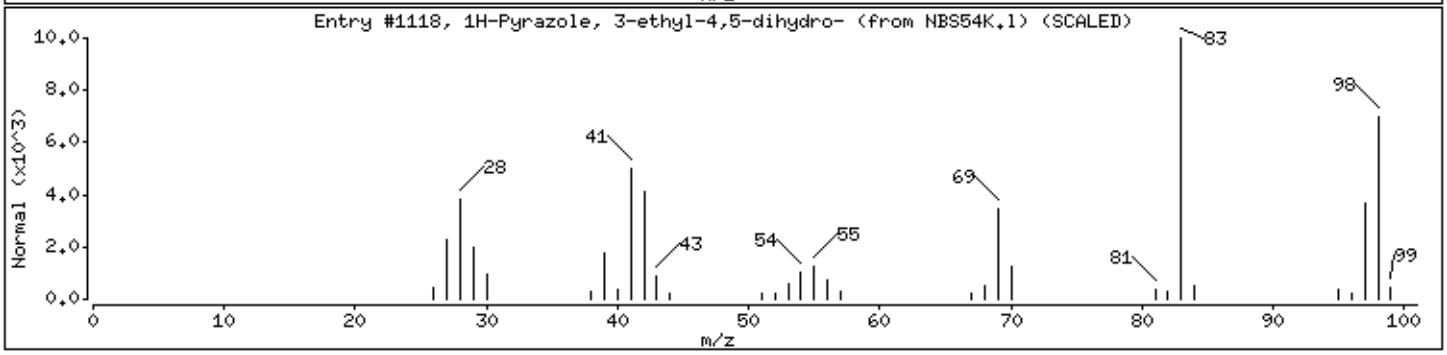
Column diameter: 0.32

| Library Search Compound Match | CAS Number | Library | Entry | Quality | Formula | Weight |
|---|---|---|---|---|---|---|
| Furan, 2-methoxy- | 25414-22-6 | NBS54K.l | 1107 | 64 | C5H6O2 | 98 |
| Cyclohexane, methyl- | 108-87-2 | NBS54K.l | 1211 | 64 | C7H14 | 98 |
| 1H-Pyrazole, 3-ethyl-4,5-dihydro- | 5920-29-6 | NBS54K.l | 1118 | 59 | C5H10N2 | 98 |



Data File: /chem/msde.i/20Mar2012.b/e032010.d

Date : 20-MAR-2012 17:17

Client ID:

Instrument: msde.i

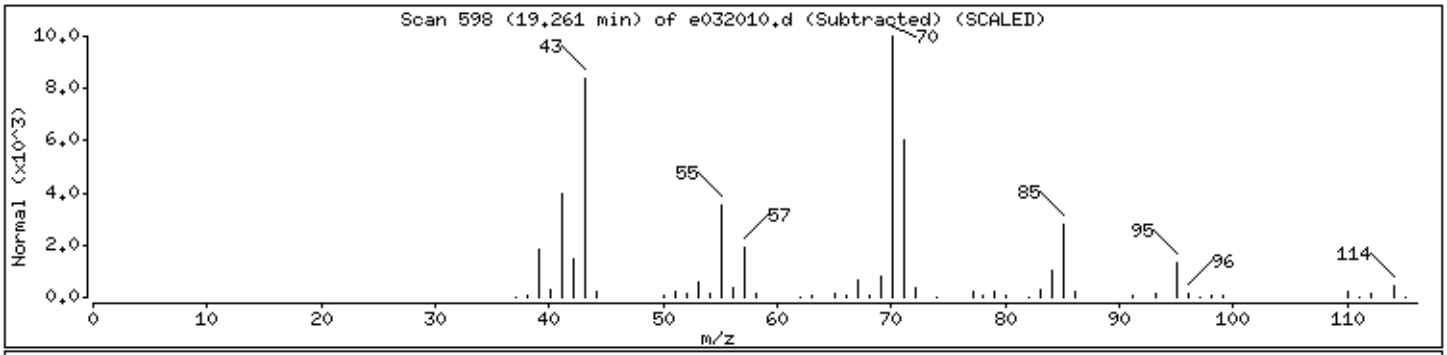
Sample Info: 200mL #35287

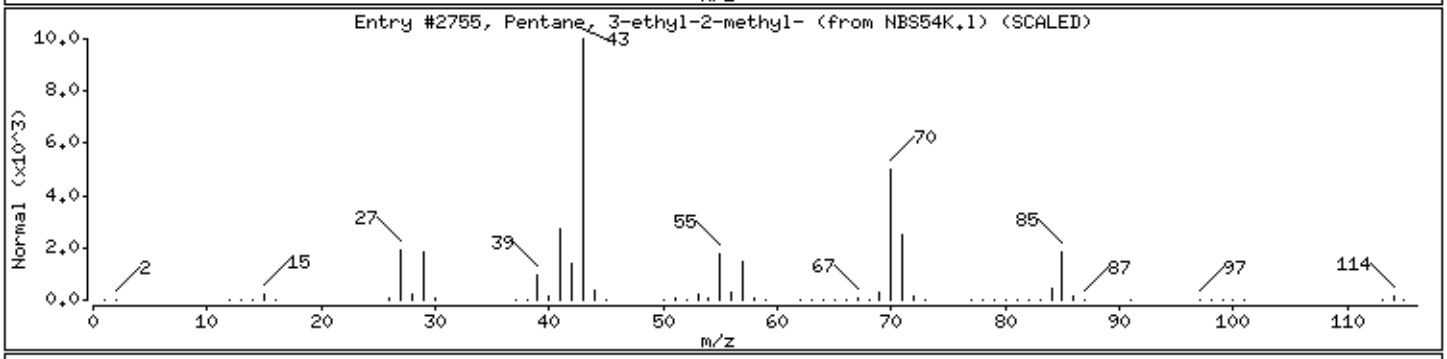
Operator: sac

Column phase: RTx-624

Column diameter: 0.32

| Library Search Compound Match | CAS Number | Library | Entry | Quality | Formula | Weight |
|---|---|---|---|---|---|---|
| Pentane, 3-ethyl-2-methyl- | 609-26-7 | NBS54K.l | 2755 | 64 | C8H18 | 114 |



Data File: /chem/msde.i/20Mar2012.b/e032010.d

Date : 20-MAR-2012 17:17

Client ID:

Instrument: msde.i

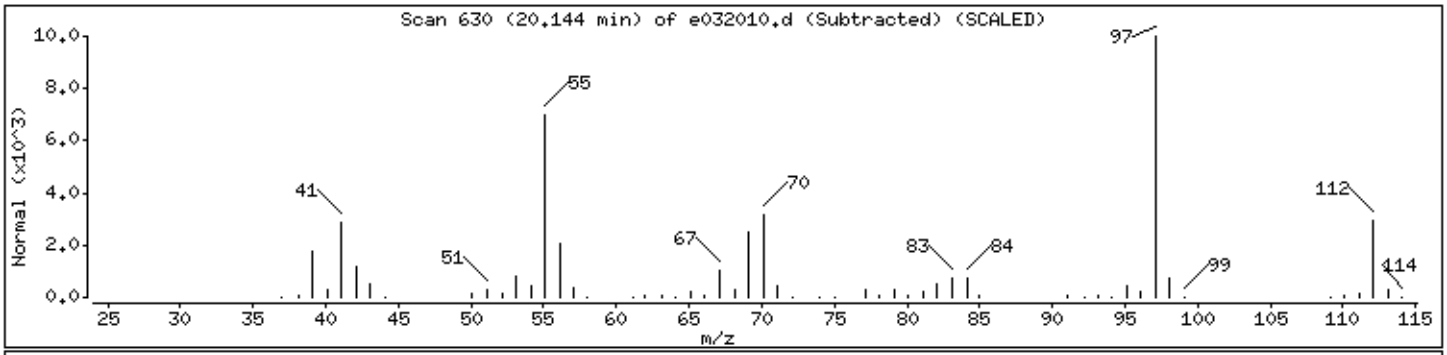
Sample Info: 200mL #35287

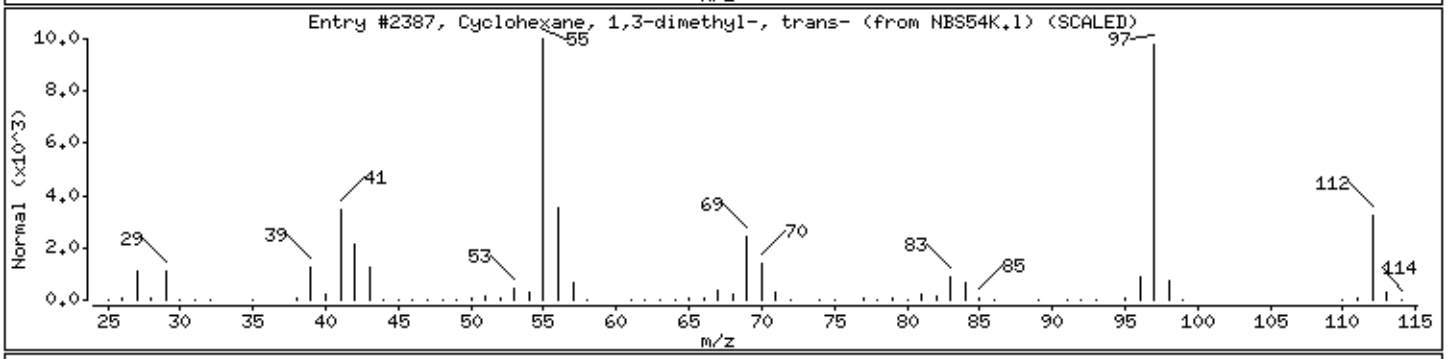
Operator: sac

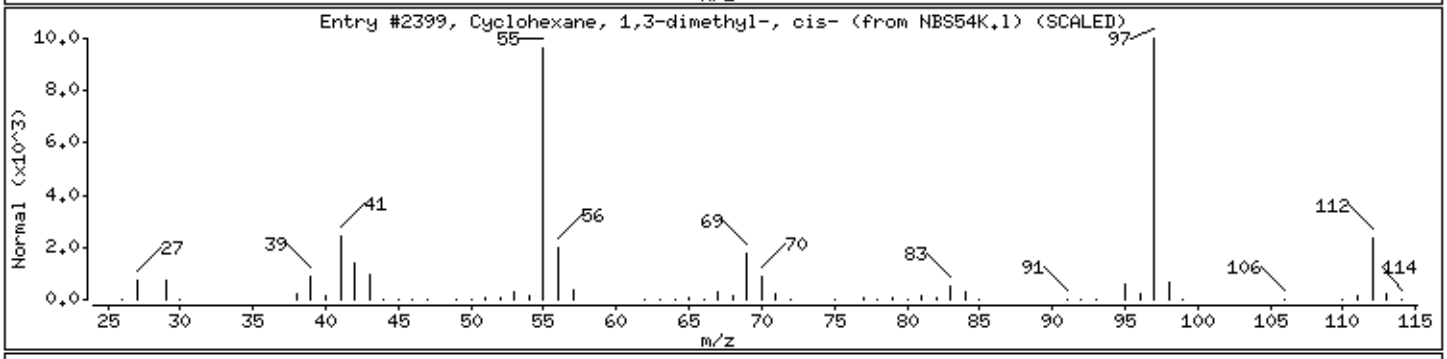
Column phase: RTx-624

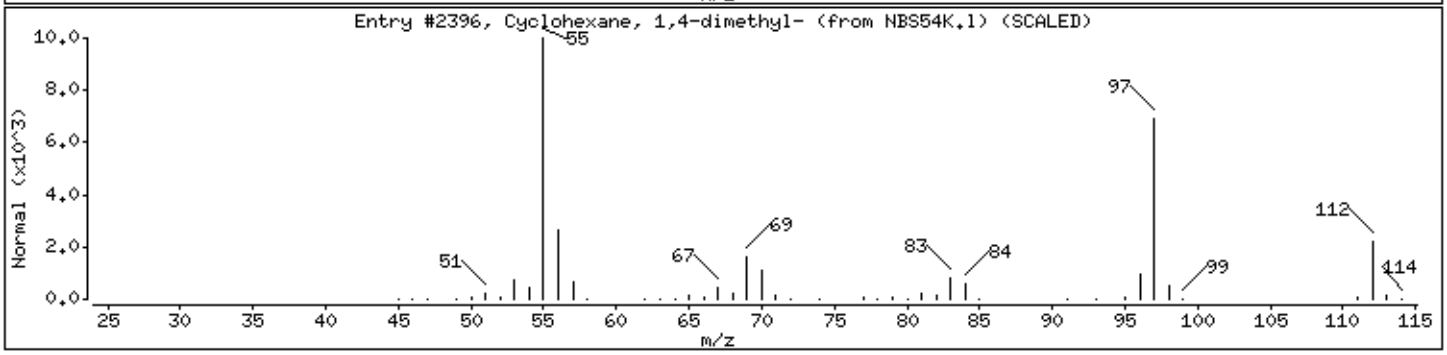
Column diameter: 0.32

| Library Search Compound Match | CAS Number | Library | Entry | Quality | Formula | Weight |
|---|---|---|---|---|---|---|
| Cyclohexane, 1,3-dimethyl-, trans- | 2207-03-6 | NBS54K.l | 2387 | 83 | C8H16 | 112 |
| Cyclohexane, 1,3-dimethyl-, cis- | 638-04-0 | NBS54K.l | 2399 | 70 | C8H16 | 112 |
| Cyclohexane, 1,4-dimethyl- | 589-90-2 | NBS54K.l | 2396 | 64 | C8H16 | 112 |



Data File: /chem/msde.i/20Mar2012.b/e032010.d

Date : 20-MAR-2012 17:17

Client ID:

Instrument: msde.i

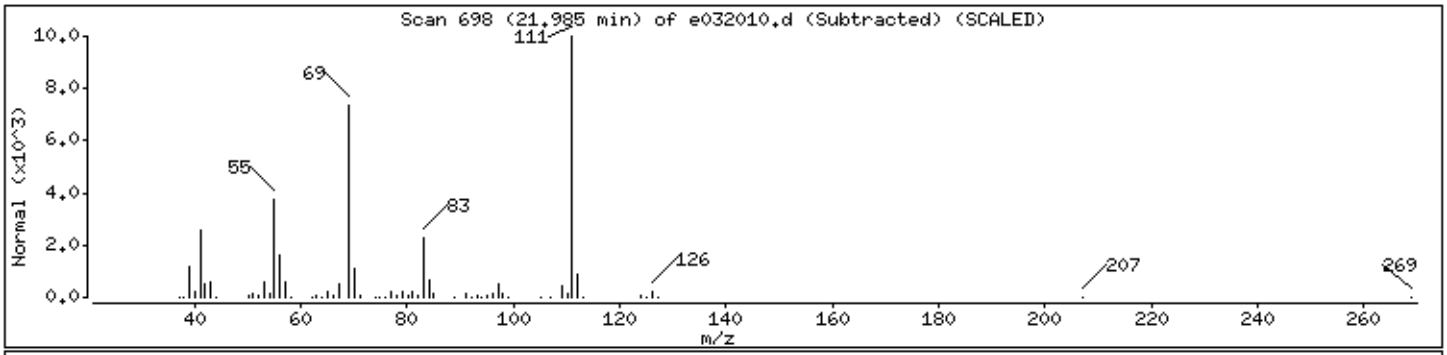
Sample Info: 200mL #35287

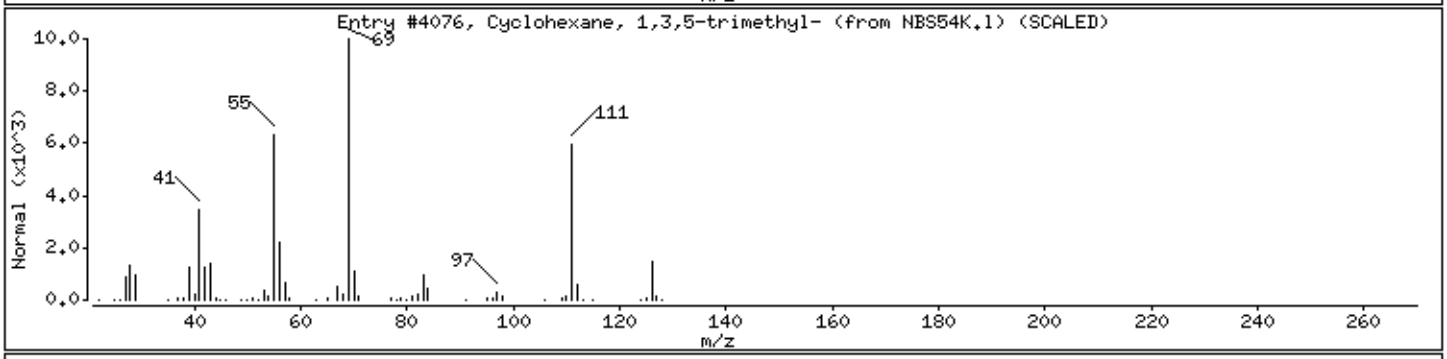
Operator: sac

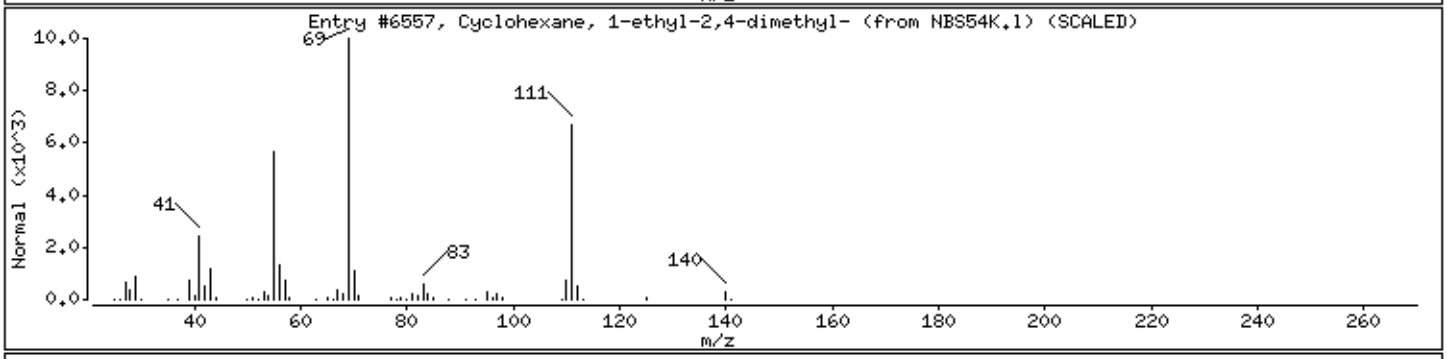
Column phase: RTx-624

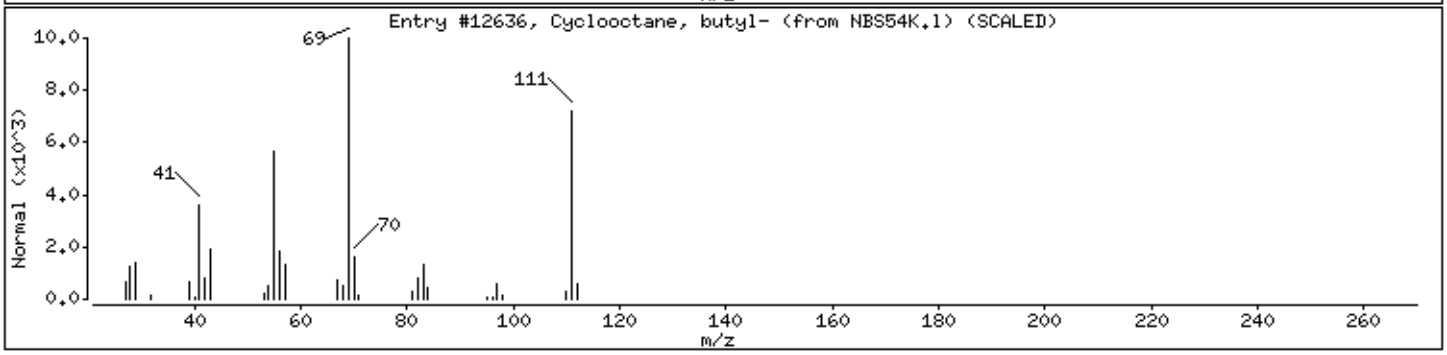
Column diameter: 0.32

| Library Search Compound Match | CAS Number | Library | Entry | Quality | Formula | Weight |
|---|---|---|---|---|---|---|
| Cyclohexane, 1,3,5-trimethyl- | 1839-63-0 | NBS54K.l | 4076 | 64 | C9H18 | 126 |
| Cyclohexane, 1-ethyl-2,4-dimethyl- | 61142-69-6 | NBS54K.l | 6557 | 56 | C10H20 | 140 |
| Cyclooctane, butyl- | 16538-93-5 | NBS54K.l | 12636 | 56 | C12H24 | 168 |



# QC Results and Raw Data

eurofins | Air Toxics

**Client Sample ID: Lab Blank**

**Lab ID#: 1202444-04A**

**MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN**

| | | | |
|---|---|---|---|
| **File Name:** | **e031308c** | **Date of Collection: NA** | |
| **Dil. Factor:** | **1.00** | **Date of Analysis: 3/13/12 02:19 PM** | |

| Compound | Rpt. Limit (ppbv) | Amount (ppbv) | Rpt. Limit (ug/m3) | Amount (ug/m3) |
|---|---|---|---|---|
| Freon 12 | 0.10 | Not Detected | 0.49 | Not Detected |
| Freon 114 | 0.10 | Not Detected | 0.70 | Not Detected |
| Chloromethane | 0.10 | Not Detected | 0.21 | Not Detected |
| Vinyl Chloride | 0.10 | Not Detected | 0.26 | Not Detected |
| 1,3-Butadiene | 0.10 | Not Detected | 0.22 | Not Detected |
| Bromomethane | 0.10 | Not Detected | 0.39 | Not Detected |
| Chloroethane | 0.50 | Not Detected | 1.3 | Not Detected |
| Freon 11 | 0.10 | Not Detected | 0.56 | Not Detected |
| Ethanol | 0.50 | Not Detected | 0.94 | Not Detected |
| Freon 113 | 0.10 | Not Detected | 0.77 | Not Detected |
| 1,1-Dichloroethene | 0.10 | Not Detected | 0.40 | Not Detected |
| Acetone | 0.50 | Not Detected | 1.2 | Not Detected |
| 2-Propanol | 0.50 | Not Detected | 1.2 | Not Detected |
| Carbon Disulfide | 0.50 | Not Detected | 1.6 | Not Detected |
| 3-Chloropropene | 0.50 | Not Detected | 1.6 | Not Detected |
| Methylene Chloride | 0.20 | Not Detected UJ | 0.69 | Not Detected UJ |
| Methyl tert-butyl ether | 0.10 | Not Detected | 0.36 | Not Detected |
| trans-1,2-Dichloroethene | 0.10 | Not Detected | 0.40 | Not Detected |
| Hexane | 0.10 | Not Detected | 0.35 | Not Detected |
| 1,1-Dichloroethane | 0.10 | Not Detected | 0.40 | Not Detected |
| 2-Butanone (Methyl Ethyl Ketone) | 0.50 | Not Detected | 1.5 | Not Detected |
| cis-1,2-Dichloroethene | 0.10 | Not Detected | 0.40 | Not Detected |
| Tetrahydrofuran | 0.50 | Not Detected | 1.5 | Not Detected |
| Chloroform | 0.10 | Not Detected | 0.49 | Not Detected |
| 1,1,1-Trichloroethane | 0.10 | Not Detected | 0.54 | Not Detected |
| Cyclohexane | 0.10 | Not Detected | 0.34 | Not Detected |
| Carbon Tetrachloride | 0.10 | Not Detected | 0.63 | Not Detected |
| 2,2,4-Trimethylpentane | 0.50 | Not Detected | 2.3 | Not Detected |
| Benzene | 0.10 | Not Detected | 0.32 | Not Detected |
| 1,2-Dichloroethane | 0.10 | Not Detected | 0.40 | Not Detected |
| Heptane | 0.10 | Not Detected | 0.41 | Not Detected |
| Trichloroethene | 0.10 | Not Detected | 0.54 | Not Detected |
| 1,2-Dichloropropane | 0.10 | Not Detected | 0.46 | Not Detected |
| 1,4-Dioxane | 0.10 | Not Detected | 0.36 | Not Detected |
| Bromodichloromethane | 0.10 | Not Detected | 0.67 | Not Detected |
| cis-1,3-Dichloropropene | 0.10 | Not Detected | 0.45 | Not Detected |
| 4-Methyl-2-pentanone | 0.10 | Not Detected | 0.41 | Not Detected |
| Toluene | 0.10 | Not Detected | 0.38 | Not Detected |
| trans-1,3-Dichloropropene | 0.10 | Not Detected | 0.45 | Not Detected |
| 1,1,2-Trichloroethane | 0.10 | Not Detected | 0.54 | Not Detected |
| Tetrachloroethene | 0.10 | Not Detected | 0.68 | Not Detected |
| 2-Hexanone | 0.50 | Not Detected | 2.0 | Not Detected |

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**Client Sample ID: Lab Blank**

**Lab ID#: 1202444-04A**

**MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN**

| | | | |
|---|---|---|---|
| **File Name:** | **e031308c** | **Date of Collection: NA** | |
| **Dil. Factor:** | **1.00** | **Date of Analysis: 3/13/12 02:19 PM** | |

| Compound | Rpt. Limit (ppbv) | Amount (ppbv) | Rpt. Limit (ug/m3) | Amount (ug/m3) |
|---|---|---|---|---|
| Dibromochloromethane | 0.10 | Not Detected | 0.85 | Not Detected |
| 1,2-Dibromoethane (EDB) | 0.10 | Not Detected | 0.77 | Not Detected |
| Chlorobenzene | 0.10 | Not Detected | 0.46 | Not Detected |
| Ethyl Benzene | 0.10 | Not Detected | 0.43 | Not Detected |
| m,p-Xylene | 0.10 | Not Detected | 0.43 | Not Detected |
| o-Xylene | 0.10 | Not Detected | 0.43 | Not Detected |
| Styrene | 0.10 | Not Detected | 0.42 | Not Detected |
| Bromoform | 0.10 | Not Detected | 1.0 | Not Detected |
| Cumene | 0.10 | Not Detected | 0.49 | Not Detected |
| 1,1,2,2-Tetrachloroethane | 0.10 | Not Detected | 0.69 | Not Detected |
| Propylbenzene | 0.10 | Not Detected | 0.49 | Not Detected |
| 4-Ethyltoluene | 0.10 | Not Detected | 0.49 | Not Detected |
| 1,3,5-Trimethylbenzene | 0.10 | Not Detected | 0.49 | Not Detected |
| 1,2,4-Trimethylbenzene | 0.10 | Not Detected | 0.49 | Not Detected |
| 1,3-Dichlorobenzene | 0.10 | Not Detected | 0.60 | Not Detected |
| 1,4-Dichlorobenzene | 0.10 | Not Detected | 0.60 | Not Detected |
| alpha-Chlorotoluene | 0.10 | Not Detected | 0.52 | Not Detected |
| 1,2-Dichlorobenzene | 0.10 | Not Detected | 0.60 | Not Detected |
| 1,2,4-Trichlorobenzene | 0.50 | Not Detected | 3.7 | Not Detected |
| Hexachlorobutadiene | 0.50 | Not Detected | 5.3 | Not Detected |
| 2,3-Dimethylpentane | 0.50 | Not Detected | 2.0 | Not Detected |
| 2-Methylpentane | 0.50 | Not Detected | 1.8 | Not Detected |
| Indene | 0.50 | Not Detected | 2.4 | Not Detected |
| Indan | 0.50 | Not Detected | 2.4 | Not Detected |
| Isopentane | 0.50 | Not Detected | 1.5 | Not Detected |
| Naphthalene | 0.50 | Not Detected | 2.6 | Not Detected |
| Thiophene | 0.50 | Not Detected | 1.7 | Not Detected |

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

**TENTATIVELY IDENTIFIED COMPOUNDS**

| Compound | CAS Number | Match Quality | Amount ((ppbv)) |
|---|---|---|---|
| None Identified | | | |

**Container Type: NA - Not Applicable**

| Surrogates | %Recovery | Method Limits |
|---|---|---|
| 1,2-Dichloroethane-d4 | 103 | 70-130 |
| Toluene-d8 | 98 | 70-130 |
| 4-Bromofluorobenzene | 101 | 70-130 |

Air Toxics Ltd.

EPA TO-15/Modified TO14A

Data file : /chem/msde.i/13Mar2012.b/e031308c.d
Lab Smp Id: Lab Blank Client Smp ID: Lab Blank
Inj Date : 13-MAR-2012 14:19
Operator : LL Inst ID: msde.i
Smp Info : 250mL #35279
Misc Info : HUMID
Comment : Low-Level/GC-MS
Method : /chem/msde.i/13Mar2012.b/e12l0308b.m
Meth Date : 13-Mar-2012 12:57 llarson Quant Type: ISTD
Cal Date : 10-MAR-2012 19:22 Cal File: e031014.d
Als bottle: 24
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: PAR16136.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

| Name | Value | Description |
|---|---|---|
| DF | 1.00000 | Dilution Factor |

| RT | EXP RT (REL RT) | MASS | RESPONSE | CONCENTRATIONS ON-COL ( PPBV) | CONCENTRATIONS FINAL ( PPBV) | TARGET RANGE | RATIO |
|---|---|---|---|---|---|---|---|
| * 46 Bromochloromethane | | | | | CAS #: 74-97-5 | | |
| 16.127 | 16.128 (1.000) | 130 | 66613 | 5.00000 | | 80.00- 120.00 | 100.00 |
| 16.127 | 16.128 (1.000) | 128 | 50540 | | | 0.00- 30.00 | 75.87 |
| 16.127 | 16.128 (1.000) | 49 | 60476 | | | 0.00- 30.00 | 90.79 |
| * 58 1,4-Difluorobenzene | | | | | CAS #: 540-36-3 | | |
| 17.586 | 17.586 (1.000) | 114 | 238482 | 5.00000 | | 80.00- 120.00 | 100.00 |
| 17.586 | 17.586 (1.000) | 88 | 43666 | | | 0.00- 30.00 | 18.31 |
| * 75 Chlorobenzene-d5 | | | | | CAS #: 3114-55-4 | | |
| 22.927 | 22.927 (1.000) | 117 | 206474 | 5.00000 | | 80.00- 120.00 | 100.00 |
| 22.927 | 22.927 (1.000) | 82 | 139806 | | | 0.00- 30.00 | 67.71 |
| $ 54 1,2-Dichloroethane-d4 | | | | | CAS #: 17060-07-0 | | |
| 17.013 | 17.013 (1.055) | 65 | 127817 | 5.14903 | 5.149 | 80.00- 120.00 | 100.00 |
| 17.013 | 17.013 (1.055) | 67 | 60648 | | | 0.00- 30.00 | 47.45 |

| RT | EXP RT (REL RT) | MASS | RESPONSE | CONCENTRATIONS ON-COL ( PPBV) | CONCENTRATIONS FINAL ( PPBV) | TARGET RANGE | RATIO |
|---|---|---|---|---|---|---|---|
| $ 67 Toluene-d8 | | | | | CAS #: 2037-26-5 | | |
| 20.368 | 20.368 (1.158) | 98 | 236382 | 4.92095 | 4.921 | 80.00- 120.00 | 100.00 |
| 20.368 | 20.368 (1.158) | 70 | 29428 | | | 0.00- 30.00 | 12.45 |
| 20.368 | 20.368 (1.158) | 100 | 147965 | | | 33.49- 93.49 | 62.60 |
| $ 87 Bromofluorobenzene | | | | | CAS #: 460-00-4 | | |
| 24.525 | 24.526 (1.070) | 174 | 119835 | 5.07349 | 5.073 | 80.00- 120.00 | 100.00 |
| 24.525 | 24.526 (1.070) | 95 | 193358 | | | 133.09- 193.09 | 161.35 |
| 24.525 | 24.526 (1.070) | 176 | 117130 | | | 66.22- 126.22 | 97.74 |

Air Toxics Ltd.

EPA TO-15/Modified TO14A

Data file : /chem/msde.i/13Mar2012.b/e031308c.d
Lab Smp Id: Lab Blank Client Smp ID: Lab Blank
Inj Date : 13-MAR-2012 14:19
Operator : LL Inst ID: msde.i
Smp Info : 250mL #35279
Misc Info : HUMID
Comment : Low-Level/GC-MS
Method : /chem/msde.i/13Mar2012.b/e12l0308b.m
Meth Date : 13-Mar-2012 12:57 llarson Quant Type: ISTD
Cal Date : 10-MAR-2012 19:22 Cal File: e031014.d
Als bottle: 24
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: PAR16136.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

- NO TENTATIVELY IDENTIFIED COMPOUNDS -

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msde.i
Lab File ID: e031308c.d
Lab Smp Id: Lab Blank
Analysis Type: VOA
Quant Type: ISTD
Operator: LL
Method File: /chem/msde.i/13Mar2012.b/e12l0308b.m
Misc Info: HUMID

Calibration Date: 13-MAR-2012
Calibration Time: 09:39
Client Smp ID: Lab Blank
Level: LOW
Sample Type: AIR

| | | AREA LIMIT | | | |
|---|---|---|---|---|---|
| COMPOUND | STANDARD | LOWER | UPPER | SAMPLE | %DIFF |
| 46 Bromochloromethan | 78956 | 47374 | 110538 | 66613 | -15.63 |
| 58 1,4-Difluorobenze | 299545 | 179727 | 419363 | 238482 | -20.39 |
| 75 Chlorobenzene-d5 | 258990 | 155394 | 362586 | 206474 | -20.28 |

| | | RT LIMIT | | | |
|---|---|---|---|---|---|
| COMPOUND | STANDARD | LOWER | UPPER | SAMPLE | %DIFF |
| 46 Bromochloromethan | 16.13 | 15.80 | 16.46 | 16.13 | 0.00 |
| 58 1,4-Difluorobenze | 17.59 | 17.26 | 17.92 | 17.59 | 0.00 |
| 75 Chlorobenzene-d5 | 22.93 | 22.60 | 23.26 | 22.93 | 0.00 |

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Report Date: 13-Mar-2012 13:54

Air Toxics Ltd.

RECOVERY REPORT

Client Name: Client SDG: 13Mar2012
Sample Matrix: GAS Fraction: VOA
Lab Smp Id: Lab Blank Client Smp ID: Lab Blank
Level: LOW Operator: LL
Data Type: MS DATA SampleType: SAMPLE
SpikeList File: AT09.spk Quant Type: ISTD
Sublist File: PAR16136.sub
Method File: /chem/msde.i/13Mar2012.b/e12l0308b.m
Misc Info: HUMID

| SURROGATE COMPOUND | CONC ADDED PPBV | CONC RECOVERED PPBV | % RECOVERED | LIMITS |
|---|---|---|---|---|
| $ 54 1,2-Dichloroethane | 5.000 | 5.149 | 102.98 | 70-130 |
| $ 67 Toluene-d8 | 5.000 | 4.921 | 98.42 | 70-130 |
| $ 87 Bromofluorobenzene | 5.000 | 5.073 | 101.47 | 70-130 |

‹C

Data File: /chem/msde.i/13Mar2012.b/e031308c.d



Date : 13-MAR-2012 14:19

Client ID: Lab Blank

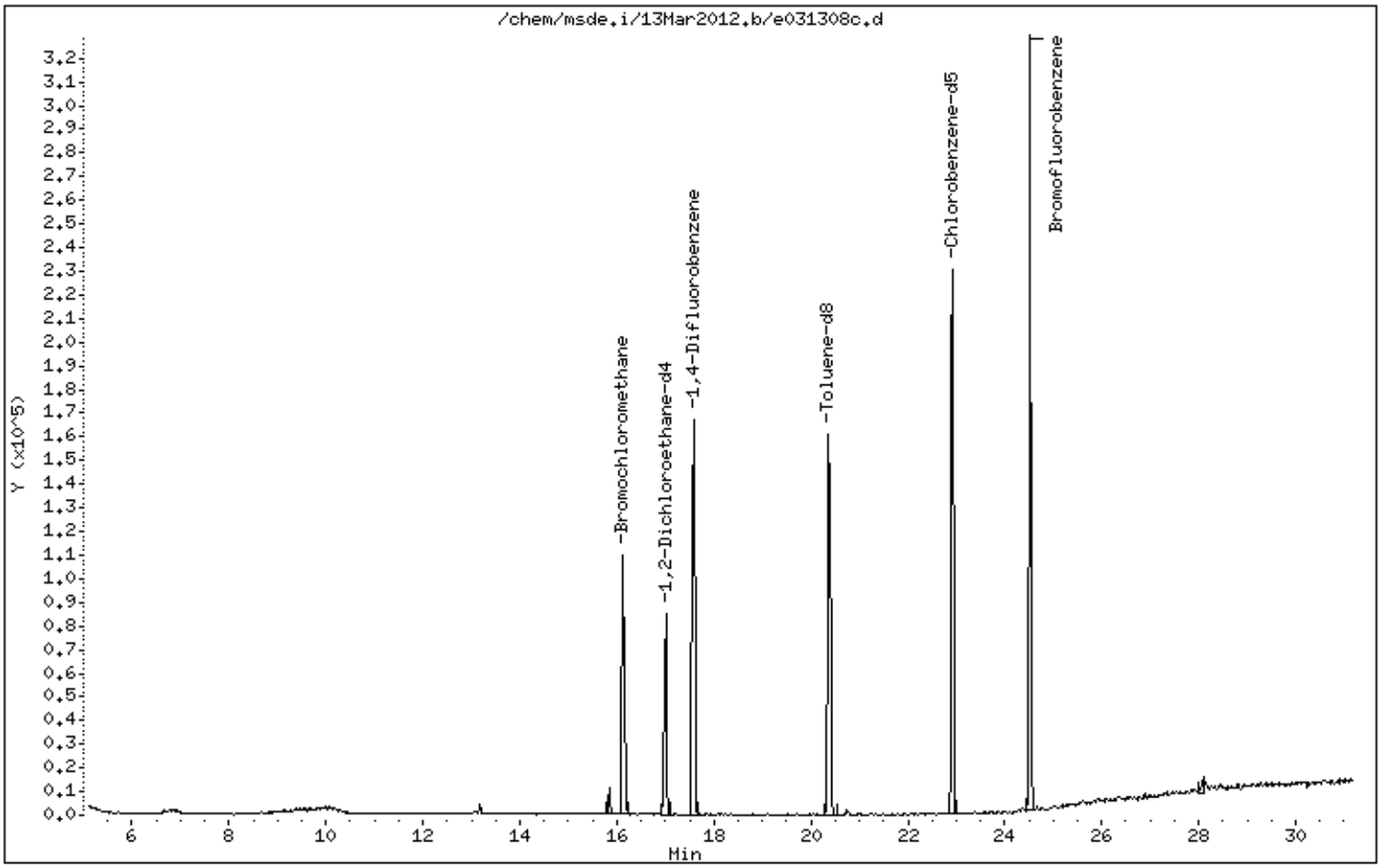
Instrument: msde.i

Sample Info: 250mL #35279

Operator: LL

Column phase: RTx-624

Column diameter: 0.32



eurofins | Air Toxics

**Client Sample ID: Lab Blank**

**Lab ID#: 1202444-04B**

**MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN**

| | | | |
|---|---|---|---|
| **File Name:** | **e031408a** | **Date of Collection: NA** | |
| **Dil. Factor:** | **1.00** | **Date of Analysis: 3/14/12 12:38 PM** | |

| Compound | Rpt. Limit (ppbv) | Amount (ppbv) | Rpt. Limit (ug/m3) | Amount (ug/m3) |
|---|---|---|---|---|
| Freon 12 | 0.10 | Not Detected | 0.49 | Not Detected |
| Freon 114 | 0.10 | Not Detected | 0.70 | Not Detected |
| Chloromethane | 0.10 | Not Detected | 0.21 | Not Detected |
| Vinyl Chloride | 0.10 | Not Detected | 0.26 | Not Detected |
| 1,3-Butadiene | 0.10 | Not Detected | 0.22 | Not Detected |
| Bromomethane | 0.10 | Not Detected | 0.39 | Not Detected |
| Chloroethane | 0.50 | Not Detected | 1.3 | Not Detected |
| Freon 11 | 0.10 | Not Detected | 0.56 | Not Detected |
| Ethanol | 0.50 | Not Detected | 0.94 | Not Detected |
| Freon 113 | 0.10 | Not Detected | 0.77 | Not Detected |
| 1,1-Dichloroethene | 0.10 | Not Detected | 0.40 | Not Detected |
| Acetone | 0.50 | Not Detected | 1.2 | Not Detected |
| 2-Propanol | 0.50 | Not Detected | 1.2 | Not Detected |
| Carbon Disulfide | 0.50 | Not Detected | 1.6 | Not Detected |
| 3-Chloropropene | 0.50 | Not Detected | 1.6 | Not Detected |
| Methylene Chloride | 0.20 | Not Detected | 0.69 | Not Detected |
| Methyl tert-butyl ether | 0.10 | Not Detected | 0.36 | Not Detected |
| trans-1,2-Dichloroethene | 0.10 | Not Detected | 0.40 | Not Detected |
| Hexane | 0.10 | Not Detected | 0.35 | Not Detected |
| 1,1-Dichloroethane | 0.10 | Not Detected | 0.40 | Not Detected |
| 2-Butanone (Methyl Ethyl Ketone) | 0.50 | Not Detected | 1.5 | Not Detected |
| cis-1,2-Dichloroethene | 0.10 | Not Detected | 0.40 | Not Detected |
| Tetrahydrofuran | 0.50 | Not Detected | 1.5 | Not Detected |
| Chloroform | 0.10 | Not Detected | 0.49 | Not Detected |
| 1,1,1-Trichloroethane | 0.10 | Not Detected | 0.54 | Not Detected |
| Cyclohexane | 0.10 | Not Detected | 0.34 | Not Detected |
| Carbon Tetrachloride | 0.10 | Not Detected | 0.63 | Not Detected |
| 2,2,4-Trimethylpentane | 0.50 | Not Detected | 2.3 | Not Detected |
| Benzene | 0.10 | Not Detected | 0.32 | Not Detected |
| 1,2-Dichloroethane | 0.10 | Not Detected | 0.40 | Not Detected |
| Heptane | 0.10 | Not Detected | 0.41 | Not Detected |
| Trichloroethene | 0.10 | Not Detected | 0.54 | Not Detected |
| 1,2-Dichloropropane | 0.10 | Not Detected | 0.46 | Not Detected |
| 1,4-Dioxane | 0.10 | Not Detected | 0.36 | Not Detected |
| Bromodichloromethane | 0.10 | Not Detected | 0.67 | Not Detected |
| cis-1,3-Dichloropropene | 0.10 | Not Detected | 0.45 | Not Detected |
| 4-Methyl-2-pentanone | 0.10 | Not Detected | 0.41 | Not Detected |
| Toluene | 0.10 | Not Detected | 0.38 | Not Detected |
| trans-1,3-Dichloropropene | 0.10 | Not Detected | 0.45 | Not Detected |
| 1,1,2-Trichloroethane | 0.10 | Not Detected | 0.54 | Not Detected |
| Tetrachloroethene | 0.10 | Not Detected | 0.68 | Not Detected |
| 2-Hexanone | 0.50 | Not Detected | 2.0 | Not Detected |

eurofins | Air Toxics

**Client Sample ID: Lab Blank**

**Lab ID#: 1202444-04B**

**MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN**

| | | | |
|---|---|---|---|
| **File Name:** | **e031408a** | **Date of Collection: NA** | |
| **Dil. Factor:** | **1.00** | **Date of Analysis: 3/14/12 12:38 PM** | |

| Compound | Rpt. Limit (ppbv) | Amount (ppbv) | Rpt. Limit (ug/m3) | Amount (ug/m3) |
|---|---|---|---|---|
| Dibromochloromethane | 0.10 | Not Detected | 0.85 | Not Detected |
| 1,2-Dibromoethane (EDB) | 0.10 | Not Detected | 0.77 | Not Detected |
| Chlorobenzene | 0.10 | Not Detected | 0.46 | Not Detected |
| Ethyl Benzene | 0.10 | Not Detected | 0.43 | Not Detected |
| m,p-Xylene | 0.10 | Not Detected | 0.43 | Not Detected |
| o-Xylene | 0.10 | Not Detected | 0.43 | Not Detected |
| Styrene | 0.10 | Not Detected | 0.42 | Not Detected |
| Bromoform | 0.10 | Not Detected | 1.0 | Not Detected |
| Cumene | 0.10 | Not Detected | 0.49 | Not Detected |
| 1,1,2,2-Tetrachloroethane | 0.10 | Not Detected | 0.69 | Not Detected |
| Propylbenzene | 0.10 | Not Detected | 0.49 | Not Detected |
| 4-Ethyltoluene | 0.10 | Not Detected | 0.49 | Not Detected |
| 1,3,5-Trimethylbenzene | 0.10 | Not Detected | 0.49 | Not Detected |
| 1,2,4-Trimethylbenzene | 0.10 | Not Detected | 0.49 | Not Detected |
| 1,3-Dichlorobenzene | 0.10 | Not Detected | 0.60 | Not Detected |
| 1,4-Dichlorobenzene | 0.10 | Not Detected | 0.60 | Not Detected |
| alpha-Chlorotoluene | 0.10 | Not Detected | 0.52 | Not Detected |
| 1,2-Dichlorobenzene | 0.10 | Not Detected | 0.60 | Not Detected |
| 1,2,4-Trichlorobenzene | 0.50 | Not Detected | 3.7 | Not Detected |
| Hexachlorobutadiene | 0.50 | Not Detected | 5.3 | Not Detected |
| 2,3-Dimethylpentane | 0.50 | Not Detected | 2.0 | Not Detected |
| 2-Methylpentane | 0.50 | Not Detected | 1.8 | Not Detected |
| Indene | 0.50 | Not Detected | 2.4 | Not Detected |
| Indan | 0.50 | Not Detected | 2.4 | Not Detected |
| Isopentane | 0.50 | Not Detected | 1.5 | Not Detected |
| Naphthalene | 0.50 | Not Detected | 2.6 | Not Detected |
| Thiophene | 0.50 | Not Detected | 1.7 | Not Detected |

**TENTATIVELY IDENTIFIED COMPOUNDS**

| Compound | CAS Number | Match Quality | Amount ((ppbv)) |
|---|---|---|---|
| None Identified | | | |

**Container Type: NA - Not Applicable**

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

Air Toxics Ltd.

EPA TO-15/Modified TO14A

Data file : /chem/msde.i/14Mar2012.b/e031408a.d
Lab Smp Id: Lab Blank Client Smp ID: Lab Blank
Inj Date : 14-MAR-2012 12:38
Operator : LL Inst ID: msde.i
Smp Info : 250mL #36043
Misc Info : HUMID
Comment : Low-Level/GC-MS
Method : /chem/msde.i/14Mar2012.b/e12l0308b.m
Meth Date : 14-Mar-2012 11:15 croush Quant Type: ISTD
Cal Date : 10-MAR-2012 19:22 Cal File: e031014.d
Als bottle: 24
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: PAR16136.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

| Name | Value | Description |
|---|---|---|
| DF | 1.00000 | Dilution Factor |

| RT | EXP RT (REL RT) | MASS | RESPONSE | CONCENTRATIONS ON-COL ( PPBV) | CONCENTRATIONS FINAL ( PPBV) | TARGET RANGE | RATIO |
|---|---|---|---|---|---|---|---|
| * 46 Bromochloromethane | | | | | CAS #: 74-97-5 | | |
| 16.127 | 16.128 (1.000) | 130 | 78817 | 5.00000 | | 80.00- 120.00 | 100.00 |
| 16.127 | 16.128 (1.000) | 128 | 61070 | | | 0.00- 30.00 | 77.48 |
| 16.127 | 16.128 (1.000) | 49 | 71059 | | | 0.00- 30.00 | 90.16 |
| * 58 1,4-Difluorobenzene | | | | | CAS #: 540-36-3 | | |
| 17.585 | 17.586 (1.000) | 114 | 300237 | 5.00000 | | 80.00- 120.00 | 100.00 |
| 17.585 | 17.586 (1.000) | 88 | 54054 | | | 0.00- 30.00 | 18.00 |
| * 75 Chlorobenzene-d5 | | | | | CAS #: 3114-55-4 | | |
| 22.927 | 22.927 (1.000) | 117 | 262350 | 5.00000 | | 80.00- 120.00 | 100.00 |
| 22.927 | 22.927 (1.000) | 82 | 169552 | | | 0.00- 30.00 | 64.63 |
| $ 54 1,2-Dichloroethane-d4 | | | | | CAS #: 17060-07-0 | | |
| 17.013 | 17.013 (1.055) | 65 | 143984 | 4.90219 | 4.902 | 80.00- 120.00 | 100.00 |
| 17.013 | 17.013 (1.055) | 67 | 68367 | | | 0.00- 30.00 | 47.48 |

| RT | EXP RT (REL RT) | MASS | RESPONSE | CONCENTRATIONS ON-COL ( PPBV) | CONCENTRATIONS FINAL ( PPBV) | TARGET RANGE | RATIO |
|---|---|---|---|---|---|---|---|
| $ 67 Toluene-d8 | | | | | CAS #: 2037-26-5 | | |
| 20.368 | 20.368 (1.158) | 98 | 292479 | 4.83639 | 4.836 | 80.00- 120.00 | 100.00 |
| 20.368 | 20.368 (1.158) | 70 | 35167 | | | 0.00- 30.00 | 12.02 |
| 20.368 | 20.368 (1.158) | 100 | 185856 | | | 35.01- 95.01 | 63.55 |
| $ 87 Bromofluorobenzene | | | | | CAS #: 460-00-4 | | |
| 24.525 | 24.526 (1.070) | 174 | 153497 | 5.11455 | 5.114 | 80.00- 120.00 | 100.00 |
| 24.525 | 24.526 (1.070) | 95 | 238443 | | | 125.48- 185.48 | 155.34 |
| 24.525 | 24.526 (1.070) | 176 | 147793 | | | 67.99- 127.99 | 96.28 |

Air Toxics Ltd.

EPA TO-15/Modified TO14A

Data file : /chem/msde.i/14Mar2012.b/e031408a.d
Lab Smp Id: Lab Blank Client Smp ID: Lab Blank
Inj Date : 14-MAR-2012 12:38
Operator : LL Inst ID: msde.i
Smp Info : 250mL #36043
Misc Info : HUMID
Comment : Low-Level/GC-MS
Method : /chem/msde.i/14Mar2012.b/e12l0308b.m
Meth Date : 14-Mar-2012 11:15 croush Quant Type: ISTD
Cal Date : 10-MAR-2012 19:22 Cal File: e031014.d
Als bottle: 24
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: PAR16136.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

- NO TENTATIVELY IDENTIFIED COMPOUNDS -

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msde.i
Lab File ID: e031408a.d
Lab Smp Id: Lab Blank
Analysis Type: VOA
Quant Type: ISTD
Operator: LL
Method File: /chem/msde.i/14Mar2012.b/e12l0308b.m
Misc Info: HUMID

Calibration Date: 14-MAR-2012
Calibration Time: 10:17
Client Smp ID: Lab Blank
Level: LOW
Sample Type: AIR

| | | AREA LIMIT | | | |
|---|---|---|---|---|---|
| COMPOUND | STANDARD | LOWER | UPPER | SAMPLE | %DIFF |
| 46 Bromochloromethan | 90443 | 54266 | 126620 | 78817 | -12.85 |
| 58 1,4-Difluorobenze | 374503 | 224702 | 524304 | 300237 | -19.83 |
| 75 Chlorobenzene-d5 | 310086 | 186052 | 434120 | 262350 | -15.39 |

| | | RT LIMIT | | | |
|---|---|---|---|---|---|
| COMPOUND | STANDARD | LOWER | UPPER | SAMPLE | %DIFF |
| 46 Bromochloromethan | 16.13 | 15.80 | 16.46 | 16.13 | 0.00 |
| 58 1,4-Difluorobenze | 17.59 | 17.26 | 17.92 | 17.59 | 0.00 |
| 75 Chlorobenzene-d5 | 22.93 | 22.60 | 23.26 | 22.93 | 0.00 |

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Report Date: 14-Mar-2012 12:12

Air Toxics Ltd.

RECOVERY REPORT

Client Name: Client SDG: 14Mar2012
Sample Matrix: GAS Fraction: VOA
Lab Smp Id: Lab Blank Client Smp ID: Lab Blank
Level: LOW Operator: LL
Data Type: MS DATA SampleType: SAMPLE
SpikeList File: AT09.spk Quant Type: ISTD
Sublist File: PAR16136.sub
Method File: /chem/msde.i/14Mar2012.b/e12l0308b.m
Misc Info: HUMID

| SURROGATE COMPOUND | CONC ADDED PPBV | CONC RECOVERED PPBV | % RECOVERED | LIMITS |
|---|---|---|---|---|
| $ 54 1,2-Dichloroethane | 5.000 | 4.902 | 98.04 | 70-130 |
| $ 67 Toluene-d8 | 5.000 | 4.836 | 96.73 | 70-130 |
| $ 87 Bromofluorobenzene | 5.000 | 5.114 | 102.29 | 70-130 |

G`

Data File: /chem/msde.i/14Mar2012.b/e031408a.d



Date : 14-MAR-2012 12:38

Client ID: Lab Blank

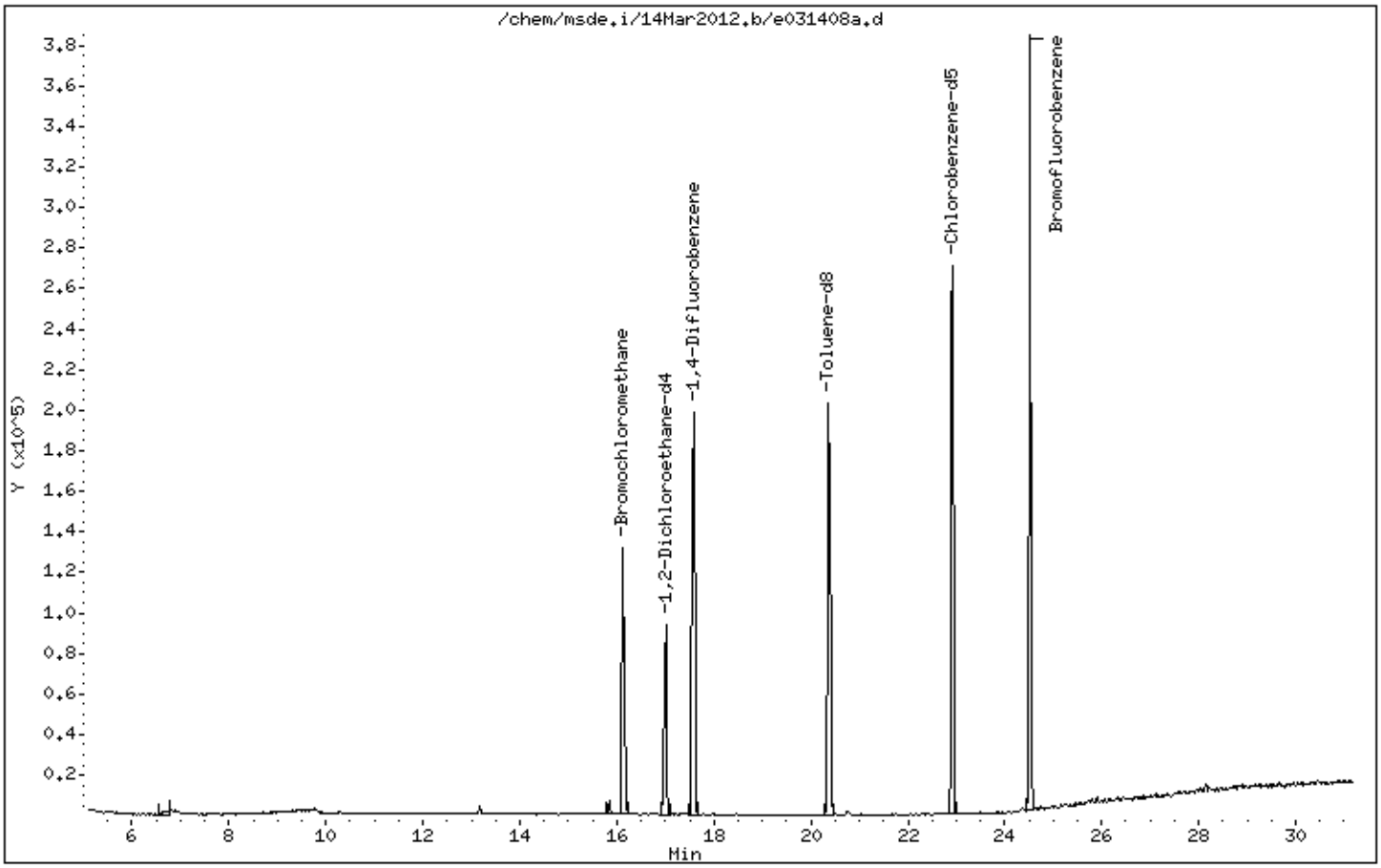
Instrument: msde.i

Sample Info: 250mL #36043

Operator: LL

Column phase: RTx-624

Column diameter: 0.32



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**Client Sample ID: Lab Blank**

**Lab ID#: 1202444-04C**

**MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN**

| | | | |
|---|---|---|---|
| **File Name:** | **e032009c** | **Date of Collection: NA** | |
| **Dil. Factor:** | **1.00** | **Date of Analysis: 3/20/12 04:22 PM** | |

| Compound | Rpt. Limit (ppbv) | Amount (ppbv) | Rpt. Limit (ug/m3) | Amount (ug/m3) |
|---|---|---|---|---|
| Freon 12 | 0.10 | Not Detected | 0.49 | Not Detected |
| Freon 114 | 0.10 | Not Detected | 0.70 | Not Detected |
| Chloromethane | 0.10 | Not Detected | 0.21 | Not Detected |
| Vinyl Chloride | 0.10 | Not Detected | 0.26 | Not Detected |
| 1,3-Butadiene | 0.10 | Not Detected | 0.22 | Not Detected |
| Bromomethane | 0.10 | Not Detected | 0.39 | Not Detected |
| Chloroethane | 0.50 | Not Detected | 1.3 | Not Detected |
| Freon 11 | 0.10 | Not Detected | 0.56 | Not Detected |
| Ethanol | 0.50 | Not Detected | 0.94 | Not Detected |
| Freon 113 | 0.10 | Not Detected | 0.77 | Not Detected |
| 1,1-Dichloroethene | 0.10 | Not Detected | 0.40 | Not Detected |
| Acetone | 0.50 | Not Detected | 1.2 | Not Detected |
| 2-Propanol | 0.50 | Not Detected | 1.2 | Not Detected |
| Carbon Disulfide | 0.50 | Not Detected | 1.6 | Not Detected |
| 3-Chloropropene | 0.50 | Not Detected | 1.6 | Not Detected |
| Methylene Chloride | 0.20 | Not Detected UJ | 0.69 | Not Detected UJ |
| Methyl tert-butyl ether | 0.10 | Not Detected | 0.36 | Not Detected |
| trans-1,2-Dichloroethene | 0.10 | Not Detected | 0.40 | Not Detected |
| Hexane | 0.10 | Not Detected | 0.35 | Not Detected |
| 1,1-Dichloroethane | 0.10 | Not Detected | 0.40 | Not Detected |
| 2-Butanone (Methyl Ethyl Ketone) | 0.50 | Not Detected | 1.5 | Not Detected |
| cis-1,2-Dichloroethene | 0.10 | Not Detected | 0.40 | Not Detected |
| Tetrahydrofuran | 0.50 | Not Detected | 1.5 | Not Detected |
| Chloroform | 0.10 | Not Detected | 0.49 | Not Detected |
| 1,1,1-Trichloroethane | 0.10 | Not Detected | 0.54 | Not Detected |
| Cyclohexane | 0.10 | Not Detected | 0.34 | Not Detected |
| Carbon Tetrachloride | 0.10 | Not Detected | 0.63 | Not Detected |
| 2,2,4-Trimethylpentane | 0.50 | Not Detected | 2.3 | Not Detected |
| Benzene | 0.10 | Not Detected | 0.32 | Not Detected |
| 1,2-Dichloroethane | 0.10 | Not Detected | 0.40 | Not Detected |
| Heptane | 0.10 | Not Detected | 0.41 | Not Detected |
| Trichloroethene | 0.10 | Not Detected | 0.54 | Not Detected |
| 1,2-Dichloropropane | 0.10 | Not Detected | 0.46 | Not Detected |
| 1,4-Dioxane | 0.10 | Not Detected | 0.36 | Not Detected |
| Bromodichloromethane | 0.10 | Not Detected | 0.67 | Not Detected |
| cis-1,3-Dichloropropene | 0.10 | Not Detected | 0.45 | Not Detected |
| 4-Methyl-2-pentanone | 0.10 | Not Detected | 0.41 | Not Detected |
| Toluene | 0.10 | Not Detected | 0.38 | Not Detected |
| trans-1,3-Dichloropropene | 0.10 | Not Detected | 0.45 | Not Detected |
| 1,1,2-Trichloroethane | 0.10 | Not Detected | 0.54 | Not Detected |
| Tetrachloroethene | 0.10 | Not Detected | 0.68 | Not Detected |
| 2-Hexanone | 0.50 | Not Detected | 2.0 | Not Detected |

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**Client Sample ID: Lab Blank**

**Lab ID#: 1202444-04C**

**MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN**

| | | | |
|---|---|---|---|
| **File Name:** | **e032009c** | **Date of Collection: NA** | |
| **Dil. Factor:** | **1.00** | **Date of Analysis: 3/20/12 04:22 PM** | |

| Compound | Rpt. Limit (ppbv) | Amount (ppbv) | Rpt. Limit (ug/m3) | Amount (ug/m3) |
|---|---|---|---|---|
| Dibromochloromethane | 0.10 | Not Detected | 0.85 | Not Detected |
| 1,2-Dibromoethane (EDB) | 0.10 | Not Detected | 0.77 | Not Detected |
| Chlorobenzene | 0.10 | Not Detected | 0.46 | Not Detected |
| Ethyl Benzene | 0.10 | Not Detected | 0.43 | Not Detected |
| m,p-Xylene | 0.10 | Not Detected | 0.43 | Not Detected |
| o-Xylene | 0.10 | Not Detected | 0.43 | Not Detected |
| Styrene | 0.10 | Not Detected | 0.42 | Not Detected |
| Bromoform | 0.10 | Not Detected | 1.0 | Not Detected |
| Cumene | 0.10 | Not Detected | 0.49 | Not Detected |
| 1,1,2,2-Tetrachloroethane | 0.10 | Not Detected | 0.69 | Not Detected |
| Propylbenzene | 0.10 | Not Detected | 0.49 | Not Detected |
| 4-Ethyltoluene | 0.10 | Not Detected | 0.49 | Not Detected |
| 1,3,5-Trimethylbenzene | 0.10 | Not Detected | 0.49 | Not Detected |
| 1,2,4-Trimethylbenzene | 0.10 | Not Detected | 0.49 | Not Detected |
| 1,3-Dichlorobenzene | 0.10 | Not Detected | 0.60 | Not Detected |
| 1,4-Dichlorobenzene | 0.10 | Not Detected | 0.60 | Not Detected |
| alpha-Chlorotoluene | 0.10 | Not Detected | 0.52 | Not Detected |
| 1,2-Dichlorobenzene | 0.10 | Not Detected | 0.60 | Not Detected |
| 1,2,4-Trichlorobenzene | 0.50 | Not Detected | 3.7 | Not Detected |
| Hexachlorobutadiene | 0.50 | Not Detected | 5.3 | Not Detected |
| 2,3-Dimethylpentane | 0.50 | Not Detected | 2.0 | Not Detected |
| 2-Methylpentane | 0.50 | Not Detected | 1.8 | Not Detected |
| Indene | 0.50 | Not Detected | 2.4 | Not Detected |
| Indan | 0.50 | Not Detected | 2.4 | Not Detected |
| Isopentane | 0.50 | Not Detected | 1.5 | Not Detected |
| Naphthalene | 0.50 | Not Detected | 2.6 | Not Detected |
| Thiophene | 0.50 | Not Detected | 1.7 | Not Detected |

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

**TENTATIVELY IDENTIFIED COMPOUNDS**

| Compound | CAS Number | Match Quality | Amount ((ppbv)) |
|---|---|---|---|
| None Identified | | | |

**Container Type: NA - Not Applicable**

| Surrogates | %Recovery | Method Limits |
|---|---|---|
| 1,2-Dichloroethane-d4 | 111 | 70-130 |
| Toluene-d8 | 98 | 70-130 |
| 4-Bromofluorobenzene | 107 | 70-130 |

Air Toxics Ltd.

EPA TO-15/Modified TO14A

Data file : /chem/msde.i/20Mar2012.b/e032009c.d
Lab Smp Id: Lab Blank Client Smp ID: Lab Blank
Inj Date : 20-MAR-2012 16:22
Operator : sac Inst ID: msde.i
Smp Info : 250mL #36043
Misc Info : HUMID
Comment : Low-Level/GC-MS
Method : /chem/msde.i/20Mar2012.b/e12l0308c.m
Meth Date : 20-Mar-2012 14:58 llarson Quant Type: ISTD
Cal Date : 16-MAR-2012 11:53 Cal File: e031607.d
Als bottle: 24
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: PAR16136.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

| Name | Value | Description |
|---|---|---|
| DF | 1.00000 | Dilution Factor |

| RT | EXP RT (REL RT) | MASS | RESPONSE | CONCENTRATIONS ON-COL ( PPBV) | CONCENTRATIONS FINAL ( PPBV) | TARGET RANGE | RATIO |
|---|---|---|---|---|---|---|---|
| * 46 Bromochloromethane | | | | | CAS #: 74-97-5 | | |
| 16.128 | 16.128 (1.000) | 130 | 77532 | 5.00000 | | 80.00- 120.00 | 100.00 |
| 16.128 | 16.128 (1.000) | 128 | 60162 | | | 0.00- 30.00 | 77.60 |
| 16.128 | 16.128 (1.000) | 49 | 68054 | | | 0.00- 30.00 | 87.78 |
| * 58 1,4-Difluorobenzene | | | | | CAS #: 540-36-3 | | |
| 17.586 | 17.586 (1.000) | 114 | 306613 | 5.00000 | | 80.00- 120.00 | 100.00 |
| 17.586 | 17.586 (1.000) | 88 | 54069 | | | 0.00- 30.00 | 17.63 |
| * 75 Chlorobenzene-d5 | | | | | CAS #: 3114-55-4 | | |
| 22.927 | 22.925 (1.000) | 117 | 255564 | 5.00000 | | 80.00- 120.00 | 100.00 |
| 22.903 | 22.925 (1.000) | 82 | 177025 | | | 0.00- 30.00 | 69.27 |
| $ 54 1,2-Dichloroethane-d4 | | | | | CAS #: 17060-07-0 | | |
| 17.013 | 17.013 (1.055) | 65 | 160635 | 5.55975 | 5.560 | 80.00- 120.00 | 100.00 |
| 17.013 | 17.013 (1.055) | 67 | 76622 | | | 0.00- 30.00 | 47.70 |

| RT | EXP RT (REL RT) | MASS | RESPONSE | CONCENTRATIONS ON-COL ( PPBV) | FINAL ( PPBV) | TARGET RANGE | RATIO |
|---|---|---|---|---|---|---|---|
| $ 67 Toluene-d8 | | | | | CAS #: 2037-26-5 | | |
| 20.368 | 20.368 (1.158) | 98 | 301567 | 4.88297 | 4.883 | 80.00- 120.00 | 100.00 |
| 20.368 | 20.368 (1.158) | 70 | 36732 | | | 0.00- 30.00 | 12.18 |
| 20.368 | 20.368 (1.158) | 100 | 188502 | | | 33.74- 93.74 | 62.51 |
| $ 87 Bromofluorobenzene | | | | | CAS #: 460-00-4 | | |
| 24.526 | 24.523 (1.070) | 174 | 156513 | 5.35352 | 5.354 | 80.00- 120.00 | 100.00 |
| 24.526 | 24.523 (1.070) | 95 | 240269 | | | 121.72- 181.72 | 153.51 |
| 24.526 | 24.523 (1.070) | 176 | 147867 | | | 65.45- 125.45 | 94.48 |

Air Toxics Ltd.

EPA TO-15/Modified TO14A

Data file : /chem/msde.i/20Mar2012.b/e032009c.d
Lab Smp Id: Lab Blank Client Smp ID: Lab Blank
Inj Date : 20-MAR-2012 16:22
Operator : sac Inst ID: msde.i
Smp Info : 250mL #36043
Misc Info : HUMID
Comment : Low-Level/GC-MS
Method : /chem/msde.i/20Mar2012.b/e12l0308c.m
Meth Date : 20-Mar-2012 14:58 llarson Quant Type: ISTD
Cal Date : 16-MAR-2012 11:53 Cal File: e031607.d
Als bottle: 24
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: PAR16136.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

- NO TENTATIVELY IDENTIFIED COMPOUNDS -

Report Date: 20-Mar-2012 17:04

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msde.i
Lab File ID: e032009c.d
Lab Smp Id: Lab Blank
Analysis Type: VOA
Quant Type: ISTD
Operator: sac
Method File: /chem/msde.i/20Mar2012.b/e12l0308c.m
Misc Info: HUMID

Calibration Date: 20-MAR-2012
Calibration Time: 10:17
Client Smp ID: Lab Blank
Level: LOW
Sample Type: AIR

| | | AREA LIMIT | | | |
|---|---|---|---|---|---|
| COMPOUND | STANDARD | LOWER | UPPER | SAMPLE | %DIFF |
| 46 Bromochloromethan | 103496 | 62098 | 144894 | 77532 | -25.09 |
| 58 1,4-Difluorobenze | 407788 | 244673 | 570903 | 306613 | -24.81 |
| 75 Chlorobenzene-d5 | 335497 | 201298 | 469696 | 255564 | -23.83 |

| | | RT LIMIT | | | |
|---|---|---|---|---|---|
| COMPOUND | STANDARD | LOWER | UPPER | SAMPLE | %DIFF |
| 46 Bromochloromethan | 16.13 | 15.80 | 16.46 | 16.13 | 0.00 |
| 58 1,4-Difluorobenze | 17.59 | 17.26 | 17.92 | 17.59 | 0.00 |
| 75 Chlorobenzene-d5 | 22.92 | 22.59 | 23.25 | 22.93 | 0.01 |

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Air Toxics Ltd.

RECOVERY REPORT

Client Name: Client SDG: 20Mar2012
Sample Matrix: GAS Fraction: VOA
Lab Smp Id: Lab Blank Client Smp ID: Lab Blank
Level: LOW Operator: sac
Data Type: MS DATA SampleType: SAMPLE
SpikeList File: AT09.spk Quant Type: ISTD
Sublist File: PAR16136.sub
Method File: /chem/msde.i/20Mar2012.b/e12l0308c.m
Misc Info: HUMID

| SURROGATE COMPOUND | CONC ADDED PPBV | CONC RECOVERED PPBV | % RECOVERED | LIMITS |
|---|---|---|---|---|
| $ 54 1,2-Dichloroethane | 5.000 | 5.560 | 111.20 | 70-130 |
| $ 67 Toluene-d8 | 5.000 | 4.883 | 97.66 | 70-130 |
| $ 87 Bromofluorobenzene | 5.000 | 5.354 | 107.07 | 70-130 |

Âa

Data File: /chem/msde.i/20Mar2012.b/e032009c.d 

Date : 20-MAR-2012 16:22

Client ID: Lab Blank

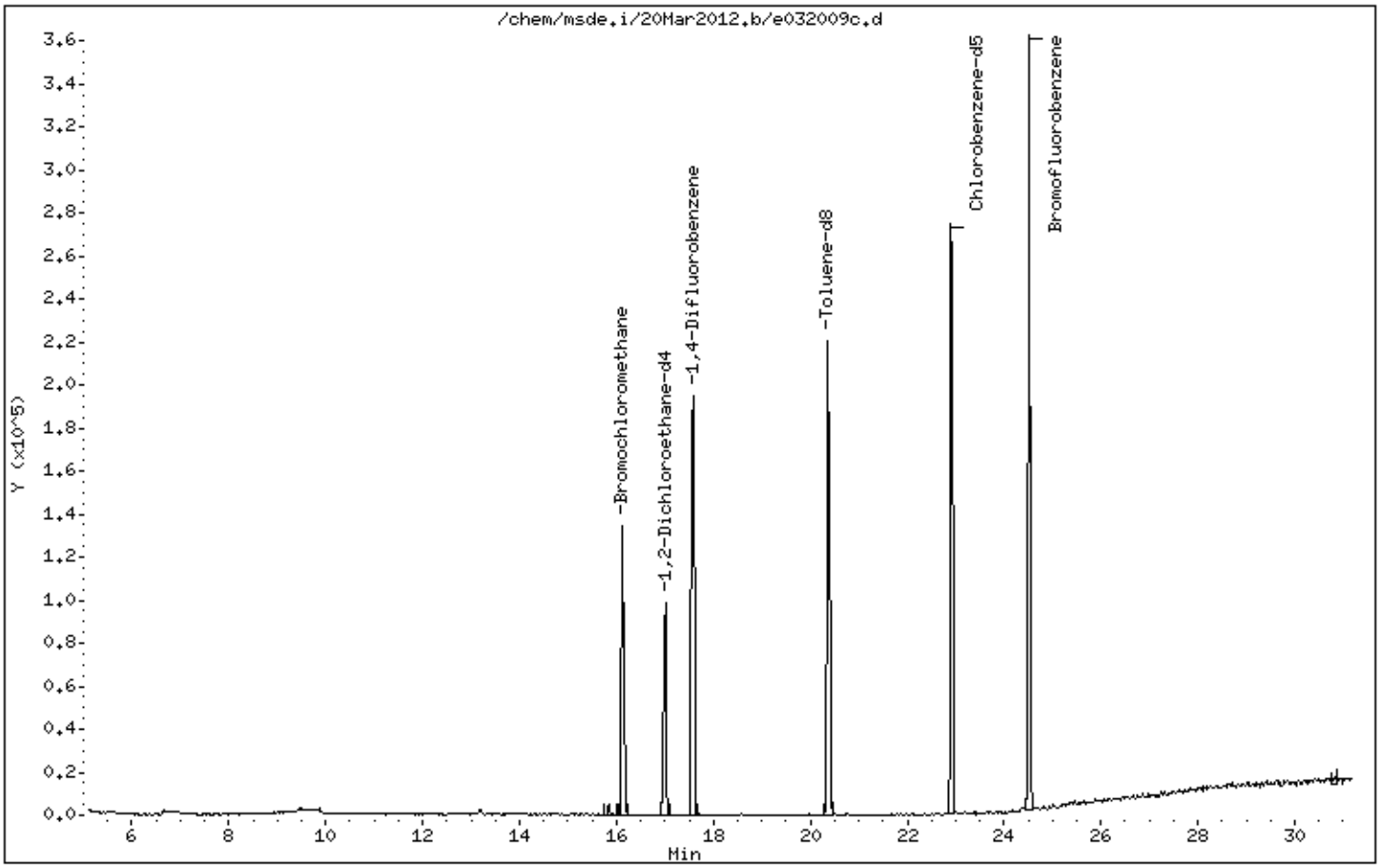
Instrument: msde.i

Sample Info: 250mL #36043

Operator: sac

Column phase: RTx-624

Column diameter: 0.32



# LEVEL-IV VALIDATABLE

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

SURROGATE RECOVERY FORM

Lab Name: AIR TOXICS LIMITED. SDG No.: 1202444

| | CLIENT SAMPLE NO. | SURROGATE % RECOVERY | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | 1,2-Dichloroethane-d4 | # | Toluene-d8 | # | 4-Bromofluorobenzene | # | | # | TOTAL OUT |
| 01 | SG-3 | 107 | | 96 | | 104 | | | | 0 |
| 02 | SG-4 | 108 | | 102 | | 104 | | | | 0 |
| 03 | SG-5 | 154 | * | 103 | | 105 | | | | 1 |
| 04 | Lab Blank | 103 | | 98 | | 101 | | | | 0 |
| 05 | Lab Blank | 98 | | 97 | | 102 | | | | 0 |
| 06 | Lab Blank | 111 | | 98 | | 107 | | | | 0 |
| 07 | CCV | 106 | | 101 | | 103 | | | | 0 |
| 08 | CCV | 98 | | 100 | | 101 | | | | 0 |
| 09 | CCV | 96 | | 99 | | 106 | | | | 0 |
| 10 | LCS | 104 | | 102 | | 101 | | | | 0 |
| 11 | LCSD | 105 | | 104 | | 104 | | | | 0 |
| 12 | LCS | 97 | | 100 | | 101 | | | | 0 |
| 13 | LCSD | 94 | | 101 | | 101 | | | | 0 |
| 14 | LCS | 95 | | 102 | | 105 | | | | 0 |
| 15 | LCSD | 100 | | 102 | | 107 | | | | 0 |
| 16 | | | | | | | | | | 0 |
| 17 | | | | | | | | | | 0 |
| 18 | | | | | | | | | | 0 |
| 19 | | | | | | | | | | 0 |
| 20 | | | | | | | | | | 0 |
| 21 | | | | | | | | | | 0 |
| 22 | | | | | | | | | | 0 |
| 23 | | | | | | | | | | 0 |
| 24 | | | | | | | | | | 0 |

Surrogate Recovery Limits

1,2-Dichloroethane-d4 70 - 130
Toluene-d8 70 - 130
4-Bromofluorobenzene 70 - 130

* Designates values outside of QC limits

# LEVEL-IV VALIDATABLE

Modified EPA Method TO-15 GC/MS Full Scan

INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: AIR TOXICS, LTD | SDG No: 1202444

Lab File ID: e031302.d | Date Analyzed: 03/13/2012

Instrument ID: msde.i | Time Analyzed: 09:39 AM

| | | Chlorobenzene-d5 Area | # | RT | # | 1,4-Difluorobenzene Area | # | RT | # | Bromochloromethane Area | # | RT | # |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 24-HOUR STD | 258990 | | 22.93 | | 299545 | | 17.59 | | 78956 | | 16.13 | |
| | UPPER LIMIT | 362586 | | 23.26 | | 419363 | | 17.92 | | 110538 | | 16.46 | |
| | LOWER LIMIT | 155394 | | 22.60 | | 179727 | | 17.26 | | 47374 | | 15.80 | |
| | CLIENT SAMPLE NO | | | | | | | | | | | | |
| 01 | SG-3 | 223416 | | 22.93 | | 258876 | | 17.59 | | 69822 | | 16.13 | |
| 02 | Lab Blank | 206474 | | 22.93 | | 238482 | | 17.59 | | 66613 | | 16.13 | |
| 03 | CCV | 258990 | | 22.93 | | 299545 | | 17.59 | | 78956 | | 16.13 | |
| 04 | LCS | 271767 | | 22.93 | | 314763 | | 17.59 | | 80927 | | 16.13 | |
| 05 | LCSD | 271511 | | 22.93 | | 321158 | | 17.59 | | 80779 | | 16.13 | |
| 06 | | | | | | | | | | | | | |
| 07 | | | | | | | | | | | | | |
| 08 | | | | | | | | | | | | | |
| 09 | | | | | | | | | | | | | |
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| 19 | | | | | | | | | | | | | |
| 20 | | | | | | | | | | | | | |
| 21 | | | | | | | | | | | | | |
| 22 | | | | | | | | | | | | | |

'Area Upper Limit=+40% of internal standard area'

'Area Lower Limit=-40% of internal standard area'

RT Upper Limit=+0.33 minutes of internal standard RT

RT Lower Limit=-0.33 minutes of internal standard RT

* Designates values outside of QC limits

# LEVEL-IV VALIDATABLE

Modified EPA Method TO-15 GC/MS Full Scan

INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: AIR TOXICS, LTD | SDG No: 1202444

Lab File ID: e031405.d | Date Analyzed: 03/14/2012

Instrument ID: msde.i | Time Analyzed: 10:17 AM

| | | Chlorobenzene-d5 Area | # | RT | # | 1,4-Difluorobenzene Area | # | RT | # | Bromochloromethane Area | # | RT | # |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 24-HOUR STD | 310086 | | 22.93 | | 374503 | | 17.59 | | 90443 | | 16.13 | |
| | UPPER LIMIT | 434120 | | 23.26 | | 524304 | | 17.92 | | 126620 | | 16.46 | |
| | LOWER LIMIT | 186052 | | 22.60 | | 224702 | | 17.26 | | 54266 | | 15.80 | |
| | CLIENT SAMPLE NO | | | | | | | | | | | | |
| 01 | SG-4 | 287820 | | 22.93 | | 335116 | | 17.59 | | 80182 | | 16.13 | |
| 02 | Lab Blank | 262350 | | 22.93 | | 300237 | | 17.59 | | 78817 | | 16.13 | |
| 03 | CCV | 310086 | | 22.93 | | 374503 | | 17.59 | | 90443 | | 16.13 | |
| 04 | LCS | 301188 | | 22.93 | | 356986 | | 17.59 | | 89660 | | 16.13 | |
| 05 | LCSD | 298888 | | 22.93 | | 353753 | | 17.59 | | 89024 | | 16.13 | |
| 06 | | | | | | | | | | | | | |
| 07 | | | | | | | | | | | | | |
| 08 | | | | | | | | | | | | | |
| 09 | | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | | |
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| 21 | | | | | | | | | | | | | |
| 22 | | | | | | | | | | | | | |

'Area Upper Limit=+40% of internal standard area'

'Area Lower Limit=-40% of internal standard area'

RT Upper Limit=+0.33 minutes of internal standard RT

RT Lower Limit=-0.33 minutes of internal standard RT

* Designates values outside of QC limits

# LEVEL-IV VALIDATABLE

Modified EPA Method TO-15 GC/MS Full Scan

INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: AIR TOXICS, LTD | SDG No: 1202444

Lab File ID: e032002.d | Date Analyzed: 03/20/2012

Instrument ID: msde.i | Time Analyzed: 10:17 AM

| | | Chlorobenzene-d5 Area | # | RT | # | 1,4-Difluorobenzene Area | # | RT | # | Bromochloromethane Area | # | RT | # |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 24-HOUR STD | 335497 | | 22.92 | | 407788 | | 17.59 | | 103496 | | 16.13 | |
| | UPPER LIMIT | 469696 | | 23.25 | | 570903 | | 17.92 | | 144894 | | 16.46 | |
| | LOWER LIMIT | 201298 | | 22.59 | | 244673 | | 17.26 | | 62098 | | 15.80 | |
| | CLIENT SAMPLE NO | | | | | | | | | | | | |
| 01 | SG-5 | 274598 | | 22.92 | | 308054 | | 17.59 | | 75662 | | 16.13 | |
| 02 | Lab Blank | 255564 | | 22.93 | | 306613 | | 17.59 | | 77532 | | 16.13 | |
| 03 | CCV | 335497 | | 22.92 | | 407788 | | 17.59 | | 103496 | | 16.13 | |
| 04 | LCS | 329283 | | 22.92 | | 385229 | | 17.59 | | 100113 | | 16.13 | |
| 05 | LCSD | 316308 | | 22.92 | | 359442 | | 17.59 | | 95972 | | 16.13 | |
| 06 | | | | | | | | | | | | | |
| 07 | | | | | | | | | | | | | |
| 08 | | | | | | | | | | | | | |
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| 20 | | | | | | | | | | | | | |
| 21 | | | | | | | | | | | | | |
| 22 | | | | | | | | | | | | | |

'Area Upper Limit=+40% of internal standard area'

'Area Lower Limit=-40% of internal standard area'

RT Upper Limit=+0.33 minutes of internal standard RT

RT Lower Limit=-0.33 minutes of internal standard RT

* Designates values outside of QC limits

# SAMPLE RESULTS/SAMPLE RESULTS DUPLICATE

Lab Name: Air Toxics Ltd.
Lab File ID: e031304.d & e031303.d
Lab Sample ID: &
Dilution: 1.00 & 1.00
Client Sample ID: LCS & LCSD
Date Analyzed: 3/13/12 & 3/13/12

| CAS Number | Compound | Original Amount | Original Flags | Duplicate Amount | Duplicate Flags | RPD | Result Less Than 5X RL |
|---|---|---|---|---|---|---|---|
| 71-55-6 | 1,1,1-Trichloroethane | 104 | | 103 | | 0.97 | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 102 | | 103 | | 0.98 | |
| 79-00-5 | 1,1,2-Trichloroethane | 96 | | 98 | | 2.1 | |
| 75-34-3 | 1,1-Dichloroethane | 101 | | 98 | | 3.0 | |
| 75-35-4 | 1,1-Dichloroethene | 104 | | 108 | | 3.8 | |
| 120-82-1 | 1,2,4-Trichlorobenzene | 112 | | 107 | | 4.6 | |
| 95-63-6 | 1,2,4-Trimethylbenzene | 113 | | 111 | | 1.8 | |
| 106-93-4 | 1,2-Dibromoethane (EDB) | 103 | | 104 | | 0.97 | |
| 95-50-1 | 1,2-Dichlorobenzene | 100 | | 99 | | 1.0 | |
| 107-06-2 | 1,2-Dichloroethane | 100 | | 97 | | 3.0 | |
| 78-87-5 | 1,2-Dichloropropane | 96 | | 94 | | 2.1 | |
| 108-67-8 | 1,3,5-Trimethylbenzene | 107 | | 107 | | 0 | |
| 106-99-0 | 1,3-Butadiene | 100 | | 100 | | 0 | |
| 541-73-1 | 1,3-Dichlorobenzene | 102 | | 101 | | 0.98 | |
| 106-46-7 | 1,4-Dichlorobenzene | 99 | | 99 | | 0 | |
| 123-91-1 | 1,4-Dioxane | 107 | | 103 | | 3.8 | |
| 540-84-1 | 2,2,4-Trimethylpentane | 93 | | 93 | | 0 | |
| 565-59-3 | 2,3-Dimethylpentane | ND | | ND | | 0 | |
| 78-93-3 | 2-Butanone (Methyl Ethyl Ketone) | 104 | | 94 | | 10 | |
| 591-78-6 | 2-Hexanone | 105 | | 108 | | 2.8 | |
| 107-83-5 | 2-Methylpentane | ND | | ND | | 0 | |
| 67-63-0 | 2-Propanol | 103 | | 104 | | 0.97 | |
| 107-05-1 | 3-Chloropropene | 116 | | 117 | | 0.86 | |
| 622-96-8 | 4-Ethyltoluene | 104 | | 104 | | 0 | |
| 108-10-1 | 4-Methyl-2-pentanone | 114 | | 113 | | 0.88 | |
| 67-64-1 | Acetone | 93 | | 94 | | 1.1 | |
| 100-44-7 | alpha-Chlorotoluene | 105 | | 106 | | 0.95 | |
| 71-43-2 | Benzene | 97 | | 94 | | 3.1 | |
| 75-27-4 | Bromodichloromethane | 102 | | 100 | | 2.0 | |
| 75-25-2 | Bromoform | 107 | | 106 | | 0.94 | |
| 74-83-9 | Bromomethane | 78 | | 82 | | 5.0 | |
| 75-15-0 | Carbon Disulfide | 114 | | 116 | | 1.7 | |
| 56-23-5 | Carbon Tetrachloride | 79 | | 79 | | 0 | |
| 108-90-7 | Chlorobenzene | 96 | | 97 | | 1.0 | |
| 75-00-3 | Chloroethane | 96 | | 97 | | 1.0 | |
| 67-66-3 | Chloroform | 102 | | 101 | | 0.98 | |
| 74-87-3 | Chloromethane | 98 | | 97 | | 1.0 | |
| 156-59-2 | cis-1,2-Dichloroethene | 105 | | 107 | | 1.9 | |
| 10061-01-5 | cis-1,3-Dichloropropene | 105 | | 104 | | 0.96 | |
| 98-82-8 | Cumene | 110 | | 111 | | 0.90 | |
| 110-82-7 | Cyclohexane | 104 | | 105 | | 0.96 | |
| 124-48-1 | Dibromochloromethane | 107 | | 106 | | 0.94 | |
| 64-17-5 | Ethanol | 91 | | 91 | | 0 | |
| 100-41-4 | Ethyl Benzene | 102 | | 103 | | 0.98 | |
| 75-69-4 | Freon 11 | 97 | | 95 | | 2.1 | |

Note: The results appearing in the Amount columns are the raw, unrounded numbers acquired from the instrument.

# SAMPLE RESULTS/SAMPLE RESULTS DUPLICATE

Lab Name: Air Toxics Ltd.

Lab File ID: e031304.d & e031303.d

Lab Sample ID: &

Dilution: 1.00 & 1.00

Client Sample ID: LCS & LCSD

Date Analyzed: 3/13/12 & 3/13/12

| CAS Number | Compound | Original Amount | Original Flags | Duplicate Amount | Duplicate Flags | RPD | Result Less Than 5X RL |
|---|---|---|---|---|---|---|---|
| 76-13-1 | Freon 113 | 97 | | 99 | | 2.0 | |
| 76-14-2 | Freon 114 | 99 | | 99 | | 0 | |
| 75-71-8 | Freon 12 | 102 | | 100 | | 2.0 | |
| 142-82-5 | Heptane | 107 | | 107 | | 0 | |
| 87-68-3 | Hexachlorobutadiene | 107 | | 101 | | 5.8 | |
| 110-54-3 | Hexane | 103 | | 105 | | 1.9 | |
| 496-11-7 | Indan | ND | | ND | | 0 | |
| 95-13-6 | Indene | ND | | ND | | 0 | |
| 78-78-4 | Isopentane | 94 | | 95 | | 1.0 | |
| 108-38-3 | m,p-Xylene | 105 | | 108 | | 2.8 | |
| 1634-04-4 | Methyl tert-butyl ether | 108 | | 108 | | 0 | |
| 75-09-2 | Methylene Chloride | 74 | | 73 | | 1.4 | |
| 91-20-3 | Naphthalene | 87 | | 79 | | 9.6 | |
| 95-47-6 | o-Xylene | 106 | | 108 | | 1.9 | |
| 103-65-1 | Propylbenzene | 107 | | 106 | | 0.94 | |
| 100-42-5 | Styrene | 108 | | 108 | | 0 | |
| 127-18-4 | Tetrachloroethene | 97 | | 99 | | 2.0 | |
| 109-99-9 | Tetrahydrofuran | 97 | | 95 | | 2.1 | |
| 110-02-1 | Thiophene | ND | | ND | | 0 | |
| 108-88-3 | Toluene | 98 | | 96 | | 2.1 | |
| 156-60-5 | trans-1,2-Dichloroethene | 111 | | 114 | | 2.7 | |
| 10061-02-6 | trans-1,3-Dichloropropene | 115 | | 116 | | 0.86 | |
| 79-01-6 | Trichloroethene | 92 | | 89 | | 3.3 | |
| 75-01-4 | Vinyl Chloride | 100 | | 100 | | 0 | |

Note: The results appearing in the Amount columns are the raw, unrounded numbers acquired from the instrument.

# SAMPLE RESULTS/SAMPLE RESULTS DUPLICATE

Lab Name: Air Toxics Ltd.
Lab File ID: e031404.d & e031403.d
Lab Sample ID: &
Dilution: 1.00 & 1.00
Client Sample ID: LCS & LCSD
Date Analyzed: 3/14/12 & 3/14/12

| CAS Number | Compound | Original Amount | Original Flags | Duplicate Amount | Duplicate Flags | RPD | Result Less Than 5X RL |
|---|---|---|---|---|---|---|---|
| 71-55-6 | 1,1,1-Trichloroethane | 96 | | 94 | | 2.1 | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 98 | | 95 | | 3.1 | |
| 79-00-5 | 1,1,2-Trichloroethane | 93 | | 93 | | 0 | |
| 75-34-3 | 1,1-Dichloroethane | 93 | | 92 | | 1.1 | |
| 75-35-4 | 1,1-Dichloroethene | 104 | | 104 | | 0 | |
| 120-82-1 | 1,2,4-Trichlorobenzene | 110 | | 106 | | 3.7 | |
| 95-63-6 | 1,2,4-Trimethylbenzene | 106 | | 104 | | 1.9 | |
| 106-93-4 | 1,2-Dibromoethane (EDB) | 99 | | 98 | | 1.0 | |
| 95-50-1 | 1,2-Dichlorobenzene | 95 | | 93 | | 2.1 | |
| 107-06-2 | 1,2-Dichloroethane | 90 | | 88 | | 2.2 | |
| 78-87-5 | 1,2-Dichloropropane | 90 | | 89 | | 1.1 | |
| 108-67-8 | 1,3,5-Trimethylbenzene | 101 | | 99 | | 2.0 | |
| 106-99-0 | 1,3-Butadiene | 94 | | 94 | | 0 | |
| 541-73-1 | 1,3-Dichlorobenzene | 96 | | 96 | | 0 | |
| 106-46-7 | 1,4-Dichlorobenzene | 95 | | 94 | | 1.0 | |
| 123-91-1 | 1,4-Dioxane | 100 | | 100 | | 0 | |
| 540-84-1 | 2,2,4-Trimethylpentane | 90 | | 89 | | 1.1 | |
| 565-59-3 | 2,3-Dimethylpentane | ND | | ND | | 0 | |
| 78-93-3 | 2-Butanone (Methyl Ethyl Ketone) | 99 | | 92 | | 7.3 | |
| 591-78-6 | 2-Hexanone | 103 | | 102 | | 0.98 | |
| 107-83-5 | 2-Methylpentane | ND | | ND | | 0 | |
| 67-63-0 | 2-Propanol | 100 | | 100 | | 0 | |
| 107-05-1 | 3-Chloropropene | 112 | | 112 | | 0 | |
| 622-96-8 | 4-Ethyltoluene | 98 | | 97 | | 1.0 | |
| 108-10-1 | 4-Methyl-2-pentanone | 109 | | 106 | | 2.8 | |
| 67-64-1 | Acetone | 91 | | 90 | | 1.1 | |
| 100-44-7 | alpha-Chlorotoluene | 98 | | 99 | | 1.0 | |
| 71-43-2 | Benzene | 90 | | 90 | | 0 | |
| 75-27-4 | Bromodichloromethane | 92 | | 92 | | 0 | |
| 75-25-2 | Bromoform | 103 | | 100 | | 3.0 | |
| 74-83-9 | Bromomethane | 80 | | 79 | | 1.2 | |
| 75-15-0 | Carbon Disulfide | 108 | | 107 | | 0.93 | |
| 56-23-5 | Carbon Tetrachloride | 71 | | 71 | | 0 | |
| 108-90-7 | Chlorobenzene | 92 | | 92 | | 0 | |
| 75-00-3 | Chloroethane | 91 | | 91 | | 0 | |
| 67-66-3 | Chloroform | 94 | | 92 | | 2.2 | |
| 74-87-3 | Chloromethane | 94 | | 92 | | 2.2 | |
| 156-59-2 | cis-1,2-Dichloroethene | 103 | | 103 | | 0 | |
| 10061-01-5 | cis-1,3-Dichloropropene | 101 | | 99 | | 2.0 | |
| 98-82-8 | Cumene | 104 | | 105 | | 0.96 | |
| 110-82-7 | Cyclohexane | 101 | | 99 | | 2.0 | |
| 124-48-1 | Dibromochloromethane | 102 | | 100 | | 2.0 | |
| 64-17-5 | Ethanol | 89 | | 104 | | 16 | |
| 100-41-4 | Ethyl Benzene | 98 | | 97 | | 1.0 | |
| 75-69-4 | Freon 11 | 89 | | 87 | | 2.3 | |

Note: The results appearing in the Amount columns are the raw, unrounded numbers acquired from the instrument.

# SAMPLE RESULTS/SAMPLE RESULTS DUPLICATE

Lab Name: Air Toxics Ltd.
Lab File ID: e031404.d & e031403.d
Lab Sample ID: &
Dilution: 1.00 & 1.00
Client Sample ID: LCS & LCSD
Date Analyzed: 3/14/12 & 3/14/12

| CAS Number | Compound | Original Amount | Original Flags | Duplicate Amount | Duplicate Flags | RPD | Result Less Than 5X RL |
|---|---|---|---|---|---|---|---|
| 76-13-1 | Freon 113 | 93 | | 94 | | 1.1 | |
| 76-14-2 | Freon 114 | 93 | | 92 | | 1.1 | |
| 75-71-8 | Freon 12 | 92 | | 89 | | 3.3 | |
| 142-82-5 | Heptane | 99 | | 100 | | 1.0 | |
| 87-68-3 | Hexachlorobutadiene | 105 | | 101 | | 3.9 | |
| 110-54-3 | Hexane | 102 | | 101 | | 0.98 | |
| 496-11-7 | Indan | ND | | ND | | 0 | |
| 95-13-6 | Indene | ND | | ND | | 0 | |
| 78-78-4 | Isopentane | 92 | | 91 | | 1.1 | |
| 108-38-3 | m,p-Xylene | 101 | | 102 | | 0.98 | |
| 1634-04-4 | Methyl tert-butyl ether | 104 | | 102 | | 1.9 | |
| 75-09-2 | Methylene Chloride | 70 | | 58 | | 19 | |
| 91-20-3 | Naphthalene | 84 | | 82 | | 2.4 | |
| 95-47-6 | o-Xylene | 102 | | 104 | | 1.9 | |
| 103-65-1 | Propylbenzene | 100 | | 99 | | 1.0 | |
| 100-42-5 | Styrene | 102 | | 104 | | 1.9 | |
| 127-18-4 | Tetrachloroethene | 96 | | 93 | | 3.2 | |
| 109-99-9 | Tetrahydrofuran | 92 | | 92 | | 0 | |
| 110-02-1 | Thiophene | ND | | ND | | 0 | |
| 108-88-3 | Toluene | 92 | | 91 | | 1.1 | |
| 156-60-5 | trans-1,2-Dichloroethene | 107 | | 105 | | 1.9 | |
| 10061-02-6 | trans-1,3-Dichloropropene | 111 | | 109 | | 1.8 | |
| 79-01-6 | Trichloroethene | 88 | | 87 | | 1.1 | |
| 75-01-4 | Vinyl Chloride | 95 | | 93 | | 2.1 | |

Note: The results appearing in the Amount columns are the raw, unrounded numbers acquired from the instrument.

# SAMPLE RESULTS/SAMPLE RESULTS DUPLICATE

Lab Name: Air Toxics Ltd.
Lab File ID: e032004.d & e032003.d
Lab Sample ID: &
Dilution: 1.00 & 1.00
Client Sample ID: LCS & LCSD
Date Analyzed: 3/20/12 & 3/20/12

| CAS Number | Compound | Original Amount | Original Flags | Duplicate Amount | Duplicate Flags | RPD | Result Less Than 5X RL |
|---|---|---|---|---|---|---|---|
| 71-55-6 | 1,1,1-Trichloroethane | 104 | | 106 | | 1.9 | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 100 | | 99 | | 1.0 | |
| 79-00-5 | 1,1,2-Trichloroethane | 100 | | 99 | | 1.0 | |
| 75-34-3 | 1,1-Dichloroethane | 98 | | 101 | | 3.0 | |
| 75-35-4 | 1,1-Dichloroethene | 112 | | 111 | | 0.90 | |
| 120-82-1 | 1,2,4-Trichlorobenzene | 113 | | 110 | | 2.7 | |
| 95-63-6 | 1,2,4-Trimethylbenzene | 115 | | 115 | | 0 | |
| 106-93-4 | 1,2-Dibromoethane (EDB) | 107 | | 108 | | 0.93 | |
| 95-50-1 | 1,2-Dichlorobenzene | 102 | | 101 | | 0.98 | |
| 107-06-2 | 1,2-Dichloroethane | 98 | | 104 | | 5.9 | |
| 78-87-5 | 1,2-Dichloropropane | 95 | | 99 | | 4.1 | |
| 108-67-8 | 1,3,5-Trimethylbenzene | 110 | | 109 | | 0.91 | |
| 106-99-0 | 1,3-Butadiene | 104 | | 105 | | 0.96 | |
| 541-73-1 | 1,3-Dichlorobenzene | 105 | | 103 | | 1.9 | |
| 106-46-7 | 1,4-Dichlorobenzene | 102 | | 102 | | 0 | |
| 123-91-1 | 1,4-Dioxane | 110 | | 112 | | 1.8 | |
| 540-84-1 | 2,2,4-Trimethylpentane | 92 | | 90 | | 2.2 | |
| 565-59-3 | 2,3-Dimethylpentane | ND | | ND | | 0 | |
| 78-93-3 | 2-Butanone (Methyl Ethyl Ketone) | 105 | | 108 | | 2.8 | |
| 591-78-6 | 2-Hexanone | 109 | | 107 | | 1.8 | |
| 107-83-5 | 2-Methylpentane | ND | | ND | | 0 | |
| 67-63-0 | 2-Propanol | 104 | | 109 | | 4.7 | |
| 107-05-1 | 3-Chloropropene | 121 | | 124 | | 2.4 | |
| 622-96-8 | 4-Ethyltoluene | 106 | | 106 | | 0 | |
| 108-10-1 | 4-Methyl-2-pentanone | 115 | | 117 | | 1.7 | |
| 67-64-1 | Acetone | 93 | | 95 | | 2.1 | |
| 100-44-7 | alpha-Chlorotoluene | 108 | | 108 | | 0 | |
| 71-43-2 | Benzene | 98 | | 99 | | 1.0 | |
| 75-27-4 | Bromodichloromethane | 104 | | 108 | | 3.8 | |
| 75-25-2 | Bromoform | 120 | | 119 | | 0.84 | |
| 74-83-9 | Bromomethane | 94 | | 90 | | 4.3 | |
| 75-15-0 | Carbon Disulfide | 114 | | 118 | | 3.4 | |
| 56-23-5 | Carbon Tetrachloride | 126 | | 127 | | 0.79 | |
| 108-90-7 | Chlorobenzene | 101 | | 99 | | 2.0 | |
| 75-00-3 | Chloroethane | 102 | | 99 | | 3.0 | |
| 67-66-3 | Chloroform | 100 | | 101 | | 1.0 | |
| 74-87-3 | Chloromethane | 100 | | 100 | | 0 | |
| 156-59-2 | cis-1,2-Dichloroethene | 110 | | 108 | | 1.8 | |
| 10061-01-5 | cis-1,3-Dichloropropene | 116 | | 115 | | 0.86 | |
| 98-82-8 | Cumene | 116 | | 116 | | 0 | |
| 110-82-7 | Cyclohexane | 107 | | 107 | | 0 | |
| 124-48-1 | Dibromochloromethane | 115 | | 115 | | 0 | |
| 64-17-5 | Ethanol | 111 | | 100 | | 10 | |
| 100-41-4 | Ethyl Benzene | 109 | | 105 | | 3.7 | |
| 75-69-4 | Freon 11 | 98 | | 102 | | 4.0 | |

Note: The results appearing in the Amount columns are the raw, unrounded numbers acquired from the instrument.

# SAMPLE RESULTS/SAMPLE RESULTS DUPLICATE

Lab Name: Air Toxics Ltd.
Lab File ID: e032004.d & e032003.d
Lab Sample ID: &
Dilution: 1.00 & 1.00
Client Sample ID: LCS & LCSD
Date Analyzed: 3/20/12 & 3/20/12

| CAS Number | Compound | Original Amount | Original Flags | Duplicate Amount | Duplicate Flags | RPD | Result Less Than 5X RL |
|---|---|---|---|---|---|---|---|
| 76-13-1 | Freon 113 | 104 | | 104 | | 0 | |
| 76-14-2 | Freon 114 | 104 | | 107 | | 2.8 | |
| 75-71-8 | Freon 12 | 100 | | 103 | | 3.0 | |
| 142-82-5 | Heptane | 106 | | 106 | | 0 | |
| 87-68-3 | Hexachlorobutadiene | 107 | | 104 | | 2.8 | |
| 110-54-3 | Hexane | 105 | | 103 | | 1.9 | |
| 496-11-7 | Indan | ND | | ND | | 0 | |
| 95-13-6 | Indene | ND | | ND | | 0 | |
| 78-78-4 | Isopentane | 101 | | 102 | | 0.98 | |
| 108-38-3 | m,p-Xylene | 114 | | 114 | | 0 | |
| 1634-04-4 | Methyl tert-butyl ether | 112 | | 114 | | 1.8 | |
| 75-09-2 | Methylene Chloride | 69 | | 72 | | 4.2 | |
| 91-20-3 | Naphthalene | 91 | | 88 | | 3.4 | |
| 95-47-6 | o-Xylene | 116 | | 115 | | 0.86 | |
| 103-65-1 | Propylbenzene | 109 | | 108 | | 0.92 | |
| 100-42-5 | Styrene | 116 | | 114 | | 1.7 | |
| 127-18-4 | Tetrachloroethene | 106 | | 102 | | 3.8 | |
| 109-99-9 | Tetrahydrofuran | 94 | | 95 | | 1.0 | |
| 110-02-1 | Thiophene | ND | | ND | | 0 | |
| 108-88-3 | Toluene | 100 | | 102 | | 2.0 | |
| 156-60-5 | trans-1,2-Dichloroethene | 115 | | 115 | | 0 | |
| 10061-02-6 | trans-1,3-Dichloropropene | 92 | | 92 | | 0 | |
| 79-01-6 | Trichloroethene | 98 | | 100 | | 2.0 | |
| 75-01-4 | Vinyl Chloride | 104 | | 106 | | 1.9 | |

Note: The results appearing in the Amount columns are the raw, unrounded numbers acquired from the instrument.

# Air Toxics Ltd.

## INITIAL CALIBRATION DATA

Start Cal Date : 08-MAR-2012 18:33
End Cal Date : 10-MAR-2012 19:22
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/msde.i/10Mar2012.b/e12l0308b.m
Cal Date : 12-Mar-2012 07:12 croush
Curve Type : Average

Calibration File Names:
Level 4: /chem/msde.i/08Mar2012.b/e030823.d
Level 5: /chem/msde.i/10Mar2012.b/e031002.d
Level 6: /chem/msde.i/10Mar2012.b/e031012.d
Level 7: /chem/msde.i/10Mar2012.b/e031014.d
Level 8: /chem/msde.i/10Mar2012.b/e031011.d
Level 9: /chem/msde.i/08Mar2012.b/e030815.d
Level 10: /chem/msde.i/08Mar2012.b/e030816.d
Level 11: /chem/msde.i/10Mar2012.b/e031013.d

| Compound | 0.05000 Level 4 | 0.10000 Level 5 | 0.50000 Level 6 | 2.000 Level 7 | 5.000 Level 8 | 10.000 Level 9 | 20.000 Level 10 | 40.000 Level 11 | ___ RRF | % RSD |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 Freon134a | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ |
| 196 Methly Methacrylate | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ |
| 2 Propylene | +++++ | +++++ | 0.82667 | 0.75593 | 0.82981 | 0.81802 | 0.75758 | 0.79406 | 0.79701 | 4.217 |
| 3 Freon 152A | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ |
| 4 Dichlorodifluoromethane/Fr12 | 5.91761 | 6.56396 | 5.88159 | 5.62776 | 6.12974 | 5.81528 | 5.50446 | 5.30303 | 5.84293 | 6.667 |
| 5 Freon 22 | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ |
| 6 Freon 114 | +++++ | 3.38654 | 3.06664 | 2.86278 | 3.15772 | 3.03016 | 2.90555 | 2.87047 | 3.03998 | 6.198 |

# Air Toxics Ltd.

## INITIAL CALIBRATION DATA

Start Cal Date : 08-MAR-2012 18:33
End Cal Date : 10-MAR-2012 19:22
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/msde.i/10Mar2012.b/e12l0308b.m
Cal Date : 12-Mar-2012 07:12 croush
Curve Type : Average

| Compound | 0.05000 Level 4 | 0.10000 Level 5 | 0.50000 Level 6 | 2.000 Level 7 | 5.000 Level 8 | 10.000 Level 9 | 20.000 Level 10 | 40.000 Level 11 | ___ RRF | % RSD |
|---|---|---|---|---|---|---|---|---|---|---|
| 7 Chloromethane | +++++ | 0.80263 | 0.94693 | 0.85601 | 0.91414 | 0.88799 | 0.83524 | 0.80190 | 0.86355 | 6.426 |
| 8 Isobutylene | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ |
| 9 Butane | +++++ | +++++ | 0.18431 | 0.24483 | 0.34663 | 0.35072 | 0.33633 | 0.32032 | 0.29719 | 22.753 |
| 10 Vinyl Chloride | +++++ | 1.54057 | 1.29893 | 1.26482 | 1.43638 | 1.37226 | 1.35920 | 1.26875 | 1.36299 | 7.315 |
| 11 1,3-Butadiene | +++++ | 0.89741 | 0.81942 | 0.75545 | 0.89566 | 0.88148 | 0.88533 | 0.86188 | 0.85666 | 6.080 |
| 12 Bromomethane | +++++ | 1.73314 | 1.62887 | 1.41219 | 1.68468 | 1.50334 | 1.33641 | 1.25050 | 1.50702 | 12.159 |
| 13 Chloroethane | +++++ | +++++ | 0.79585 | 0.76911 | 0.79256 | 0.73935 | 0.65090 | 0.60977 | 0.72626 | 10.754 |
| 14 Isopentane | +++++ | +++++ | 0.85205 | 0.90404 | 0.97243 | 0.92452 | 0.93542 | 0.91531 | 0.91729 | 4.321 |
| 15 Vinyl Bromide | +++++ | 1.66364 | 1.48712 | 1.52687 | 1.48935 | +++++ | +++++ | 1.46704 | 1.52681 | 5.206 |
| 17 Pentane | +++++ | +++++ | 0.99108 | 0.91589 | +++++ | +++++ | +++++ | 0.92095 | 0.94264 | 4.459 |

# Air Toxics Ltd.

## INITIAL CALIBRATION DATA

Start Cal Date : 08-MAR-2012 18:33
End Cal Date : 10-MAR-2012 19:22
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/msde.i/10Mar2012.b/e12l0308b.m
Cal Date : 12-Mar-2012 07:12 croush
Curve Type : Average

| Compound | 0.05000 Level 4 | 0.10000 Level 5 | 0.50000 Level 6 | 2.000 Level 7 | 5.000 Level 8 | 10.000 Level 9 | ___ RRF | % RSD |
|---|---|---|---|---|---|---|---|---|
| | 20.000 Level 10 | 40.000 Level 11 | | | | | | |
| 16 Trichlorofluoromethane/Fr11 | 7.03210 | 7.27332 | 5.91528 | 5.85479 | 6.36462 | 5.85013 | | |
| | 5.61711 | 5.38774 | | | | | 6.16189 | 10.942 |
| 18 Ethanol | +++++ | +++++ | 0.26226 | 0.28898 | 0.32406 | 0.32583 | | |
| | 0.33789 | 0.39117 | | | | | 0.32170 | 13.701 |
| 20 Acrolein | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | | |
| | +++++ | +++++ | | | | | +++++ | +++++ |
| 19 Freon 113 | 2.56384 | 2.97432 | 2.71494 | 2.51598 | 2.70888 | 2.55999 | | |
| | 2.43671 | 2.37065 | | | | | 2.60566 | 7.313 |
| 190 1-Pentene | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | | |
| | +++++ | +++++ | | | | | +++++ | +++++ |
| 21 1,1-Dichloroethene | +++++ | 0.93728 | 0.79268 | 0.80042 | 0.97628 | 0.91420 | | |
| | 0.89371 | 0.88809 | | | | | 0.88609 | 7.664 |
| 22 Acetone | +++++ | +++++ | 0.51879 | 0.55474 | 0.60367 | 0.57784 | | |
| | 0.57741 | 0.55804 | | | | | 0.56508 | 5.070 |
| 23 Carbon Disulfide | +++++ | +++++ | 4.01160 | 3.68191 | 3.90724 | 3.65907 | | |
| | 3.55283 | 3.49585 | | | | | 3.71808 | 5.425 |
| 184 Bromoethane | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | | |
| | +++++ | +++++ | | | | | +++++ | +++++ |
| 25 2-Propanol | +++++ | +++++ | 1.18940 | 1.29864 | 1.62195 | 1.64192 | | |
| | 1.69426 | 1.71997 | | | | | 1.52769 | 14.741 |

# Air Toxics Ltd.

## INITIAL CALIBRATION DATA

Start Cal Date : 08-MAR-2012 18:33
End Cal Date : 10-MAR-2012 19:22
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/msde.i/10Mar2012.b/e12l0308b.m
Cal Date : 12-Mar-2012 07:12 croush
Curve Type : Average

| Compound | 0.05000 Level 4 | 0.10000 Level 5 | 0.50000 Level 6 | 2.000 Level 7 | 5.000 Level 8 | 10.000 Level 9 | 20.000 Level 10 | 40.000 Level 11 | ___ RRF | % RSD |
|---|---|---|---|---|---|---|---|---|---|---|
| 27 Methyl Acetate | ***** | ***** | ***** | ***** | ***** | ***** | ***** | ***** | ***** | ***** |
| 26 3-Chloroprene | ***** | ***** | 0.46259 | 0.48046 | 0.59752 | 0.58633 | 0.58863 | 0.57491 | 0.54841 | 10.987 |
| 24 2-Methylpentane | ***** | ***** | 1.07587 | ***** | 1.06567 | ***** | ***** | 0.96088 | 1.03414 | 6.155 |
| 28 Acetonitrile | ***** | ***** | ***** | ***** | ***** | ***** | ***** | ***** | ***** | ***** |
| 29 Methylene Chloride | ***** | 1.05688 | 0.72349 | 0.62713 | 0.66729 | 0.60425 | 0.61065 | 0.59293 | 0.69752 | 23.620 |
| 30 tert-butyl alcohol | ***** | ***** | 0.97835 | 1.23942 | 1.62100 | 1.58108 | 1.61776 | 1.65324 | 1.44848 | 19.099 |
| 31 MTBE | ***** | 3.90257 | 3.75704 | 4.15019 | 5.14505 | 4.94174 | 4.85513 | 4.70081 | 4.49322 | 12.219 |
| 32 trans-1,2-Dichloroethene | ***** | 1.01551 | 0.90629 | 0.87576 | 1.03410 | 0.97910 | 0.93296 | 0.90076 | 0.94921 | 6.429 |
| 33 Acrylonitrile | ***** | ***** | ***** | ***** | ***** | ***** | ***** | ***** | ***** | ***** |
| 34 2,4-Dimethylpentane | ***** | ***** | ***** | ***** | ***** | ***** | ***** | ***** | ***** | ***** |

# Air Toxics Ltd.

## INITIAL CALIBRATION DATA

Start Cal Date : 08-MAR-2012 18:33
End Cal Date : 10-MAR-2012 19:22
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/msde.i/10Mar2012.b/e12l0308b.m
Cal Date : 12-Mar-2012 07:12 croush
Curve Type : Average

| Compound | 0.05000 Level 4 | 0.10000 Level 5 | 0.50000 Level 6 | 2.000 Level 7 | 5.000 Level 8 | 10.000 Level 9 | 20.000 Level 10 | 40.000 Level 11 | ___ RRF | % RSD |
|---|---|---|---|---|---|---|---|---|---|---|
| 35 Hexane | +++++ | 1.26224 | 1.46435 | 1.53929 | 1.87685 | 1.81657 | 1.77099 | 1.67404 | 1.62919 | 13.459 |
| 191 Cyclopentane | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ |
| 36 Isopropyl ether | +++++ | +++++ | 1.40936 | 1.51020 | 2.00157 | 1.91739 | 1.92751 | 1.83453 | 1.76676 | 13.906 |
| 37 1,1-Dichloroethane | +++++ | 2.69825 | 2.67158 | 2.69407 | 2.90867 | 2.74824 | 2.63442 | 2.42519 | 2.68292 | 5.369 |
| 38 Vinyl Acetate | +++++ | +++++ | 0.27495 | 0.35683 | 0.45265 | 0.44104 | 0.43535 | 0.41738 | 0.39637 | 17.270 |
| 39 Chlorprene | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ |
| 40 Ethyl-tert-butyl ether | +++++ | +++++ | 2.02227 | 2.05586 | 2.73876 | 2.67883 | 2.66727 | 2.59970 | 2.46045 | 13.394 |
| 43 Ethyl Acetate | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ |
| 41 cis-1,2-Dichloroethene | +++++ | 1.02002 | 1.36812 | 1.42249 | 1.65164 | 1.57727 | 1.51279 | 1.43776 | 1.42716 | 14.292 |
| 42 2-Butanone | +++++ | +++++ | 0.85764 | 0.88433 | 1.10498 | 1.12015 | 1.11449 | 1.06507 | 1.02444 | 11.783 |

# Air Toxics Ltd.

## INITIAL CALIBRATION DATA

Start Cal Date : 08-MAR-2012 18:33
End Cal Date : 10-MAR-2012 19:22
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/msde.i/10Mar2012.b/e12l0308b.m
Cal Date : 12-Mar-2012 07:12 croush
Curve Type : Average

| Compound | 0.05000 Level 4 | 0.10000 Level 5 | 0.50000 Level 6 | 2.000 Level 7 | 5.000 Level 8 | 10.000 Level 9 | ___ RRF | % RSD | |
|---|---|---|---|---|---|---|---|---|---|
| | 20.000 Level 10 | 40.000 Level 11 | | | | | | | |
| 192 1-Hexene | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | | | |
| | +++++ | +++++ | | | | | +++++ | +++++ | |
| 44 Tetrahydrofuran | +++++ | +++++ | 0.82380 | 0.93660 | 1.13825 | 1.09309 | | | |
| | 1.08438 | 1.05158 | | | | | 1.02128 | 11.578 | |
| 47 Chloroform | +++++ | 4.70069 | 3.94664 | 3.95620 | 4.44727 | 4.07789 | | | |
| | 3.93343 | 3.68623 | | | | | 4.10691 | 8.462 | |
| 45 2,3-Dimethylpentane | +++++ | +++++ | 0.89705 | +++++ | 1.04153 | +++++ | | | |
| | +++++ | 0.93533 | | | | | 0.95797 | 7.813 | |
| 48 Cyclohexane | +++++ | 2.00319 | 1.91289 | 2.06354 | 2.52537 | 2.38522 | | | |
| | 2.30113 | 2.15893 | | | | | 2.19290 | 10.052 | |
| 49 1,1,1-Trichloroethane | 5.00060 | 4.99255 | 4.54882 | 4.39775 | 5.06281 | 4.74369 | | | |
| | 4.54045 | 4.25764 | | | | | 4.69304 | 6.465 | |
| 193 Methyl Acrylate | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | | | |
| | +++++ | +++++ | | | | | +++++ | +++++ | |
| 51 Carbon Tetrachloride | 3.80197 | 2.39661 | 1.98314 | 1.91307 | 4.87699 | 4.50999 | | | |
| | 4.44128 | 4.16885 | | | | | 3.51149 | 34.672 | <- |
| 52 2,2,4-Trimethylpentane | +++++ | 3.00366 | 2.12606 | 2.27503 | 2.80205 | 2.56187 | | | |
| | 2.48656 | 2.32909 | | | | | 2.51204 | 12.243 | |
| 53 Benzene | +++++ | 1.46569 | 1.27718 | 1.23182 | 1.39341 | 1.28855 | | | |
| | 1.20544 | 1.11608 | | | | | 1.28260 | 9.122 | |

Air Toxics Ltd.

INITIAL CALIBRATION DATA

Start Cal Date : 08-MAR-2012 18:33
End Cal Date : 10-MAR-2012 19:22
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/msde.i/10Mar2012.b/e12l0308b.m
Cal Date : 12-Mar-2012 07:12 croush
Curve Type : Average

| Compound | 0.05000 Level 4 | 0.10000 Level 5 | 0.50000 Level 6 | 2.000 Level 7 | 5.000 Level 8 | 10.000 Level 9 | ___ RRF | % RSD |
|---|---|---|---|---|---|---|---|---|
| | 20.000 Level 10 | 40.000 Level 11 | | | | | | |
| 55 tert-amyl methyl ether | +++++ | +++++ | 0.15776 | 0.16879 | 0.21386 | 0.20452 | | |
| | 0.20176 | 0.18754 | | | | | 0.18904 | 11.611 |
| 56 1,2-Dichloroethane | +++++ | 0.90472 | 0.70702 | 0.68939 | 0.77658 | 0.70734 | | |
| | 0.66754 | 0.61012 | | | | | 0.72324 | 13.037 |
| 57 Heptane | +++++ | 0.14746 | 0.25414 | 0.27459 | 0.33402 | 0.29598 | | |
| | 0.28731 | 0.26223 | | | | | 0.26510 | 21.915 |
| 50 Thiophene | +++++ | +++++ | 0.92737 | +++++ | 0.74750 | +++++ | | |
| | +++++ | 0.75116 | | | | | 0.80868 | 12.713 |
| 59 Trichloroethene | 0.76777 | 0.57297 | 0.49850 | 0.48487 | 0.59016 | 0.55997 | | |
| | 0.54243 | 0.51503 | | | | | 0.56646 | 15.743 |
| 60 Methylcyclohexane | +++++ | +++++ | 0.63721 | 0.62749 | 0.84328 | 0.79489 | | |
| | 0.77042 | 0.71723 | | | | | 0.73175 | 11.904 |
| 61 1,2-Dichloropropane | +++++ | 0.48775 | 0.36660 | 0.34924 | 0.42257 | 0.38948 | | |
| | 0.38598 | 0.35875 | | | | | 0.39434 | 12.111 |
| 62 1,4-Dioxane | +++++ | 0.19323 | 0.25019 | 0.26676 | 0.32558 | 0.32092 | | |
| | 0.31002 | 0.30188 | | | | | 0.28123 | 17.000 |
| 63 Bromodichloromethane | 1.21058 | 1.08269 | 0.98379 | 1.01863 | 1.22109 | 1.15217 | | |
| | 1.10130 | 1.04230 | | | | | 1.10157 | 7.925 |
| 64 cis-1,3-Dichloropropene | +++++ | 0.69176 | 0.60611 | 0.61952 | 0.71936 | 0.72071 | | |
| | 0.72764 | 0.69187 | | | | | 0.68242 | 7.286 |

# Air Toxics Ltd.

## INITIAL CALIBRATION DATA

Start Cal Date : 08-MAR-2012 18:33
End Cal Date : 10-MAR-2012 19:22
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/msde.i/10Mar2012.b/e12l0308b.m
Cal Date : 12-Mar-2012 07:12 croush
Curve Type : Average

| Compound | 0.05000 Level 4 | 0.10000 Level 5 | 0.50000 Level 6 | 2.000 Level 7 | 5.000 Level 8 | 10.000 Level 9 | ___ RRF | % RSD |
|---|---|---|---|---|---|---|---|---|
| | 20.000 Level 10 | 40.000 Level 11 | | | | | | |
| 65 4-Methyl-2-pentanone | +++++ | 0.31140 | 0.34409 | 0.44641 | 0.62763 | 0.61864 | | |
| | 0.62583 | 0.59382 | | | | | 0.50969 | 27.408 |
| 66 Octane | +++++ | +++++ | 0.17452 | 0.17469 | +++++ | +++++ | | |
| | +++++ | 0.18877 | | | | | 0.17932 | 4.560 |
| 68 Toluene | +++++ | 1.85886 | 1.42520 | 1.40756 | 1.67823 | 1.53873 | | |
| | 1.47285 | 1.33214 | | | | | 1.53051 | 11.887 |
| 194 Ethyl Acrylate | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | | |
| | +++++ | +++++ | | | | | +++++ | +++++ |
| 69 trans-1,3-Dichloropropene | +++++ | 0.68784 | 0.73017 | 1.03091 | 1.27367 | 1.26209 | | |
| | 1.27768 | 1.24323 | | | | | 1.07223 | 24.515 |
| 70 1,1,2-Trichloroethane | 0.75078 | 0.65389 | 0.58831 | 0.60358 | 0.67432 | 0.65717 | | |
| | 0.63121 | 0.60863 | | | | | 0.64599 | 8.003 |
| 71 Tetrachloroethene | 0.86512 | 0.70261 | 0.75985 | 0.70527 | 0.78718 | 0.74538 | | |
| | 0.73034 | 0.70302 | | | | | 0.74985 | 7.407 |
| 72 2-Hexanone | +++++ | +++++ | 0.24751 | 0.33283 | 0.46176 | 0.46238 | | |
| | 0.47908 | 0.46948 | | | | | 0.40884 | 23.482 |
| 73 Dibromochloromethane | 0.95437 | 1.03094 | 0.91318 | 0.96299 | 1.24958 | 1.23645 | | |
| | 1.23223 | 1.21321 | | | | | 1.09912 | 13.360 |
| 74 1,2-Dibromoethane | 0.98003 | 0.96883 | 0.88931 | 0.93134 | 1.08038 | 1.04621 | | |
| | 1.03339 | 0.99732 | | | | | 0.99085 | 6.312 |

# Air Toxics Ltd.

## INITIAL CALIBRATION DATA

Start Cal Date : 08-MAR-2012 18:33
End Cal Date : 10-MAR-2012 19:22
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/msde.i/10Mar2012.b/e12l0308b.m
Cal Date : 12-Mar-2012 07:12 croush
Curve Type : Average

| Compound | 0.05000 Level 4 | 0.10000 Level 5 | 0.50000 Level 6 | 2.000 Level 7 | 5.000 Level 8 | 10.000 Level 9 | 20.000 Level 10 | 40.000 Level 11 | ___ RRF | % RSD |
|---|---|---|---|---|---|---|---|---|---|---|
| 76 Chlorobenzene | +++++ | 1.73448 | 1.38253 | 1.33755 | 1.49507 | 1.41015 | 1.34302 | 1.27207 | 1.42498 | 10.738 |
| 78 Nonane | +++++ | +++++ | 0.36781 | 0.39416 | +++++ | +++++ | +++++ | 0.37200 | 0.37799 | 3.747 |
| 77 Ethyl Benzene | +++++ | 0.70307 | 0.61481 | 0.66936 | 0.79836 | 0.74295 | 0.69863 | 0.64621 | 0.69620 | 8.800 |
| 79 1,1,1,2-Tetrachloroethane | +++++ | 0.75173 | 0.80716 | 0.75488 | 0.75758 | +++++ | +++++ | 0.75864 | 0.76600 | 3.024 |
| 186 1,1-Dichloropropene | +++++ | 0.60171 | 0.69291 | 0.70256 | 0.73202 | +++++ | +++++ | 0.74919 | 0.69568 | 8.217 |
| 80 m,p-Xylene | +++++ | 0.74186 | 0.72981 | 0.81810 | 0.99842 | 0.91467 | 0.87756 | 0.78332 | 0.83768 | 11.688 |
| 81 o-Xylene | +++++ | 0.67260 | 0.69166 | 0.77627 | 0.96306 | 0.91556 | 0.85812 | 0.75995 | 0.80532 | 13.721 |
| 83 Styrene | +++++ | 1.05034 | 0.91470 | 1.16862 | 1.46083 | 1.40270 | 1.33716 | 1.17504 | 1.21563 | 16.163 |
| 84 Bromoform | 0.86345 | 0.81136 | 0.73409 | 0.79868 | 1.10704 | 1.10691 | 1.10372 | 1.07661 | 0.95023 | 17.116 |
| 85 Cumene | +++++ | 2.15863 | 2.24839 | 2.57329 | 3.14230 | 2.96519 | 2.76042 | 2.40429 | 2.60750 | 14.093 |

# Air Toxics Ltd.

## INITIAL CALIBRATION DATA

Start Cal Date : 08-MAR-2012 18:33
End Cal Date : 10-MAR-2012 19:22
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/msde.i/10Mar2012.b/e12l0308b.m
Cal Date : 12-Mar-2012 07:12 croush
Curve Type : Average

| Compound | 0.05000 Level 4 | 0.10000 Level 5 | 0.50000 Level 6 | 2.000 Level 7 | 5.000 Level 8 | 10.000 Level 9 | 20.000 Level 10 | 40.000 Level 11 | ___ RRF | % RSD |
|---|---|---|---|---|---|---|---|---|---|---|
| 82 alpha-pinene | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | | |
| 89 1,1,2,2-Tetrachloroethane | 1.43406 | 1.47334 | 1.36548 | 1.29477 | 1.41165 | 1.33782 | 1.27826 | 1.18552 | 1.34761 | 6.965 |
| 90 Propylbenzene | +++++ | 3.16349 | 3.02243 | 3.18799 | 3.83185 | 3.60620 | 3.47440 | 3.09315 | 3.33993 | 9.039 |
| 185 Bromobenzene | +++++ | 0.89773 | 0.81102 | 0.74966 | 0.75140 | +++++ | +++++ | 0.80372 | 0.80271 | 7.512 |
| 91 1,2,3-Trichloropropane | +++++ | 0.48095 | 0.54932 | 0.47288 | 0.46023 | +++++ | +++++ | 0.49156 | 0.49099 | 7.039 |
| 92 4-Ethyltoluene | +++++ | 2.59941 | 2.42762 | 2.75363 | 3.32813 | 3.15861 | 3.03515 | 2.77294 | 2.86793 | 11.139 |
| 94 1,3,5-Trimethylbenzene | +++++ | 2.13046 | 2.12261 | 2.40550 | 2.83327 | 2.70242 | 2.61381 | 2.47186 | 2.46856 | 11.054 |
| 93 2-Chlorotoluene | +++++ | 0.55147 | 0.53855 | 0.53788 | 0.55789 | +++++ | +++++ | 0.49690 | 0.53654 | 4.426 |
| 96 4-Chlorotoluene | +++++ | 0.85117 | 0.76713 | 0.78241 | 0.81403 | +++++ | +++++ | 0.75059 | 0.79307 | 5.046 |
| 86 1,3-Dichloropropane | +++++ | 0.71827 | 0.81618 | 0.71114 | 0.73077 | +++++ | +++++ | 0.76506 | 0.74828 | 5.778 |

# Air Toxics Ltd.

## INITIAL CALIBRATION DATA

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End Cal Date : 10-MAR-2012 19:22
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/msde.i/10Mar2012.b/e12l0308b.m
Cal Date : 12-Mar-2012 07:12 croush
Curve Type : Average

| Compound | 0.05000 Level 4 | 0.10000 Level 5 | 0.50000 Level 6 | 2.000 Level 7 | 5.000 Level 8 | 10.000 Level 9 | ___ RRF | % RSD |
|---|---|---|---|---|---|---|---|---|
| | 20.000 Level 10 | 40.000 Level 11 | | | | | | |
| 97 tert-Butylbenzene | +++++ | 1.71943 | 1.73621 | 1.81454 | 1.93327 | +++++ | | |
| | +++++ | 1.79261 | | | | | 1.79921 | 4.698 |
| 98 1,2,4-Trimethylbenzene | +++++ | 1.76657 | 1.71044 | 2.00744 | 2.58936 | 2.50017 | | |
| | 2.42750 | 2.21054 | | | | | 2.17315 | 16.303 |
| 88 Decane | +++++ | +++++ | 0.48230 | 0.60090 | +++++ | +++++ | | |
| | +++++ | 0.52548 | | | | | 0.53623 | 11.194 |
| 188 Undecane | +++++ | +++++ | 0.39179 | 0.52929 | +++++ | +++++ | | |
| | +++++ | 0.43944 | | | | | 0.45351 | 15.396 |
| 189 Dodecane | +++++ | +++++ | 0.11490 | 0.15295 | +++++ | +++++ | | |
| | +++++ | 0.13687 | | | | | 0.13491 | 14.158 |
| 99 sec-Butylbenzene | +++++ | 3.12042 | 2.72606 | 2.78711 | 2.96377 | +++++ | | |
| | +++++ | 2.70500 | | | | | 2.86047 | 6.201 |
| 100 p-Cymene | +++++ | 1.93732 | 2.06274 | 2.20456 | 2.38024 | +++++ | | |
| | +++++ | 2.19026 | | | | | 2.15502 | 7.707 |
| 101 1,3-Dichlorobenzene | 1.20983 | 1.64051 | 1.29080 | 1.30381 | 1.52616 | 1.43901 | | |
| | 1.37380 | 1.23647 | | | | | 1.37755 | 10.838 |
| 103 1,2,3-trimethylbenzene | +++++ | 0.80049 | 0.81734 | 0.85370 | 0.89381 | +++++ | | |
| | +++++ | 0.80987 | | | | | 0.83504 | 4.616 |
| 104 1,4-Dichlorobenzene | 1.43852 | 1.50012 | 1.30692 | 1.24968 | 1.53193 | 1.42221 | | |
| | 1.35668 | 1.22064 | | | | | 1.37834 | 8.270 |

# Air Toxics Ltd.

## INITIAL CALIBRATION DATA

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End Cal Date : 10-MAR-2012 19:22
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Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/msde.i/10Mar2012.b/e12l0308b.m
Cal Date : 12-Mar-2012 07:12 croush
Curve Type : Average

| Compound | 0.05000 Level 4 | 0.10000 Level 5 | 0.50000 Level 6 | 2.000 Level 7 | 5.000 Level 8 | 10.000 Level 9 | ___ RRF | % RSD |
|---|---|---|---|---|---|---|---|---|
| | 20.000 Level 10 | 40.000 Level 11 | | | | | | |
| 105 alpha-chlorotoluene | +++++ | 1.91527 | 1.75103 | 1.90955 | 2.45792 | 2.36459 | | |
| | 2.28541 | 2.01237 | | | | | 2.09945 | 12.786 |
| 195 trans-1,4-dichloro-2-butene | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | | |
| | +++++ | +++++ | | | | | +++++ | +++++ |
| 95 Dibromomethane | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | | |
| | +++++ | +++++ | | | | | +++++ | +++++ |
| 102 Indan | +++++ | +++++ | 1.47175 | +++++ | 1.68383 | +++++ | | |
| | +++++ | 1.44294 | | | | | 1.53284 | 8.582 |
| 107 Butylbenzene | +++++ | 0.51015 | 0.47126 | 0.46086 | 0.50167 | +++++ | | |
| | +++++ | 0.45532 | | | | | 0.47985 | 5.137 |
| 108 1,2-Dichlorobenzene | 1.40059 | 1.43524 | 1.21215 | 1.21420 | 1.42861 | 1.33639 | | |
| | 1.27873 | 1.14923 | | | | | 1.30689 | 8.390 |
| 106 Indene | +++++ | +++++ | 0.82509 | +++++ | 0.89549 | +++++ | | |
| | +++++ | 0.78545 | | | | | 0.83534 | 6.672 |
| 110 1,2-dibromo-3-chloropropane | +++++ | 0.42862 | 0.45780 | 0.55209 | 0.59918 | +++++ | | |
| | +++++ | 0.52164 | | | | | 0.51186 | 13.532 |
| 109 Hexachloroethane | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | | |
| | +++++ | +++++ | | | | | +++++ | +++++ |
| 112 1,2,4-Trichlorobenzene | 0.70281 | +++++ | 0.76897 | 0.79659 | 0.89147 | 0.95259 | | |
| | 0.95573 | 0.91162 | | | | | 0.85425 | 11.527 |

# Air Toxics Ltd.

## INITIAL CALIBRATION DATA

Start Cal Date : 08-MAR-2012 18:33
End Cal Date : 10-MAR-2012 19:22
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/msde.i/10Mar2012.b/e12l0308b.m
Cal Date : 12-Mar-2012 07:12 croush
Curve Type : Average

| Compound | 0.05000 Level 4 | 0.10000 Level 5 | 0.50000 Level 6 | 2.000 Level 7 | 5.000 Level 8 | 10.000 Level 9 | ___ RRF | % RSD |
|---|---|---|---|---|---|---|---|---|
| | 20.000 Level 10 | 40.000 Level 11 | | | | | | |
| 113 Hexachlorobutadiene | +++++ | +++++ | 0.74312 | 0.74460 | 0.78195 | 0.79617 | | |
| | 0.77725 | 0.73631 | | | | | 0.76324 | 3.267 |
| 114 Naphthalene | +++++ | +++++ | 1.26334 | 1.41667 | 1.84142 | 2.01398 | | |
| | 2.17562 | 2.20254 | | | | | 1.81893 | 21.762 |
| 111 1,3,5-Trichlorobenzene | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | | |
| | +++++ | +++++ | | | | | +++++ | +++++ |
| 115 1,2,3-trichlorobenzene | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | | |
| | +++++ | +++++ | | | | | +++++ | +++++ |
| 187 2,3-Dichloropropene | +++++ | 2.17547 | 2.76959 | 2.95466 | 3.16504 | +++++ | | |
| | +++++ | 2.83077 | | | | | 2.77911 | 13.305 |
| $ 54 1,2-Dichloroethane-d4 | 1.88584 | 1.83753 | 1.90446 | 1.88903 | 1.85524 | 1.83388 | | |
| | 1.84682 | 1.85329 | | | | | 1.86326 | 1.410 |
| $ 67 Toluene-d8 | 0.96350 | 0.99976 | 1.00301 | 1.00821 | 1.03726 | 1.02266 | | |
| | 1.03062 | 0.99191 | | | | | 1.00712 | 2.346 |
| $ 87 Bromofluorobenzene | 0.57204 | 0.56784 | 0.58235 | 0.59285 | 0.58067 | 0.58620 | | |
| | 0.56126 | 0.53262 | | | | | 0.57198 | 3.305 |

Calibration History

Method : /chem/msde.i/10Mar2012.b/e12l0308b.m
Start Cal Date: 08-MAR-2012 18:33
End Cal Date : 10-MAR-2012 19:22

Initial Calibration

| Injection Date | Sublist | Calibration File |
|---|---|---|
| Cal Level: 4 , Cal Amount: 0.05000 | | |
| 09-MAR-2012 12:55 | Level05 | /chem/msde.i/08Mar2012.b/e030823.d |
| Cal Level: 5 , Cal Amount: 0.10000 | | |
| 10-MAR-2012 10:33 | AT5ICAL | /chem/msde.i/10Mar2012.b/e031002.d |
| 08-MAR-2012 18:33 | Level#1 | /chem/msde.i/08Mar2012.b/e030811.d |
| Cal Level: 6 , Cal Amount: 0.50000 | | |
| 10-MAR-2012 17:49 | BP | /chem/msde.i/10Mar2012.b/e031012.d |
| 10-MAR-2012 15:38 | AT3 | /chem/msde.i/10Mar2012.b/e031009.d |
| 10-MAR-2012 11:13 | AT5ICAL | /chem/msde.i/10Mar2012.b/e031003.d |
| 08-MAR-2012 19:17 | HILOcrvFULL | /chem/msde.i/08Mar2012.b/e030812.d |
| Cal Level: 7 , Cal Amount: 2.00000 | | |
| 10-MAR-2012 19:22 | BP | /chem/msde.i/10Mar2012.b/e031014.d |
| 10-MAR-2012 12:34 | AT5ICAL | /chem/msde.i/10Mar2012.b/e031005.d |
| 08-MAR-2012 20:22 | HILOcrvFULL | /chem/msde.i/08Mar2012.b/e030813.d |
| Cal Level: 8 , Cal Amount: 5.00000 | | |
| 10-MAR-2012 17:04 | AT3 | /chem/msde.i/10Mar2012.b/e031011.d |
| 10-MAR-2012 13:23 | AT5ICAL | /chem/msde.i/10Mar2012.b/e031006.d |
| 08-MAR-2012 21:02 | HILOcrvFULL | /chem/msde.i/08Mar2012.b/e030814.d |
| Cal Level: 9 , Cal Amount: 10.00000 | | |
| 08-MAR-2012 22:56 | HILOcrvFULL | /chem/msde.i/08Mar2012.b/e030815.d |
| Cal Level: 10, Cal Amount: 20.00000 | | |
| 08-MAR-2012 23:48 | HILOcrvFULL | /chem/msde.i/08Mar2012.b/e030816.d |

| Cal Level: 11, Cal Amount: 40.00000 | | |
|---|---|---|
| 10-MAR-2012 18:30 | BP | /chem/msde.i/10Mar2012.b/e031013.d |
| 10-MAR-2012 16:18 | AT3 | /chem/msde.i/10Mar2012.b/e031010.d |
| 10-MAR-2012 11:52 | AT5ICAL | /chem/msde.i/10Mar2012.b/e031004.d |
| 09-MAR-2012 08:10 | HILOcrvFULL | /chem/msde.i/08Mar2012.b/e030817.d |

Continuing Calibration
Ccal Level Mode: GLOBAL LEVEL 11

| Ccal Level: 11, Ccal Amount: 40.000 | | |
|---|---|---|
| 10-MAR-2012 18:30 | BPCCV | /chem/msde.i/10Mar2012.b/e031013a.d |
| Ccal Level: 11, Ccal Amount: 40.000 | | |
| 10-MAR-2012 18:30 | BP | /chem/msde.i/10Mar2012.b/e031013.d |
| Ccal Level: 11, Ccal Amount: 40.000 | | |
| 10-MAR-2012 16:18 | AT3CCV | /chem/msde.i/10Mar2012.b/e031010a.d |
| Ccal Level: 11, Ccal Amount: 40.000 | | |
| 10-MAR-2012 16:18 | AT3 | /chem/msde.i/10Mar2012.b/e031010.d |
| Ccal Level: 11, Ccal Amount: 40.000 | | |
| 10-MAR-2012 11:52 | AT5CCV | /chem/msde.i/10Mar2012.b/e031004a.d |
| Ccal Level: 11, Ccal Amount: 40.000 | | |
| 10-MAR-2012 11:52 | AT5ICAL | /chem/msde.i/10Mar2012.b/e031004.d |

# Curve Name: E12L0308B

**Initial Calibration Narrative**

An initial calibration curve was analyzed on 03/08/12 on MSD-E.

The instrument was set up to do Full Scan and Selective Ion Monitoring (SIM) simultaneously.

ICAL: One (1) out → Carbon Tetrachloride (34 %RSD)

ICV: (0) out; File E030824, 50mL load; Standard #2370-221; 10ppbv (50ppbv).

DOD ICV: (0) out.

The following compounds were calibrated using these concentrations: 0.05ppbv, 0.2ppbv, 0.50ppbv, 1.0ppbv, 2.0 ppbv and 4.0ppbv:

- Naphthalene

OK for NY reporting limits except for Fr114. Use the SIM data file for Freon 114 at 0.05ppbv.

OK for AFCEE.

**NOTE:** As shown on the attached run log, Level 4 was re-analyzed with a new standard #2403-59 due to anomalous response factors for Carbon Tetrachloride from a bad standard being used.

- A five (5) point Initial Calibration for the AT5 specials were analyzed on MSD-E on 03/10/2012 at levels 0.10, 0.50, 1.0, 2.0, and 5.0ppbv.
    - AT5 ICV ran on 03/10/2012 with ZERO out – 1.0ppbv (5.0ppbv); 50mL load; can# 2403-73; file# E022212

**NOTE:** There is no true second source for Vinyl Bromide. The CCV and LCS standards were prepared by two different analysts.

- The three (3) point initial calibration for the Boiling Point specials from 03/10/12 were analyzed MSD E on 03/10/2012 at 0.5, 1.0 and 2.0 ppbv.

- The three (3) point initial calibration for the AT3 specials from 03/10/12 were analyzed MSD E on 03/10/2012 at 0.5, 1.5 and 5.0 ppbv.

MDL was analyzed on 11/16/2011.

AT5sp MDL was analyzed on 05/13/11.

Air Toxics Ltd.

INITIAL CALIBRATION DATA

Start Cal Date : 08-MAR-2012 18:33
End Cal Date : 10-MAR-2012 19:22
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/msde.i/10Mar2012.b/e12l0308b.m
Cal Date : 12-Mar-2012 07:12 croush
Curve Type : Average

VOR 03/12/12

Calibration File Names:
Level 4: /chem/msde.i/08Mar2012.b/e030823.d
Level 5: /chem/msde.i/10Mar2012.b/e031002.d
Level 6: /chem/msde.i/10Mar2012.b/e031012.d
Level 7: /chem/msde.i/10Mar2012.b/e031014.d
Level 8: /chem/msde.i/10Mar2012.b/e031011.d
Level 9: /chem/msde.i/08Mar2012.b/e030815.d
Level 10: /chem/msde.i/08Mar2012.b/e030816.d
Level 11: /chem/msde.i/10Mar2012.b/e031013.d

Please see Calibration History page(s) for all the calibration files.

3/13/12

| Compound | 0.05000 Level 4 | 0.10000 Level 5 | 0.50000 Level 6 | 2.000 Level 7 | 5.000 Level 8 | 10.000 Level 9 | RRF | % RSD |
|---|---|---|---|---|---|---|---|---|
| | 20.000 Level 10 | 40.000 Level 11 | | | | | | |
| 1 Freon134a | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | | |
| | +++++ | +++++ | | | | | +++++ | +++++ |
| 196 Methly Methacrylate | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | | |
| | +++++ | +++++ | | | | | +++++ | +++++ |
| 2 Propylene | +++++ | +++++ | 0.82667 | 0.75593 | 0.82981 | 0.81802 | | |
| | 0.75758 | 0.79406 | | | | | 0.79701 | 4.217 |
| 3 Freon 152A | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | | |
| | +++++ | +++++ | | | | | +++++ | +++++ |
| 4 Dichlorodifluoromethane/Fr12 | 5.91761 | 6.56396 | 5.88159 | 5.62776 | 6.12974 | 5.81528 | | |
| | 5.50446 | 5.30303 | | | | | 5.84293 | 6.667 |
| 5 Freon 22 | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | | |
| | +++++ | +++++ | | | | | +++++ | +++++ |
| 6 Freon 114 | +++++ | 3.38654 | 3.06664 | 2.86278 | 3.15772 | 3.03016 | | |
| | 2.90555 | 2.87047 | | | | | 3.03998 | 6.198 |

| BFB Verification of 176/174 m/z Ratio: | 357845/369898*100% = 96.74% |
|---|---|
| Tekmar Purge Flow: | NA |
| Vacuum: | 8.04e-6 |

| IS/S Std. #: 2403-19 | Exp. Date: 05/27/12 |
|---|---|
| BCM 73839 (LL) | 76109 (SIM) |
| 1,4-DFB 285440 | 319294 |
| CB-d5 243451 | ~~264~~ 267655 CR 03/09/12 |

Verified CCV IS vs ICAL mid-point (-40%D): CR

| File ID: E030815a |
|---|
| Compound: Toluene-d8 |
| Initials: CR |

Method Name: E12L0308A/E12S0308A

**Calculation Check:**

ppbv of compound = $\frac{\text{Area}_{\text{Sample}}}{\text{Area}_{\text{IS}}} \times \frac{\text{Conc}_{\text{IS}}}{\text{RRF}}$ = ( 291907 ) / ( 285440 ) x ( 5.00 ) / ( 1.00712 ) = 5.077

Reported Result: 5.077

| | Use | File | Lab ID# | Can# | Pressure | Amt. Loaded | DF | Loaded By Initials | Date Analyzed | Time Analyzed | Reviewed By Initials | Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | ✓ | E030805 | BFB Tune Check | 1476-2725 | 50ng | 2µL | 1.00 | CR | 03/08/12 | 1416 | CR | |
| 2 | X | 06 | ICAL Level 1 | 2403-53 | 0.0003ppbv | 15mL | 1.00 | CR | | 1442 | CR | Bad Std |
| 3 | X | 07 | 12 | | 0.005ppbv | 25mL | 1.00 | CR | | 1529 | CR | |
| 4 | X | 08 | 2 | | 0.01ppbv | 50mL | 1.00 | GS | | 1620 | GS | |
| 5 | X | 09 | 3 | | 0.02ppbv | 100mL | 1.00 | | | 1702 | GS | |
| 6 | X | 10 | 4 | | 0.05ppbv | ~~250~~mL | 1.00 | | | 1748 | GS | |
| 7 | ✓ | 11 | 5 | 2403-57 | 0.1ppbv | 12.5mL | 1.00 | | | 1833 | GS | |
| 8 | ✓ | 12 | 6 | | 0.5ppbv | 62.5mL | 1.00 | | | 1917 | GS | |
| 9 | ✓ | 13 | 7 | | 2.0ppbv | 250mL | 1.00 | | | 2022 | GS | |
| 10 | ✓ | 14 | 8 | 2370-1926 | 5.0ppbv | 25mL | 1.00 | | | 2102 | GS | |
| 11 | ✓ | 15 | 9 | | 10.0ppbv | 50mL | 1.00 | | | 2256 | CR | |
| 12 | ✓ | 16 | 10 | | 20.0ppbv | 100mL | 1.00 | EA | | 2348 | CR | |
| 13 | ✓ | 17 | 11 | | 40ppbv | 200mL | 1.00 | CR | 03/09/12 | 0810 | CR | |
| 14 | OK | 18 | System Blank | 3e043 | Humid | 250mL | 1.00 | CR | | 0919 | CR | |

Corrected Signed 03/09/12 Date

R Donnelly Reviewed 3/10/12 Date

@ Air Toxics Ltd. MSD-E Logbook #: 2374



| | Use | File | Lab ID# | Can# | Pressure | Amt. Loaded | DF | Loaded By Initials | Date Analyzed | Time Analyzed | Reviewed By Initials | Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 15 | ✓ | E030819 | ICAL Level 1 | 2403-59 | 0.003ppbv | 15mL | 1.00 | CR | 03/09/12 | 1005 | CR | |
| 16 | ✓ | 20 | 12 | | 0.005ppbv | 25mL | 1.00 | CR | | 1043 | CR | |
| 17 | ✓ | 21 | 2 | | 0.01ppbv | 50mL | 1.00 | CR | | 1122 | CR | |
| 18 | ✓ | 22 | 3 | | 0.02ppbv | 100mL | 1.00 | CR | | 1203 | CR | |
| 19 | ✓ | 23 | 4 | | 0.05ppbv | 250mL | 1.00 | CR | | 1255 | CR | |
| 20 | ✓ | 24 | ICV (50ppbv) | 2370-221 | 10ppbv | 50mL | 1.00 | CR | | 1334 | CR | Zero air |
| 21 | | | | | | | | | | | | |
| 22 | | | | | | | | | | | | |
| 23 | | | | | | | | | | | | |
| 24 | | | | | | | | | | | | |
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| 33 | | | | | | | | | | | | |
| 34 | | | | | | | | | | | | |
| 35 | | | | | | | | | | | | |
| 36 | | | | | | | | | | | | CR 03/09/12 |

Signed 03/09/12 Date

Reviewed 3/10/12 Date

Flow Controller: AA00483163 Nominal: 24.0 mL/min Actual: 25 mL/min

Flow Meter: 1-00874 - R - 09/29/11

280362/289002 *100% = 97.018% ✓

| BFB Verification of 176/174 m/z Ratio: | |
|---|---|
| Tekmar Purge Flow: | NA |
| Vacuum: | 7.92e-6 |

| IS/S Std. #: 2403-19 | Exp. Date: 05/27/12 |
|---|---|
| BCM | 53284 (LL) |
| 1,4-DFB | 199260 |
| CB-d5 | 174009 |

CR 03/10/12

ATS ICAL

Verified CCV IS vs ICAL mid-point (-40%D): CR



| File ID: | E031004a |
|---|---|
| Compound: | Toluene-d8 |
| Initials: | CR |

Method Name: E12L0308B/E12S0308A

**Calculation Check:**

ppbv of compound = $\frac{\text{Area}_{\text{Sample}}}{\text{Area}_{\text{IS}}} \times \frac{\text{Conc}_{\text{IS}}}{\text{RRF}}$ = ( 192766 ) / ( 199260 ) x ( 5.00 ) / ( 1.00712 ) = 4.803

Reported Result: 4.803

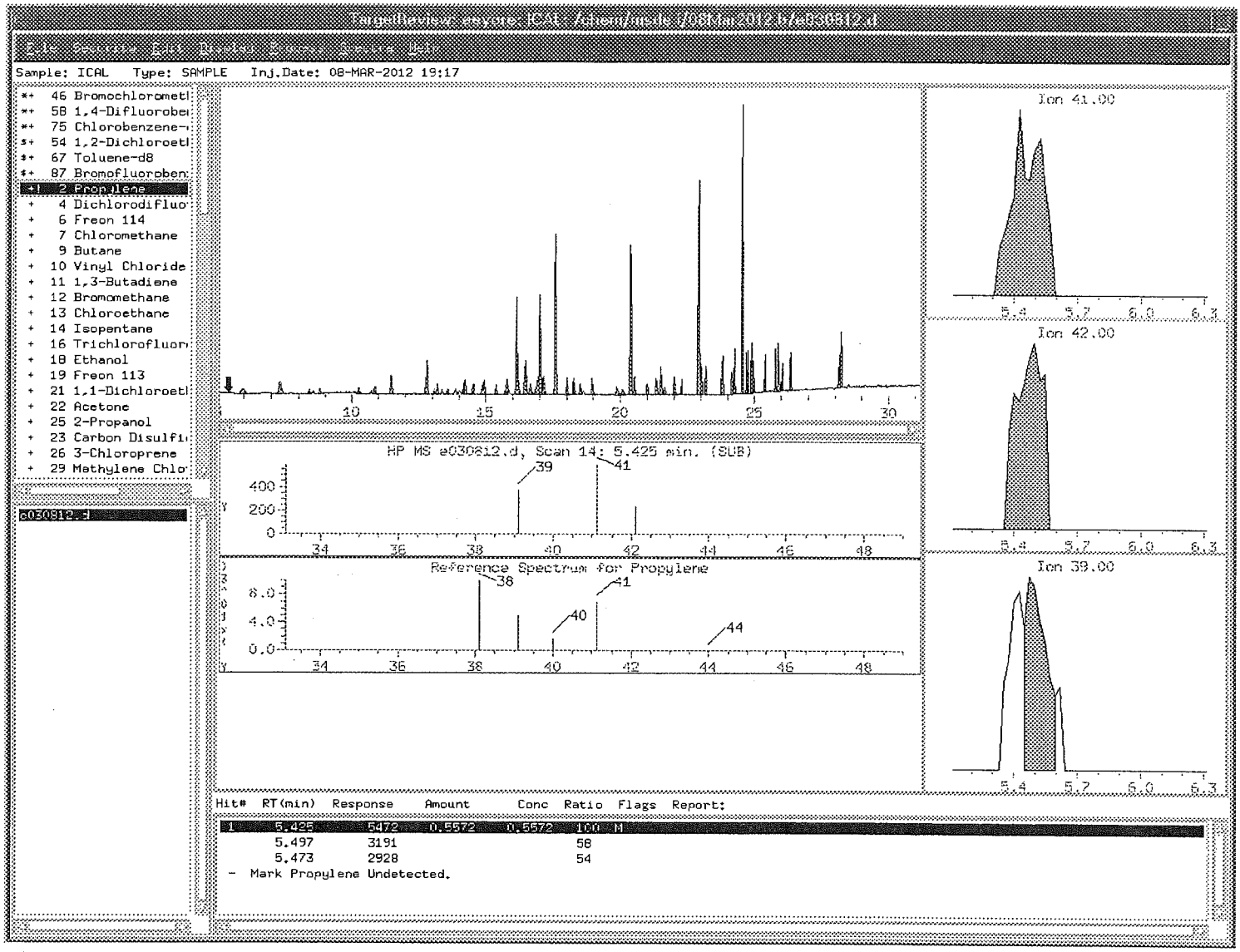
| | Use | File | Lab ID# | Can# | Pressure | Amt. Loaded | DF | Loaded By Initials | Date Analyzed | Time Analyzed | Reviewed By Initials | Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | ✓ | E031001 | BFB Tune Check | 1476-2725 | 50ng | 2uL | 1.00 | CR | 03/10/12 | 1000 | CR | |
| 2 | ✓ | 02 | ICAL Level #5 | 2403-8 | 0.10ppbv | 250mL | 1.00 | CR | | 1033 | CR | ATS |
| 3 | ✓ | 03 | #6 | 2403-7 | 0.50ppbv | 25mL | 1.00 | CR | | 1113 | CR | |
| 4 | ✓ | 04 | #7 | | 1.0ppbv | 50mL | 1.00 | CR | | 1152 | CR | |
| 5 | ✓ | 05 | #7 | | 2.0ppbv | ~~50mL~~ 100mL | CR 03/10/12 1.00 | CR | | 1234 | CR | |
| 6 | ✓ | 06 | #8 | | 5.0ppbv | 250mL | 1.00 | CR | | 1323 | CR | |
| 7 | ✓ | 07 | System Blank | 360043 | Humid | 250mL | 1.00 | CR | | 1410 | CR | ~~ATS LCS~~ CR 03/10/12 |
| 8 | ✓ | 08 | ICVsp (5.0ppbv) | 2403-73 | 1.0ppbv | 50mL | 1.00 | CR | | 1453 | CR | ATS LCS |
| 9 | ✓ | 09 | ICAL Level #6 | 2403-72 | 0.5ppbv | 25mL | 1.00 | LL | | 1538 | CR | ATS |
| 10 | ✓ | 10 | #11 | | 1.5ppbv | 75mL | | | | 1618 | CR | |
| 11 | ✓ | 11 | #8 | | 5.0ppbv | 250mL | | | | 1704 | CR | |
| 12 | ✓ | 12 | ICAL Level #6 | 2379-31 | 0.5ppbv | 62.5mL | | | | 1749 | CR | BP |
| 13 | ✓ | 13 | #11 | | 1.0ppbv | 125mL | | | | 1830 | CR | |
| 14 | ✓ | 14 | #7 | | 2.0ppbv | 250mL | | | | 1922 | CR | |

Catherine Rau — Signed

03/12/12 — Date

Reviewed

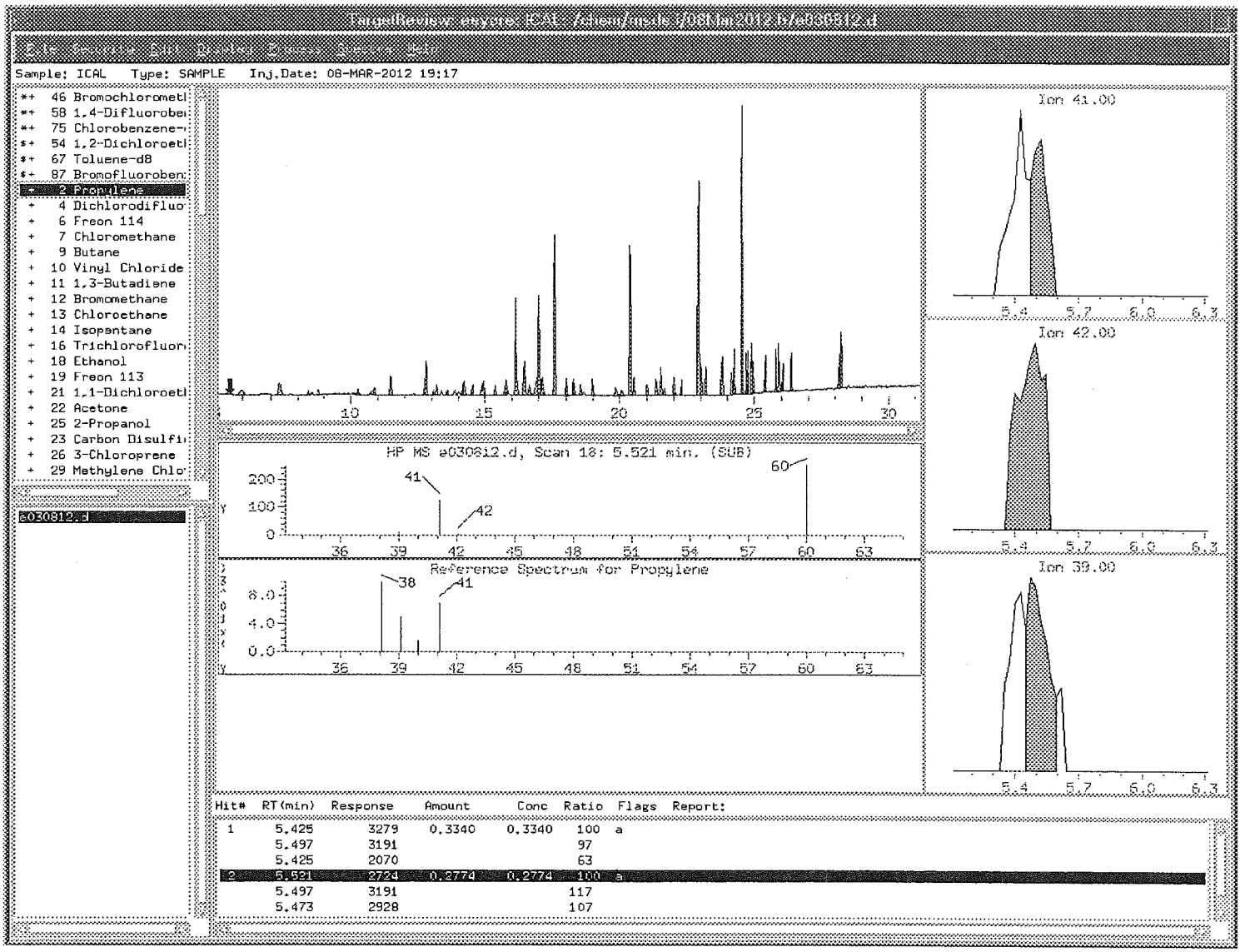
3/12/12 — Date



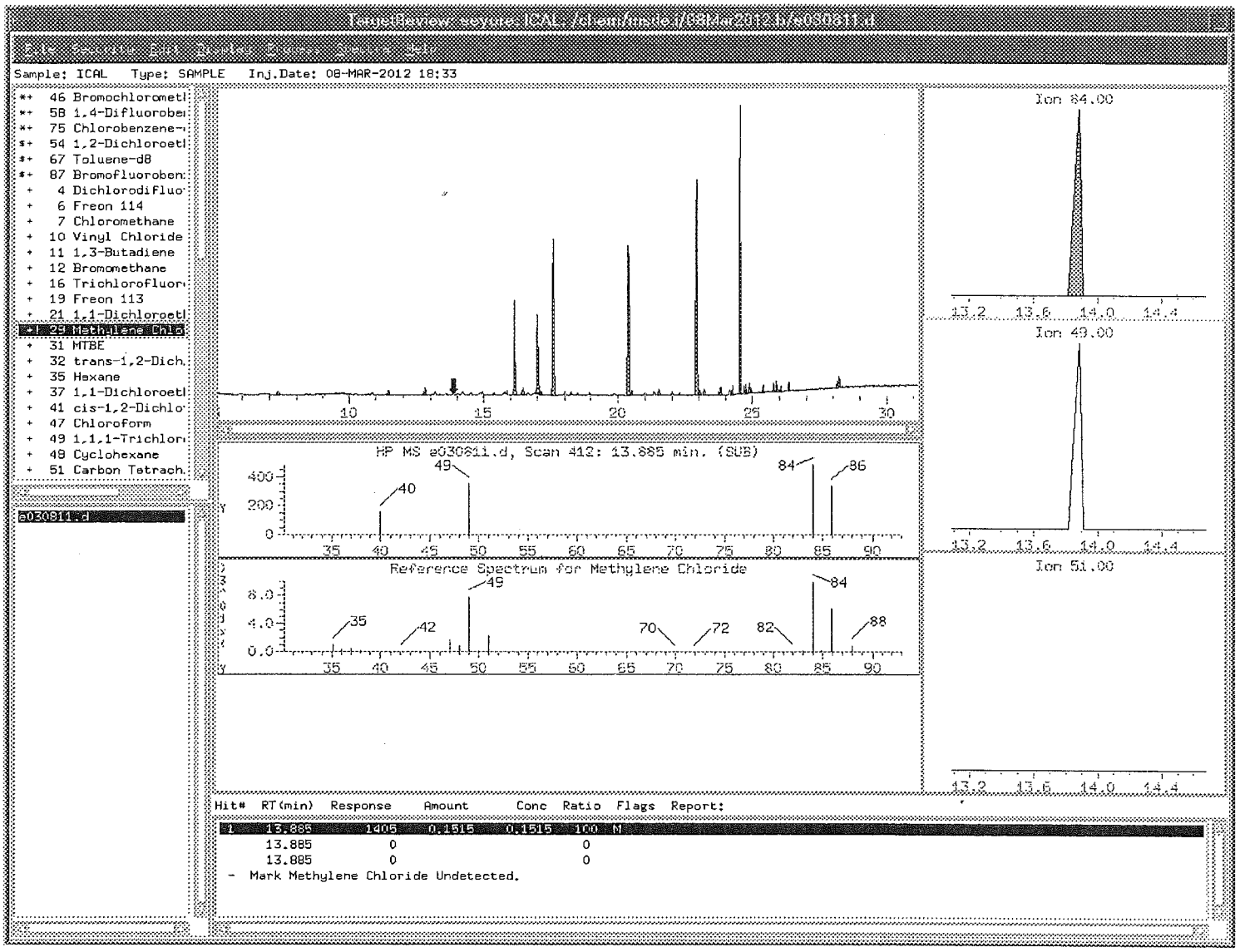

After

| Date / Initial | CK 03/09/12 |
|---|---|
| Poor Integration | |
| Split Peak | |
| Peak Tailing | |
| Background Subtra | |
| Zoom In | |
| Missed Peak | |

05 3/12/12


TargetReview: analyte IS-A: /chem/ms4c/30Mar2012.b/e030812.d
Sample: ICAL Type: SAMPLE Inj.Date: 08-MAR-2012 19:17
46 Bromochlorometh
58 1,4-Difluorober
75 Chlorobenzene-
54 1,2-Dichloroeth
67 Toluene-d8
87 Bromofluoroben
2 Propylene
4 Dichlorodifluo
6 Freon 114
7 Chloromethane
9 Butane
10 Vinyl Chloride
11 1,3-Butadiene
12 Bromomethane
13 Chloroethane
14 Isopentane
16 Trichlorofluor
18 Ethanol
19 Freon 113
21 1,1-Dichloroeth
22 Acetone
25 2-Propanol
23 Carbon Disulfi
26 3-Chloroprene
29 Methylene Chlo
e030812.d
HP MS e030812.d, Scan 18: 5.521 min. (SUB)
Reference Spectrum for Propylene
Ion 41.00
Ion 42.00
Ion 39.00
Hit# RT(min) Response Amount Conc Ratio Flags Report:
1 5.425 3279 0.3340 0.3340 100 a
5.497 3191 97
5.425 2070 63
2 5.521 2724 0.2774 0.2774 100 a
5.497 3191 117
5.473 2928 107

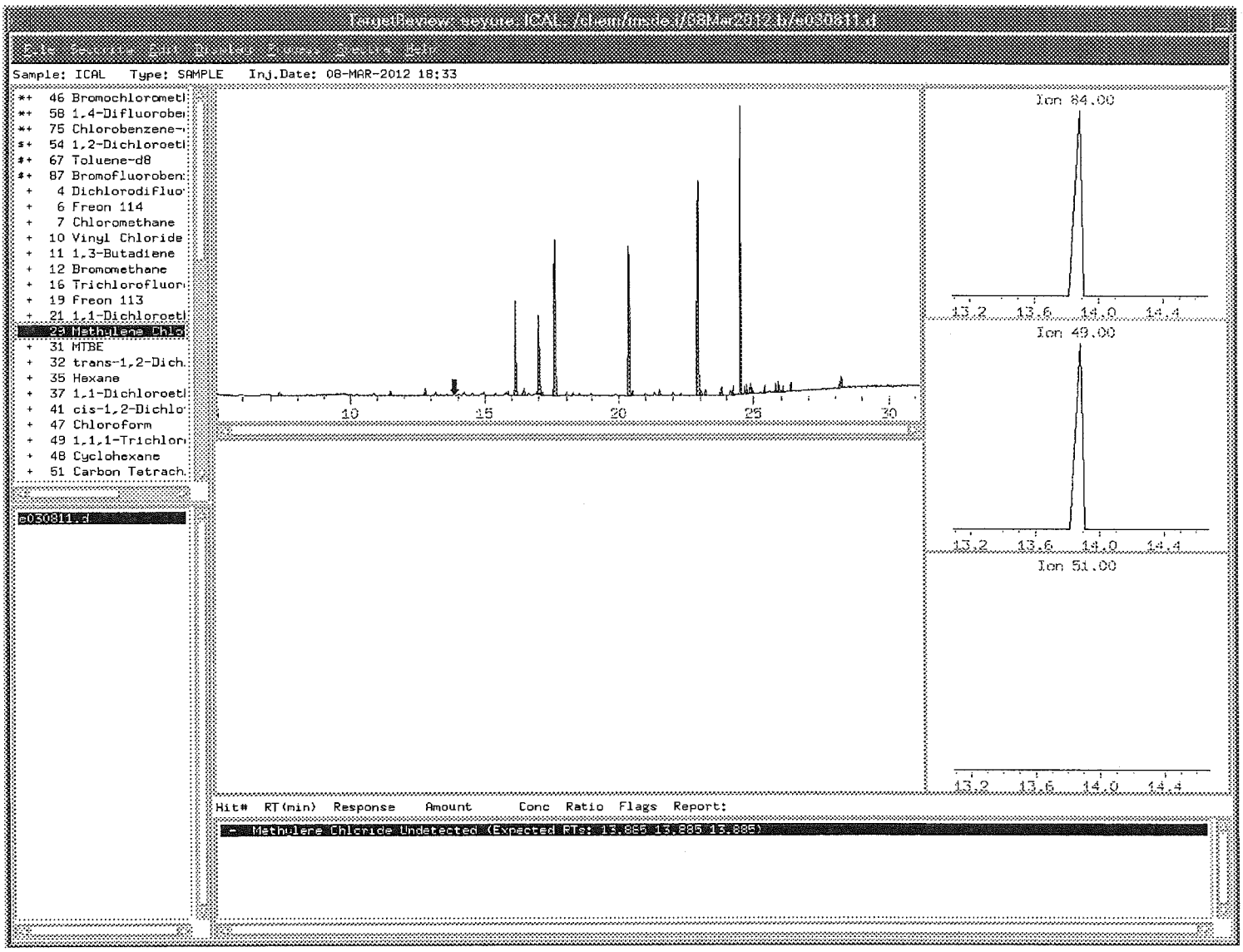
Before




After

| | |
|---|---|
| Date / Initial | CR 03/09/12 |
| Poor Integration | |
| Split Peak | |
| Peak Tailing | |
| Background Subtraction | |
| Zoom In | |
| Missed Peak | ✓ |

SS 3/12/12


ForgeReview: Jeyme: ICAL: /chem/ms.e/c8Mar2012.b/B0508l1.d
Sample: ICAL Type: SAMPLE Inj.Date: 08-MAR-2012 18:33
46 Bromochloromethane
58 1,4-Difluorobenzene
75 Chlorobenzene-d5
54 1,2-Dichloroethane-d4
67 Toluene-d8
87 Bromofluorobenzene
4 Dichlorodifluoromethane
6 Freon 114
7 Chloromethane
10 Vinyl Chloride
11 1,3-Butadiene
12 Bromomethane
16 Trichlorofluoromethane
19 Freon 113
21 1,1-Dichloroethene
28 Methylene Chloride
31 MTBE
32 trans-1,2-Dichloroethene
35 Hexane
37 1,1-Dichloroethane
41 cis-1,2-Dichloroethene
47 Chloroform
49 1,1,1-Trichloroethane
48 Cyclohexane
51 Carbon Tetrachloride
B0508l1.d
10
15
20
25
30
Ion 84.00
13.2
13.6
14.0
14.4
Ion 49.00
13.2
13.6
14.0
14.4
Ion 51.00
13.2
13.6
14.0
14.4
Hit# RT(min) Response Amount Conc Ratio Flags Report:
Methylene Chloride Undetected (Expected RTs: 13.885 13.885 13.885)

Before

Air Toxics Ltd.

Modified EPA Methods TO-14A/TO-15 Low Level

Internal Standard and Associated Target Compounds and Surrogates

| Bromochloromethane |
|---|
| **Target Compounds:** |
| Freon 12 |
| Freon 114 |
| Chloromethane |
| Vinyl Chloride |
| 1,3-Butadiene |
| Bromomethane |
| Chloroethane |
| Freon 11 |
| Ethanol |
| Freon 113 |
| 1,1-Dichloroethene |
| Acetone |
| 2-Propanol |
| Carbon Disulfide |
| Methylene Chloride |
| Methyl tert-butyl ether |
| trans-1,2-Dichloroethene |
| Hexane |
| 1,1-Dichloroethane |
| 2-Butanone (Methyl Ethyl Ketone) |
| cis-1,2-Dichloroethene |
| Tetrahydrofuran |
| Chloroform |
| 1,1,1-Trichloroethane |
| Cyclohexane |
| Carbon Tetrachloride |
| **Surrogates:** |
| 1,2-Dichloroethane-d4 |

| 1,4-Difluorobenzene |
|---|
| **Target Compounds:** |
| Benzene |
| 1,2-Dichloroethane |
| Heptane |
| Trichloroethene |
| 1,2-Dichloropropane |
| 1,4-Dioxane |
| Bromodichloromethane |
| cis-1,3-Dichloropropene |
| 4-Methyl-2-pentanone |
| Toluene |
| **Surrogates:** |
| Toluene-d8 |

| Chlorobenzene-d5 |
|---|
| **Target Compounds:** |
| trans-1,3-Dichloropropene |
| 1,1,2-Trichloroethane |
| Tetrachloroethene |
| 2-Hexanone |
| Dibromochloromethane |
| 1,2-Dibromoethane (EDB) |
| Chlorobenzene |
| Ethyl Benzene |
| m,p-Xylene |
| o-Xylene |
| Styrene |
| Bromoform |
| Cumene |
| 1,1,2,2-Tetrachloroethane |
| Propylbenzene |
| 4-Ethyltoluene |
| 1,3,5-Trimethylbenzene |
| 1,2,4-Trimethylbenzene |
| 1,3-Dichlorobenzene |
| 1,4-Dichlorobenzene |
| alpha-Chlorotoluene |
| 1,2-Dichlorobenzene |
| 1,2,4-Trichlorobenzene |
| Hexachlorobutadiene |
| **Surrogates:** |
| Bromofluorobenzene |

Air Toxics Ltd.

EPA TO-15/Modified TO14A

Data file : /chem/msde.i/08Mar2012.b/e030824.d
Lab Smp Id: LCS Client Smp ID: LCS
Inj Date : 09-MAR-2012 13:34
Operator : cr Inst ID: msde.i
Smp Info : 50mL #2730-221
Misc Info : 10ppbv (50ppbv) -- ICV
Comment : Low-Level/GC-MS
Method : /chem/msde.i/08Mar2012.b/e12l0308a.m
Meth Date : 09-Mar-2012 15:12 croush Quant Type: ISTD
Cal Date : 09-MAR-2012 12:55 Cal File: e030823.d
Als bottle: 8 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AT09.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

| Name | Value | Description |
|---|---|---|
| DF | 1.00000 | Dilution Factor |

| | | | | | CONCENTRATIONS ON-COL ( PPBV) | FINAL ( PPBV) | TARGET RANGE | RATIO |
|---|---|---|---|---|---|---|---|---|
| * 46 Bromochloromethane | | | | | | CAS #: 74-97-5 | | |
| 16.158 | 16.128 (1.000) | 130 | 62047 | 5.00000 | | | 80.00- 120.00 | 100.00 |
| 16.158 | 16.128 (1.000) | 128 | 49939 | | | | 0.00- 30.00 | 80.49 |
| 16.127 | 16.128 (1.000) | 49 | 94048 | | | | 0.00- 30.00 | 151.58 |
| * 58 1,4-Difluorobenzene | | | | | | CAS #: 540-36-3 | | |
| 17.585 | 17.586 (1.000) | 114 | 238994 | 5.00000 | | | 80.00- 120.00 | 100.00 |
| 17.585 | 17.586 (1.000) | 88 | 43556 | | | | 0.00- 30.00 | 18.22 |
| * 75 Chlorobenzene-d5 | | | | | | CAS #: 3114-55-4 | | |
| 22.927 | 22.927 (1.000) | 117 | 205709 | 5.00000 | | | 80.00- 120.00 | 100.00 |
| 22.927 | 22.927 (1.000) | 82 | 143781 | | | | 0.00- 30.00 | 69.90 |
| $ 54 1,2-Dichloroethane-d4 | | | | | | CAS #: 17060-07-0 | | |
| 17.013 | 17.013 (1.053) | 65 | 119423 | 5.16489 | 5.165 | | 80.00- 120.00 | 100.00 |
| 17.013 | 17.013 (1.053) | 67 | 60701 | | | | 0.00- 30.00 | 50.83 |

| RT | EXP RT (REL RT) | MASS | RESPONSE | CONCENTRATIONS ON-COL ( PPBV) | CONCENTRATIONS FINAL ( PPBV) | TARGET RANGE | RATIO |
|---|---|---|---|---|---|---|---|
| $ 67 Toluene-d8 | | | | | CAS #: 2037-26-5 | | |
| 20.368 | 20.368 (1.158) | 98 | 247470 | 5.14075 | 5.141 | 80.00- 120.00 | 100.00 |
| 20.368 | 20.368 (1.158) | 70 | 29927 | | | 0.00- 30.00 | 12.09 |
| 20.368 | 20.368 (1.158) | 100 | 157027 | | | 33.91- 93.91 | 63.45 |
| $ 87 Bromofluorobenzene | | | | | CAS #: 460-00-4 | | |
| 24.525 | 24.526 (1.070) | 174 | 125840 | 5.34755 | 5.348 | 80.00- 120.00 | 100.00 |
| 24.525 | 24.526 (1.070) | 95 | 201802 | | | 125.57- 185.57 | 160.36 |
| 24.525 | 24.526 (1.070) | 176 | 120073 | | | 64.73- 124.73 | 95.42 |
| 2 Propylene | | | | | CAS #: 115-07-1 | | |
| 5.497 | 5.497 (0.340) | 41 | 78824 | 7.96976 | 7.970 | 80.00- 120.00 | 100.00 |
| 5.497 | 5.473 (0.340) | 42 | 50888 | | | 0.00- 30.00 | 64.56 |
| 5.497 | 5.497 (0.340) | 39 | 68466 | | | 0.00- 30.00 | 86.86 |
| 4 Dichlorodifluoromethane/Fr12 | | | | | CAS #: 75-71-8 | | |
| 5.955 | 5.955 (0.369) | 85 | 712739 | 9.82985 | 9.830 | 80.00- 120.00 | 100.00 |
| 5.955 | 5.955 (0.369) | 87 | 229346 | | | 2.22- 62.22 | 32.18 |
| 6 Freon 114 | | | | | CAS #: 76-14-2 | | |
| 7.353 | 7.329 (0.455) | 135 | 351369 | 9.31407 | 9.314 | 80.00- 120.00 | 100.00 |
| 7.353 | 7.329 (0.455) | 137 | 113309 | | | 0.00- 30.00 | 32.25 |
| 7 Chloromethane | | | | | CAS #: 74-87-3 | | |
| 7.715 | 7.691 (0.477) | 50 | 101956 | 9.51421 | 9.514 | 80.00- 120.00 | 100.00 |
| 7.715 | 7.715 (0.477) | 52 | 34666 | | | 0.00- 30.00 | 34.00 |
| 9 Butane | | | | | CAS #: 106-97-8 | | |
| 8.422 | 8.404 (0.521) | 58 | 36355 | 9.85771 | 9.858 | 80.00- 120.00 | 100.00 |
| 8.422 | 8.404 (0.521) | 43 | 190225 | | | 0.00- 30.00 | 523.24 |
| 10 Vinyl Chloride | | | | | CAS #: 75-01-4 | | |
| 8.560 | 8.543 (0.530) | 62 | 164500 | 9.72575 | 9.726 | 80.00- 120.00 | 100.00 |
| 8.543 | 8.543 (0.529) | 64 | 53178 | | | 2.55- 62.55 | 32.33 |
| 11 1,3-Butadiene | | | | | CAS #: 106-99-0 | | |
| 8.786 | 8.786 (0.544) | 54 | 101398 | 9.53824 | 9.538 | 80.00- 120.00 | 100.00 |
| 8.786 | 8.786 (0.544) | 39 | 96578 | | | 0.00- 30.00 | 95.25 |
| 12 Bromomethane | | | | | CAS #: 74-83-9 | | |
| 10.272 | 10.251 (0.636) | 94 | 186204 | 9.95678 | 9.957 | 80.00- 120.00 | 100.00 |
| 10.272 | 10.251 (0.636) | 96 | 180316 | | | 65.25- 125.25 | 96.84 |
| 13 Chloroethane | | | | | CAS #: 75-00-3 | | |
| 10.728 | 10.728 (0.664) | 64 | 85767 | 9.51657 | 9.516 | 80.00- 120.00 | 100.00 |
| 10.728 | 10.728 (0.664) | 49 | 19666 | | | 0.00- 30.00 | 22.93 |

| RT | EXP RT (REL RT) | MASS | RESPONSE | CONCENTRATIONS ON-COL ( PPBV) | FINAL ( PPBV) | TARGET RANGE | RATIO |
|---|---|---|---|---|---|---|---|
| 13 Chloroethane (continued) | | | | | | | |
| 10.728 | 10.728 (0.664) | 66 | 29573 | | | 0.00- 30.00 | 34.48 |
| 14 Isopentane | | | | | CAS #: 78-78-4 | | |
| 10.852 | 10.852 (0.672) | 57 | 107619 | 9.45428 | 9.454 | 80.00- 120.00 | 100.00 |
| 10.852 | 10.852 (0.672) | 43 | 122035 | | | 0.00- 30.00 | 113.40 |
| 10.852 | 10.852 (0.672) | 42 | 103157 | | | 0.00- 30.00 | 95.85 |
| 16 Trichlorofluoromethane/Fr11 | | | | | CAS #: 75-69-4 | | |
| 11.474 | 11.474 (0.710) | 101 | 742927 | 9.71582 | 9.716 | 80.00- 120.00 | 100.00 |
| 11.474 | 11.474 (0.710) | 103 | 487983 | | | 36.02- 96.02 | 65.68 |
| 18 Ethanol | | | | | CAS #: 64-17-5 | | |
| 12.344 | 12.324 (0.764) | 45 | 43880 | 10.9917 | 10.992 | 80.00- 120.00 | 100.00 |
| 12.344 | 12.324 (0.764) | 46 | 17421 | | | 0.00- 30.00 | 39.70 |
| 12.344 | 12.324 (0.764) | 43 | 12824 | | | 0.00- 30.00 | 29.23 |
| 21 1,1-Dichloroethene | | | | | CAS #: 75-35-4 | | |
| 12.821 | 12.821 (0.793) | 98 | 119672 | 10.8833 | 10.883 | 80.00- 120.00 | 100.00 |
| 12.821 | 12.821 (0.793) | 61 | 310626 | | | 0.00- 30.00 | 259.56 |
| 12.821 | 12.821 (0.793) | 96 | 187051 | | | 0.00- 30.00 | 156.30 |
| 19 Freon 113 | | | | | CAS #: 76-13-1 | | |
| 12.800 | 12.801 (0.792) | 151 | 325026 | 10.0519 | 10.052 | 80.00- 120.00 | 100.00 |
| 12.800 | 12.801 (0.792) | 153 | 206585 | | | 34.27- 94.27 | 63.56 |
| 12.800 | 12.801 (0.792) | 101 | 454493 | | | 0.00- 30.00 | 139.83 |
| 22 Acetone | | | | | CAS #: 67-64-1 | | |
| 13.091 | 13.070 (0.810) | 58 | 71479 | 10.1934 | 10.193 | 80.00- 120.00 | 100.00 |
| 13.091 | 13.070 (0.810) | 43 | 229741 | | | 0.00- 30.00 | 321.41 |
| 23 Carbon Disulfide | | | | | CAS #: 75-15-0 | | |
| 13.194 | 13.194 (0.817) | 76 | 569749 | 12.3484 | 12.348 | 80.00- 120.00 | 100.00 |
| 26 3-Chloroprene | | | | | CAS #: 107-05-1 | | |
| 13.609 | 13.588 (0.842) | 76 | 81978 | 12.0460 | 12.046 | 80.00- 120.00 | 100.00 |
| 13.609 | 13.588 (0.842) | 41 | 135031 | | | 0.00- 30.00 | 164.72 |
| 25 2-Propanol | | | | | CAS #: 67-63-0 | | |
| 13.402 | 13.360 (0.829) | 45 | 204609 | 10.7929 | 10.793 | 80.00- 120.00 | 100.00 |
| 13.381 | 13.360 (0.828) | 43 | 60077 | | | 0.00- 30.00 | 29.36 |
| 13.402 | 13.360 (0.829) | 59 | 10499 | | | 0.00- 30.00 | 5.13 |
| 29 Methylene Chloride | | | | | CAS #: 75-09-2 | | |
| 13.885 | 13.885 (0.859) | 84 | 99312 | 11.4734 | 11.473 | 80.00- 120.00 | 100.00 |
| 13.885 | 13.885 (0.859) | 49 | 82365 | | | 0.00- 30.00 | 82.94 |

| RT | EXP RT (REL RT) | MASS | RESPONSE | CONCENTRATIONS ON-COL ( PPBV) | FINAL ( PPBV) | TARGET RANGE | RATIO |
|---|---|---|---|---|---|---|---|
| 29 Methylene Chloride (continued) | | | | | | | |
| 13.885 | 13.885 (0.859) | 51 | 25613 | | | 0.00- 30.00 | 25.79 |
| 30 tert-butyl alcohol | | | | | CAS #: 75-65-0 | | |
| 14.242 | 14.023 (0.881) | 59 | 12557 | 0.69862 | 0.6986 | 80.00- 120.00 | 100.00 |
| 14.187 | 14.023 (0.878) | 41 | 94858 | | | 0.00- 30.00 | 755.39 |
| 14.187 | 14.023 (0.878) | 57 | 100002 | | | 0.00- 30.00 | 796.35 |
| 31 MTBE | | | | | CAS #: 1634-04-4 | | |
| 14.187 | 14.187 (0.878) | 73 | 610240 | 10.9444 | 10.944 | 80.00- 120.00 | 100.00 |
| 14.187 | 14.187 (0.878) | 57 | 100002 | | | 0.00- 30.00 | 16.39 |
| 14.187 | 14.187 (0.878) | 41 | 94858 | | | 0.00- 30.00 | 15.54 |
| 32 trans-1,2-Dichloroethene | | | | | CAS #: 156-60-5 | | |
| 14.242 | 14.242 (0.881) | 98 | 131345 | 11.1506 | 11.150 | 80.00- 120.00 | 100.00 |
| 14.242 | 14.242 (0.881) | 61 | 276661 | | | 0.00- 30.00 | 210.64 |
| 14.242 | 14.242 (0.881) | 96 | 207377 | | | 0.00- 30.00 | 157.89 |
| 35 Hexane | | | | | CAS #: 110-54-3 | | |
| 14.544 | 14.544 (0.900) | 57 | 214570 | 10.6131 | 10.613 | 80.00- 120.00 | 100.00 |
| 14.544 | 14.544 (0.900) | 43 | 112744 | | | 0.00- 30.00 | 52.54 |
| 14.544 | 14.544 (0.900) | 86 | 53830 | | | 0.00- 30.00 | 25.09 |
| 37 1,1-Dichloroethane | | | | | CAS #: 75-34-3 | | |
| 14.956 | 14.956 (0.926) | 63 | 340536 | 10.2283 | 10.228 | 80.00- 120.00 | 100.00 |
| 14.956 | 14.956 (0.926) | 65 | 110150 | | | 0.00- 30.00 | 32.35 |
| 38 Vinyl Acetate | | | | | CAS #: 108-05-4 | | |
| 14.956 | 14.956 (0.926) | 86 | 50728 | 10.3134 | 10.313 | 80.00- 120.00 | 100.00 |
| 14.956 | 14.956 (0.926) | 42 | 34573 | | | 0.00- 30.00 | 68.15 |
| 14.956 | 14.956 (0.926) | 43 | 322457 | | | 0.00- 30.00 | 635.65 |
| 41 cis-1,2-Dichloroethene | | | | | CAS #: 156-59-2 | | |
| 15.787 | 15.787 (0.977) | 98 | 190406 | 10.7512 | 10.751 | 80.00- 120.00 | 100.00 |
| 15.787 | 15.787 (0.977) | 61 | 362394 | | | 0.00- 30.00 | 190.33 |
| 15.787 | 15.787 (0.977) | 96 | 293065 | | | 124.52- 184.52 | 153.92 |
| 42 2-Butanone | | | | | CAS #: 78-93-3 | | |
| 15.787 | 15.766 (0.977) | 72 | 138964 | 10.9311 | 10.931 | 80.00- 120.00 | 100.00 |
| 15.787 | 15.766 (0.977) | 43 | 357869 | | | 0.00- 30.00 | 257.53 |
| 15.787 | 15.766 (0.977) | 57 | 34420 | | | 0.00- 30.00 | 24.77 |
| 44 Tetrahydrofuran | | | | | CAS #: 109-99-9 | | |
| 16.127 | 16.128 (0.998) | 42 | 124818 | 9.84874 | 9.849 | 80.00- 120.00 | 100.00 |
| 16.127 | 16.128 (0.998) | 71 | 84541 | | | 0.00- 30.00 | 67.73 |
| 16.127 | 16.128 (0.998) | 72 | 93599 | | | 0.00- 30.00 | 74.99 |

| RT | EXP RT (REL RT) | MASS | RESPONSE | CONCENTRATIONS ON-COL ( PPBV) | FINAL ( PPBV) | TARGET RANGE | RATIO |
|---|---|---|---|---|---|---|---|
| 47 Chloroform | | | | | CAS #: 67-66-3 | | |
| 16.189 | 16.189 (1.002) | 83 | 526590 | 10.3325 | 10.332 | 80.00- 120.00 | 100.00 |
| 16.189 | 16.189 (1.002) | 85 | 331042 | | | 0.00- 30.00 | 62.87 |
| 48 Cyclohexane | | | | | CAS #: 110-82-7 | | |
| 16.466 | 16.467 (1.019) | 84 | 287589 | 10.5682 | 10.568 | 80.00- 120.00 | 100.00 |
| 16.466 | 16.467 (1.019) | 56 | 233077 | | | 0.00- 30.00 | 81.05 |
| 16.466 | 16.467 (1.019) | 41 | 121047 | | | 0.00- 30.00 | 42.09 |
| 49 1,1,1-Trichloroethane | | | | | CAS #: 71-55-6 | | |
| 16.466 | 16.467 (1.019) | 97 | 599195 | 10.2887 | 10.289 | 80.00- 120.00 | 100.00 |
| 16.466 | 16.467 (1.019) | 99 | 386998 | | | 0.00- 30.00 | 64.59 |
| 51 Carbon Tetrachloride | | | | | CAS #: 56-23-5 | | |
| 16.651 | 16.652 (1.031) | 119 | 374704 | 8.59893 | 8.599 | 80.00- 120.00 | 100.00 |
| 16.651 | 16.652 (1.031) | 117 | 385671 | | | 0.00- 30.00 | 102.93 |
| 52 2,2,4-Trimethylpentane | | | | | CAS #: 540-84-1 | | |
| 16.925 | 16.926 (1.047) | 56 | 302289 | 9.69711 | 9.697 | 80.00- 120.00 | 100.00 |
| 16.925 | 16.926 (1.047) | 57 | 950789 | | | 0.00- 30.00 | 314.53 |
| 16.925 | 16.926 (1.047) | 41 | 271980 | | | 0.00- 30.00 | 89.97 |
| 53 Benzene | | | | | CAS #: 71-43-2 | | |
| 17.013 | 17.013 (0.967) | 78 | 614855 | 10.0292 | 10.029 | 80.00- 120.00 | 100.00 |
| 17.013 | 17.013 (0.967) | 77 | 143975 | | | 0.00- 30.00 | 23.42 |
| 56 1,2-Dichloroethane | | | | | CAS #: 107-06-2 | | |
| 17.129 | 17.130 (0.974) | 62 | 345970 | 10.0078 | 10.008 | 80.00- 120.00 | 100.00 |
| 17.129 | 17.130 (0.974) | 64 | 115616 | | | 0.00- 30.00 | 33.42 |
| 57 Heptane | | | | | CAS #: 142-82-5 | | |
| 17.159 | 17.159 (0.976) | 57 | 140468 | 11.0853 | 11.085 | 80.00- 120.00 | 100.00 |
| 17.159 | 17.159 (0.976) | 100 | 85259 | | | 0.00- 30.00 | 60.70 |
| 17.159 | 17.159 (0.976) | 43 | 210610 | | | 0.00- 30.00 | 149.93 |
| 59 Trichloroethene | | | | | CAS #: 79-01-6 | | |
| 18.025 | 18.025 (1.025) | 130 | 247213 | 9.13028 | 9.130 | 80.00- 120.00 | 100.00 |
| 18.025 | 18.025 (1.025) | 95 | 284519 | | | 0.00- 30.00 | 115.09 |
| 18.025 | 18.025 (1.025) | 97 | 188149 | | | 0.00- 30.00 | 76.11 |
| 60 Methylcyclohexane | | | | | CAS #: 108-87-2 | | |
| 18.272 | 18.272 (1.039) | 83 | 370241 | 10.5853 | 10.585 | 80.00- 120.00 | 100.00 |
| 18.272 | 18.272 (1.039) | 55 | 230214 | | | 0.00- 30.00 | 62.18 |
| 18.272 | 18.272 (1.039) | 56 | 66941 | | | 0.00- 30.00 | 18.08 |
| 61 1,2-Dichloropropane | | | | | CAS #: 78-87-5 | | |
| 18.519 | 18.519 (1.053) | 63 | 187451 | 9.94491 | 9.945 | 80.00- 120.00 | 100.00 |

| RT | EXP RT (REL RT) | MASS | RESPONSE | CONCENTRATIONS ON-COL ( PPBV) | FINAL ( PPBV) | TARGET RANGE | RATIO |
|---|---|---|---|---|---|---|---|
| 61 1,2-Dichloropropane (continued) | | | | | | | |
| 18.519 | 18.519 (1.053) | 62 | 129010 | | | 0.00- 30.00 | 68.82 |
| 18.519 | 18.519 (1.053) | 41 | 115880 | | | 29.06- 89.06 | 61.82 |
| 62 1,4-Dioxane | | | | | CAS #: 123-91-1 | | |
| 18.629 | 18.629 (1.059) | 88 | 144839 | 10.7750 | 10.775 | 80.00- 120.00 | 100.00 |
| 18.629 | 18.629 (1.059) | 58 | 80981 | | | 0.00- 30.00 | 55.91 |
| 18.629 | 18.629 (1.059) | 57 | 27990 | | | 0.00- 30.00 | 19.33 |
| 63 Bromodichloromethane | | | | | CAS #: 75-27-4 | | |
| 18.958 | 18.959 (1.078) | 83 | 552182 | 10.4870 | 10.487 | 80.00- 120.00 | 100.00 |
| 18.958 | 18.959 (1.078) | 85 | 347288 | | | 0.00- 30.00 | 62.89 |
| 64 cis-1,3-Dichloropropene | | | | | CAS #: 10061-01-5 | | |
| 19.865 | 19.865 (1.130) | 75 | 308012 | 9.44271 | 9.443 | 80.00- 120.00 | 100.00 |
| 19.865 | 19.865 (1.130) | 77 | 95023 | | | 0.00- 30.00 | 30.85 |
| 19.865 | 19.865 (1.130) | 39 | 126161 | | | 10.38- 70.38 | 40.96 |
| 65 4-Methyl-2-pentanone | | | | | CAS #: 108-10-1 | | |
| 20.076 | 20.077 (1.142) | 43 | 278195 | 11.4190 | 11.419 | 80.00- 120.00 | 100.00 |
| 20.076 | 20.077 (1.142) | 58 | 134536 | | | 0.00- 30.00 | 48.36 |
| 20.076 | 20.077 (1.142) | 85 | 82947 | | | 0.00- 30.00 | 29.82 |
| 68 Toluene | | | | | CAS #: 108-88-3 | | |
| 20.525 | 20.525 (1.167) | 91 | 723476 | 9.88940 | 9.889 | 80.00- 120.00 | 100.00 |
| 20.525 | 20.525 (1.167) | 92 | 427378 | | | 0.00- 30.00 | 59.07 |
| 69 trans-1,3-Dichloropropene | | | | | CAS #: 10061-02-6 | | |
| 20.995 | 20.995 (0.916) | 75 | 510194 | 11.5655 | 11.565 | 80.00- 120.00 | 100.00 |
| 20.995 | 20.995 (0.916) | 77 | 161538 | | | 0.00- 30.00 | 31.66 |
| 20.995 | 20.995 (0.916) | 39 | 178077 | | | 4.84- 64.84 | 34.90 |
| 70 1,1,2-Trichloroethane | | | | | CAS #: 79-00-5 | | |
| 21.367 | 21.335 (0.932) | 97 | 268172 | 10.0903 | 10.090 | 80.00- 120.00 | 100.00 |
| 21.367 | 21.335 (0.932) | 99 | 164908 | | | 0.00- 30.00 | 61.49 |
| 21.367 | 21.335 (0.932) | 83 | 218815 | | | 52.76- 112.76 | 81.59 |
| 71 Tetrachloroethene | | | | | CAS #: 127-18-4 | | |
| 21.497 | 21.498 (0.938) | 166 | 297865 | 9.65526 | 9.655 | 80.00- 120.00 | 100.00 |
| 21.497 | 21.498 (0.938) | 129 | 263246 | | | 0.00- 30.00 | 88.38 |
| 21.497 | 21.498 (0.938) | 131 | 251183 | | | 0.00- 30.00 | 84.33 |
| 72 2-Hexanone | | | | | CAS #: 591-78-6 | | |
| 21.660 | 21.660 (0.945) | 58 | 186341 | 11.0783 | 11.078 | 80.00- 120.00 | 100.00 |
| 21.660 | 21.660 (0.945) | 43 | 288939 | | | 0.00- 30.00 | 155.06 |
| 21.660 | 21.660 (0.945) | 100 | 53016 | | | 0.00- 30.00 | 28.45 |

| RT | EXP RT (REL RT) | MASS | RESPONSE | CONCENTRATIONS ON-COL ( PPBV) | FINAL ( PPBV) | TARGET RANGE | RATIO |
|---|---|---|---|---|---|---|---|
| 73 Dibromochloromethane | | | | | CAS #: 124-48-1 | | |
| 22.018 | 22.018 (0.960) | 129 | 482834 | 10.6775 | 10.677 | 80.00- 120.00 | 100.00 |
| 22.018 | 22.018 (0.960) | 127 | 375027 | | | 0.00- 30.00 | 77.67 |
| 74 1,2-Dibromoethane | | | | | CAS #: 106-93-4 | | |
| 22.278 | 22.278 (0.972) | 107 | 425274 | 10.4322 | 10.432 | 80.00- 120.00 | 100.00 |
| 22.278 | 22.278 (0.972) | 109 | 379243 | | | 0.00- 30.00 | 89.18 |
| 76 Chlorobenzene | | | | | CAS #: 108-90-7 | | |
| 22.975 | 22.951 (1.002) | 112 | 576095 | 9.82653 | 9.826 | 80.00- 120.00 | 100.00 |
| 22.975 | 22.951 (1.002) | 114 | 186676 | | | 0.00- 30.00 | 32.40 |
| 22.951 | 22.951 (1.001) | 77 | 385381 | | | 36.24- 96.24 | 66.90 |
| 77 Ethyl Benzene | | | | | CAS #: 100-41-4 | | |
| 23.023 | 23.023 (1.004) | 106 | 303706 | 10.6032 | 10.603 | 80.00- 120.00 | 100.00 |
| 23.023 | 23.023 (1.004) | 91 | 1075922 | | | 0.00- 30.00 | 354.26 |
| 80 m,p-Xylene | | | | | CAS #: 108-38-3 | | |
| 23.192 | 23.192 (1.012) | 106 | 385716 | 11.1920 | 11.192 | 80.00- 120.00 | 100.00 |
| 23.192 | 23.192 (1.012) | 91 | 881294 | | | 0.00- 30.00 | 228.48 |
| 81 o-Xylene | | | | | CAS #: 95-47-6 | | |
| 23.770 | 23.770 (1.037) | 106 | 375363 | 11.3292 | 11.329 | 80.00- 120.00 | 100.00 |
| 23.770 | 23.770 (1.037) | 91 | 897629 | | | 0.00- 30.00 | 239.14 |
| 83 Styrene | | | | | CAS #: 100-42-5 | | |
| 23.818 | 23.818 (1.039) | 104 | 579361 | 11.5842 | 11.584 | 80.00- 120.00 | 100.00 |
| 23.818 | 23.794 (1.039) | 78 | 356275 | | | 0.00- 30.00 | 61.49 |
| 84 Bromoform | | | | | CAS #: 75-25-2 | | |
| 24.131 | 24.132 (1.053) | 173 | 425252 | 10.8776 | 10.878 | 80.00- 120.00 | 100.00 |
| 24.131 | 24.132 (1.053) | 171 | 218552 | | | 0.00- 30.00 | 51.39 |
| 85 Cumene | | | | | CAS #: 98-82-8 | | |
| 24.228 | 24.228 (1.057) | 105 | 1232382 | 11.4878 | 11.488 | 80.00- 120.00 | 100.00 |
| 24.228 | 24.228 (1.057) | 120 | 290503 | | | 0.00- 30.00 | 23.57 |
| 89 1,1,2,2-Tetrachloroethane | | | | | CAS #: 79-34-5 | | |
| 24.680 | 24.680 (1.076) | 83 | 584640 | 10.5448 | 10.545 | 80.00- 120.00 | 100.00 |
| 24.680 | 24.680 (1.076) | 85 | 368004 | | | 0.00- 30.00 | 62.95 |
| 90 Propylbenzene | | | | | CAS #: 103-65-1 | | |
| 24.758 | 24.758 (1.080) | 91 | 1522737 | 11.0816 | 11.082 | 80.00- 120.00 | 100.00 |
| 24.758 | 24.758 (1.080) | 120 | 308685 | | | 0.00- 30.00 | 20.27 |
| 92 4-Ethyltoluene | | | | | CAS #: 622-96-8 | | |
| 24.886 | 24.887 (1.085) | 105 | 1255328 | 10.6391 | 10.639 | 80.00- 120.00 | 100.00 |

| RT | EXP RT (REL RT) | MASS | RESPONSE | CONCENTRATIONS ON-COL ( PPBV) | FINAL ( PPBV) | TARGET RANGE | RATIO |
|---|---|---|---|---|---|---|---|
| 92 4-Ethyltoluene (continued) | | | | | | | |
| 24.886 | 24.887 (1.085) | 120 | 331808 | | | 0.00- 30.00 | 26.43 |
| 94 1,3,5-Trimethylbenzene | | | | | CAS #: 108-67-8 | | |
| 24.964 | 24.964 (1.089) | 105 | 1119740 | 11.0253 | 11.025 | 80.00- 120.00 | 100.00 |
| 24.964 | 24.964 (1.089) | 120 | 469386 | | | 0.00- 30.00 | 41.92 |
| 98 1,2,4-Trimethylbenzene | | | | | CAS #: 95-63-6 | | |
| 25.410 | 25.410 (1.108) | 105 | 1020770 | 11.4171 | 11.417 | 80.00- 120.00 | 100.00 |
| 25.410 | 25.410 (1.108) | 120 | 404305 | | | 0.00- 30.00 | 39.61 |
| 101 1,3-Dichlorobenzene | | | | | CAS #: 541-73-1 | | |
| 25.791 | 25.791 (1.125) | 146 | 593549 | 10.4729 | 10.473 | 80.00- 120.00 | 100.00 |
| 25.791 | 25.791 (1.125) | 148 | 375431 | | | 0.00- 30.00 | 63.25 |
| 25.791 | 25.791 (1.125) | 111 | 285906 | | | 0.00- 30.00 | 48.17 |
| 104 1,4-Dichlorobenzene | | | | | CAS #: 106-46-7 | | |
| 25.903 | 25.903 (1.130) | 146 | 582023 | 10.2636 | 10.264 | 80.00- 120.00 | 100.00 |
| 25.903 | 25.903 (1.130) | 148 | 375085 | | | 0.00- 30.00 | 64.45 |
| 25.903 | 25.903 (1.130) | 111 | 269068 | | | 0.00- 30.00 | 46.23 |
| 105 alpha-chlorotoluene | | | | | CAS #: 100-44-7 | | |
| 26.060 | 26.060 (1.137) | 91 | 949185 | 10.9891 | 10.989 | 80.00- 120.00 | 100.00 |
| 26.060 | 26.060 (1.137) | 126 | 158969 | | | 0.00- 30.00 | 16.75 |
| 108 1,2-Dichlorobenzene | | | | | CAS #: 95-50-1 | | |
| 26.352 | 26.352 (1.149) | 146 | 547826 | 10.1887 | 10.189 | 80.00- 120.00 | 100.00 |
| 26.352 | 26.352 (1.149) | 148 | 347786 | | | 34.07- 94.07 | 63.48 |
| 26.352 | 26.352 (1.149) | 111 | 278338 | | | 19.87- 79.87 | 50.81 |
| 112 1,2,4-Trichlorobenzene | | | | | CAS #: 120-82-1 | | |
| 28.145 | 28.145 (1.228) | 180 | 352999 | 10.0439 | 10.044 | 80.00- 120.00 | 100.00 |
| 28.145 | 28.145 (1.228) | 182 | 330362 | | | 0.00- 30.00 | 93.59 |
| 113 Hexachlorobutadiene | | | | | CAS #: 87-68-3 | | |
| 28.235 | 28.235 (1.232) | 225 | 295702 | 9.41698 | 9.417 | 80.00- 120.00 | 100.00 |
| 28.235 | 28.235 (1.232) | 223 | 186546 | | | 0.00- 30.00 | 63.09 |
| 114 Naphthalene | | | | | CAS #: 91-20-3 | | |
| 28.504 | 28.504 (1.243) | 128 | 52507 | 0.70165 | 0.7016 | 80.00- 120.00 | 100.00 |
| 28.504 | 28.504 (1.243) | 127 | 7519 | | | 0.00- 30.00 | 14.32 |

Report Date: 09-Mar-2012 15:12

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msde.i
Lab File ID: e030824.d
Lab Smp Id: LCS
Analysis Type: VOA
Quant Type: ISTD
Operator: cr
Method File: /chem/msde.i/08Mar2012.b/e12l0308a.m
Misc Info: 10ppbv (50ppbv) -- ICV

Calibration Date: 08-MAR-2012
Calibration Time: 22:56
Client Smp ID: LCS
Level: LOW
Sample Type: AIR

| | | AREA LIMIT | | | |
|---|---|---|---|---|---|
| COMPOUND | STANDARD | LOWER | UPPER | SAMPLE | %DIFF |
| 46 Bromochloromethan | 73839 | 44303 | 103375 | 62047 | -15.97 |
| 58 1,4-Difluorobenze | 285440 | 171264 | 399616 | 238994 | -16.27 |
| 75 Chlorobenzene-d5 | 243451 | 146071 | 340831 | 205709 | -15.50 |

| | | RT LIMIT | | | |
|---|---|---|---|---|---|
| COMPOUND | STANDARD | LOWER | UPPER | SAMPLE | %DIFF |
| 46 Bromochloromethan | 16.13 | 15.80 | 16.46 | 16.16 | 0.19 |
| 58 1,4-Difluorobenze | 17.59 | 17.26 | 17.92 | 17.59 | 0.00 |
| 75 Chlorobenzene-d5 | 22.93 | 22.60 | 23.26 | 22.93 | 0.00 |

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Report Date: 09-Mar-2012 15:12

Air Toxics Ltd.

RECOVERY REPORT

Client Name: Client SDG: 08Mar2012
Sample Matrix: GAS Fraction: VOA
Lab Smp Id: LCS Client Smp ID: LCS
Level: LOW Operator: cr
Data Type: MS DATA SampleType: LCS
SpikeList File: AT09.spk Quant Type: ISTD
Sublist File: AT09.sub
Method File: /chem/msde.i/08Mar2012.b/e12l0308a.m
Misc Info: 10ppbv (50ppbv) -- ICV

| | SPIKE COMPOUND | CONC ADDED PPBV | CONC RECOVERED PPBV | % RECOVERED | LIMITS |
|---|---|---|---|---|---|
| 4 | Dichlorodifluorome | 10.000 | 9.830 | 98.30 | 70-130 |
| 2 | Propylene | 10.000 | 7.970 | 79.70 | 60-140 |
| 6 | Freon 114 | 10.000 | 9.314 | 93.14 | 70-130 |
| 7 | Chloromethane | 10.000 | 9.514 | 95.14 | 70-130 |
| 10 | Vinyl Chloride | 10.000 | 9.726 | 97.26 | 70-130 |
| 11 | 1,3-Butadiene | 10.000 | 9.538 | 95.38 | 60-140 |
| 12 | Bromomethane | 10.000 | 9.957 | 99.57 | 70-130 |
| 13 | Chloroethane | 10.000 | 9.516 | 95.17 | 70-130 |
| 16 | Trichlorofluoromet | 10.000 | 9.716 | 97.16 | 70-130 |
| 18 | Ethanol | 10.000 | 10.992 | 109.92 | 60-140 |
| 19 | Freon 113 | 10.000 | 10.052 | 100.52 | 70-130 |
| 21 | 1,1-Dichloroethene | 10.000 | 10.883 | 108.83 | 70-130 |
| 22 | Acetone | 10.000 | 10.193 | 101.93 | 60-140 |
| 23 | Carbon Disulfide | 10.000 | 12.348 | 123.48 | 60-140 |
| 25 | 2-Propanol | 10.000 | 10.793 | 107.93 | 60-140 |
| 26 | 3-Chloroprene | 10.000 | 12.046 | 120.46 | 60-140 |
| 29 | Methylene Chloride | 10.000 | 11.473 | 114.73 | 70-130 |
| 31 | MTBE | 10.000 | 10.944 | 109.44 | 60-140 |
| 32 | trans-1,2-Dichloro | 10.000 | 11.150 | 111.51 | 60-140 |
| 35 | Hexane | 10.000 | 10.613 | 106.13 | 60-140 |
| 37 | 1,1-Dichloroethane | 10.000 | 10.228 | 102.28 | 70-130 |
| 38 | Vinyl Acetate | 10.000 | 10.313 | 103.13 | 60-140 |
| 41 | cis-1,2-Dichloroet | 10.000 | 10.751 | 107.51 | 70-130 |
| 42 | 2-Butanone | 10.000 | 10.931 | 109.31 | 60-140 |
| 44 | Tetrahydrofuran | 10.000 | 9.849 | 98.49 | 60-140 |
| 47 | Chloroform | 10.000 | 10.332 | 103.32 | 70-130 |
| 48 | Cyclohexane | 10.000 | 10.568 | 105.68 | 60-140 |
| 49 | 1,1,1-Trichloroeth | 10.000 | 10.289 | 102.89 | 70-130 |
| 51 | Carbon Tetrachlori | 10.000 | 8.599 | 85.99 | 70-130 |
| 52 | 2,2,4-Trimethylpen | 10.000 | 9.697 | 96.97 | 60-140 |
| 53 | Benzene | 10.000 | 10.029 | 100.29 | 70-130 |
| 57 | Heptane | 10.000 | 11.085 | 110.85 | 60-140 |
| 56 | 1,2-Dichloroethane | 10.000 | 10.008 | 100.08 | 70-130 |

| SPIKE COMPOUND | CONC ADDED PPBV | CONC RECOVERED PPBV | % RECOVERED | LIMITS |
|---|---|---|---|---|
| 59 Trichloroethene | 10.000 | 9.130 | 91.30 | 70-130 |
| 61 1,2-Dichloropropan | 10.000 | 9.945 | 99.45 | 70-130 |
| 62 1,4-Dioxane | 10.000 | 10.775 | 107.75 | 60-140 |
| 63 Bromodichlorometha | 10.000 | 10.487 | 104.87 | 60-140 |
| 64 cis-1,3-Dichloropr | 10.000 | 9.443 | 94.43 | 70-130 |
| 65 4-Methyl-2-pentano | 10.000 | 11.419 | 114.19 | 60-140 |
| 68 Toluene | 10.000 | 9.889 | 98.89 | 70-130 |
| 69 trans-1,3-Dichloro | 10.000 | 11.565 | 115.65 | 70-130 |
| 70 1,1,2-Trichloroeth | 10.000 | 10.090 | 100.90 | 70-130 |
| 72 2-Hexanone | 10.000 | 11.078 | 110.78 | 60-140 |
| 71 Tetrachloroethene | 10.000 | 9.655 | 96.55 | 70-130 |
| 73 Dibromochlorometha | 10.000 | 10.677 | 106.77 | 60-140 |
| 74 1,2-Dibromoethane | 10.000 | 10.432 | 104.32 | 70-130 |
| 76 Chlorobenzene | 10.000 | 9.826 | 98.27 | 70-130 |
| 77 Ethyl Benzene | 10.000 | 10.603 | 106.03 | 70-130 |
| 80 m,p-Xylene | 10.000 | 11.192 | 111.92 | 70-130 |
| 81 o-Xylene | 10.000 | 11.329 | 113.29 | 70-130 |
| 83 Styrene | 10.000 | 11.584 | 115.84 | 70-130 |
| 84 Bromoform | 10.000 | 10.878 | 108.78 | 60-140 |
| 85 Cumene | 10.000 | 11.488 | 114.88 | 60-140 |
| 89 1,1,2,2-Tetrachlor | 10.000 | 10.545 | 105.45 | 70-130 |
| 90 Propylbenzene | 10.000 | 11.082 | 110.82 | 70-130 |
| 92 4-Ethyltoluene | 10.000 | 10.639 | 106.39 | 60-140 |
| 94 1,3,5-Trimethylben | 10.000 | 11.025 | 110.25 | 70-130 |
| 98 1,2,4-Trimethylben | 10.000 | 11.417 | 114.17 | 70-130 |
| 101 1,3-Dichlorobenzen | 10.000 | 10.473 | 104.73 | 70-130 |
| 104 1,4-Dichlorobenzen | 10.000 | 10.264 | 102.64 | 70-130 |
| 105 alpha-chlorotoluen | 10.000 | 10.989 | 109.89 | 70-130 |
| 108 1,2-Dichlorobenzen | 10.000 | 10.189 | 101.89 | 70-130 |
| 112 1,2,4-Trichloroben | 10.000 | 10.044 | 100.44 | 70-130 |
| 113 Hexachlorobutadien | 10.000 | 9.417 | 94.17 | 70-130 |
| 114 Naphthalene | 1.000 | 0.7016 | 70.17 | 60-140 |
| 14 Isopentane | 10.000 | 9.454 | 94.54 | 60-140 |
| 9 Butane | 10.000 | 9.858 | 98.58 | 60-140 |
| 60 Methylcyclohexane | 10.000 | 10.585 | 105.85 | 60-140 |

| SURROGATE COMPOUND | CONC ADDED PPBV | CONC RECOVERED PPBV | % RECOVERED | LIMITS |
|---|---|---|---|---|
| $ 54 1,2-Dichloroethane | 5.000 | 5.165 | 103.30 | 70-130 |
| $ 67 Toluene-d8 | 5.000 | 5.141 | 102.82 | 70-130 |
| $ 87 Bromofluorobenzene | 5.000 | 5.348 | 106.95 | 70-130 |

Data File: /chem/msde.i/08Mar2012.b/e030824.d

Date : 09-MAR-2012 13:34

Client ID: LCS

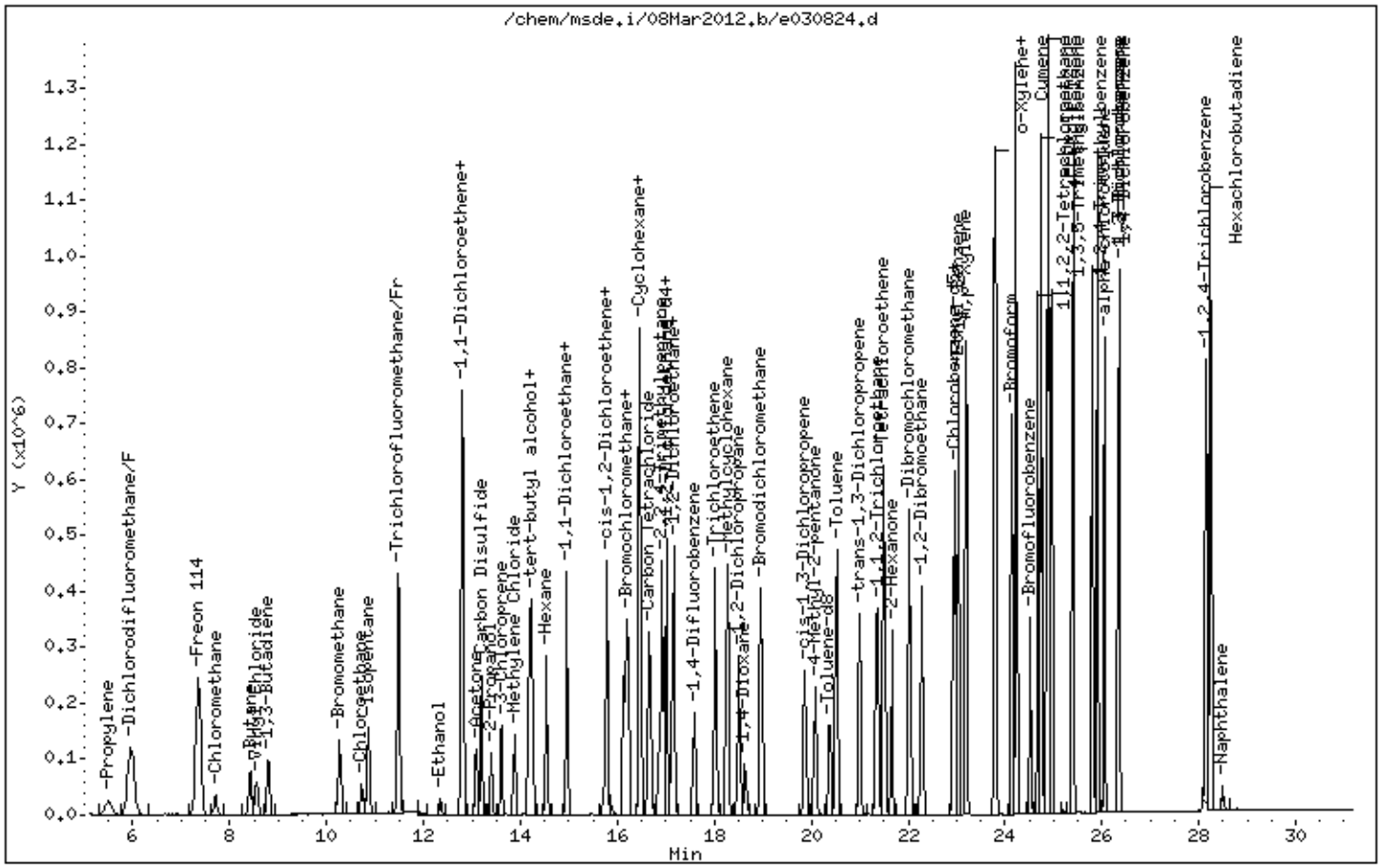
Instrument: msde.i

Sample Info: 50mL #2730-221

Operator: cr

Column phase: RTx-624

Column diameter: 0.32



Air Toxics Ltd.

EPA TO-15/Modified TO14A

Data file : /chem/msde.i/10Mar2012.b/e031008.d
Lab Smp Id: LCS Client Smp ID: LCS
Inj Date : 10-MAR-2012 14:53
Operator : cr Inst ID: msde.i
Smp Info : 50mL #2403-73
Misc Info : 1.0ppbv (5.0ppbv) -- AT5 ICV
Comment : Low-Level/GC-MS
Method : /chem/msde.i/10Mar2012.b/e12l0308b.m
Meth Date : 10-Mar-2012 14:39 croush Quant Type: ISTD
Cal Date : 10-MAR-2012 13:23 Cal File: e031006.d
Als bottle: 4 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AT5CCV.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

| Name | Value | Description |
|---|---|---|
| DF | 1.00000 | Dilution Factor |

| | | | | CONCENTRATIONS ON-COL ( PPBV) | FINAL ( PPBV) | TARGET RANGE | RATIO |
|---|---|---|---|---|---|---|---|
| RT | EXP RT (REL RT) | MASS | RESPONSE | | | | |
| * 46 Bromochloromethane | | | | | CAS #: 74-97-5 | | |
| 16.127 | 16.128 (1.000) | 130 | 51098 | 5.00000 | | 70.00- 130.00 | 100.00 |
| 16.127 | 16.128 (1.000) | 128 | 38913 | | | 0.00- 30.00 | 76.15 |
| 16.127 | 16.128 (1.000) | 49 | 46599 | | | 0.00- 30.00 | 91.19 |
| * 58 1,4-Difluorobenzene | | | | | CAS #: 540-36-3 | | |
| 17.586 | 17.586 (1.000) | 114 | 180961 | 5.00000 | | 70.00- 130.00 | 100.00 |
| 17.586 | 17.586 (1.000) | 88 | 32434 | | | 0.00- 30.00 | 17.92 |
| * 75 Chlorobenzene-d5 | | | | | CAS #: 3114-55-4 | | |
| 22.927 | 22.927 (1.000) | 117 | 157855 | 5.00000 | | 70.00- 130.00 | 100.00 |
| 22.927 | 22.927 (1.000) | 82 | 107022 | | | 0.00- 30.00 | 67.80 |
| $ 54 1,2-Dichloroethane-d4 | | | | | CAS #: 17060-07-0 | | |
| 17.013 | 17.013 (1.055) | 65 | 96297 | 5.05709 | 5.057 | 80.00- 120.00 | 100.00 |
| 17.013 | 17.013 (1.055) | 67 | 47059 | | | 0.00- 30.00 | 48.87 |

| RT | EXP RT (REL RT) | MASS | RESPONSE | CONCENTRATIONS ON-COL ( PPBV) | CONCENTRATIONS FINAL ( PPBV) | TARGET RANGE | RATIO |
|---|---|---|---|---|---|---|---|
| $ 67 Toluene-d8 | | | | | CAS #: 2037-26-5 | | |
| 20.368 | 20.368 (1.158) | 98 | 180778 | 4.95965 | 4.960 | 80.00- 120.00 | 100.00 |
| 20.368 | 20.368 (1.158) | 70 | 21682 | | | 0.00- 30.00 | 11.99 |
| 20.368 | 20.368 (1.158) | 100 | 112045 | | | 32.81- 92.81 | 61.98 |
| $ 87 Bromofluorobenzene | | | | | CAS #: 460-00-4 | | |
| 24.525 | 24.525 (1.070) | 174 | 88891 | 4.92255 | 4.922 | 80.00- 120.00 | 100.00 |
| 24.525 | 24.525 (1.070) | 95 | 142845 | | | 130.22- 190.22 | 160.70 |
| 24.525 | 24.525 (1.070) | 176 | 86006 | | | 65.16- 125.16 | 96.75 |
| 15 Vinyl Bromide | | | | | CAS #: 593-60-2 | | |
| 11.308 | 11.308 (0.701) | 106 | 14484 | 0.92826 | 0.9283 | 70.00- 130.00 | 100.00 |
| 11.308 | 11.308 (0.701) | 108 | 13664 | | | 0.00- 30.00 | 94.34 |
| 187 2,3-Dichloropropene | | | | | CAS #: 78-88-6 | | |
| 18.519 | 18.519 (1.148) | 75 | 21503 | 0.75712 | 0.7571 | 70.00- 130.00 | 100.00 |
| 18.519 | 18.519 (1.148) | 77 | 6919 | | | 0.00- 30.00 | 32.18 |
| 18.519 | 18.519 (1.148) | 39 | 8671 | | | 0.00- 30.00 | 40.33 |
| 186 1,1-Dichloropropene | | | | | CAS #: 563-58-6 | | |
| 16.682 | 16.682 (1.034) | 110 | 6714 | 0.94444 | 0.9444 | 70.00- 130.00 | 100.00 |
| 16.682 | 16.682 (1.034) | 75 | 23587 | | | 0.00- 30.00 | 351.28 |
| 79 1,1,1,2-Tetrachloroethane | | | | | CAS #: 630-20-6 | | |
| 23.071 | 23.071 (1.006) | 131 | 29378 | 1.21484 | 1.215 | 70.00- 130.00 | 100.00 |
| 23.071 | 23.071 (1.006) | 117 | 16446 | | | 0.00- 30.00 | 55.98 |
| 23.071 | 23.071 (1.006) | 95 | 14733 | | | 0.00- 30.00 | 50.15 |
| 91 1,2,3-Trichloropropane | | | | | CAS #: 96-18-4 | | |
| 24.783 | 24.783 (1.081) | 110 | 18138 | 1.17014 | 1.170 | 70.00- 130.00 | 100.00 |
| 24.783 | 24.783 (1.081) | 75 | 49702 | | | 0.00- 30.00 | 274.02 |
| 24.783 | 24.783 (1.081) | 61 | 10178 | | | 0.00- 30.00 | 56.12 |
| 93 2-Chlorotoluene | | | | | CAS #: 95-49-8 | | |
| 24.938 | 24.938 (1.088) | 126 | 19477 | 1.14983 | 1.150 | 70.00- 130.00 | 100.00 |
| 24.938 | 24.938 (1.088) | 91 | 70561 | | | 0.00- 30.00 | 362.28 |
| 24.912 | 24.938 (1.087) | 65 | 5891 | | | 0.00- 30.00 | 30.25 |
| 96 4-Chlorotoluene | | | | | CAS #: 106-43-4 | | |
| 25.067 | 25.067 (1.093) | 126 | 25700 | 1.02645 | 1.026 | 70.00- 130.00 | 100.00 |
| 25.067 | 25.067 (1.093) | 91 | 99597 | | | 0.00- 30.00 | 387.53 |
| 25.343 | 25.067 (1.105) | 57 | 1094 | | | 0.00- 30.00 | 4.26 |
| 97 tert-Butylbenzene | | | | | CAS #: 98-06-6 | | |
| 25.343 | 25.343 (1.105) | 119 | 63298 | 1.11435 | 1.114 | 70.00- 130.00 | 100.00 |
| 25.343 | 25.343 (1.105) | 134 | 13472 | | | 0.00- 30.00 | 21.28 |

| RT | EXP RT (REL RT) | MASS | RESPONSE | CONCENTRATIONS ON-COL ( PPBV) | FINAL ( PPBV) | TARGET RANGE | RATIO |
|---|---|---|---|---|---|---|---|
| 97 tert-Butylbenzene (continued) | | | | | | | |
| 25.343 | 25.343 (1.105) | 91 | 48707 | | | 0.00- 30.00 | 76.95 |
| 99 sec-Butylbenzene | | | | | CAS #: 135-98-8 | | |
| 25.589 | 25.590 (1.116) | 105 | 95281 | 1.05507 | 1.055 | 70.00- 130.00 | 100.00 |
| 25.589 | 25.590 (1.116) | 134 | 16462 | | | 0.00- 30.00 | 17.28 |
| 25.589 | 25.590 (1.116) | 91 | 18616 | | | 0.00- 30.00 | 19.54 |
| 100 p-Cymene | | | | | CAS #: 99-87-6 | | |
| 25.724 | 25.724 (1.122) | 119 | 81829 | 1.20274 | 1.203 | 70.00- 130.00 | 100.00 |
| 25.724 | 25.724 (1.122) | 134 | 20406 | | | 0.00- 30.00 | 24.94 |
| 25.724 | 25.724 (1.122) | 91 | 25417 | | | 0.00- 30.00 | 31.06 |
| 103 1,2,3-trimethylbenzene | | | | | CAS #: 526-73-8 | | |
| 25.903 | 25.903 (1.130) | 120 | 22909 | 0.86899 | 0.8690 | 70.00- 130.00 | 100.00 |
| 25.903 | 25.903 (1.130) | 105 | 61965 | | | 0.00- 30.00 | 270.48 |
| 25.903 | 25.903 (1.130) | 77 | 8433 | | | 0.00- 30.00 | 36.81 |
| 107 Butylbenzene | | | | | CAS #: 104-51-8 | | |
| 26.195 | 26.195 (1.143) | 134 | 15926 | 1.05127 | 1.051 | 70.00- 130.00 | 100.00 |
| 26.195 | 26.195 (1.143) | 91 | 75763 | | | 445.46- 505.46 | 475.72 |
| 26.195 | 26.195 (1.143) | 92 | 39229 | | | 0.00- 30.00 | 246.32 |
| 110 1,2-dibromo-3-chloropropane | | | | | CAS #: 96-12-8 | | |
| 27.248 | 27.248 (1.188) | 157 | 17955 | 1.11112 | 1.111 | 70.00- 130.00 | 100.00 |
| 27.226 | 27.248 (1.188) | 75 | 22777 | | | 0.00- 30.00 | 126.85 |
| 27.248 | 27.248 (1.188) | 155 | 13541 | | | 0.00- 30.00 | 75.42 |
| 86 1,3-Dichloropropane | | | | | CAS #: 142-28-9 | | |
| 21.692 | 21.693 (1.234) | 76 | 31400 | 1.15944 | 1.159 | 70.00- 130.00 | 100.00 |
| 21.660 | 21.693 (1.232) | 41 | 14264 | | | 30.10- 90.10 | 45.43 |
| 21.692 | 21.693 (1.234) | 78 | 10228 | | | 0.00- 30.00 | 32.57 |
| 185 Bromobenzene | | | | | CAS #: 108-86-1 | | |
| 24.732 | 24.732 (1.079) | 156 | 27053 | 1.06752 | 1.068 | 70.00- 130.00 | 100.00 |
| 24.732 | 24.732 (1.079) | 158 | 27322 | | | 0.00- 30.00 | 101.00 |
| 24.732 | 24.732 (1.079) | 77 | 66989 | | | 0.00- 30.00 | 247.62 |

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msde.i
Lab File ID: e031008.d
Lab Smp Id: LCS
Analysis Type: VOA
Quant Type: ISTD
Operator: cr
Method File: /chem/msde.i/10Mar2012.b/e12l0308b.m
Misc Info: 1.0ppbv (5.0ppbv) -- AT5 ICV

Calibration Date: 10-MAR-2012
Calibration Time: 11:52
Client Smp ID: LCS
Level: LOW
Sample Type: AIR

| | | AREA LIMIT | | | |
|---|---|---|---|---|---|
| COMPOUND | STANDARD | LOWER | UPPER | SAMPLE | %DIFF |
| 46 Bromochloromethan | 53284 | 31970 | 74598 | 51098 | -4.10 |
| 58 1,4-Difluorobenze | 199260 | 119556 | 278964 | 180961 | -9.18 |
| 75 Chlorobenzene-d5 | 174009 | 104405 | 243613 | 157855 | -9.28 |

| | | RT LIMIT | | | |
|---|---|---|---|---|---|
| COMPOUND | STANDARD | LOWER | UPPER | SAMPLE | %DIFF |
| 46 Bromochloromethan | 16.13 | 15.80 | 16.46 | 16.13 | 0.00 |
| 58 1,4-Difluorobenze | 17.59 | 17.26 | 17.92 | 17.59 | 0.00 |
| 75 Chlorobenzene-d5 | 22.93 | 22.60 | 23.26 | 22.93 | 0.00 |

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Report Date: 10-Mar-2012 15:25

Air Toxics Ltd.

RECOVERY REPORT

Client Name: Client SDG: 10Mar2012
Sample Matrix: GAS Fraction: VOA
Lab Smp Id: LCS Client Smp ID: LCS
Level: LOW Operator: cr
Data Type: MS DATA SampleType: LCS
SpikeList File: AT5LCS.spk Quant Type: ISTD
Sublist File: AT5CCV.sub
Method File: /chem/msde.i/10Mar2012.b/e12l0308b.m
Misc Info: 1.0ppbv (5.0ppbv) -- AT5 ICV

| | SPIKE COMPOUND | CONC ADDED PPBV | CONC RECOVERED PPBV | % RECOVERED | LIMITS |
|---|---|---|---|---|---|
| | 15 Vinyl Bromide | 1.000 | 0.9283 | 92.83 | 60-140 |
| | 79 1,1,1,2-Tetrachlor | 1.000 | 1.215 | 121.48 | 60-140 |
| | 86 1,3-Dichloropropan | 1.000 | 1.159 | 115.94 | 60-140 |
| | 91 1,2,3-Trichloropro | 1.000 | 1.170 | 117.01 | 60-140 |
| | 93 2-Chlorotoluene | 1.000 | 1.150 | 114.98 | 60-140 |
| | 96 4-Chlorotoluene | 1.000 | 1.026 | 102.65 | 60-140 |
| | 97 tert-Butylbenzene | 1.000 | 1.114 | 111.44 | 60-140 |
| | 99 sec-Butylbenzene | 1.000 | 1.055 | 105.51 | 60-140 |
| | 100 p-Cymene | 1.000 | 1.203 | 120.27 | 60-140 |
| | 103 1,2,3-trimethylben | 1.000 | 0.8690 | 86.90 | 60-140 |
| | 107 Butylbenzene | 1.000 | 1.051 | 105.13 | 60-140 |
| | 110 1,2-dibromo-3-chlo | 1.000 | 1.111 | 111.11 | 60-140 |
| | 187 2,3-Dichloropropen | 1.000 | 0.7571 | 75.71 | 60-140 |
| | 186 1,1-Dichloropropen | 1.000 | 0.9444 | 94.44 | 60-140 |
| | 185 Bromobenzene | 1.000 | 1.068 | 106.75 | 60-140 |

| | SURROGATE COMPOUND | CONC ADDED PPBV | CONC RECOVERED PPBV | % RECOVERED | LIMITS |
|---|---|---|---|---|---|
| $ | 54 1,2-Dichloroethane | 5.000 | 5.057 | 101.14 | 70-130 |
| $ | 67 Toluene-d8 | 5.000 | 4.960 | 99.19 | 70-130 |
| $ | 87 Bromofluorobenzene | 5.000 | 4.922 | 98.45 | 70-130 |

Data File: /chem/msde.i/10Mar2012.b/e031008.d

Date : 10-MAR-2012 14:53

Client ID: LCS

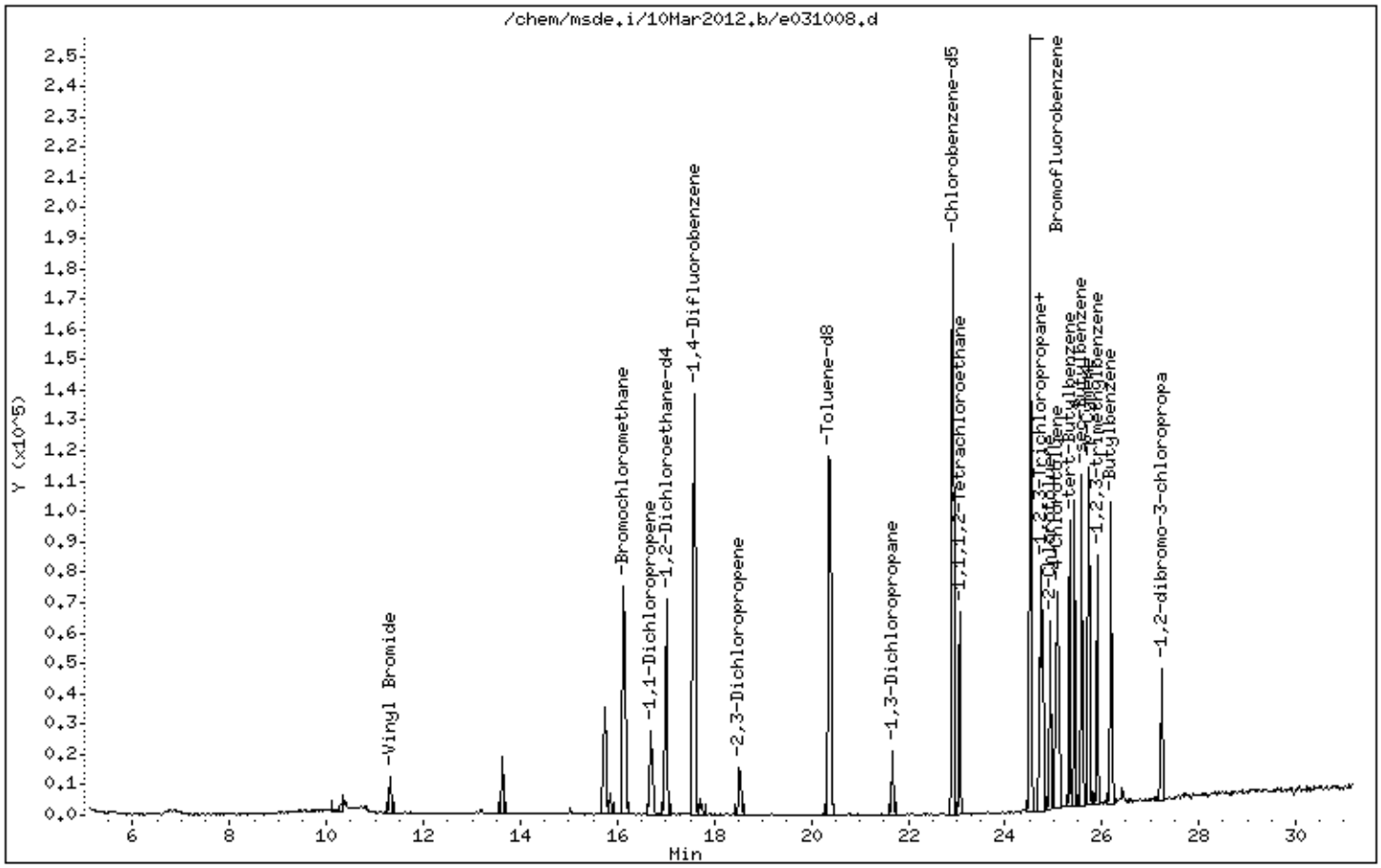
Instrument: msde.i

Sample Info: 50mL #2403-73

Operator: cr

Column phase: RTx-624

Column diameter: 0.32



Air Toxics Ltd.

EPA TO-15/Modified TO14A

Data file : /chem/msde.i/08Mar2012.b/e030823.d
Lab Smp Id: ICAL Client Smp ID: Level 4
Inj Date : 09-MAR-2012 12:55
Operator : cr Inst ID: msde.i
Smp Info : 250mL #2403-59
Misc Info : 0.05ppbv (0.05ppbv)
Comment : Low-Level/GC-MS
Method : /chem/msde.i/08Mar2012.b/e12l0308a.m
Meth Date : 09-Mar-2012 15:12 croush Quant Type: ISTD
Cal Date : 09-MAR-2012 12:55 Cal File: e030823.d
Als bottle: 8 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: Level05.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

| Name | Value | Description |
|---|---|---|
| DF | 1.00000 | Dilution Factor |

| | | | | AMOUNTS | | | |
|---|---|---|---|---|---|---|---|
| | | | | CAL-AMT | ON-COL | | |
| RT | EXP RT (REL RT) | MASS | RESPONSE | ( PPBV) | ( PPBV) | TARGET RANGE | RATIO |
| == | ====== ======== | ==== | ======== | ======= | ======= | ========== | ===== |
| * 46 Bromochloromethane | | | | | CAS #: 74-97-5 | | |
| 16.158 | 16.158 (1.000) | 130 | 58233 | 5.00000 | | 70.00- 130.00 | 100.00 |
| 16.158 | 16.158 (1.000) | 128 | 45471 | | | 0.00- 30.00 | 78.08 |
| 16.127 | 16.127 (1.000) | 49 | 55121 | | | 0.00- 30.00 | 94.66 |
| * 58 1,4-Difluorobenzene | | | | | CAS #: 540-36-3 | | |
| 17.585 | 17.585 (1.000) | 114 | 212955 | 5.00000 | | 70.00- 130.00 | 100.00 |
| 17.585 | 17.585 (1.000) | 88 | 38193 | | | 0.00- 30.00 | 17.93 |
| * 75 Chlorobenzene-d5 | | | | | CAS #: 3114-55-4 | | |
| 22.927 | 22.927 (1.000) | 117 | 179281 | 5.00000 | | 70.00- 130.00 | 100.00 |
| 22.927 | 22.927 (1.000) | 82 | 120170 | | | 0.00- 30.00 | 67.03 |
| $ 54 1,2-Dichloroethane-d4 | | | | | CAS #: 17060-07-0 | | |
| 17.013 | 17.013 (1.053) | 65 | 109818 | 5.00000 | 5.060 | 70.00- 130.00 | 100.00 |
| 17.013 | 17.013 (1.053) | 67 | 51819 | | | 0.00- 30.00 | 47.19 |

| RT | EXP RT (REL RT) | MASS | RESPONSE | AMOUNTS CAL-AMT ( PPBV) | AMOUNTS ON-COL ( PPBV) | TARGET RANGE | RATIO |
|---|---|---|---|---|---|---|---|
| $ 67 Toluene-d8 | | | | | CAS #: 2037-26-5 | | |
| 20.390 | 20.390 (1.159) | 98 | 205182 | 5.00000 | 4.783 | 70.00- 130.00 | 100.00 |
| 20.368 | 20.368 (1.158) | 70 | 25826 | | | 0.00- 30.00 | 12.59 |
| 20.390 | 20.390 (1.159) | 100 | 129478 | | | 33.91- 93.91 | 63.10 |
| $ 87 Bromofluorobenzene | | | | | CAS #: 460-00-4 | | |
| 24.525 | 24.525 (1.070) | 174 | 102556 | 5.00000 | 5.000 | 70.00- 130.00 | 100.00 |
| 24.525 | 24.525 (1.070) | 95 | 165847 | | | 125.57- 185.57 | 161.71 |
| 24.525 | 24.525 (1.070) | 176 | 99112 | | | 64.73- 124.73 | 96.64 |
| 4 Dichlorodifluoromethane/Fr12 | | | | | CAS #: 75-71-8 | | |
| 5.955 | 5.955 (0.369) | 85 | 3446 | 0.05000 | 0.05064 | 70.00- 130.00 | 100.00 |
| 7.353 | 7.353 (0.455) | 87 | 533 | | | 2.22- 62.22 | 15.47 |
| 16 Trichlorofluoromethane/Fr11 | | | | | CAS #: 75-69-4 | | |
| 11.474 | 11.474 (0.710) | 101 | 4095 | 0.05000 | 0.05706 | 70.00- 130.00 | 100.00 |
| 11.474 | 11.474 (0.710) | 103 | 3102 | | | 36.02- 96.02 | 75.75 |
| 19 Freon 113 | | | | | CAS #: 76-13-1 | | |
| 12.780 | 12.780 (0.791) | 151 | 1493 | 0.05000 | 0.04920 | 70.00- 130.00 | 100.00(a) |
| 12.780 | 12.780 (0.791) | 153 | 809 | | | 34.27- 94.27 | 54.19 |
| 12.780 | 12.780 (0.791) | 101 | 2308 | | | 0.00- 30.00 | 154.59 |
| 49 1,1,1-Trichloroethane | | | | | CAS #: 71-55-6 | | |
| 16.466 | 16.466 (1.019) | 97 | 2912 | 0.05000 | 0.05328 | 70.00- 130.00 | 100.00 |
| 16.466 | 16.466 (1.019) | 99 | 2006 | | | 0.00- 30.00 | 68.89 |
| 51 Carbon Tetrachloride | | | | | CAS #: 56-23-5 | | |
| 16.651 | 16.651 (1.031) | 119 | 2214 | 0.05000 | 0.05414 | 70.00- 130.00 | 100.00 |
| 16.651 | 16.651 (1.031) | 117 | 2687 | | | 0.00- 30.00 | 121.36 |
| 59 Trichloroethene | | | | | CAS #: 79-01-6 | | |
| 18.025 | 18.025 (1.025) | 130 | 1635 | 0.05000 | 0.06777 | 70.00- 130.00 | 100.00 |
| 18.025 | 18.025 (1.025) | 95 | 1248 | | | 0.00- 30.00 | 76.33 |
| 18.025 | 18.025 (1.025) | 97 | 891 | | | 0.00- 30.00 | 54.50 |
| 63 Bromodichloromethane | | | | | CAS #: 75-27-4 | | |
| 18.958 | 18.958 (1.078) | 83 | 2578 | 0.05000 | 0.05495 | 70.00- 130.00 | 100.00 |
| 18.958 | 18.958 (1.078) | 85 | 1367 | | | 0.00- 30.00 | 53.03 |
| 70 1,1,2-Trichloroethane | | | | | CAS #: 79-00-5 | | |
| 21.367 | 21.367 (0.932) | 97 | 1346 | 0.05000 | 0.05811 | 70.00- 130.00 | 100.00(T) |
| 0.000 | 1.000 (0.000) | 99 | 0 | | | 0.00- 30.00 | 0.00 |
| 21.335 | 21.335 (0.931) | 83 | 938 | | | 52.76- 112.76 | 69.69 |
| 71 Tetrachloroethene | | | | | CAS #: 127-18-4 | | |
| 21.497 | 21.497 (0.938) | 166 | 1551 | 0.05000 | 0.05769 | 70.00- 130.00 | 100.00 |

| RT | EXP RT (REL RT) | MASS | RESPONSE | AMOUNTS CAL-AMT ( PPBV) | AMOUNTS ON-COL ( PPBV) | TARGET RANGE | RATIO |
|---|---|---|---|---|---|---|---|
| 71 Tetrachloroethene (continued) | | | | | | | |
| 21.497 | 21.497 (0.938) | 129 | 1164 | | | 0.00- 30.00 | 75.05 |
| 21.497 | 21.497 (0.938) | 131 | 1090 | | | 0.00- 30.00 | 70.28 |
| 73 Dibromochloromethane | | | | | CAS #: 124-48-1 | | |
| 22.018 | 22.018 (0.960) | 129 | 1711 | 0.05000 | 0.04342 | 70.00- 130.00 | 100.00(a) |
| 22.018 | 22.018 (0.960) | 127 | 1437 | | | 0.00- 30.00 | 83.99 |
| 74 1,2-Dibromoethane | | | | | CAS #: 106-93-4 | | |
| 22.278 | 22.278 (0.972) | 107 | 1757 | 0.05000 | 0.04945 | 70.00- 130.00 | 100.00(a) |
| 22.278 | 22.278 (0.972) | 109 | 1632 | | | 0.00- 30.00 | 92.89 |
| 84 Bromoform | | | | | CAS #: 75-25-2 | | |
| 24.131 | 24.131 (1.053) | 173 | 1548 | 0.05000 | 0.04543 | 70.00- 130.00 | 100.00(a) |
| 24.131 | 24.131 (1.053) | 171 | 771 | | | 0.00- 30.00 | 49.81 |
| 89 1,1,2,2-Tetrachloroethane | | | | | CAS #: 79-34-5 | | |
| 24.680 | 24.680 (1.076) | 83 | 2571 | 0.05000 | 0.05321 | 70.00- 130.00 | 100.00 |
| 24.680 | 24.680 (1.076) | 85 | 1010 | | | 0.00- 30.00 | 39.28 |
| 101 1,3-Dichlorobenzene | | | | | CAS #: 541-73-1 | | |
| 25.814 | 25.814 (1.126) | 146 | 2169 | 0.05000 | 0.04391 | 70.00- 130.00 | 100.00(a) |
| 25.791 | 25.791 (1.125) | 148 | 1495 | | | 0.00- 30.00 | 68.93 |
| 25.814 | 25.814 (1.126) | 111 | 1597 | | | 0.00- 30.00 | 73.63 |
| 104 1,4-Dichlorobenzene | | | | | CAS #: 106-46-7 | | |
| 25.903 | 25.903 (1.130) | 146 | 2579 | 0.05000 | 0.05218 | 70.00- 130.00 | 100.00 |
| 25.903 | 25.903 (1.130) | 148 | 1530 | | | 0.00- 30.00 | 59.33 |
| 25.903 | 25.903 (1.130) | 111 | 1131 | | | 0.00- 30.00 | 43.85 |
| 112 1,2,4-Trichlorobenzene | | | | | CAS #: 120-82-1 | | |
| 28.167 | 28.167 (1.229) | 180 | 1260 | 0.05000 | 0.04114 | 70.00- 130.00 | 100.00 |
| 28.167 | 28.167 (1.229) | 182 | 1097 | | | 0.00- 30.00 | 87.06 |
| 108 1,2-Dichlorobenzene | | | | | CAS #: 95-50-1 | | |
| 26.352 | 26.352 (1.149) | 146 | 2511 | 0.05000 | 0.05358 | 70.00- 130.00 | 100.00 |
| 26.352 | 26.352 (1.149) | 148 | 1483 | | | 34.07- 94.07 | 59.06 |
| 26.352 | 26.352 (1.149) | 111 | 996 | | | 19.87- 79.87 | 39.67 |

QC Flag Legend

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

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msde.i
Lab File ID: e030823.d
Lab Smp Id: ICAL
Analysis Type: VOA
Quant Type: ISTD
Operator: cr
Method File: /chem/msde.i/08Mar2012.b/e12l0308a.m
Misc Info: 0.05ppbv (0.05ppbv)

Calibration Date: 08-MAR-2012
Calibration Time: 22:56
Client Smp ID: Level 4
Level: LOW
Sample Type: AIR

| | | AREA LIMIT | | | |
|---|---|---|---|---|---|
| COMPOUND | STANDARD | LOWER | UPPER | SAMPLE | %DIFF |
| 46 Bromochloromethan | 73839 | 44303 | 103375 | 58233 | -21.14 |
| 58 1,4-Difluorobenze | 285440 | 171264 | 399616 | 212955 | -25.39 |
| 75 Chlorobenzene-d5 | 243451 | 146071 | 340831 | 179281 | -26.36 |

| | | RT LIMIT | | | |
|---|---|---|---|---|---|
| COMPOUND | STANDARD | LOWER | UPPER | SAMPLE | %DIFF |
| 46 Bromochloromethan | 16.13 | 15.80 | 16.46 | 16.16 | 0.19 |
| 58 1,4-Difluorobenze | 17.59 | 17.26 | 17.92 | 17.59 | 0.00 |
| 75 Chlorobenzene-d5 | 22.93 | 22.60 | 23.26 | 22.93 | 0.00 |

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Data File: /chem/msde.i/08Mar2012.b/e030823.d

Date : 09-MAR-2012 12:55

Client ID: Level 4

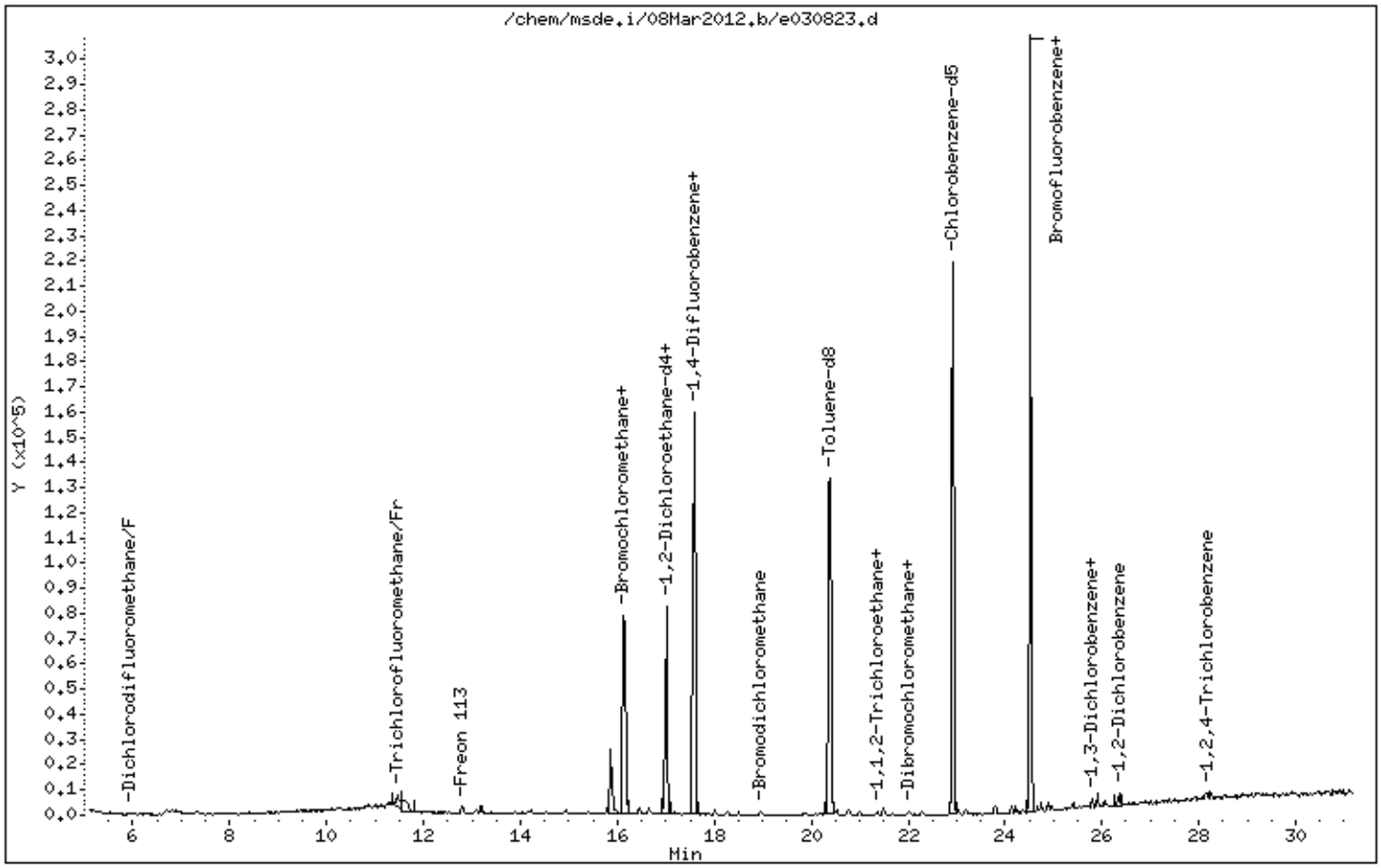
Instrument: msde.i

Sample Info: 250mL #2403-59

Operator: cr

Column phase: RTx-624

Column diameter: 0.32



Air Toxics Ltd.

EPA TO-15/Modified TO14A

Data file : /chem/msde.i/10Mar2012.b/e031002.d
Lab Smp Id: ICAL Client Smp ID: Level 5
Inj Date : 10-MAR-2012 10:33
Operator : cr Inst ID: msde.i
Smp Info : 250mL #2403-8
Misc Info : 0.10ppbv (0.10ppbv) -- AT5
Comment : Low-Level/GC-MS
Method : /chem/msde.i/10Mar2012.b/e12l0308b.m
Meth Date : 10-Mar-2012 13:50 croush Quant Type: ISTD
Cal Date : 10-MAR-2012 10:33 Cal File: e031002.d
Als bottle: 8 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AT5ICAL.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

| Name | Value | Description |
|---|---|---|
| DF | 1.00000 | Dilution Factor |

| | | | | AMOUNTS | | | |
|---|---|---|---|---|---|---|---|
| | | | | CAL-AMT | ON-COL | | |
| RT | EXP RT (REL RT) | MASS | RESPONSE | ( PPBV) | ( PPBV) | TARGET RANGE | RATIO |
| == | ====== ======== | ==== | ======== | ======= | ======= | ========== | ===== |
| * 46 Bromochloromethane | | | | | CAS #: 74-97-5 | | |
| 16.158 | 16.158 (1.000) | 130 | 60079 | 5.00000 | | 70.00- 130.00 | 100.00 |
| 16.128 | 16.128 (1.000) | 128 | 45744 | | | 0.00- 30.00 | 76.14 |
| 16.128 | 16.128 (1.000) | 49 | 56573 | | | 0.00- 30.00 | 94.16 |
| * 58 1,4-Difluorobenzene | | | | | CAS #: 540-36-3 | | |
| 17.586 | 17.586 (1.000) | 114 | 215796 | 5.00000 | | 70.00- 130.00 | 100.00 |
| 17.586 | 17.586 (1.000) | 88 | 36629 | | | 0.00- 30.00 | 16.97 |
| * 75 Chlorobenzene-d5 | | | | | CAS #: 3114-55-4 | | |
| 22.927 | 22.927 (1.000) | 117 | 181514 | 5.00000 | | 70.00- 130.00 | 100.00 |
| 22.927 | 22.927 (1.000) | 82 | 122620 | | | 0.00- 30.00 | 67.55 |
| 15 Vinyl Bromide | | | | | CAS #: 593-60-2 | | |
| 11.308 | 11.308 (0.700) | 106 | 1999 | 0.10000 | 0.1090 | 70.00- 130.00 | 100.00 |
| 11.308 | 11.308 (0.700) | 108 | 1553 | | | 0.00- 30.00 | 77.69 |

| RT | EXP RT (REL RT) | MASS | RESPONSE | AMOUNTS CAL-AMT ( PPBV) | ON-COL ( PPBV) | TARGET RANGE | RATIO |
|---|---|---|---|---|---|---|---|
| 187 2,3-Dichloropropene | | | | | CAS #: 78-88-6 | | |
| 18.547 | 18.547 (1.148) | 75 | 2614 | 0.10000 | 0.07828 | 70.00- 130.00 | 100.00 |
| 18.519 | 18.519 (1.146) | 77 | 726 | | | 0.00- 30.00 | 27.77 |
| 18.519 | 18.519 (1.146) | 39 | 1138 | | | 0.00- 30.00 | 43.53 |
| 186 1,1-Dichloropropene | | | | | CAS #: 563-58-6 | | |
| 16.682 | 16.682 (1.032) | 110 | 723 | 0.10000 | 0.08649 | 70.00- 130.00 | 100.00 |
| 16.682 | 16.682 (1.032) | 75 | 2347 | | | 0.00- 30.00 | 324.62 |
| 79 1,1,1,2-Tetrachloroethane | | | | | CAS #: 630-20-6 | | |
| 23.072 | 23.072 (1.006) | 131 | 2729 | 0.10000 | 0.09814 | 70.00- 130.00 | 100.00 |
| 23.072 | 23.072 (1.006) | 117 | 1698 | | | 0.00- 30.00 | 62.22 |
| 23.072 | 23.072 (1.006) | 95 | 1241 | | | 0.00- 30.00 | 45.47 |
| 91 1,2,3-Trichloropropane | | | | | CAS #: 96-18-4 | | |
| 24.784 | 24.784 (1.081) | 110 | 1746 | 0.10000 | 0.09796 | 70.00- 130.00 | 100.00 |
| 24.784 | 24.784 (1.081) | 75 | 5251 | | | 0.00- 30.00 | 300.74 |
| 24.784 | 24.784 (1.081) | 61 | 945 | | | 0.00- 30.00 | 54.12 |
| 93 2-Chlorotoluene | | | | | CAS #: 95-49-8 | | |
| 24.938 | 24.938 (1.088) | 126 | 2002 | 0.10000 | 0.1028 | 70.00- 130.00 | 100.00 |
| 24.912 | 24.912 (1.087) | 91 | 7742 | | | 0.00- 30.00 | 386.71 |
| 24.912 | 24.912 (1.087) | 65 | 533 | | | 0.00- 30.00 | 26.62 |
| 96 4-Chlorotoluene | | | | | CAS #: 106-43-4 | | |
| 25.067 | 25.067 (1.093) | 126 | 3090 | 0.10000 | 0.1073 | 70.00- 130.00 | 100.00 |
| 25.067 | 25.067 (1.093) | 91 | 11227 | | | 0.00- 30.00 | 363.33 |
| 24.526 | 24.526 (1.070) | 57 | 4250 | | | 0.00- 30.00 | 137.54 |
| 97 tert-Butylbenzene | | | | | CAS #: 98-06-6 | | |
| 25.343 | 25.343 (1.105) | 119 | 6242 | 0.10000 | 0.09556 | 70.00- 130.00 | 100.00 |
| 25.343 | 25.343 (1.105) | 134 | 1400 | | | 0.00- 30.00 | 22.43 |
| 25.343 | 25.343 (1.105) | 91 | 5466 | | | 0.00- 30.00 | 87.57 |
| 99 sec-Butylbenzene | | | | | CAS #: 135-98-8 | | |
| 25.590 | 25.590 (1.116) | 105 | 11328 | 0.10000 | 0.1091 | 70.00- 130.00 | 100.00 |
| 25.590 | 25.590 (1.116) | 134 | 1665 | | | 0.00- 30.00 | 14.70 |
| 25.590 | 25.590 (1.116) | 91 | 2442 | | | 0.00- 30.00 | 21.56 |
| 100 p-Cymene | | | | | CAS #: 99-87-6 | | |
| 25.724 | 25.724 (1.122) | 119 | 7033 | 0.10000 | 0.08990 | 70.00- 130.00 | 100.00 |
| 25.724 | 25.724 (1.122) | 134 | 1604 | | | 0.00- 30.00 | 22.81 |
| 25.724 | 25.724 (1.122) | 91 | 2993 | | | 0.00- 30.00 | 42.56 |
| 103 1,2,3-trimethylbenzene | | | | | CAS #: 526-73-8 | | |
| 25.903 | 25.903 (1.130) | 120 | 2906 | 0.10000 | 0.09586 | 70.00- 130.00 | 100.00 |

| RT | EXP RT (REL RT) | MASS | RESPONSE | AMOUNTS CAL-AMT ( PPBV) | AMOUNTS ON-COL ( PPBV) | TARGET RANGE | RATIO |
|---|---|---|---|---|---|---|---|
| 103 1,2,3-trimethylbenzene (continued) | | | | | | | |
| 25.903 | 25.903 (1.130) | 105 | 7042 | | | 0.00- 30.00 | 242.33 |
| 25.903 | 25.903 (1.130) | 77 | 1008 | | | 0.00- 30.00 | 34.69 |
| 107 Butylbenzene | | | | | CAS #: 104-51-8 | | |
| 26.195 | 26.195 (1.143) | 134 | 1852 | 0.10000 | 0.1063 | 70.00- 130.00 | 100.00 |
| 26.195 | 26.195 (1.143) | 91 | 7899 | | | 445.46- 505.46 | 426.51 |
| 26.195 | 26.195 (1.143) | 92 | 3653 | | | 0.00- 30.00 | 197.25 |
| 110 1,2-dibromo-3-chloropropane | | | | | CAS #: 96-12-8 | | |
| 27.226 | 27.226 (1.188) | 157 | 1556 | 0.10000 | 0.08374 | 70.00- 130.00 | 100.00 |
| 27.226 | 27.226 (1.188) | 75 | 2423 | | | 0.00- 30.00 | 155.72 |
| 27.226 | 27.226 (1.188) | 155 | 1258 | | | 0.00- 30.00 | 80.85 |
| 86 1,3-Dichloropropane | | | | | CAS #: 142-28-9 | | |
| 21.693 | 21.693 (1.234) | 76 | 3100 | 0.10000 | 0.09599 | 70.00- 130.00 | 100.00 |
| 21.660 | 21.660 (1.232) | 41 | 1775 | | | 30.10- 90.10 | 57.26 |
| 21.693 | 21.693 (1.234) | 78 | 1028 | | | 0.00- 30.00 | 33.16 |
| 185 Bromobenzene | | | | | CAS #: 108-86-1 | | |
| 24.732 | 24.732 (1.079) | 156 | 3259 | 0.10000 | 0.1118 | 70.00- 130.00 | 100.00 |
| 24.732 | 24.732 (1.079) | 158 | 2768 | | | 0.00- 30.00 | 84.93 |
| 24.732 | 24.732 (1.079) | 77 | 7083 | | | 0.00- 30.00 | 217.34 |

Report Date: 10-Mar-2012 13:50

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msde.i
Lab File ID: e031002.d
Lab Smp Id: ICAL
Analysis Type: VOA
Quant Type: ISTD
Operator: cr
Method File: /chem/msde.i/10Mar2012.b/e12l0308b.m
Misc Info: 0.10ppbv (0.10ppbv) -- AT5

Calibration Date: 10-MAR-2012
Calibration Time: 11:52
Client Smp ID: Level 5
Level: LOW
Sample Type: AIR

| | | AREA LIMIT | | | |
|---|---|---|---|---|---|
| COMPOUND | STANDARD | LOWER | UPPER | SAMPLE | %DIFF |
| 46 Bromochloromethan | 53284 | 31970 | 74598 | 60079 | 12.75 |
| 58 1,4-Difluorobenze | 199260 | 119556 | 278964 | 215796 | 8.30 |
| 75 Chlorobenzene-d5 | 174009 | 104405 | 243613 | 181514 | 4.31 |

| | | RT LIMIT | | | |
|---|---|---|---|---|---|
| COMPOUND | STANDARD | LOWER | UPPER | SAMPLE | %DIFF |
| 46 Bromochloromethan | 16.13 | 15.80 | 16.46 | 16.16 | 0.19 |
| 58 1,4-Difluorobenze | 17.59 | 17.26 | 17.92 | 17.59 | 0.00 |
| 75 Chlorobenzene-d5 | 22.93 | 22.60 | 23.26 | 22.93 | 0.00 |

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Data File: /chem/msde.i/10Mar2012.b/e031002.d

Date : 10-MAR-2012 10:33

Client ID: Level 5

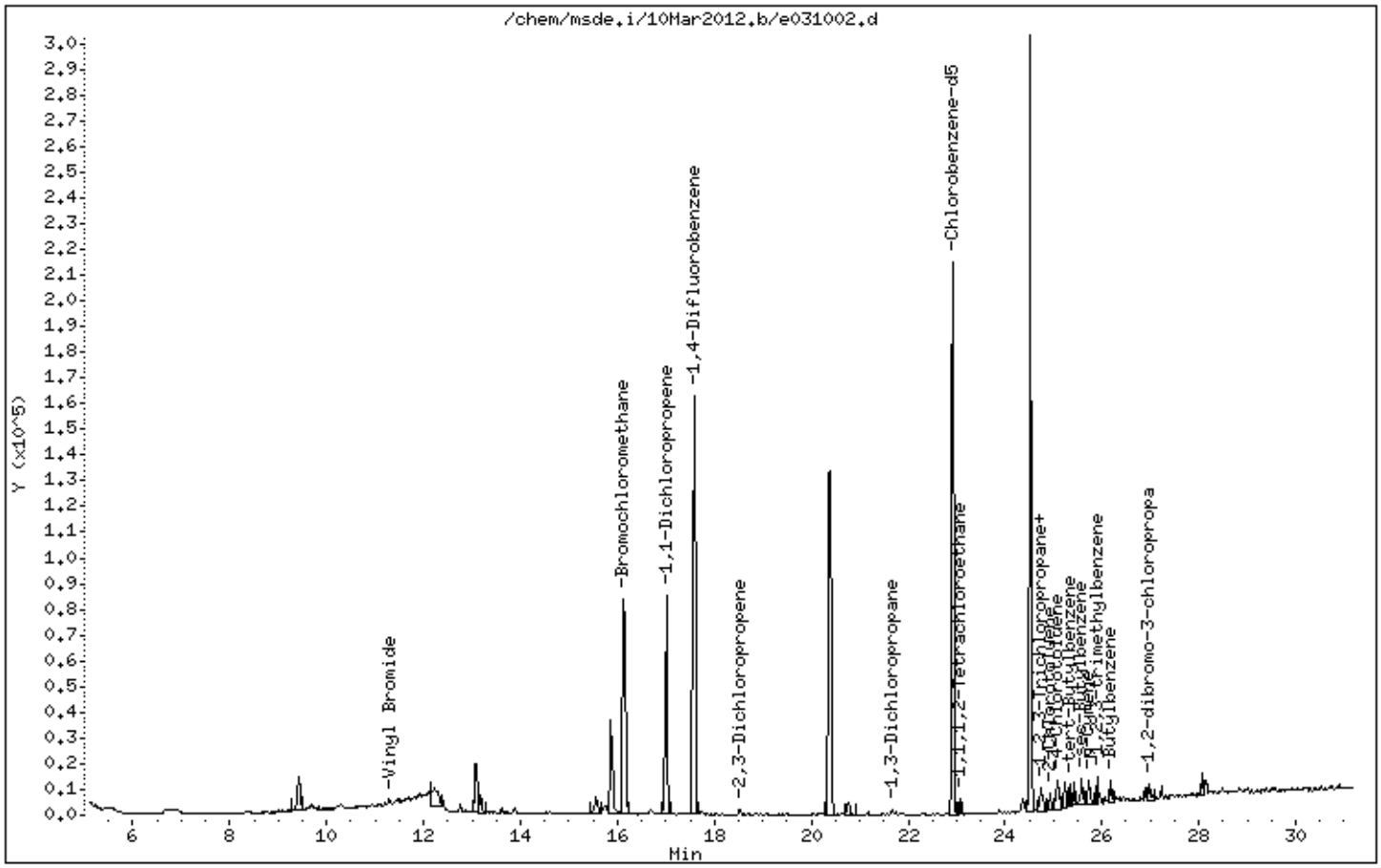
Instrument: msde.i

Sample Info: 250mL #2403-8

Operator: cr

Column phase: RTx-624

Column diameter: 0.32



Air Toxics Ltd.

EPA TO-15/Modified TO14A

Data file : /chem/msde.i/08Mar2012.b/e030811.d
Lab Smp Id: ICAL Client Smp ID: Level 5
Inj Date : 08-MAR-2012 18:33
Operator : srs Inst ID: msde.i
Smp Info : 12.5mL #2403-57
Misc Info : 0.1ppbv (2.0ppbv)
Comment : Low-Level/GC-MS
Method : /chem/msde.i/08Mar2012.b/e12l0308a.m
Meth Date : 09-Mar-2012 15:12 croush Quant Type: ISTD
Cal Date : 08-MAR-2012 18:33 Cal File: e030811.d
Als bottle: 8 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: Level#1.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

| Name | Value | Description |
|---|---|---|
| DF | 1.00000 | Dilution Factor |

| | | | | | AMOUNTS | | | |
|---|---|---|---|---|---|---|---|---|
| | | | | CAL-AMT | ON-COL | | | |
| RT | EXP RT (REL RT) | MASS | RESPONSE | ( PPBV) | ( PPBV) | TARGET RANGE | | RATIO |
| == | ====== ======== | ==== | ======== | ======= | ======= | ========== | | ===== |
| * 46 Bromochloromethane | | | | | | CAS #: 74-97-5 | | |
| 16.128 | 16.128 (1.000) | 130 | 66469 | 5.00000 | | 70.00- 130.00 | | 100.00 |
| 16.128 | 16.128 (1.000) | 128 | 49511 | | | 0.00- 30.00 | | 74.49 |
| 16.128 | 16.128 (1.000) | 49 | 61695 | | | 0.00- 30.00 | | 92.82 |
| * 58 1,4-Difluorobenzene | | | | | | CAS #: 540-36-3 | | |
| 17.586 | 17.586 (1.000) | 114 | 245823 | 5.00000 | | 70.00- 130.00 | | 100.00 |
| 17.586 | 17.586 (1.000) | 88 | 44221 | | | 0.00- 30.00 | | 17.99 |
| * 75 Chlorobenzene-d5 | | | | | | CAS #: 3114-55-4 | | |
| 22.927 | 22.927 (1.000) | 117 | 216549 | 5.00000 | | 70.00- 130.00 | | 100.00 |
| 22.927 | 22.927 (1.000) | 82 | 144630 | | | 0.00- 30.00 | | 66.79 |
| $ 54 1,2-Dichloroethane-d4 | | | | | | CAS #: 17060-07-0 | | |
| 17.013 | 17.013 (1.055) | 65 | 122139 | 5.00000 | 4.931 | 70.00- 130.00 | | 100.00 |
| 17.013 | 17.013 (1.055) | 67 | 59755 | | | 0.00- 30.00 | | 48.92 |

| RT | EXP RT (REL RT) | MASS | RESPONSE | AMOUNTS CAL-AMT ( PPBV) | ON-COL ( PPBV) | TARGET RANGE | RATIO |
|---|---|---|---|---|---|---|---|
| $ 67 Toluene-d8 | | | | | | CAS #: 2037-26-5 | |
| 20.368 | 20.368 (1.158) | 98 | 245765 | 5.00000 | 4.964 | 70.00- 130.00 | 100.00 |
| 20.368 | 20.368 (1.158) | 70 | 30326 | | | 0.00- 30.00 | 12.34 |
| 20.368 | 20.368 (1.158) | 100 | 156326 | | | 33.91- 93.91 | 63.61 |
| $ 87 Bromofluorobenzene | | | | | | CAS #: 460-00-4 | |
| 24.526 | 24.526 (1.070) | 174 | 122965 | 5.00000 | 4.964 | 70.00- 130.00 | 100.00 |
| 24.526 | 24.526 (1.070) | 95 | 196468 | | | 125.57- 185.57 | 159.78 |
| 24.526 | 24.526 (1.070) | 176 | 119728 | | | 64.73- 124.73 | 97.37 |
| 4 Dichlorodifluoromethane/Fr12 | | | | | | CAS #: 75-71-8 | |
| 5.931 | 5.931 (0.368) | 85 | 8726 | 0.10000 | 0.1123 | 70.00- 130.00 | 100.00 |
| 5.955 | 5.955 (0.369) | 87 | 2243 | | | 2.22- 62.22 | 25.70 |
| 6 Freon 114 | | | | | | CAS #: 76-14-2 | |
| 7.329 | 7.329 (0.454) | 135 | 4502 | 0.10000 | 0.1114 | 70.00- 130.00 | 100.00 |
| 7.305 | 7.305 (0.453) | 137 | 623 | | | 0.00- 30.00 | 13.84 |
| 7 Chloromethane | | | | | | CAS #: 74-87-3 | |
| 7.691 | 7.691 (0.477) | 50 | 1067 | 0.10000 | 0.09294 | 70.00- 130.00 | 100.00(Ta) |
| 0.000 | 1.000 (0.000) | 52 | 0 | | | 0.00- 30.00 | 0.00 |
| 10 Vinyl Chloride | | | | | | CAS #: 75-01-4 | |
| 8.526 | 8.526 (0.529) | 62 | 2048 | 0.10000 | 0.1130 | 70.00- 130.00 | 100.00 |
| 8.526 | 8.526 (0.529) | 64 | 348 | | | 2.55- 62.55 | 16.99 |
| 11 1,3-Butadiene | | | | | | CAS #: 106-99-0 | |
| 8.769 | 8.769 (0.544) | 54 | 1193 | 0.10000 | 0.1048 | 70.00- 130.00 | 100.00 |
| 8.769 | 8.769 (0.544) | 39 | 1398 | | | 0.00- 30.00 | 117.18 |
| 12 Bromomethane | | | | | | CAS #: 74-83-9 | |
| 10.272 | 10.272 (0.637) | 94 | 2304 | 0.10000 | 0.1150 | 70.00- 130.00 | 100.00 |
| 10.251 | 10.251 (0.636) | 96 | 2750 | | | 65.25- 125.25 | 119.36 |
| 16 Trichlorofluoromethane/Fr11 | | | | | | CAS #: 75-69-4 | |
| 11.495 | 11.495 (0.713) | 101 | 9669 | 0.10000 | 0.1180 | 70.00- 130.00 | 100.00 |
| 11.495 | 11.495 (0.713) | 103 | 6071 | | | 36.02- 96.02 | 62.79 |
| 19 Freon 113 | | | | | | CAS #: 76-13-1 | |
| 12.801 | 12.801 (0.794) | 151 | 3954 | 0.10000 | 0.1141 | 70.00- 130.00 | 100.00 |
| 12.780 | 12.780 (0.792) | 153 | 2435 | | | 34.27- 94.27 | 61.58 |
| 12.801 | 12.801 (0.794) | 101 | 5245 | | | 0.00- 30.00 | 132.65 |
| 21 1,1-Dichloroethene | | | | | | CAS #: 75-35-4 | |
| 12.821 | 12.821 (0.795) | 98 | 1246 | 0.10000 | 0.1058 | 70.00- 130.00 | 100.00 |
| 12.821 | 12.821 (0.795) | 61 | 3162 | | | 0.00- 30.00 | 253.77 |

| RT | EXP RT (REL RT) | MASS | RESPONSE | AMOUNTS CAL-AMT ( PPBV) | ON-COL ( PPBV) | TARGET RANGE | RATIO |
|---|---|---|---|---|---|---|---|
| 21 1,1-Dichloroethene (continued) | | | | | | | |
| 12.821 | 12.821 (0.795) | 96 | 2247 | | | 0.00- 30.00 | 180.34 |
| 29 Methylene Chloride | | | | | CAS #: 75-09-2 | | |
| 13.885 | 13.885 (0.861) | 84 | 1405 | 0.10000 | 0.1515 | 70.00- 130.00 | 100.00(M) |
| 13.885 | 13.885 (0.861) | 49 | 0 | | | 0.00- 30.00 | 0.00 |
| 13.885 | 13.885 (0.861) | 51 | 0 | | | 0.00- 30.00 | 0.00 |
| 31 MTBE | | | | | CAS #: 1634-04-4 | | |
| 14.187 | 14.187 (0.880) | 73 | 5188 | 0.10000 | 0.08685 | 70.00- 130.00 | 100.00(a) |
| 14.187 | 14.187 (0.880) | 57 | 841 | | | 0.00- 30.00 | 16.21 |
| 14.187 | 14.187 (0.880) | 41 | 991 | | | 0.00- 30.00 | 19.10 |
| 32 trans-1,2-Dichloroethene | | | | | CAS #: 156-60-5 | | |
| 14.242 | 14.242 (0.883) | 98 | 1350 | 0.10000 | 0.1070 | 70.00- 130.00 | 100.00 |
| 14.242 | 14.242 (0.883) | 61 | 2864 | | | 0.00- 30.00 | 212.15 |
| 14.242 | 14.242 (0.883) | 96 | 2092 | | | 0.00- 30.00 | 154.96 |
| 35 Hexane | | | | | CAS #: 110-54-3 | | |
| 14.517 | 14.517 (0.900) | 57 | 1678 | 0.10000 | 0.07748 | 70.00- 130.00 | 100.00(Ta) |
| 14.544 | 14.544 (0.902) | 43 | 922 | | | 0.00- 30.00 | 54.95 |
| 0.000 | 1.000 (0.000) | 86 | 0 | | | 0.00- 30.00 | 0.00 |
| 37 1,1-Dichloroethane | | | | | CAS #: 75-34-3 | | |
| 14.956 | 14.956 (0.927) | 63 | 3587 | 0.10000 | 0.1006 | 70.00- 130.00 | 100.00 |
| 14.956 | 14.956 (0.927) | 65 | 1233 | | | 0.00- 30.00 | 34.37 |
| 41 cis-1,2-Dichloroethene | | | | | CAS #: 156-59-2 | | |
| 15.787 | 15.787 (0.979) | 98 | 1356 | 0.10000 | 0.07147 | 70.00- 130.00 | 100.00(a) |
| 15.787 | 15.787 (0.979) | 61 | 4328 | | | 0.00- 30.00 | 319.17 |
| 15.787 | 15.787 (0.979) | 96 | 3335 | | | 124.52- 184.52 | 245.94 |
| 47 Chloroform | | | | | CAS #: 67-66-3 | | |
| 16.189 | 16.189 (1.004) | 83 | 6249 | 0.10000 | 0.1144 | 70.00- 130.00 | 100.00 |
| 16.189 | 16.189 (1.004) | 85 | 3782 | | | 0.00- 30.00 | 60.52 |
| 49 1,1,1-Trichloroethane | | | | | CAS #: 71-55-6 | | |
| 16.467 | 16.467 (1.021) | 97 | 6637 | 0.10000 | 0.1064 | 70.00- 130.00 | 100.00 |
| 16.467 | 16.467 (1.021) | 99 | 4862 | | | 0.00- 30.00 | 73.26 |
| 48 Cyclohexane | | | | | CAS #: 110-82-7 | | |
| 16.467 | 16.467 (1.021) | 84 | 2663 | 0.10000 | 0.09135 | 70.00- 130.00 | 100.00(a) |
| 16.467 | 16.467 (1.021) | 56 | 1697 | | | 0.00- 30.00 | 63.73 |
| 16.467 | 16.467 (1.021) | 41 | 1004 | | | 0.00- 30.00 | 37.70 |
| 51 Carbon Tetrachloride | | | | | CAS #: 56-23-5 | | |
| 16.652 | 16.652 (1.032) | 119 | 3186 | 0.10000 | 0.06825 | 70.00- 130.00 | 100.00(a) |

| RT | EXP RT (REL RT) | MASS | RESPONSE | AMOUNTS CAL-AMT ( PPBV) | ON-COL ( PPBV) | TARGET RANGE | RATIO |
|---|---|---|---|---|---|---|---|
| 51 Carbon Tetrachloride (continued) | | | | | | | |
| 16.652 | 16.652 (1.032) | 117 | 3006 | | | 0.00- 30.00 | 94.35 |
| 52 2,2,4-Trimethylpentane | | | | | CAS #: 540-84-1 | | |
| 16.926 | 16.926 (1.049) | 56 | 3993 | 0.10000 | 0.1196 | 70.00- 130.00 | 100.00 |
| 16.926 | 16.926 (1.049) | 57 | 9170 | | | 0.00- 30.00 | 229.65 |
| 16.926 | 16.926 (1.049) | 41 | 2846 | | | 0.00- 30.00 | 71.27 |
| 53 Benzene | | | | | CAS #: 71-43-2 | | |
| 17.013 | 17.013 (0.967) | 78 | 7206 | 0.10000 | 0.1143 | 70.00- 130.00 | 100.00 |
| 17.013 | 17.013 (0.967) | 77 | 1874 | | | 0.00- 30.00 | 26.01 |
| 56 1,2-Dichloroethane | | | | | CAS #: 107-06-2 | | |
| 17.130 | 17.130 (0.974) | 62 | 4448 | 0.10000 | 0.1251 | 70.00- 130.00 | 100.00 |
| 17.130 | 17.130 (0.974) | 64 | 1538 | | | 0.00- 30.00 | 34.58 |
| 57 Heptane | | | | | CAS #: 142-82-5 | | |
| 17.159 | 17.159 (0.976) | 57 | 725 | 0.10000 | 0.05562 | 70.00- 130.00 | 100.00(a) |
| 17.159 | 17.159 (0.976) | 100 | 660 | | | 0.00- 30.00 | 91.03 |
| 17.159 | 17.159 (0.976) | 43 | 1921 | | | 0.00- 30.00 | 264.97 |
| 59 Trichloroethene | | | | | CAS #: 79-01-6 | | |
| 18.025 | 18.025 (1.025) | 130 | 2817 | 0.10000 | 0.1011 | 70.00- 130.00 | 100.00 |
| 18.025 | 18.025 (1.025) | 95 | 3136 | | | 0.00- 30.00 | 111.32 |
| 18.025 | 18.025 (1.025) | 97 | 2201 | | | 0.00- 30.00 | 78.13 |
| 61 1,2-Dichloropropane | | | | | CAS #: 78-87-5 | | |
| 18.519 | 18.519 (1.053) | 63 | 2398 | 0.10000 | 0.1237 | 70.00- 130.00 | 100.00 |
| 18.519 | 18.519 (1.053) | 62 | 1332 | | | 0.00- 30.00 | 55.55 |
| 18.519 | 18.519 (1.053) | 41 | 939 | | | 29.06- 89.06 | 39.16 |
| 62 1,4-Dioxane | | | | | CAS #: 123-91-1 | | |
| 18.629 | 18.629 (1.059) | 88 | 950 | 0.10000 | 0.06871 | 70.00- 130.00 | 100.00(Ta) |
| 0.000 | 1.000 (0.000) | 58 | 0 | | | 0.00- 30.00 | 0.00 |
| 0.000 | 1.000 (0.000) | 57 | 0 | | | 0.00- 30.00 | 0.00 |
| 63 Bromodichloromethane | | | | | CAS #: 75-27-4 | | |
| 18.959 | 18.959 (1.078) | 83 | 5323 | 0.10000 | 0.09829 | 70.00- 130.00 | 100.00(a) |
| 18.959 | 18.959 (1.078) | 85 | 3399 | | | 0.00- 30.00 | 63.85 |
| 64 cis-1,3-Dichloropropene | | | | | CAS #: 10061-01-5 | | |
| 19.865 | 19.865 (1.130) | 75 | 3401 | 0.10000 | 0.1014 | 70.00- 130.00 | 100.00 |
| 19.865 | 19.865 (1.130) | 77 | 1317 | | | 0.00- 30.00 | 38.72 |
| 19.865 | 19.865 (1.130) | 39 | 1206 | | | 10.38- 70.38 | 35.46 |
| 65 4-Methyl-2-pentanone | | | | | CAS #: 108-10-1 | | |
| 20.077 | 20.077 (1.142) | 43 | 1531 | 0.10000 | 0.06110 | 70.00- 130.00 | 100.00(Ta) |

| RT | EXP RT (REL RT) | MASS | RESPONSE | AMOUNTS CAL-AMT ( PPBV) | ON-COL ( PPBV) | TARGET RANGE | RATIO |
|---|---|---|---|---|---|---|---|
| 65 4-Methyl-2-pentanone (continued) | | | | | | | |
| 20.077 | 20.077 (1.142) | 58 | 588 | | | 0.00- 30.00 | 38.41 |
| 0.000 | 1.000 (0.000) | 85 | 0 | | | 0.00- 30.00 | 0.00 |
| 68 Toluene | | | | | CAS #: 108-88-3 | | |
| 20.525 | 20.525 (1.167) | 91 | 9139 | 0.10000 | 0.1214 | 70.00- 130.00 | 100.00 |
| 20.502 | 20.502 (1.166) | 92 | 4921 | | | 0.00- 30.00 | 53.85 |
| 69 trans-1,3-Dichloropropene | | | | | CAS #: 10061-02-6 | | |
| 20.995 | 20.995 (0.916) | 75 | 2979 | 0.10000 | 0.06415 | 70.00- 130.00 | 100.00(a) |
| 20.995 | 20.995 (0.916) | 77 | 1255 | | | 0.00- 30.00 | 42.13 |
| 20.995 | 20.995 (0.916) | 39 | 950 | | | 4.84- 64.84 | 31.89 |
| 70 1,1,2-Trichloroethane | | | | | CAS #: 79-00-5 | | |
| 21.335 | 21.335 (0.931) | 97 | 2832 | 0.10000 | 0.1012 | 70.00- 130.00 | 100.00 |
| 21.335 | 21.335 (0.931) | 99 | 1552 | | | 0.00- 30.00 | 54.80 |
| 21.335 | 21.335 (0.931) | 83 | 2338 | | | 52.76- 112.76 | 82.56 |
| 71 Tetrachloroethene | | | | | CAS #: 127-18-4 | | |
| 21.497 | 21.497 (0.938) | 166 | 3043 | 0.10000 | 0.09370 | 70.00- 130.00 | 100.00(a) |
| 21.497 | 21.497 (0.938) | 129 | 2972 | | | 0.00- 30.00 | 97.67 |
| 21.497 | 21.497 (0.938) | 131 | 2818 | | | 0.00- 30.00 | 92.61 |
| 73 Dibromochloromethane | | | | | CAS #: 124-48-1 | | |
| 22.018 | 22.018 (0.960) | 129 | 4465 | 0.10000 | 0.09380 | 70.00- 130.00 | 100.00(a) |
| 22.018 | 22.018 (0.960) | 127 | 3123 | | | 0.00- 30.00 | 69.94 |
| 74 1,2-Dibromoethane | | | | | CAS #: 106-93-4 | | |
| 22.278 | 22.278 (0.972) | 107 | 4196 | 0.10000 | 0.09778 | 70.00- 130.00 | 100.00(a) |
| 22.278 | 22.278 (0.972) | 109 | 3727 | | | 0.00- 30.00 | 88.82 |
| 76 Chlorobenzene | | | | | CAS #: 108-90-7 | | |
| 22.951 | 22.951 (1.001) | 112 | 7512 | 0.10000 | 0.1217 | 70.00- 130.00 | 100.00 |
| 22.951 | 22.951 (1.001) | 114 | 2266 | | | 0.00- 30.00 | 30.17 |
| 22.951 | 22.951 (1.001) | 77 | 7605 | | | 36.24- 96.24 | 101.24 |
| 77 Ethyl Benzene | | | | | CAS #: 100-41-4 | | |
| 23.023 | 23.023 (1.004) | 106 | 3045 | 0.10000 | 0.1010 | 70.00- 130.00 | 100.00 |
| 23.023 | 23.023 (1.004) | 91 | 10390 | | | 0.00- 30.00 | 341.22 |
| 80 m,p-Xylene | | | | | CAS #: 108-38-3 | | |
| 23.192 | 23.192 (1.012) | 106 | 3213 | 0.10000 | 0.08856 | 70.00- 130.00 | 100.00(a) |
| 23.192 | 23.192 (1.012) | 91 | 6783 | | | 0.00- 30.00 | 211.11 |
| 81 o-Xylene | | | | | CAS #: 95-47-6 | | |
| 23.770 | 23.770 (1.037) | 106 | 2913 | 0.10000 | 0.08352 | 70.00- 130.00 | 100.00(a) |

| RT | EXP RT (REL RT) | MASS | RESPONSE | AMOUNTS CAL-AMT ( PPBV) | AMOUNTS ON-COL ( PPBV) | TARGET RANGE | RATIO |
|---|---|---|---|---|---|---|---|
| 81 o-Xylene (continued) | | | | | | | |
| 23.770 | 23.770 (1.037) | 91 | 7051 | | | 0.00- 30.00 | 242.05 |
| 83 Styrene | | | | | CAS #: 100-42-5 | | |
| 23.818 | 23.818 (1.039) | 104 | 4549 | 0.10000 | 0.08640 | 70.00- 130.00 | 100.00(a) |
| 23.794 | 23.794 (1.038) | 78 | 2607 | | | 0.00- 30.00 | 57.31 |
| 84 Bromoform | | | | | CAS #: 75-25-2 | | |
| 24.132 | 24.132 (1.053) | 173 | 3514 | 0.10000 | 0.08538 | 70.00- 130.00 | 100.00(a) |
| 24.132 | 24.132 (1.053) | 171 | 2075 | | | 0.00- 30.00 | 59.05 |
| 85 Cumene | | | | | CAS #: 98-82-8 | | |
| 24.228 | 24.228 (1.057) | 105 | 9349 | 0.10000 | 0.08278 | 70.00- 130.00 | 100.00(a) |
| 24.228 | 24.228 (1.057) | 120 | 2194 | | | 0.00- 30.00 | 23.47 |
| 89 1,1,2,2-Tetrachloroethane | | | | | CAS #: 79-34-5 | | |
| 24.680 | 24.680 (1.076) | 83 | 6381 | 0.10000 | 0.1093 | 70.00- 130.00 | 100.00 |
| 24.680 | 24.680 (1.076) | 85 | 3966 | | | 0.00- 30.00 | 62.15 |
| 90 Propylbenzene | | | | | CAS #: 103-65-1 | | |
| 24.758 | 24.758 (1.080) | 91 | 13701 | 0.10000 | 0.09472 | 70.00- 130.00 | 100.00(a) |
| 24.758 | 24.758 (1.080) | 120 | 2654 | | | 0.00- 30.00 | 19.37 |
| 92 4-Ethyltoluene | | | | | CAS #: 622-96-8 | | |
| 24.887 | 24.887 (1.085) | 105 | 11258 | 0.10000 | 0.09064 | 70.00- 130.00 | 100.00(a) |
| 24.887 | 24.887 (1.085) | 120 | 2647 | | | 0.00- 30.00 | 23.51 |
| 94 1,3,5-Trimethylbenzene | | | | | CAS #: 108-67-8 | | |
| 24.938 | 24.938 (1.088) | 105 | 9227 | 0.10000 | 0.08630 | 70.00- 130.00 | 100.00(a) |
| 24.938 | 24.938 (1.088) | 120 | 3946 | | | 0.00- 30.00 | 42.77 |
| 98 1,2,4-Trimethylbenzene | | | | | CAS #: 95-63-6 | | |
| 25.410 | 25.410 (1.108) | 105 | 7651 | 0.10000 | 0.08129 | 70.00- 130.00 | 100.00(a) |
| 25.410 | 25.410 (1.108) | 120 | 3293 | | | 0.00- 30.00 | 43.04 |
| 101 1,3-Dichlorobenzene | | | | | CAS #: 541-73-1 | | |
| 25.791 | 25.791 (1.125) | 146 | 7105 | 0.10000 | 0.1191 | 70.00- 130.00 | 100.00 |
| 25.791 | 25.791 (1.125) | 148 | 3706 | | | 0.00- 30.00 | 52.16 |
| 25.791 | 25.791 (1.125) | 111 | 3319 | | | 0.00- 30.00 | 46.71 |
| 104 1,4-Dichlorobenzene | | | | | CAS #: 106-46-7 | | |
| 25.903 | 25.903 (1.130) | 146 | 6497 | 0.10000 | 0.1088 | 70.00- 130.00 | 100.00 |
| 25.903 | 25.903 (1.130) | 148 | 4143 | | | 0.00- 30.00 | 63.77 |
| 25.903 | 25.903 (1.130) | 111 | 2902 | | | 0.00- 30.00 | 44.67 |
| 105 alpha-chlorotoluene | | | | | CAS #: 100-44-7 | | |
| 26.060 | 26.060 (1.137) | 91 | 8295 | 0.10000 | 0.09123 | 70.00- 130.00 | 100.00(a) |

| RT | EXP RT (REL RT) | MASS | RESPONSE | AMOUNTS CAL-AMT ( PPBV) | AMOUNTS ON-COL ( PPBV) | TARGET RANGE | RATIO |
|---|---|---|---|---|---|---|---|
| 105 alpha-chlorotoluene (continued) | | | | | | | |
| 26.060 | 26.060 (1.137) | 126 | 1186 | | | 0.00- 30.00 | 14.30 |
| 108 1,2-Dichlorobenzene | | | | | CAS #: 95-50-1 | | |
| 26.352 | 26.352 (1.149) | 146 | 6216 | 0.10000 | 0.1098 | 70.00- 130.00 | 100.00 |
| 26.352 | 26.352 (1.149) | 148 | 4484 | | | 34.07- 94.07 | 72.14 |
| 26.352 | 26.352 (1.149) | 111 | 3020 | | | 19.87- 79.87 | 48.58 |

QC Flag Legend

T - Target compound detected outside RT window.
a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.

Report Date: 09-Mar-2012 15:12

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msde.i
Lab File ID: e030811.d
Lab Smp Id: ICAL
Analysis Type: VOA
Quant Type: ISTD
Operator: srs
Method File: /chem/msde.i/08Mar2012.b/e12l0308a.m
Misc Info: 0.1ppbv (2.0ppbv)

Calibration Date: 08-MAR-2012
Calibration Time: 22:56
Client Smp ID: Level 5
Level: LOW
Sample Type: AIR

| | | AREA LIMIT | | | |
|---|---|---|---|---|---|
| COMPOUND | STANDARD | LOWER | UPPER | SAMPLE | %DIFF |
| 46 Bromochloromethan | 73839 | 44303 | 103375 | 66469 | -9.98 |
| 58 1,4-Difluorobenze | 285440 | 171264 | 399616 | 245823 | -13.88 |
| 75 Chlorobenzene-d5 | 243451 | 146071 | 340831 | 216549 | -11.05 |

| | | RT LIMIT | | | |
|---|---|---|---|---|---|
| COMPOUND | STANDARD | LOWER | UPPER | SAMPLE | %DIFF |
| 46 Bromochloromethan | 16.13 | 15.80 | 16.46 | 16.13 | 0.00 |
| 58 1,4-Difluorobenze | 17.59 | 17.26 | 17.92 | 17.59 | 0.00 |
| 75 Chlorobenzene-d5 | 22.93 | 22.60 | 23.26 | 22.93 | 0.00 |

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Data File: /chem/msde.i/08Mar2012.b/e030811.d



Date : 08-MAR-2012 18:33

Client ID: Level 5

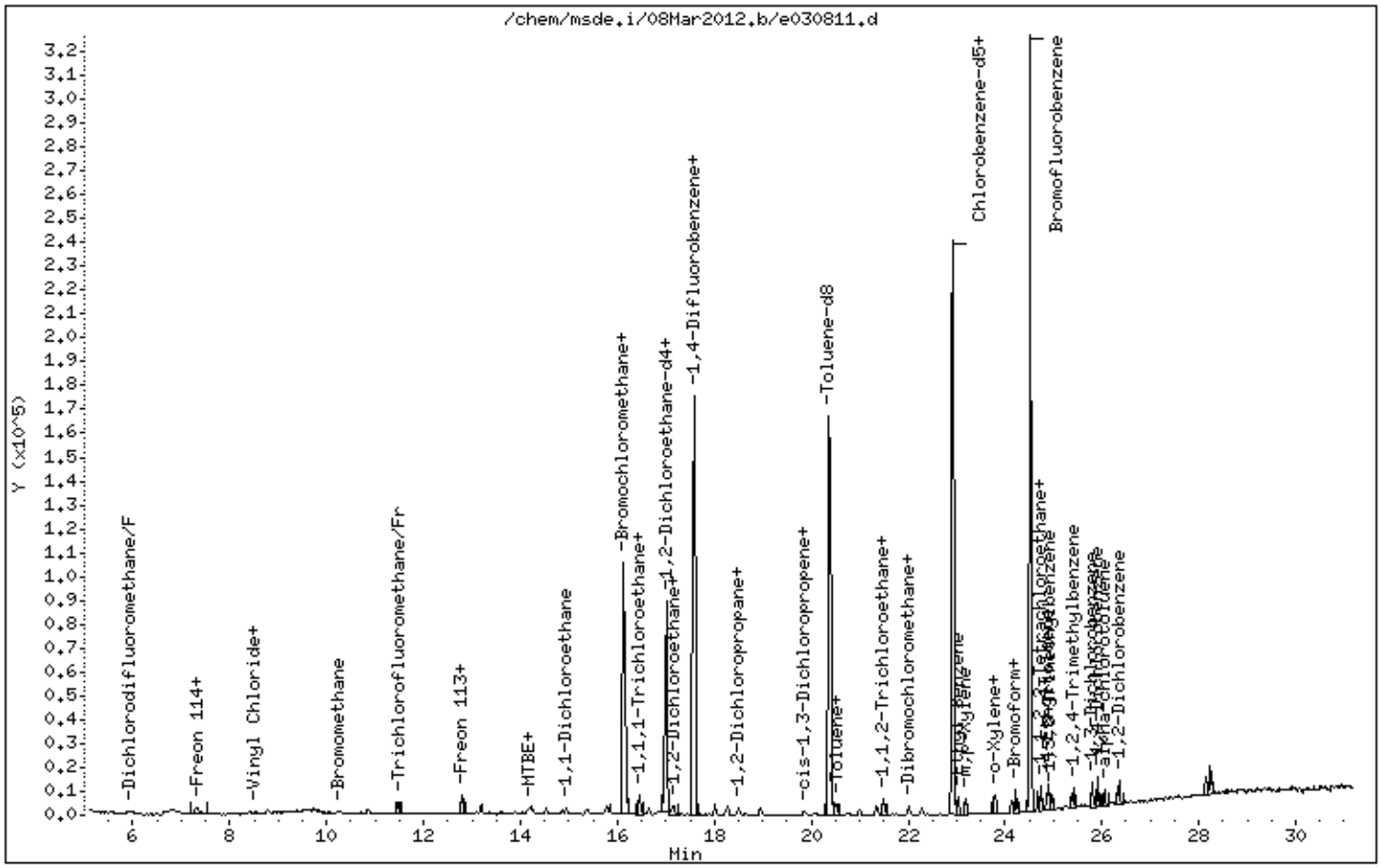
Instrument: msde.i

Sample Info: 12.5mL #2403-57

Operator: srs

Column phase: RTx-624

Column diameter: 0.32



Air Toxics Ltd.

EPA TO-15/Modified TO14A

Data file : /chem/msde.i/10Mar2012.b/e031012.d
Lab Smp Id: ICAL Client Smp ID: Level 6
Inj Date : 10-MAR-2012 17:49
Operator : LL Inst ID: msde.i
Smp Info : 62.5mL #2370-131
Misc Info : 0.5ppbv (5.0ppbv) -- TVH
Comment : Low-Level/GC-MS
Method : /chem/msde.i/10Mar2012.b/e12l0308b.m
Meth Date : 12-Mar-2012 07:12 croush Quant Type: ISTD
Cal Date : 10-MAR-2012 17:49 Cal File: e031012.d
Als bottle: 4 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: BP.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

| Name | Value | Description |
|---|---|---|
| DF | 1.00000 | Dilution Factor |

| RT | EXP RT (REL RT) | MASS | RESPONSE | AMOUNTS CAL-AMT ( PPBV) | AMOUNTS ON-COL ( PPBV) | TARGET RANGE | RATIO |
|---|---|---|---|---|---|---|---|
| * 46 Bromochloromethane | | | | | CAS #: 74-97-5 | | |
| 16.127 | 16.127 (1.000) | 130 | 46323 | 5.00000 | | 70.00- 130.00 | 100.00 |
| 16.127 | 16.127 (1.000) | 128 | 36623 | | | 0.00- 30.00 | 79.06 |
| 16.127 | 16.127 (1.000) | 49 | 43732 | | | 0.00- 30.00 | 94.41 |
| * 58 1,4-Difluorobenzene | | | | | CAS #: 540-36-3 | | |
| 17.585 | 17.585 (1.000) | 114 | 168692 | 5.00000 | | 70.00- 130.00 | 100.00 |
| 17.585 | 17.585 (1.000) | 88 | 30918 | | | 0.00- 30.00 | 18.33 |
| * 75 Chlorobenzene-d5 | | | | | CAS #: 3114-55-4 | | |
| 22.927 | 22.927 (1.000) | 117 | 147170 | 5.00000 | | 70.00- 130.00 | 100.00 |
| 22.927 | 22.927 (1.000) | 82 | 100340 | | | 0.00- 30.00 | 68.18 |
| 17 Pentane | | | | | CAS #: 109-66-0 | | |
| 11.681 | 11.681 (0.724) | 43 | 4591 | 0.50000 | 0.5183 | 70.00- 130.00 | 100.00 |
| 11.681 | 11.681 (0.724) | 57 | 654 | | | 0.00- 47.76 | 14.25 |
| 11.681 | 11.681 (0.724) | 72 | 956 | | | 0.00- 30.00 | 20.82 |

| RT | EXP RT (REL RT) | MASS | RESPONSE | AMOUNTS CAL-AMT ( PPBV) | ON-COL ( PPBV) | TARGET RANGE | RATIO |
|---|---|---|---|---|---|---|---|
| 66 Octane | | | | | CAS #: 111-65-9 | | |
| 20.412 | 20.412 (1.161) | 57 | 2944 | 0.50000 | 0.4804 | 70.00- 130.00 | 100.00(a) |
| 20.412 | 20.412 (1.161) | 85 | 4516 | | | 0.00- 30.00 | 153.40 |
| 20.412 | 20.412 (1.161) | 43 | 6379 | | | 161.52- 221.52 | 216.68 |
| 78 Nonane | | | | | CAS #: 111-84-2 | | |
| 23.023 | 23.023 (1.004) | 43 | 5413 | 0.50000 | 0.4972 | 70.00- 130.00 | 100.00(a) |
| 23.023 | 23.023 (1.004) | 57 | 5858 | | | 0.00- 30.00 | 108.22 |
| 23.023 | 23.023 (1.004) | 85 | 2662 | | | 0.00- 30.00 | 49.18 |
| 88 Decane | | | | | CAS #: 124-18-5 | | |
| 24.809 | 24.809 (1.082) | 57 | 7098 | 0.50000 | 0.4786 | 70.00- 130.00 | 100.00(Ta) |
| 24.809 | 24.809 (1.082) | 71 | 3285 | | | 0.00- 30.00 | 46.28 |
| 0.000 | 1.000 (0.000) | 142 | 0 | | | 0.00- 30.00 | 0.00 |
| 188 Undecane | | | | | CAS #: 1120-21-4 | | |
| 26.150 | 26.150 (1.141) | 57 | 5766 | 0.50000 | 0.4713 | 70.00- 130.00 | 100.00(a) |
| 26.150 | 26.150 (1.141) | 43 | 4099 | | | 0.00- 30.00 | 71.09 |
| 26.150 | 26.150 (1.141) | 85 | 2219 | | | 0.00- 30.00 | 38.48 |
| 189 Dodecane | | | | | CAS #: 112-40-3 | | |
| 27.293 | 27.293 (1.190) | 85 | 1691 | 0.50000 | 0.4564 | 70.00- 130.00 | 100.00(a) |
| 27.293 | 27.293 (1.190) | 57 | 3504 | | | 0.00- 30.00 | 207.21 |
| 27.293 | 27.293 (1.190) | 43 | 3094 | | | 0.00- 30.00 | 182.97 |

QC Flag Legend

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

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msde.i
Lab File ID: e031012.d
Lab Smp Id: ICAL
Analysis Type: VOA
Quant Type: ISTD
Operator: LL
Method File: /chem/msde.i/10Mar2012.b/e12l0308b.m
Misc Info: 0.5ppbv (5.0ppbv) -- TVH

Calibration Date: 10-MAR-2012
Calibration Time: 18:30
Client Smp ID: Level 6
Level: LOW
Sample Type: AIR

| | | AREA LIMIT | | | |
|---|---|---|---|---|---|
| COMPOUND | STANDARD | LOWER | UPPER | SAMPLE | %DIFF |
| 46 Bromochloromethan | 47451 | 28471 | 66431 | 46323 | -2.38 |
| 58 1,4-Difluorobenze | 173946 | 104368 | 243524 | 168692 | -3.02 |
| 75 Chlorobenzene-d5 | 149007 | 89404 | 208610 | 147170 | -1.23 |

| | | RT LIMIT | | | |
|---|---|---|---|---|---|
| COMPOUND | STANDARD | LOWER | UPPER | SAMPLE | %DIFF |
| 46 Bromochloromethan | 16.13 | 15.80 | 16.46 | 16.13 | 0.00 |
| 58 1,4-Difluorobenze | 17.59 | 17.26 | 17.92 | 17.59 | 0.00 |
| 75 Chlorobenzene-d5 | 22.93 | 22.60 | 23.26 | 22.93 | 0.00 |

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Data File: /chem/msde.i/10Mar2012.b/e031012.d

Date : 10-MAR-2012 17:49

Client ID: Level 6

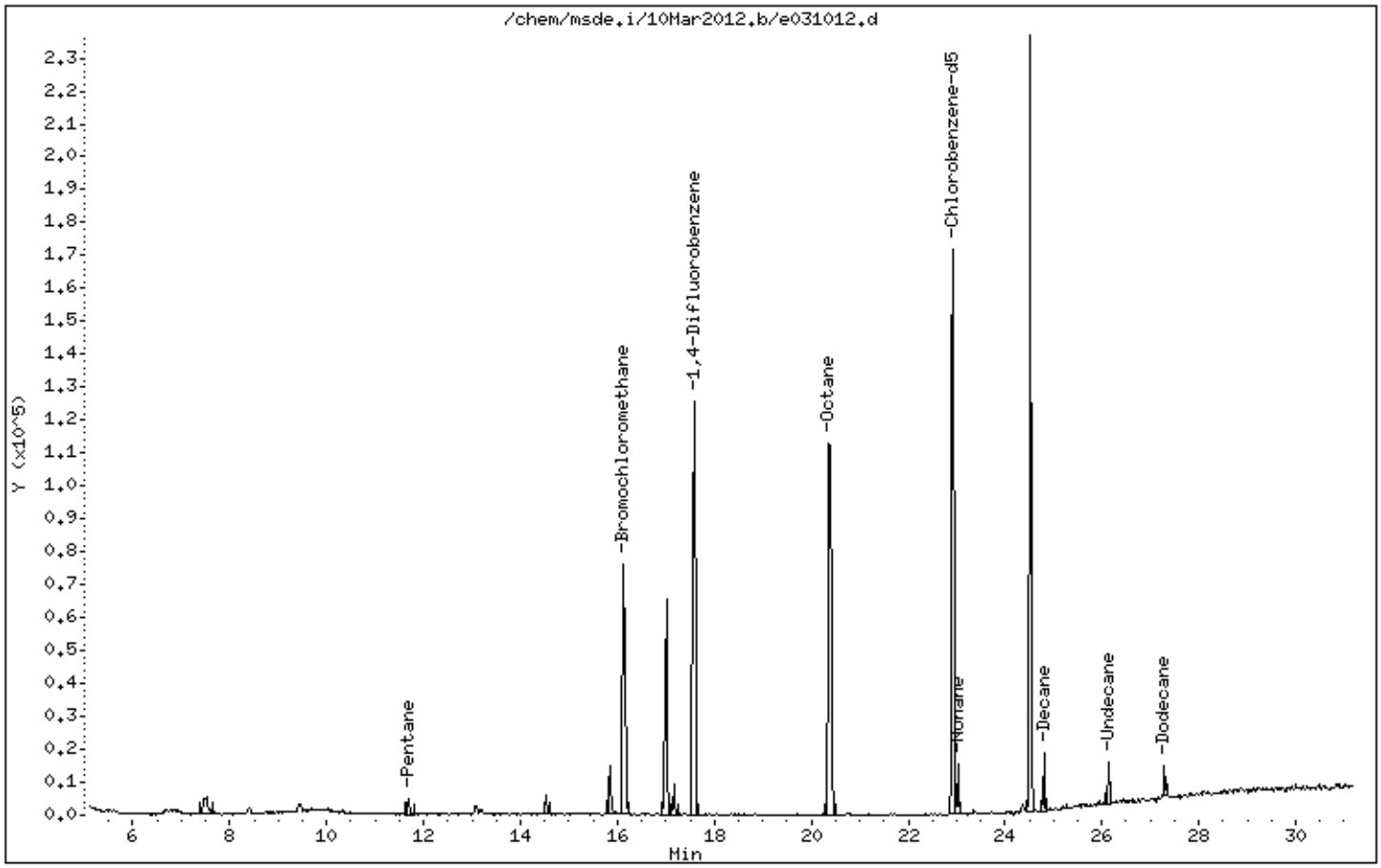
Instrument: msde.i

Sample Info: 62.5mL #2370-131

Operator: LL

Column phase: RTx-624

Column diameter: 0.32



Air Toxics Ltd.

EPA TO-15/Modified TO14A

Data file : /chem/msde.i/10Mar2012.b/e031009.d
Lab Smp Id: ICAL Client Smp ID: level 6
Inj Date : 10-MAR-2012 15:38
Operator : LL Inst ID: msde.i
Smp Info : 25mL #2403-72
Misc Info : 0.5ppbv (5.0ppbv) -- AT3
Comment : Low-Level/GC-MS
Method : /chem/msde.i/10Mar2012.b/e12l0308b.m
Meth Date : 12-Mar-2012 07:09 croush Quant Type: ISTD
Cal Date : 10-MAR-2012 15:38 Cal File: e031009.d
Als bottle: 4 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AT3.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

| Name | Value | Description |
|---|---|---|
| DF | 1.00000 | Dilution Factor |

| RT | EXP RT (REL RT) | MASS | RESPONSE | AMOUNTS CAL-AMT ( PPBV) | AMOUNTS ON-COL ( PPBV) | TARGET RANGE | RATIO |
|---|---|---|---|---|---|---|---|
| * 46 Bromochloromethane | | | | | CAS #: 74-97-5 | | |
| 16.127 | 16.127 (1.000) | 130 | 46976 | 5.00000 | | 70.00- 130.00 | 100.00 |
| 16.127 | 16.127 (1.000) | 128 | 37032 | | | 0.00- 30.00 | 78.83 |
| 16.127 | 16.127 (1.000) | 49 | 45123 | | | 0.00- 30.00 | 96.06 |
| * 58 1,4-Difluorobenzene | | | | | CAS #: 540-36-3 | | |
| 17.586 | 17.586 (1.000) | 114 | 179465 | 5.00000 | | 70.00- 130.00 | 100.00 |
| 17.586 | 17.586 (1.000) | 88 | 32577 | | | 0.00- 30.00 | 18.15 |
| * 75 Chlorobenzene-d5 | | | | | CAS #: 3114-55-4 | | |
| 22.927 | 22.927 (1.000) | 117 | 154578 | 5.00000 | | 70.00- 130.00 | 100.00 |
| 22.927 | 22.927 (1.000) | 82 | 106179 | | | 0.00- 30.00 | 68.69 |
| 50 Thiophene | | | | | CAS #: 110-02-1 | | |
| 17.363 | 17.363 (0.987) | 84 | 16643 | 0.50000 | 0.5734 | 70.00- 130.00 | 100.00(T) |
| 17.363 | 17.363 (0.987) | 58 | 7819 | | | 0.00- 30.00 | 46.98 |
| 0.000 | 1.000 (0.000) | 0 | 0 | | | 0.00- 30.00 | 0.00 |

| RT | EXP RT (REL RT) | MASS | RESPONSE | AMOUNTS CAL-AMT ( PPBV) | ON-COL ( PPBV) | TARGET RANGE | RATIO |
|---|---|---|---|---|---|---|---|
| 24 2-Methylpentane | | | | | CAS #: 107-83-5 | | |
| 13.692 | 13.692 (0.849) | 71 | 5054 | 0.50000 | 0.5202 | 70.00- 130.00 | 100.00 |
| 13.692 | 13.692 (0.849) | 43 | 8138 | | | 0.00- 30.00 | 161.02 |
| 13.692 | 13.692 (0.849) | 42 | 3677 | | | 0.00- 30.00 | 72.75 |
| 45 2,3-Dimethylpentane | | | | | CAS #: 565-59-3 | | |
| 16.405 | 16.405 (1.017) | 71 | 4214 | 0.50000 | 0.4682 | 70.00- 130.00 | 100.00(a) |
| 16.405 | 16.405 (1.017) | 56 | 8608 | | | 0.00- 30.00 | 204.27 |
| 16.405 | 16.405 (1.017) | 43 | 6204 | | | 0.00- 30.00 | 147.22 |
| 102 Indan | | | | | CAS #: 496-11-7 | | |
| 26.150 | 26.150 (1.141) | 117 | 22750 | 0.50000 | 0.4801 | 70.00- 130.00 | 100.00(a) |
| 26.150 | 26.150 (1.141) | 118 | 12316 | | | 0.00- 30.00 | 54.14 |
| 26.150 | 26.150 (1.141) | 91 | 4738 | | | 0.00- 30.00 | 20.83 |
| 106 Indene | | | | | CAS #: 95-13-6 | | |
| 26.419 | 26.419 (1.152) | 115 | 12754 | 0.50000 | 0.4939 | 70.00- 130.00 | 100.00(Ta) |
| 26.419 | 26.419 (1.152) | 116 | 11979 | | | 0.00- 30.00 | 93.92 |
| 0.000 | 1.000 (0.000) | 0 | 0 | | | 0.00- 30.00 | 0.00 |

QC Flag Legend

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

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msde.i
Lab File ID: e031009.d
Lab Smp Id: ICAL
Analysis Type: VOA
Quant Type: ISTD
Operator: LL
Method File: /chem/msde.i/10Mar2012.b/e12l0308b.m
Misc Info: 0.5ppbv (5.0ppbv) -- AT3

Calibration Date: 10-MAR-2012
Calibration Time: 16:18
Client Smp ID: level 6
Level: LOW
Sample Type: AIR

| | | AREA LIMIT | | | |
|---|---|---|---|---|---|
| COMPOUND | STANDARD | LOWER | UPPER | SAMPLE | %DIFF |
| 46 Bromochloromethan | 46839 | 28103 | 65575 | 46976 | 0.29 |
| 58 1,4-Difluorobenze | 182691 | 109615 | 255767 | 179465 | -1.77 |
| 75 Chlorobenzene-d5 | 151374 | 90824 | 211924 | 154578 | 2.12 |

| | | RT LIMIT | | | |
|---|---|---|---|---|---|
| COMPOUND | STANDARD | LOWER | UPPER | SAMPLE | %DIFF |
| 46 Bromochloromethan | 16.13 | 15.80 | 16.46 | 16.13 | 0.00 |
| 58 1,4-Difluorobenze | 17.59 | 17.26 | 17.92 | 17.59 | 0.00 |
| 75 Chlorobenzene-d5 | 22.93 | 22.60 | 23.26 | 22.93 | 0.00 |

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Data File: /chem/msde.i/10Mar2012.b/e031009.d

Date : 10-MAR-2012 15:38

Client ID: level 6

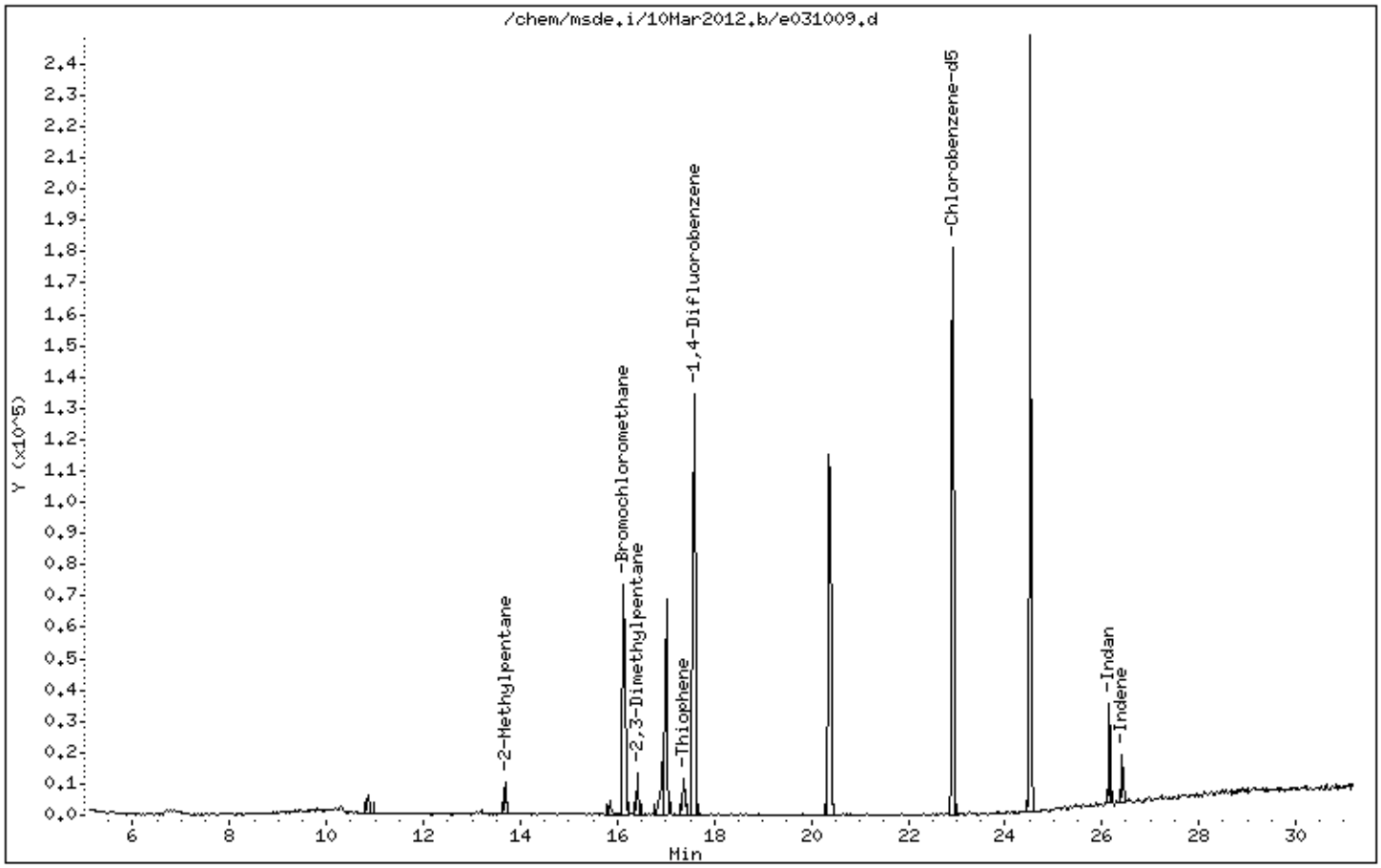
Instrument: msde.i

Sample Info: 25mL #2403-72

Operator: LL

Column phase: RTx-624

Column diameter: 0.32



Air Toxics Ltd.

EPA TO-15/Modified TO14A

Data file : /chem/msde.i/10Mar2012.b/e031003.d
Lab Smp Id: ICAL Client Smp ID: Level 6
Inj Date : 10-MAR-2012 11:13
Operator : cr Inst ID: msde.i
Smp Info : 25mL #2403-8
Misc Info : 0.50ppbv (5.0ppbv) -- AT5
Comment : Low-Level/GC-MS
Method : /chem/msde.i/10Mar2012.b/e12l0308b.m
Meth Date : 10-Mar-2012 13:50 croush Quant Type: ISTD
Cal Date : 10-MAR-2012 11:13 Cal File: e031003.d
Als bottle: 8 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AT5ICAL.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

| Name | Value | Description |
|---|---|---|
| DF | 1.00000 | Dilution Factor |

| | | | | AMOUNTS | | | | |
|---|---|---|---|---|---|---|---|---|
| | | | | CAL-AMT | ON-COL | | | |
| RT | EXP RT (REL RT) | MASS | RESPONSE | ( PPBV) | ( PPBV) | TARGET RANGE | | RATIO |
| == | ====== ======== | ==== | ======== | ======= | ======= | ========== | | ===== |
| * 46 Bromochloromethane | | | | | | CAS #: 74-97-5 | | |
| 16.127 | 16.127 (1.000) | 130 | 54091 | 5.00000 | | 70.00- 130.00 | | 100.00 |
| 16.127 | 16.127 (1.000) | 128 | 41156 | | | 0.00- 30.00 | | 76.09 |
| 16.127 | 16.127 (1.000) | 49 | 48850 | | | 0.00- 30.00 | | 90.31 |
| * 58 1,4-Difluorobenzene | | | | | | CAS #: 540-36-3 | | |
| 17.586 | 17.586 (1.000) | 114 | 192617 | 5.00000 | | 70.00- 130.00 | | 100.00 |
| 17.586 | 17.586 (1.000) | 88 | 34962 | | | 0.00- 30.00 | | 18.15 |
| * 75 Chlorobenzene-d5 | | | | | | CAS #: 3114-55-4 | | |
| 22.927 | 22.927 (1.000) | 117 | 170884 | 5.00000 | | 70.00- 130.00 | | 100.00 |
| 22.927 | 22.927 (1.000) | 82 | 117098 | | | 0.00- 30.00 | | 68.52 |
| 15 Vinyl Bromide | | | | | | CAS #: 593-60-2 | | |
| 11.308 | 11.308 (0.701) | 106 | 8044 | 0.50000 | 0.4870 | 70.00- 130.00 | | 100.00 |
| 11.308 | 11.308 (0.701) | 108 | 8276 | | | 0.00- 30.00 | | 102.88 |

| RT | EXP RT (REL RT) | MASS | RESPONSE | AMOUNTS CAL-AMT ( PPBV) | ON-COL ( PPBV) | TARGET RANGE | RATIO |
|---|---|---|---|---|---|---|---|
| 187 2,3-Dichloropropene | | | | | CAS #: 78-88-6 | | |
| 18.519 | 18.519 (1.148) | 75 | 14981 | 0.50000 | 0.4983 | 70.00- 130.00 | 100.00 |
| 18.519 | 18.519 (1.148) | 77 | 4584 | | | 0.00- 30.00 | 30.60 |
| 18.519 | 18.519 (1.148) | 39 | 6347 | | | 0.00- 30.00 | 42.37 |
| 186 1,1-Dichloropropene | | | | | CAS #: 563-58-6 | | |
| 16.682 | 16.682 (1.034) | 110 | 3748 | 0.50000 | 0.4980 | 70.00- 130.00 | 100.00 |
| 16.682 | 16.682 (1.034) | 75 | 12645 | | | 0.00- 30.00 | 337.38 |
| 79 1,1,1,2-Tetrachloroethane | | | | | CAS #: 630-20-6 | | |
| 23.071 | 23.071 (1.006) | 131 | 13793 | 0.50000 | 0.5269 | 70.00- 130.00 | 100.00 |
| 23.071 | 23.071 (1.006) | 117 | 8920 | | | 0.00- 30.00 | 64.67 |
| 23.071 | 23.071 (1.006) | 95 | 7165 | | | 0.00- 30.00 | 51.95 |
| 91 1,2,3-Trichloropropane | | | | | CAS #: 96-18-4 | | |
| 24.783 | 24.783 (1.081) | 110 | 9387 | 0.50000 | 0.5594 | 70.00- 130.00 | 100.00 |
| 24.783 | 24.783 (1.081) | 75 | 26052 | | | 0.00- 30.00 | 277.53 |
| 24.783 | 24.783 (1.081) | 61 | 4866 | | | 0.00- 30.00 | 51.84 |
| 93 2-Chlorotoluene | | | | | CAS #: 95-49-8 | | |
| 24.938 | 24.938 (1.088) | 126 | 9203 | 0.50000 | 0.5019 | 70.00- 130.00 | 100.00 |
| 24.938 | 24.938 (1.088) | 91 | 36114 | | | 0.00- 30.00 | 392.42 |
| 24.912 | 24.912 (1.087) | 65 | 3543 | | | 0.00- 30.00 | 38.50 |
| 96 4-Chlorotoluene | | | | | CAS #: 106-43-4 | | |
| 25.067 | 25.067 (1.093) | 126 | 13109 | 0.50000 | 0.4836 | 70.00- 130.00 | 100.00 |
| 25.067 | 25.067 (1.093) | 91 | 51242 | | | 0.00- 30.00 | 390.89 |
| 25.067 | 25.067 (1.093) | 57 | 14517 | | | 0.00- 30.00 | 110.74 |
| 97 tert-Butylbenzene | | | | | CAS #: 98-06-6 | | |
| 25.343 | 25.343 (1.105) | 119 | 29669 | 0.50000 | 0.4825 | 70.00- 130.00 | 100.00 |
| 25.343 | 25.343 (1.105) | 134 | 6903 | | | 0.00- 30.00 | 23.27 |
| 25.343 | 25.343 (1.105) | 91 | 23942 | | | 0.00- 30.00 | 80.70 |
| 99 sec-Butylbenzene | | | | | CAS #: 135-98-8 | | |
| 25.589 | 25.589 (1.116) | 105 | 46584 | 0.50000 | 0.4765 | 70.00- 130.00 | 100.00 |
| 25.589 | 25.589 (1.116) | 134 | 8212 | | | 0.00- 30.00 | 17.63 |
| 25.589 | 25.589 (1.116) | 91 | 9011 | | | 0.00- 30.00 | 19.34 |
| 100 p-Cymene | | | | | CAS #: 99-87-6 | | |
| 25.724 | 25.724 (1.122) | 119 | 35249 | 0.50000 | 0.4786 | 70.00- 130.00 | 100.00 |
| 25.724 | 25.724 (1.122) | 134 | 8534 | | | 0.00- 30.00 | 24.21 |
| 25.724 | 25.724 (1.122) | 91 | 9756 | | | 0.00- 30.00 | 27.68 |
| 103 1,2,3-trimethylbenzene | | | | | CAS #: 526-73-8 | | |
| 25.903 | 25.903 (1.130) | 120 | 13967 | 0.50000 | 0.4894 | 70.00- 130.00 | 100.00 |

| RT | EXP RT (REL RT) | MASS | RESPONSE | AMOUNTS CAL-AMT ( PPBV) | AMOUNTS ON-COL ( PPBV) | TARGET RANGE | RATIO |
|---|---|---|---|---|---|---|---|
| 103 1,2,3-trimethylbenzene (continued) | | | | | | | |
| 25.903 | 25.903 (1.130) | 105 | 35088 | | | 0.00- 30.00 | 251.22 |
| 25.903 | 25.903 (1.130) | 77 | 4898 | | | 0.00- 30.00 | 35.07 |
| 107 Butylbenzene | | | | | CAS #: 104-51-8 | | |
| 26.195 | 26.195 (1.143) | 134 | 8053 | 0.50000 | 0.4910 | 70.00- 130.00 | 100.00 |
| 26.195 | 26.195 (1.143) | 91 | 35700 | | | 445.46- 505.46 | 443.31 |
| 26.195 | 26.195 (1.143) | 92 | 19549 | | | 0.00- 30.00 | 242.75 |
| 110 1,2-dibromo-3-chloropropane | | | | | CAS #: 96-12-8 | | |
| 27.226 | 27.226 (1.188) | 157 | 7823 | 0.50000 | 0.4472 | 70.00- 130.00 | 100.00 |
| 27.226 | 27.226 (1.188) | 75 | 9210 | | | 0.00- 30.00 | 117.73 |
| 27.226 | 27.226 (1.188) | 155 | 5746 | | | 0.00- 30.00 | 73.45 |
| 86 1,3-Dichloropropane | | | | | CAS #: 142-28-9 | | |
| 21.660 | 21.660 (1.232) | 76 | 15721 | 0.50000 | 0.5454 | 70.00- 130.00 | 100.00 |
| 21.692 | 21.692 (1.234) | 41 | 6943 | | | 30.10- 90.10 | 44.16 |
| 21.692 | 21.692 (1.234) | 78 | 5160 | | | 0.00- 30.00 | 32.82 |
| 185 Bromobenzene | | | | | CAS #: 108-86-1 | | |
| 24.732 | 24.732 (1.079) | 156 | 13859 | 0.50000 | 0.5052 | 70.00- 130.00 | 100.00 |
| 24.732 | 24.732 (1.079) | 158 | 13498 | | | 0.00- 30.00 | 97.40 |
| 24.732 | 24.732 (1.079) | 77 | 34806 | | | 0.00- 30.00 | 251.14 |

Report Date: 10-Mar-2012 13:50

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msde.i
Lab File ID: e031003.d
Lab Smp Id: ICAL
Analysis Type: VOA
Quant Type: ISTD
Operator: cr
Method File: /chem/msde.i/10Mar2012.b/e12l0308b.m
Misc Info: 0.50ppbv (5.0ppbv) -- AT5

Calibration Date: 10-MAR-2012
Calibration Time: 11:52
Client Smp ID: Level 6
Level: LOW
Sample Type: AIR

| | | AREA LIMIT | | | |
|---|---|---|---|---|---|
| COMPOUND | STANDARD | LOWER | UPPER | SAMPLE | %DIFF |
| 46 Bromochloromethan | 53284 | 31970 | 74598 | 54091 | 1.51 |
| 58 1,4-Difluorobenze | 199260 | 119556 | 278964 | 192617 | -3.33 |
| 75 Chlorobenzene-d5 | 174009 | 104405 | 243613 | 170884 | -1.80 |

| | | RT LIMIT | | | |
|---|---|---|---|---|---|
| COMPOUND | STANDARD | LOWER | UPPER | SAMPLE | %DIFF |
| 46 Bromochloromethan | 16.13 | 15.80 | 16.46 | 16.13 | 0.00 |
| 58 1,4-Difluorobenze | 17.59 | 17.26 | 17.92 | 17.59 | 0.00 |
| 75 Chlorobenzene-d5 | 22.93 | 22.60 | 23.26 | 22.93 | 0.00 |

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Data File: /chem/msde.i/10Mar2012.b/e031003.d

Date : 10-MAR-2012 11:13

Client ID: Level 6

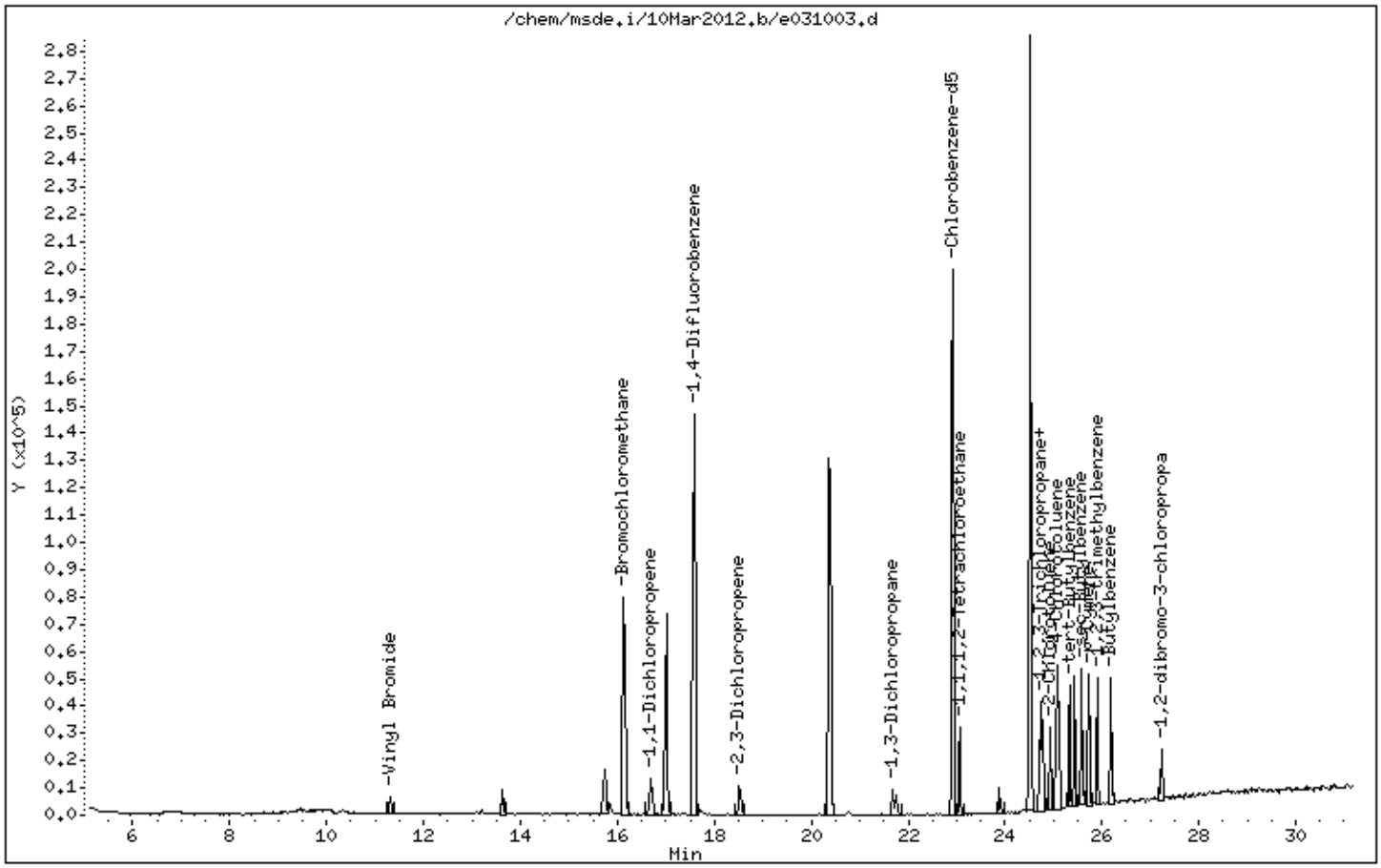
Instrument: msde.i

Sample Info: 25mL #2403-8

Operator: cr

Column phase: RTx-624

Column diameter: 0.32



Air Toxics Ltd.

EPA TO-15/Modified TO14A

Data file : /chem/msde.i/08Mar2012.b/e030812.d
Lab Smp Id: ICAL Client Smp ID: Level 6
Inj Date : 08-MAR-2012 19:17
Operator : srs Inst ID: msde.i
Smp Info : 62.5mL #2403-57
Misc Info : 0.5ppbv (2.0ppbv)
Comment : Low-Level/GC-MS
Method : /chem/msde.i/08Mar2012.b/e12l0308a.m
Meth Date : 09-Mar-2012 15:12 croush Quant Type: ISTD
Cal Date : 08-MAR-2012 19:17 Cal File: e030812.d
Als bottle: 8 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: HILOcrvFULL.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

| Name | Value | Description |
|---|---|---|
| DF | 1.00000 | Dilution Factor |

| | | | | AMOUNTS | | | |
|---|---|---|---|---|---|---|---|
| | | | | CAL-AMT | ON-COL | | |
| RT | EXP RT (REL RT) | MASS | RESPONSE | ( PPBV) | ( PPBV) | TARGET RANGE | RATIO |
| * 46 Bromochloromethane | | | | | CAS #: 74-97-5 | | |
| 16.127 | 16.127 (1.000) | 130 | 66193 | 5.00000 | | 70.00- 130.00 | 100.00 |
| 16.127 | 16.127 (1.000) | 128 | 50605 | | | 0.00- 30.00 | 76.45 |
| 16.127 | 16.127 (1.000) | 49 | 65601 | | | 0.00- 30.00 | 99.11 |
| * 58 1,4-Difluorobenzene | | | | | CAS #: 540-36-3 | | |
| 17.585 | 17.585 (1.000) | 114 | 253683 | 5.00000 | | 70.00- 130.00 | 100.00 |
| 17.585 | 17.585 (1.000) | 88 | 45212 | | | 0.00- 30.00 | 17.82 |
| * 75 Chlorobenzene-d5 | | | | | CAS #: 3114-55-4 | | |
| 22.927 | 22.927 (1.000) | 117 | 217044 | 5.00000 | | 70.00- 130.00 | 100.00 |
| 22.927 | 22.927 (1.000) | 82 | 146088 | | | 0.00- 30.00 | 67.31 |
| $ 54 1,2-Dichloroethane-d4 | | | | | CAS #: 17060-07-0 | | |
| 17.013 | 17.013 (1.055) | 65 | 126062 | 5.00000 | 5.110 | 70.00- 130.00 | 100.00 |
| 17.013 | 17.013 (1.055) | 67 | 60028 | | | 0.00- 30.00 | 47.62 |

| RT | EXP RT (REL RT) | MASS | RESPONSE | AMOUNTS CAL-AMT ( PPBV) | ON-COL ( PPBV) | TARGET RANGE | RATIO |
|---|---|---|---|---|---|---|---|
| $ 67 Toluene-d8 | | | | | CAS #: 2037-26-5 | | |
| 20.368 | 20.368 (1.158) | 98 | 254446 | 5.00000 | 4.980 | 70.00- 130.00 | 100.00 |
| 20.368 | 20.368 (1.158) | 70 | 31601 | | | 0.00- 30.00 | 12.42 |
| 20.368 | 20.368 (1.158) | 100 | 161381 | | | 33.91- 93.91 | 63.42 |
| $ 87 Bromofluorobenzene | | | | | CAS #: 460-00-4 | | |
| 24.525 | 24.525 (1.070) | 174 | 126395 | 5.00000 | 5.091 | 70.00- 130.00 | 100.00 |
| 24.525 | 24.525 (1.070) | 95 | 203866 | | | 125.57- 185.57 | 161.29 |
| 24.525 | 24.525 (1.070) | 176 | 122252 | | | 64.73- 124.73 | 96.72 |
| 2 Propylene | | | | | CAS #: 115-07-1 | | |
| 5.425 | 5.425 (0.336) | 41 | 5472 | 0.50000 | 0.5186 | 70.00- 130.00 | 100.00(M) |
| 5.497 | 5.497 (0.341) | 42 | 3191 | | | 0.00- 30.00 | 58.32 |
| 5.473 | 5.473 (0.339) | 39 | 2928 | | | 0.00- 30.00 | 53.51 |
| 4 Dichlorodifluoromethane/Fr12 | | | | | CAS #: 75-71-8 | | |
| 5.955 | 5.955 (0.369) | 85 | 38932 | 0.50000 | 0.5033 | 70.00- 130.00 | 100.00 |
| 5.955 | 5.955 (0.369) | 87 | 8346 | | | 2.22- 62.22 | 21.44 |
| 6 Freon 114 | | | | | CAS #: 76-14-2 | | |
| 7.353 | 7.353 (0.456) | 135 | 20299 | 0.50000 | 0.5044 | 70.00- 130.00 | 100.00 |
| 7.353 | 7.353 (0.456) | 137 | 6551 | | | 0.00- 30.00 | 32.27 |
| 7 Chloromethane | | | | | CAS #: 74-87-3 | | |
| 7.715 | 7.715 (0.478) | 50 | 6268 | 0.50000 | 0.5483 | 70.00- 130.00 | 100.00 |
| 7.715 | 7.715 (0.478) | 52 | 1706 | | | 0.00- 30.00 | 27.22 |
| 9 Butane | | | | | CAS #: 106-97-8 | | |
| 8.404 | 8.404 (0.521) | 58 | 1220 | 0.50000 | 0.3101 | 70.00- 130.00 | 100.00(a) |
| 8.404 | 8.404 (0.521) | 43 | 10978 | | | 0.00- 30.00 | 899.84 |
| 10 Vinyl Chloride | | | | | CAS #: 75-01-4 | | |
| 8.543 | 8.543 (0.530) | 62 | 8598 | 0.50000 | 0.4765 | 70.00- 130.00 | 100.00(a) |
| 8.543 | 8.543 (0.530) | 64 | 2802 | | | 2.55- 62.55 | 32.59 |
| 11 1,3-Butadiene | | | | | CAS #: 106-99-0 | | |
| 8.786 | 8.786 (0.545) | 54 | 5424 | 0.50000 | 0.4783 | 70.00- 130.00 | 100.00(a) |
| 8.786 | 8.786 (0.545) | 39 | 5368 | | | 0.00- 30.00 | 98.97 |
| 12 Bromomethane | | | | | CAS #: 74-83-9 | | |
| 10.272 | 10.272 (0.637) | 94 | 10782 | 0.50000 | 0.5404 | 70.00- 130.00 | 100.00 |
| 10.272 | 10.272 (0.637) | 96 | 10567 | | | 65.25- 125.25 | 98.01 |
| 13 Chloroethane | | | | | CAS #: 75-00-3 | | |
| 10.728 | 10.728 (0.665) | 64 | 5268 | 0.50000 | 0.5479 | 70.00- 130.00 | 100.00 |
| 10.728 | 10.728 (0.665) | 49 | 1043 | | | 0.00- 30.00 | 19.80 |

| RT | EXP RT (REL RT) | MASS | RESPONSE | AMOUNTS CAL-AMT ( PPBV) | ON-COL ( PPBV) | TARGET RANGE | RATIO |
|---|---|---|---|---|---|---|---|
| 13 Chloroethane (continued) | | | | | | | |
| 10.728 | 10.728 (0.665) | 66 | 1689 | | | 0.00- 30.00 | 32.06 |
| 14 Isopentane | | | | | CAS #: 78-78-4 | | |
| 10.852 | 10.852 (0.673) | 57 | 5640 | 0.50000 | 0.4644 | 70.00- 130.00 | 100.00(a) |
| 10.852 | 10.852 (0.673) | 43 | 6385 | | | 0.00- 30.00 | 113.21 |
| 10.873 | 10.873 (0.674) | 42 | 5661 | | | 0.00- 30.00 | 100.37 |
| 16 Trichlorofluoromethane/Fr11 | | | | | CAS #: 75-69-4 | | |
| 11.474 | 11.474 (0.711) | 101 | 39155 | 0.50000 | 0.4800 | 70.00- 130.00 | 100.00(a) |
| 11.474 | 11.474 (0.711) | 103 | 26210 | | | 36.02- 96.02 | 66.94 |
| 18 Ethanol | | | | | CAS #: 64-17-5 | | |
| 12.344 | 12.344 (0.765) | 45 | 1736 | 0.50000 | 0.4076 | 70.00- 130.00 | 100.00(Ta) |
| 0.000 | 1.000 (0.000) | 46 | 0 | | | 0.00- 30.00 | 0.00 |
| 0.000 | 1.000 (0.000) | 43 | 0 | | | 0.00- 30.00 | 0.00 |
| 19 Freon 113 | | | | | CAS #: 76-13-1 | | |
| 12.800 | 12.800 (0.794) | 151 | 17971 | 0.50000 | 0.5210 | 70.00- 130.00 | 100.00 |
| 12.800 | 12.800 (0.794) | 153 | 11113 | | | 34.27- 94.27 | 61.84 |
| 12.800 | 12.800 (0.794) | 101 | 23447 | | | 0.00- 30.00 | 130.47 |
| 21 1,1-Dichloroethene | | | | | CAS #: 75-35-4 | | |
| 12.821 | 12.821 (0.795) | 98 | 5247 | 0.50000 | 0.4473 | 70.00- 130.00 | 100.00(a) |
| 12.821 | 12.821 (0.795) | 61 | 13321 | | | 0.00- 30.00 | 253.88 |
| 12.821 | 12.821 (0.795) | 96 | 8622 | | | 0.00- 30.00 | 164.32 |
| 22 Acetone | | | | | CAS #: 67-64-1 | | |
| 13.070 | 13.070 (0.810) | 58 | 3434 | 0.50000 | 0.4590 | 70.00- 130.00 | 100.00(a) |
| 13.070 | 13.070 (0.810) | 43 | 11474 | | | 0.00- 30.00 | 334.13 |
| 25 2-Propanol | | | | | CAS #: 67-63-0 | | |
| 13.381 | 13.381 (0.830) | 45 | 7873 | 0.50000 | 0.3893 | 70.00- 130.00 | 100.00(Ta) |
| 13.381 | 13.381 (0.830) | 43 | 2665 | | | 0.00- 30.00 | 33.85 |
| 0.000 | 1.000 (0.000) | 59 | 0 | | | 0.00- 30.00 | 0.00 |
| 23 Carbon Disulfide | | | | | CAS #: 75-15-0 | | |
| 13.194 | 13.194 (0.818) | 76 | 26554 | 0.50000 | 0.5395 | 70.00- 130.00 | 100.00 |
| 26 3-Chloroprene | | | | | CAS #: 107-05-1 | | |
| 13.588 | 13.588 (0.843) | 76 | 3062 | 0.50000 | 0.4218 | 70.00- 130.00 | 100.00(a) |
| 13.588 | 13.588 (0.843) | 41 | 4806 | | | 0.00- 30.00 | 156.96 |
| 29 Methylene Chloride | | | | | CAS #: 75-09-2 | | |
| 13.885 | 13.885 (0.861) | 84 | 4789 | 0.50000 | 0.5186 | 70.00- 130.00 | 100.00(T) |
| 0.000 | 1.000 (0.000) | 49 | 0 | | | 0.00- 30.00 | 0.00 |

| RT | EXP RT (REL RT) | MASS | RESPONSE | AMOUNTS CAL-AMT ( PPBV) | ON-COL ( PPBV) | TARGET RANGE | RATIO |
|---|---|---|---|---|---|---|---|
| 29 Methylene Chloride (continued) | | | | | | | |
| 0.000 | 1.000 (0.000) | 51 | 0 | | | 0.00- 30.00 | 0.00 |
| 30 tert-butyl alcohol | | | | | | CAS #: 75-65-0 | |
| 14.022 | 14.022 (0.869) | 59 | 6476 | 0.50000 | 0.3377 | 70.00- 130.00 | 100.00(a) |
| 14.022 | 14.022 (0.869) | 41 | 1515 | | | 0.00- 30.00 | 23.39 |
| 14.050 | 14.050 (0.871) | 57 | 652 | | | 0.00- 30.00 | 10.07 |
| 31 MTBE | | | | | | CAS #: 1634-04-4 | |
| 14.187 | 14.187 (0.880) | 73 | 24869 | 0.50000 | 0.4181 | 70.00- 130.00 | 100.00(a) |
| 14.187 | 14.187 (0.880) | 57 | 3992 | | | 0.00- 30.00 | 16.05 |
| 14.187 | 14.187 (0.880) | 41 | 4734 | | | 0.00- 30.00 | 19.04 |
| 32 trans-1,2-Dichloroethene | | | | | | CAS #: 156-60-5 | |
| 14.242 | 14.242 (0.883) | 98 | 5999 | 0.50000 | 0.4774 | 70.00- 130.00 | 100.00(a) |
| 14.242 | 14.242 (0.883) | 61 | 12316 | | | 0.00- 30.00 | 205.30 |
| 14.242 | 14.242 (0.883) | 96 | 9890 | | | 0.00- 30.00 | 164.86 |
| 35 Hexane | | | | | | CAS #: 110-54-3 | |
| 14.544 | 14.544 (0.902) | 57 | 9693 | 0.50000 | 0.4494 | 70.00- 130.00 | 100.00(a) |
| 14.517 | 14.517 (0.900) | 43 | 5023 | | | 0.00- 30.00 | 51.82 |
| 14.544 | 14.544 (0.902) | 86 | 2047 | | | 0.00- 30.00 | 21.12 |
| 36 Isopropyl ether | | | | | | CAS #: 108-20-3 | |
| 14.873 | 14.873 (0.922) | 45 | 9329 | 0.50000 | 0.3988 | 70.00- 130.00 | 100.00(Ta) |
| 14.873 | 14.873 (0.922) | 87 | 3912 | | | 0.00- 30.00 | 41.93 |
| 0.000 | 1.000 (0.000) | 59 | 0 | | | 0.00- 30.00 | 0.00 |
| 37 1,1-Dichloroethane | | | | | | CAS #: 75-34-3 | |
| 14.956 | 14.956 (0.927) | 63 | 17684 | 0.50000 | 0.4979 | 70.00- 130.00 | 100.00(a) |
| 14.956 | 14.956 (0.927) | 65 | 6153 | | | 0.00- 30.00 | 34.79 |
| 38 Vinyl Acetate | | | | | | CAS #: 108-05-4 | |
| 14.956 | 14.956 (0.927) | 86 | 1820 | 0.50000 | 0.3468 | 70.00- 130.00 | 100.00(a) |
| 14.956 | 14.956 (0.927) | 42 | 1167 | | | 0.00- 30.00 | 64.12 |
| 14.956 | 14.956 (0.927) | 43 | 12437 | | | 0.00- 30.00 | 683.35 |
| 40 Ethyl-tert-butyl ether | | | | | | CAS #: 637-92-3 | |
| 15.368 | 15.368 (0.953) | 59 | 13386 | 0.50000 | 0.4110 | 70.00- 130.00 | 100.00(a) |
| 15.368 | 15.368 (0.953) | 87 | 7256 | | | 0.00- 30.00 | 54.21 |
| 15.368 | 15.368 (0.953) | 41 | 2840 | | | 0.00- 30.00 | 21.22 |
| 42 2-Butanone | | | | | | CAS #: 78-93-3 | |
| 15.766 | 15.766 (0.978) | 72 | 5677 | 0.50000 | 0.4186 | 70.00- 130.00 | 100.00(a) |
| 15.766 | 15.766 (0.978) | 43 | 13991 | | | 0.00- 30.00 | 246.45 |
| 15.787 | 15.787 (0.979) | 57 | 854 | | | 0.00- 30.00 | 15.04 |

| RT | EXP RT (REL RT) | MASS | RESPONSE | AMOUNTS CAL-AMT ( PPBV) | ON-COL ( PPBV) | TARGET RANGE | RATIO |
|---|---|---|---|---|---|---|---|
| 41 cis-1,2-Dichloroethene | | | | | | CAS #: 156-59-2 | |
| 15.787 | 15.787 (0.979) | 98 | 9056 | 0.50000 | 0.4793 | 70.00- 130.00 | 100.00(a) |
| 15.787 | 15.787 (0.979) | 61 | 18335 | | | 0.00- 30.00 | 202.46 |
| 15.787 | 15.787 (0.979) | 96 | 14943 | | | 124.52- 184.52 | 165.01 |
| 44 Tetrahydrofuran | | | | | | CAS #: 109-99-9 | |
| 16.127 | 16.127 (1.000) | 42 | 5453 | 0.50000 | 0.4033 | 70.00- 130.00 | 100.00(a) |
| 16.127 | 16.127 (1.000) | 71 | 3462 | | | 0.00- 30.00 | 63.49 |
| 16.127 | 16.127 (1.000) | 72 | 3808 | | | 0.00- 30.00 | 69.83 |
| 47 Chloroform | | | | | | CAS #: 67-66-3 | |
| 16.189 | 16.189 (1.004) | 83 | 26124 | 0.50000 | 0.4805 | 70.00- 130.00 | 100.00(a) |
| 16.189 | 16.189 (1.004) | 85 | 16903 | | | 0.00- 30.00 | 64.70 |
| 49 1,1,1-Trichloroethane | | | | | | CAS #: 71-55-6 | |
| 16.466 | 16.466 (1.021) | 97 | 30110 | 0.50000 | 0.4846 | 70.00- 130.00 | 100.00(a) |
| 16.466 | 16.466 (1.021) | 99 | 19365 | | | 0.00- 30.00 | 64.31 |
| 48 Cyclohexane | | | | | | CAS #: 110-82-7 | |
| 16.466 | 16.466 (1.021) | 84 | 12662 | 0.50000 | 0.4362 | 70.00- 130.00 | 100.00(a) |
| 16.466 | 16.466 (1.021) | 56 | 9953 | | | 0.00- 30.00 | 78.61 |
| 16.466 | 16.466 (1.021) | 41 | 5816 | | | 0.00- 30.00 | 45.93 |
| 51 Carbon Tetrachloride | | | | | | CAS #: 56-23-5 | |
| 16.651 | 16.651 (1.032) | 119 | 13127 | 0.50000 | 0.2824 | 70.00- 130.00 | 100.00(a) |
| 16.651 | 16.651 (1.032) | 117 | 13737 | | | 0.00- 30.00 | 104.65 |
| 52 2,2,4-Trimethylpentane | | | | | | CAS #: 540-84-1 | |
| 16.925 | 16.925 (1.049) | 56 | 14073 | 0.50000 | 0.4232 | 70.00- 130.00 | 100.00(a) |
| 16.925 | 16.925 (1.049) | 57 | 42226 | | | 0.00- 30.00 | 300.05 |
| 16.925 | 16.925 (1.049) | 41 | 13386 | | | 0.00- 30.00 | 95.12 |
| 53 Benzene | | | | | | CAS #: 71-43-2 | |
| 17.013 | 17.013 (0.967) | 78 | 32400 | 0.50000 | 0.4979 | 70.00- 130.00 | 100.00(a) |
| 17.013 | 17.013 (0.967) | 77 | 7187 | | | 0.00- 30.00 | 22.18 |
| 55 tert-amyl methyl ether | | | | | | CAS #: 994-05-8 | |
| 17.042 | 17.042 (0.969) | 87 | 4002 | 0.50000 | 0.4173 | 70.00- 130.00 | 100.00(a) |
| 17.042 | 17.042 (0.969) | 73 | 16160 | | | 0.00- 30.00 | 403.80 |
| 17.042 | 17.042 (0.969) | 55 | 4751 | | | 0.00- 30.00 | 118.72 |
| 56 1,2-Dichloroethane | | | | | | CAS #: 107-06-2 | |
| 17.129 | 17.129 (0.974) | 62 | 17936 | 0.50000 | 0.4888 | 70.00- 130.00 | 100.00(a) |
| 17.129 | 17.129 (0.974) | 64 | 5494 | | | 0.00- 30.00 | 30.63 |
| 57 Heptane | | | | | | CAS #: 142-82-5 | |
| 17.159 | 17.159 (0.976) | 57 | 6447 | 0.50000 | 0.4793 | 70.00- 130.00 | 100.00(a) |

| RT | EXP RT (REL RT) | MASS | RESPONSE | AMOUNTS CAL-AMT ( PPBV) | ON-COL ( PPBV) | TARGET RANGE | RATIO |
|---|---|---|---|---|---|---|---|
| 57 Heptane (continued) | | | | | | | |
| 17.159 | 17.159 (0.976) | 100 | 3526 | | | 0.00- 30.00 | 54.69 |
| 17.159 | 17.159 (0.976) | 43 | 8952 | | | 0.00- 30.00 | 138.86 |
| 59 Trichloroethene | | | | | CAS #: 79-01-6 | | |
| 18.025 | 18.025 (1.025) | 130 | 12646 | 0.50000 | 0.4400 | 70.00- 130.00 | 100.00(a) |
| 18.025 | 18.025 (1.025) | 95 | 14602 | | | 0.00- 30.00 | 115.47 |
| 17.997 | 17.997 (1.023) | 97 | 9839 | | | 0.00- 30.00 | 77.80 |
| 60 Methylcyclohexane | | | | | CAS #: 108-87-2 | | |
| 18.272 | 18.272 (1.039) | 83 | 16165 | 0.50000 | 0.4354 | 70.00- 130.00 | 100.00(a) |
| 18.272 | 18.272 (1.039) | 55 | 9632 | | | 0.00- 30.00 | 59.59 |
| 18.272 | 18.272 (1.039) | 56 | 3046 | | | 0.00- 30.00 | 18.84 |
| 61 1,2-Dichloropropane | | | | | CAS #: 78-87-5 | | |
| 18.519 | 18.519 (1.053) | 63 | 9300 | 0.50000 | 0.4648 | 70.00- 130.00 | 100.00(a) |
| 18.519 | 18.519 (1.053) | 62 | 6643 | | | 0.00- 30.00 | 71.43 |
| 18.519 | 18.519 (1.053) | 41 | 6008 | | | 29.06- 89.06 | 64.60 |
| 62 1,4-Dioxane | | | | | CAS #: 123-91-1 | | |
| 18.629 | 18.629 (1.059) | 88 | 6347 | 0.50000 | 0.4448 | 70.00- 130.00 | 100.00(Ta) |
| 18.629 | 18.629 (1.059) | 58 | 2754 | | | 0.00- 30.00 | 43.39 |
| 0.000 | 1.000 (0.000) | 57 | 0 | | | 0.00- 30.00 | 0.00 |
| 63 Bromodichloromethane | | | | | CAS #: 75-27-4 | | |
| 18.958 | 18.958 (1.078) | 83 | 24957 | 0.50000 | 0.4465 | 70.00- 130.00 | 100.00(a) |
| 18.958 | 18.958 (1.078) | 85 | 15727 | | | 0.00- 30.00 | 63.02 |
| 64 cis-1,3-Dichloropropene | | | | | CAS #: 10061-01-5 | | |
| 19.865 | 19.865 (1.130) | 75 | 15376 | 0.50000 | 0.4441 | 70.00- 130.00 | 100.00(a) |
| 19.865 | 19.865 (1.130) | 77 | 4776 | | | 0.00- 30.00 | 31.06 |
| 19.865 | 19.865 (1.130) | 39 | 5962 | | | 10.38- 70.38 | 38.77 |
| 65 4-Methyl-2-pentanone | | | | | CAS #: 108-10-1 | | |
| 20.076 | 20.076 (1.142) | 43 | 8729 | 0.50000 | 0.3375 | 70.00- 130.00 | 100.00(a) |
| 20.076 | 20.076 (1.142) | 58 | 4302 | | | 0.00- 30.00 | 49.28 |
| 20.076 | 20.076 (1.142) | 85 | 2508 | | | 0.00- 30.00 | 28.73 |
| 68 Toluene | | | | | CAS #: 108-88-3 | | |
| 20.525 | 20.525 (1.167) | 91 | 36155 | 0.50000 | 0.4656 | 70.00- 130.00 | 100.00(a) |
| 20.525 | 20.525 (1.167) | 92 | 20913 | | | 0.00- 30.00 | 57.84 |
| 69 trans-1,3-Dichloropropene | | | | | CAS #: 10061-02-6 | | |
| 20.995 | 20.995 (0.916) | 75 | 15848 | 0.50000 | 0.3405 | 70.00- 130.00 | 100.00(a) |
| 20.995 | 20.995 (0.916) | 77 | 5030 | | | 0.00- 30.00 | 31.74 |
| 20.995 | 20.995 (0.916) | 39 | 5355 | | | 4.84- 64.84 | 33.79 |

| RT | EXP RT (REL RT) | MASS | RESPONSE | AMOUNTS CAL-AMT ( PPBV) | ON-COL ( PPBV) | TARGET RANGE | RATIO |
|---|---|---|---|---|---|---|---|
| 70 1,1,2-Trichloroethane | | | | | CAS #: 79-00-5 | | |
| 21.335 | 21.335 (0.931) | 97 | 12769 | 0.50000 | 0.4554 | 70.00- 130.00 | 100.00(a) |
| 21.335 | 21.335 (0.931) | 99 | 7696 | | | 0.00- 30.00 | 60.27 |
| 21.335 | 21.335 (0.931) | 83 | 11615 | | | 52.76- 112.76 | 90.96 |
| 71 Tetrachloroethene | | | | | CAS #: 127-18-4 | | |
| 21.497 | 21.497 (0.938) | 166 | 16492 | 0.50000 | 0.5067 | 70.00- 130.00 | 100.00 |
| 21.497 | 21.497 (0.938) | 129 | 13916 | | | 0.00- 30.00 | 84.38 |
| 21.497 | 21.497 (0.938) | 131 | 12732 | | | 0.00- 30.00 | 77.20 |
| 72 2-Hexanone | | | | | CAS #: 591-78-6 | | |
| 21.660 | 21.660 (0.945) | 58 | 5372 | 0.50000 | 0.3027 | 70.00- 130.00 | 100.00(a) |
| 21.660 | 21.660 (0.945) | 43 | 8893 | | | 0.00- 30.00 | 165.54 |
| 21.660 | 21.660 (0.945) | 100 | 1564 | | | 0.00- 30.00 | 29.11 |
| 73 Dibromochloromethane | | | | | CAS #: 124-48-1 | | |
| 22.018 | 22.018 (0.960) | 129 | 19820 | 0.50000 | 0.4154 | 70.00- 130.00 | 100.00(a) |
| 22.018 | 22.018 (0.960) | 127 | 14462 | | | 0.00- 30.00 | 72.97 |
| 74 1,2-Dibromoethane | | | | | CAS #: 106-93-4 | | |
| 22.278 | 22.278 (0.972) | 107 | 19302 | 0.50000 | 0.4488 | 70.00- 130.00 | 100.00(a) |
| 22.278 | 22.278 (0.972) | 109 | 17061 | | | 0.00- 30.00 | 88.39 |
| 76 Chlorobenzene | | | | | CAS #: 108-90-7 | | |
| 22.951 | 22.951 (1.001) | 112 | 30007 | 0.50000 | 0.4851 | 70.00- 130.00 | 100.00(a) |
| 22.951 | 22.951 (1.001) | 114 | 9590 | | | 0.00- 30.00 | 31.96 |
| 22.951 | 22.951 (1.001) | 77 | 22168 | | | 36.24- 96.24 | 73.88 |
| 77 Ethyl Benzene | | | | | CAS #: 100-41-4 | | |
| 23.023 | 23.023 (1.004) | 106 | 13344 | 0.50000 | 0.4415 | 70.00- 130.00 | 100.00(a) |
| 23.023 | 23.023 (1.004) | 91 | 47114 | | | 0.00- 30.00 | 353.07 |
| 80 m,p-Xylene | | | | | CAS #: 108-38-3 | | |
| 23.192 | 23.192 (1.012) | 106 | 15840 | 0.50000 | 0.4356 | 70.00- 130.00 | 100.00(a) |
| 23.192 | 23.192 (1.012) | 91 | 35411 | | | 0.00- 30.00 | 223.55 |
| 81 o-Xylene | | | | | CAS #: 95-47-6 | | |
| 23.770 | 23.770 (1.037) | 106 | 15012 | 0.50000 | 0.4294 | 70.00- 130.00 | 100.00(a) |
| 23.770 | 23.770 (1.037) | 91 | 35755 | | | 0.00- 30.00 | 238.18 |
| 83 Styrene | | | | | CAS #: 100-42-5 | | |
| 23.818 | 23.818 (1.039) | 104 | 19853 | 0.50000 | 0.3762 | 70.00- 130.00 | 100.00(a) |
| 23.794 | 23.794 (1.038) | 78 | 12280 | | | 0.00- 30.00 | 61.85 |
| 84 Bromoform | | | | | CAS #: 75-25-2 | | |
| 24.131 | 24.131 (1.053) | 173 | 15933 | 0.50000 | 0.3863 | 70.00- 130.00 | 100.00(a) |

| RT | EXP RT (REL RT) | MASS | RESPONSE | AMOUNTS CAL-AMT ( PPBV) | ON-COL ( PPBV) | TARGET RANGE | RATIO |
|---|---|---|---|---|---|---|---|
| 84 Bromoform (continued) | | | | | | | |
| 24.131 | 24.131 (1.053) | 171 | 8002 | | | 0.00- 30.00 | 50.22 |
| 85 Cumene | | | | | CAS #: 98-82-8 | | |
| 24.228 | 24.228 (1.057) | 105 | 48800 | 0.50000 | 0.4311 | 70.00- 130.00 | 100.00(a) |
| 24.228 | 24.228 (1.057) | 120 | 10727 | | | 0.00- 30.00 | 21.98 |
| 89 1,1,2,2-Tetrachloroethane | | | | | CAS #: 79-34-5 | | |
| 24.680 | 24.680 (1.076) | 83 | 29637 | 0.50000 | 0.5066 | 70.00- 130.00 | 100.00 |
| 24.680 | 24.680 (1.076) | 85 | 18286 | | | 0.00- 30.00 | 61.70 |
| 90 Propylbenzene | | | | | CAS #: 103-65-1 | | |
| 24.758 | 24.758 (1.080) | 91 | 65600 | 0.50000 | 0.4525 | 70.00- 130.00 | 100.00(a) |
| 24.758 | 24.758 (1.080) | 120 | 12417 | | | 0.00- 30.00 | 18.93 |
| 92 4-Ethyltoluene | | | | | CAS #: 622-96-8 | | |
| 24.886 | 24.886 (1.085) | 105 | 52690 | 0.50000 | 0.4232 | 70.00- 130.00 | 100.00(a) |
| 24.886 | 24.886 (1.085) | 120 | 14922 | | | 0.00- 30.00 | 28.32 |
| 94 1,3,5-Trimethylbenzene | | | | | CAS #: 108-67-8 | | |
| 24.964 | 24.964 (1.089) | 105 | 46070 | 0.50000 | 0.4299 | 70.00- 130.00 | 100.00(a) |
| 24.964 | 24.964 (1.089) | 120 | 19665 | | | 0.00- 30.00 | 42.69 |
| 98 1,2,4-Trimethylbenzene | | | | | CAS #: 95-63-6 | | |
| 25.410 | 25.410 (1.108) | 105 | 37124 | 0.50000 | 0.3935 | 70.00- 130.00 | 100.00(a) |
| 25.410 | 25.410 (1.108) | 120 | 16102 | | | 0.00- 30.00 | 43.37 |
| 101 1,3-Dichlorobenzene | | | | | CAS #: 541-73-1 | | |
| 25.791 | 25.791 (1.125) | 146 | 28016 | 0.50000 | 0.4685 | 70.00- 130.00 | 100.00(a) |
| 25.791 | 25.791 (1.125) | 148 | 18687 | | | 0.00- 30.00 | 66.70 |
| 25.791 | 25.791 (1.125) | 111 | 13720 | | | 0.00- 30.00 | 48.97 |
| 104 1,4-Dichlorobenzene | | | | | CAS #: 106-46-7 | | |
| 25.903 | 25.903 (1.130) | 146 | 28366 | 0.50000 | 0.4741 | 70.00- 130.00 | 100.00(a) |
| 25.903 | 25.903 (1.130) | 148 | 17802 | | | 0.00- 30.00 | 62.76 |
| 25.903 | 25.903 (1.130) | 111 | 12561 | | | 0.00- 30.00 | 44.28 |
| 105 alpha-chlorotoluene | | | | | CAS #: 100-44-7 | | |
| 26.060 | 26.060 (1.137) | 91 | 38005 | 0.50000 | 0.4170 | 70.00- 130.00 | 100.00(a) |
| 26.060 | 26.060 (1.137) | 126 | 6367 | | | 0.00- 30.00 | 16.75 |
| 108 1,2-Dichlorobenzene | | | | | CAS #: 95-50-1 | | |
| 26.352 | 26.352 (1.149) | 146 | 26309 | 0.50000 | 0.4638 | 70.00- 130.00 | 100.00(a) |
| 26.352 | 26.352 (1.149) | 148 | 16554 | | | 34.07- 94.07 | 62.92 |
| 26.352 | 26.352 (1.149) | 111 | 12874 | | | 19.87- 79.87 | 48.93 |

| RT | EXP RT (REL RT) | MASS | RESPONSE | AMOUNTS CAL-AMT ( PPBV) | AMOUNTS ON-COL ( PPBV) | TARGET RANGE | RATIO |
|---|---|---|---|---|---|---|---|
| 112 1,2,4-Trichlorobenzene | | | | | CAS #: 120-82-1 | | |
| 28.145 | 28.145 (1.228) | 180 | 16690 | 0.50000 | 0.4501 | 70.00- 130.00 | 100.00(a) |
| 28.145 | 28.145 (1.228) | 182 | 16197 | | | 0.00- 30.00 | 97.05 |
| 113 Hexachlorobutadiene | | | | | CAS #: 87-68-3 | | |
| 28.235 | 28.235 (1.232) | 225 | 16129 | 0.50000 | 0.4868 | 70.00- 130.00 | 100.00(a) |
| 28.235 | 28.235 (1.232) | 223 | 10071 | | | 0.00- 30.00 | 62.44 |
| 114 Naphthalene | | | | | CAS #: 91-20-3 | | |
| 28.504 | 28.504 (1.243) | 128 | 2742 | 0.05000 | 0.03473 | 70.00- 130.00 | 100.00(Ta) |
| 0.000 | 1.000 (0.000) | 127 | 0 | | | 0.00- 30.00 | 0.00 |

## QC Flag Legend

T - Target compound detected outside RT window.
a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.

Report Date: 09-Mar-2012 15:12

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msde.i
Lab File ID: e030812.d
Lab Smp Id: ICAL
Analysis Type: VOA
Quant Type: ISTD
Operator: srs
Method File: /chem/msde.i/08Mar2012.b/e12l0308a.m
Misc Info: 0.5ppbv (2.0ppbv)

Calibration Date: 08-MAR-2012
Calibration Time: 22:56
Client Smp ID: Level 6
Level: LOW
Sample Type: AIR

| | | AREA LIMIT | | | |
|---|---|---|---|---|---|
| COMPOUND | STANDARD | LOWER | UPPER | SAMPLE | %DIFF |
| 46 Bromochloromethan | 73839 | 44303 | 103375 | 66193 | -10.35 |
| 58 1,4-Difluorobenze | 285440 | 171264 | 399616 | 253683 | -11.13 |
| 75 Chlorobenzene-d5 | 243451 | 146071 | 340831 | 217044 | -10.85 |

| | | RT LIMIT | | | |
|---|---|---|---|---|---|
| COMPOUND | STANDARD | LOWER | UPPER | SAMPLE | %DIFF |
| 46 Bromochloromethan | 16.13 | 15.80 | 16.46 | 16.13 | 0.00 |
| 58 1,4-Difluorobenze | 17.59 | 17.26 | 17.92 | 17.59 | 0.00 |
| 75 Chlorobenzene-d5 | 22.93 | 22.60 | 23.26 | 22.93 | 0.00 |

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Data File: /chem/msde.i/08Mar2012.b/e030812.d

Date : 08-MAR-2012 19:17

Client ID: Level 6

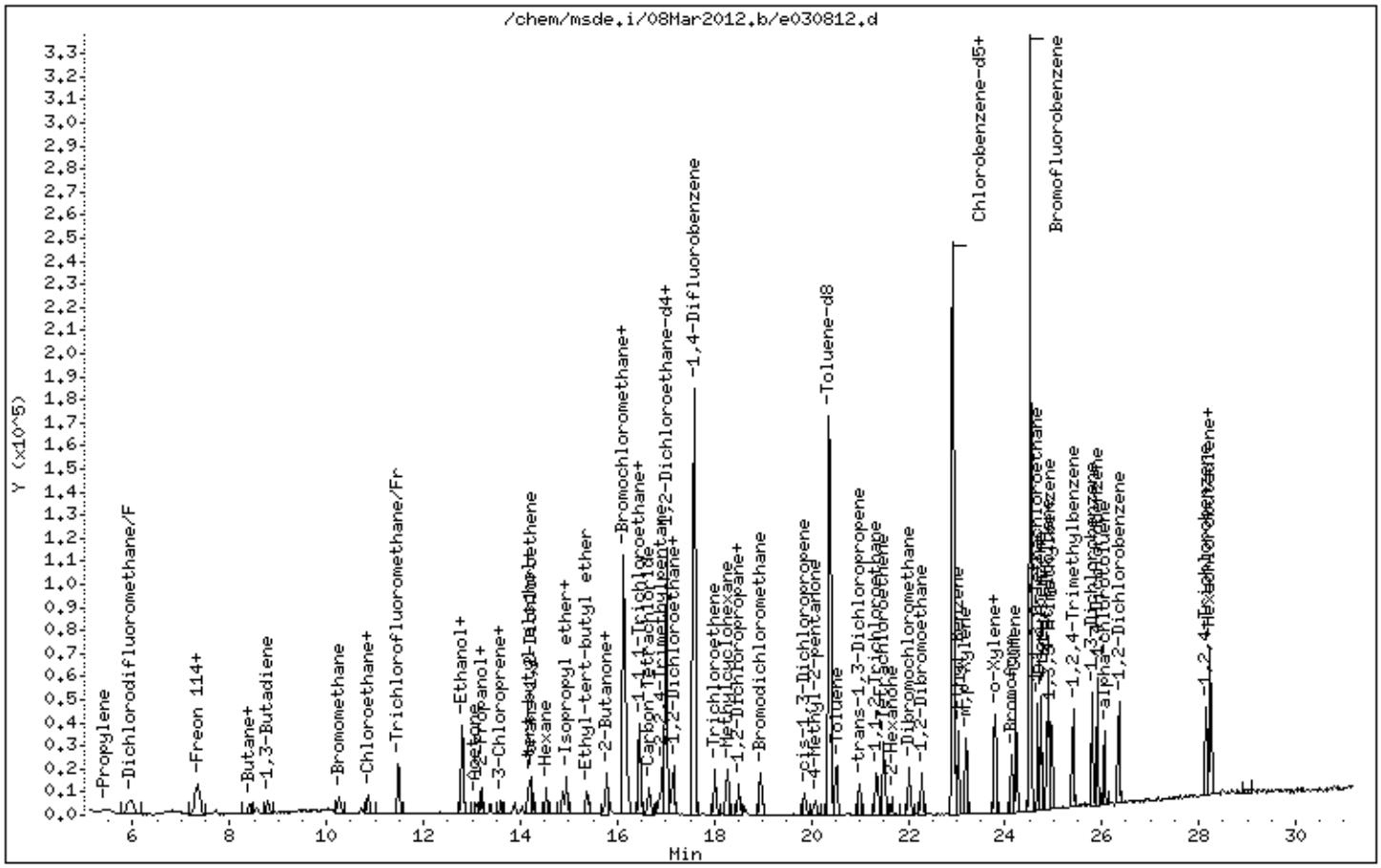
Instrument: msde.i

Sample Info: 62.5mL #2403-57

Operator: srs

Column phase: RTx-624

Column diameter: 0.32



Air Toxics Ltd.

EPA TO-15/Modified TO14A

Data file : /chem/msde.i/10Mar2012.b/e031014.d
Lab Smp Id: ICAL Client Smp ID: Level 7
Inj Date : 10-MAR-2012 19:22
Operator : LL Inst ID: msde.i
Smp Info : 250mL #2370-131
Misc Info : 2.0ppbv (5.0ppbv) -- TVH
Comment : Low-Level/GC-MS
Method : /chem/msde.i/10Mar2012.b/e12l0308b.m
Meth Date : 12-Mar-2012 07:12 croush Quant Type: ISTD
Cal Date : 10-MAR-2012 19:22 Cal File: e031014.d
Als bottle: 4 Calibration Sample, Level: 7
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: BP.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

| Name | Value | Description |
|---|---|---|
| DF | 1.00000 | Dilution Factor |

| RT | EXP RT (REL RT) | MASS | RESPONSE | AMOUNTS CAL-AMT ( PPBV) | AMOUNTS ON-COL ( PPBV) | TARGET RANGE | RATIO |
|---|---|---|---|---|---|---|---|
| * 46 Bromochloromethane | | | | | CAS #: 74-97-5 | | |
| 16.127 | 16.127 (1.000) | 130 | 50246 | 5.00000 | | 70.00- 130.00 | 100.00 |
| 16.127 | 16.127 (1.000) | 128 | 36660 | | | 0.00- 30.00 | 72.96 |
| 16.127 | 16.127 (1.000) | 49 | 47786 | | | 0.00- 30.00 | 95.10 |
| * 58 1,4-Difluorobenzene | | | | | CAS #: 540-36-3 | | |
| 17.585 | 17.585 (1.000) | 114 | 182154 | 5.00000 | | 70.00- 130.00 | 100.00 |
| 17.585 | 17.585 (1.000) | 88 | 33616 | | | 0.00- 30.00 | 18.45 |
| * 75 Chlorobenzene-d5 | | | | | CAS #: 3114-55-4 | | |
| 22.927 | 22.927 (1.000) | 117 | 152322 | 5.00000 | | 70.00- 130.00 | 100.00 |
| 22.927 | 22.927 (1.000) | 82 | 103075 | | | 0.00- 30.00 | 67.67 |
| 17 Pentane | | | | | CAS #: 109-66-0 | | |
| 11.660 | 11.660 (0.723) | 43 | 18408 | 2.00000 | 1.943 | 70.00- 130.00 | 100.00 |
| 11.681 | 11.681 (0.724) | 57 | 3803 | | | 0.00- 47.76 | 20.66 |
| 11.681 | 11.681 (0.724) | 72 | 3990 | | | 0.00- 30.00 | 21.68 |

| RT | EXP RT (REL RT) | MASS | RESPONSE | AMOUNTS CAL-AMT ( PPBV) | ON-COL ( PPBV) | TARGET RANGE | RATIO |
|---|---|---|---|---|---|---|---|
| 66 Octane | | | | | CAS #: 111-65-9 | | |
| 20.412 | 20.412 (1.161) | 57 | 12728 | 2.00000 | 1.948 | 70.00- 130.00 | 100.00 |
| 20.412 | 20.412 (1.161) | 85 | 22473 | | | 0.00- 30.00 | 176.56 |
| 20.412 | 20.412 (1.161) | 43 | 26250 | | | 161.52- 221.52 | 206.24 |
| 78 Nonane | | | | | CAS #: 111-84-2 | | |
| 23.023 | 23.023 (1.004) | 43 | 24016 | 2.00000 | 2.086 | 70.00- 130.00 | 100.00 |
| 23.023 | 23.023 (1.004) | 57 | 27175 | | | 0.00- 30.00 | 113.15 |
| 23.023 | 23.023 (1.004) | 85 | 15115 | | | 0.00- 30.00 | 62.94 |
| 88 Decane | | | | | CAS #: 124-18-5 | | |
| 24.809 | 24.809 (1.082) | 57 | 36612 | 2.00000 | 2.241 | 70.00- 130.00 | 100.00 |
| 24.809 | 24.809 (1.082) | 71 | 20807 | | | 0.00- 30.00 | 56.83 |
| 24.809 | 24.809 (1.082) | 142 | 3443 | | | 0.00- 30.00 | 9.40 |
| 188 Undecane | | | | | CAS #: 1120-21-4 | | |
| 26.150 | 26.150 (1.141) | 57 | 32249 | 2.00000 | 2.334 | 70.00- 130.00 | 100.00 |
| 26.150 | 26.150 (1.141) | 43 | 22955 | | | 0.00- 30.00 | 71.18 |
| 26.150 | 26.150 (1.141) | 85 | 12909 | | | 0.00- 30.00 | 40.03 |
| 189 Dodecane | | | | | CAS #: 112-40-3 | | |
| 27.293 | 27.293 (1.190) | 85 | 9319 | 2.00000 | 2.267 | 70.00- 130.00 | 100.00 |
| 27.293 | 27.293 (1.190) | 57 | 20398 | | | 0.00- 30.00 | 218.89 |
| 27.293 | 27.293 (1.190) | 43 | 15335 | | | 0.00- 30.00 | 164.56 |

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msde.i
Lab File ID: e031014.d
Lab Smp Id: ICAL
Analysis Type: VOA
Quant Type: ISTD
Operator: LL
Method File: /chem/msde.i/10Mar2012.b/e12l0308b.m
Misc Info: 2.0ppbv (5.0ppbv) -- TVH

Calibration Date: 10-MAR-2012
Calibration Time: 18:30
Client Smp ID: Level 7
Level: LOW
Sample Type: AIR

| | | AREA LIMIT | | | |
|---|---|---|---|---|---|
| COMPOUND | STANDARD | LOWER | UPPER | SAMPLE | %DIFF |
| 46 Bromochloromethan | 47451 | 28471 | 66431 | 50246 | 5.89 |
| 58 1,4-Difluorobenze | 173946 | 104368 | 243524 | 182154 | 4.72 |
| 75 Chlorobenzene-d5 | 149007 | 89404 | 208610 | 152322 | 2.22 |

| | | RT LIMIT | | | |
|---|---|---|---|---|---|
| COMPOUND | STANDARD | LOWER | UPPER | SAMPLE | %DIFF |
| 46 Bromochloromethan | 16.13 | 15.80 | 16.46 | 16.13 | 0.00 |
| 58 1,4-Difluorobenze | 17.59 | 17.26 | 17.92 | 17.59 | 0.00 |
| 75 Chlorobenzene-d5 | 22.93 | 22.60 | 23.26 | 22.93 | 0.00 |

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Data File: /chem/msde.i/10Mar2012.b/e031014.d

Date : 10-MAR-2012 19:22

Client ID: Level 7

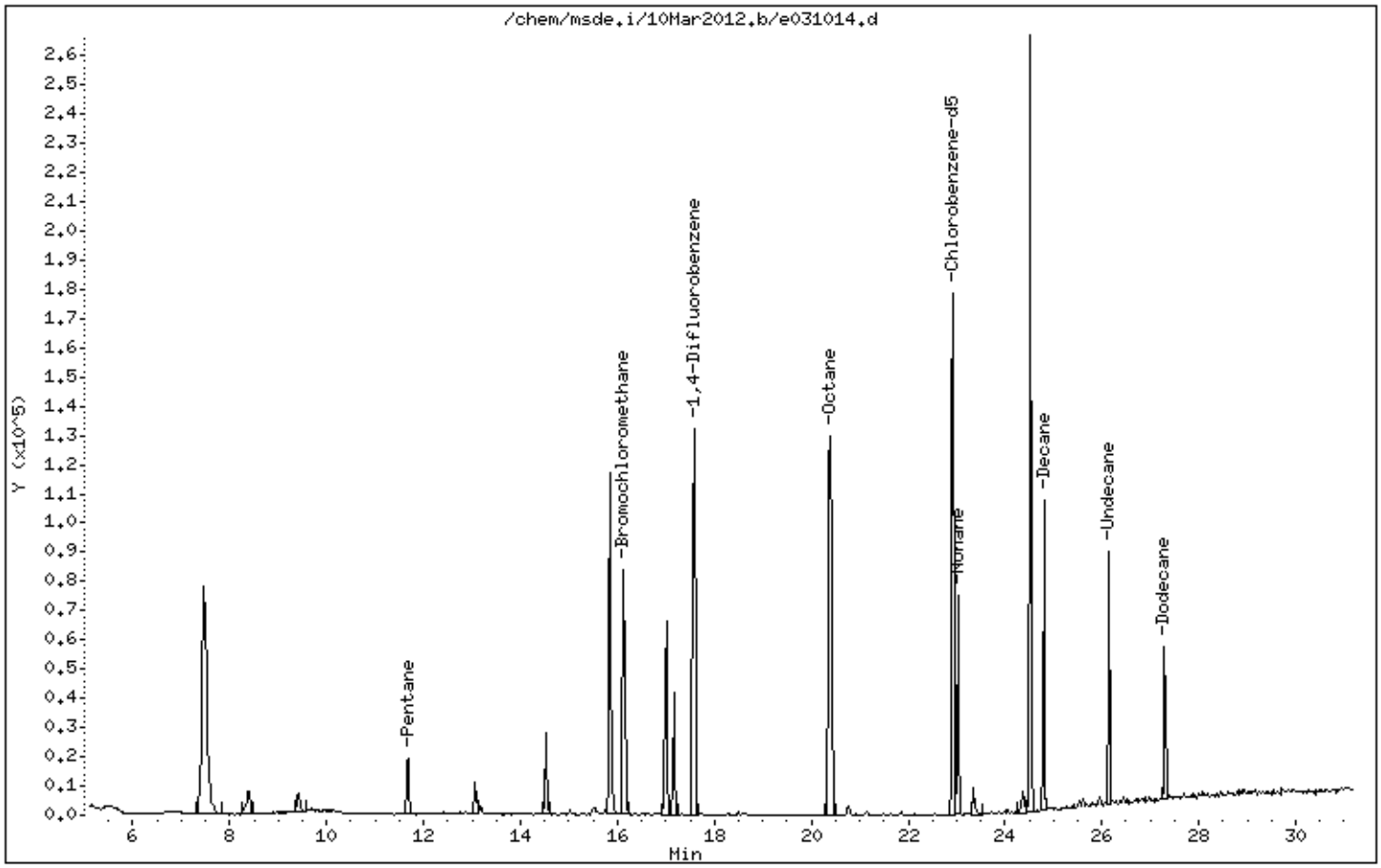
Instrument: msde.i

Sample Info: 250mL #2370-131

Operator: LL

Column phase: RTx-624

Column diameter: 0.32



Air Toxics Ltd.

EPA TO-15/Modified TO14A

Data file : /chem/msde.i/10Mar2012.b/e031005.d
Lab Smp Id: ICAL Client Smp ID: Level 7
Inj Date : 10-MAR-2012 12:34
Operator : cr Inst ID: msde.i
Smp Info : 100mL #2403-8
Misc Info : 2.0ppbv (5.0ppbv) -- AT5
Comment : Low-Level/GC-MS
Method : /chem/msde.i/10Mar2012.b/e12l0308b.m
Meth Date : 10-Mar-2012 13:50 croush Quant Type: ISTD
Cal Date : 10-MAR-2012 12:34 Cal File: e031005.d
Als bottle: 8 Calibration Sample, Level: 7
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AT5ICAL.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

| Name | Value | Description |
|---|---|---|
| DF | 1.00000 | Dilution Factor |

| | | | | AMOUNTS | | | | |
|---|---|---|---|---|---|---|---|---|
| | | | | CAL-AMT | ON-COL | | | |
| RT | EXP RT (REL RT) | MASS | RESPONSE | ( PPBV) | ( PPBV) | TARGET RANGE | | RATIO |
| * 46 Bromochloromethane | | | | | | CAS #: 74-97-5 | | |
| 16.127 | 16.127 (1.000) | 130 | 52583 | 5.00000 | | 70.00- 130.00 | | 100.00 |
| 16.127 | 16.127 (1.000) | 128 | 40771 | | | 0.00- 30.00 | | 77.54 |
| 16.127 | 16.127 (1.000) | 49 | 49774 | | | 0.00- 30.00 | | 94.66 |
| * 58 1,4-Difluorobenzene | | | | | | CAS #: 540-36-3 | | |
| 17.586 | 17.586 (1.000) | 114 | 198695 | 5.00000 | | 70.00- 130.00 | | 100.00 |
| 17.586 | 17.586 (1.000) | 88 | 35121 | | | 0.00- 30.00 | | 17.68 |
| * 75 Chlorobenzene-d5 | | | | | | CAS #: 3114-55-4 | | |
| 22.927 | 22.927 (1.000) | 117 | 173908 | 5.00000 | | 70.00- 130.00 | | 100.00 |
| 22.927 | 22.927 (1.000) | 82 | 118661 | | | 0.00- 30.00 | | 68.23 |
| 15 Vinyl Bromide | | | | | | CAS #: 593-60-2 | | |
| 11.308 | 11.308 (0.701) | 106 | 32115 | 2.00000 | 2.000 | 70.00- 130.00 | | 100.00 |
| 11.308 | 11.308 (0.701) | 108 | 27717 | | | 0.00- 30.00 | | 86.31 |

| RT | EXP RT (REL RT) | MASS | RESPONSE | AMOUNTS CAL-AMT ( PPBV) | ON-COL ( PPBV) | TARGET RANGE | RATIO |
|---|---|---|---|---|---|---|---|
| 187 2,3-Dichloropropene | | | | | CAS #: 78-88-6 | | |
| 18.519 | 18.519 (1.148) | 75 | 62146 | 2.00000 | 2.126 | 70.00- 130.00 | 100.00 |
| 18.519 | 18.519 (1.148) | 77 | 18994 | | | 0.00- 30.00 | 30.56 |
| 18.519 | 18.519 (1.148) | 39 | 25038 | | | 0.00- 30.00 | 40.29 |
| 186 1,1-Dichloropropene | | | | | CAS #: 563-58-6 | | |
| 16.682 | 16.682 (1.034) | 110 | 14777 | 2.00000 | 2.020 | 70.00- 130.00 | 100.00 |
| 16.682 | 16.682 (1.034) | 75 | 47647 | | | 0.00- 30.00 | 322.44 |
| 79 1,1,1,2-Tetrachloroethane | | | | | CAS #: 630-20-6 | | |
| 23.071 | 23.071 (1.006) | 131 | 52512 | 2.00000 | 1.971 | 70.00- 130.00 | 100.00 |
| 23.071 | 23.071 (1.006) | 117 | 30518 | | | 0.00- 30.00 | 58.12 |
| 23.071 | 23.071 (1.006) | 95 | 26055 | | | 0.00- 30.00 | 49.62 |
| 91 1,2,3-Trichloropropane | | | | | CAS #: 96-18-4 | | |
| 24.783 | 24.783 (1.081) | 110 | 32895 | 2.00000 | 1.926 | 70.00- 130.00 | 100.00 |
| 24.783 | 24.783 (1.081) | 75 | 90174 | | | 0.00- 30.00 | 274.13 |
| 24.783 | 24.783 (1.081) | 61 | 18435 | | | 0.00- 30.00 | 56.04 |
| 93 2-Chlorotoluene | | | | | CAS #: 95-49-8 | | |
| 24.938 | 24.938 (1.088) | 126 | 37417 | 2.00000 | 2.005 | 70.00- 130.00 | 100.00 |
| 24.938 | 24.938 (1.088) | 91 | 138214 | | | 0.00- 30.00 | 369.39 |
| 24.912 | 24.912 (1.087) | 65 | 11977 | | | 0.00- 30.00 | 32.01 |
| 96 4-Chlorotoluene | | | | | CAS #: 106-43-4 | | |
| 25.067 | 25.067 (1.093) | 126 | 54427 | 2.00000 | 1.973 | 70.00- 130.00 | 100.00 |
| 25.067 | 25.067 (1.093) | 91 | 194999 | | | 0.00- 30.00 | 358.28 |
| 25.067 | 25.067 (1.093) | 57 | 67286 | | | 0.00- 30.00 | 123.63 |
| 97 tert-Butylbenzene | | | | | CAS #: 98-06-6 | | |
| 25.343 | 25.343 (1.105) | 119 | 126225 | 2.00000 | 2.017 | 70.00- 130.00 | 100.00 |
| 25.343 | 25.343 (1.105) | 134 | 27965 | | | 0.00- 30.00 | 22.15 |
| 25.343 | 25.343 (1.105) | 91 | 105310 | | | 0.00- 30.00 | 83.43 |
| 99 sec-Butylbenzene | | | | | CAS #: 135-98-8 | | |
| 25.589 | 25.589 (1.116) | 105 | 193880 | 2.00000 | 1.949 | 70.00- 130.00 | 100.00 |
| 25.589 | 25.589 (1.116) | 134 | 34928 | | | 0.00- 30.00 | 18.02 |
| 25.589 | 25.589 (1.116) | 91 | 35464 | | | 0.00- 30.00 | 18.29 |
| 100 p-Cymene | | | | | CAS #: 99-87-6 | | |
| 25.724 | 25.724 (1.122) | 119 | 153356 | 2.00000 | 2.046 | 70.00- 130.00 | 100.00 |
| 25.724 | 25.724 (1.122) | 134 | 35105 | | | 0.00- 30.00 | 22.89 |
| 25.724 | 25.724 (1.122) | 91 | 45463 | | | 0.00- 30.00 | 29.65 |
| 103 1,2,3-trimethylbenzene | | | | | CAS #: 526-73-8 | | |
| 25.903 | 25.903 (1.130) | 120 | 59386 | 2.00000 | 2.045 | 70.00- 130.00 | 100.00 |

| RT | EXP RT (REL RT) | MASS | RESPONSE | AMOUNTS CAL-AMT ( PPBV) | ON-COL ( PPBV) | TARGET RANGE | RATIO |
|---|---|---|---|---|---|---|---|
| 103 1,2,3-trimethylbenzene (continued) | | | | | | | |
| 25.903 | 25.903 (1.130) | 105 | 156756 | | | 0.00- 30.00 | 263.96 |
| 25.903 | 25.903 (1.130) | 77 | 21186 | | | 0.00- 30.00 | 35.68 |
| 107 Butylbenzene | | | | | CAS #: 104-51-8 | | |
| 26.195 | 26.195 (1.143) | 134 | 32059 | 2.00000 | 1.921 | 70.00- 130.00 | 100.00 |
| 26.195 | 26.195 (1.143) | 91 | 154878 | | | 445.46- 505.46 | 483.10 |
| 26.195 | 26.195 (1.143) | 92 | 82690 | | | 0.00- 30.00 | 257.93 |
| 110 1,2-dibromo-3-chloropropane | | | | | CAS #: 96-12-8 | | |
| 27.226 | 27.226 (1.188) | 157 | 38405 | 2.00000 | 2.157 | 70.00- 130.00 | 100.00 |
| 27.226 | 27.226 (1.188) | 75 | 46712 | | | 0.00- 30.00 | 121.63 |
| 27.226 | 27.226 (1.188) | 155 | 28589 | | | 0.00- 30.00 | 74.44 |
| 86 1,3-Dichloropropane | | | | | CAS #: 142-28-9 | | |
| 21.692 | 21.692 (1.234) | 76 | 56520 | 2.00000 | 1.901 | 70.00- 130.00 | 100.00 |
| 21.660 | 21.660 (1.232) | 41 | 26822 | | | 30.10- 90.10 | 47.46 |
| 21.692 | 21.692 (1.234) | 78 | 17806 | | | 0.00- 30.00 | 31.50 |
| 185 Bromobenzene | | | | | CAS #: 108-86-1 | | |
| 24.732 | 24.732 (1.079) | 156 | 52149 | 2.00000 | 1.868 | 70.00- 130.00 | 100.00 |
| 24.732 | 24.732 (1.079) | 158 | 51259 | | | 0.00- 30.00 | 98.29 |
| 24.732 | 24.732 (1.079) | 77 | 126744 | | | 0.00- 30.00 | 243.04 |

Report Date: 10-Mar-2012 13:50

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msde.i
Lab File ID: e031005.d
Lab Smp Id: ICAL
Analysis Type: VOA
Quant Type: ISTD
Operator: cr
Method File: /chem/msde.i/10Mar2012.b/e12l0308b.m
Misc Info: 2.0ppbv (5.0ppbv) -- AT5

Calibration Date: 10-MAR-2012
Calibration Time: 11:52
Client Smp ID: Level 7
Level: LOW
Sample Type: AIR

| | | AREA LIMIT | | | |
|---|---|---|---|---|---|
| COMPOUND | STANDARD | LOWER | UPPER | SAMPLE | %DIFF |
| 46 Bromochloromethan | 53284 | 31970 | 74598 | 52583 | -1.32 |
| 58 1,4-Difluorobenze | 199260 | 119556 | 278964 | 198695 | -0.28 |
| 75 Chlorobenzene-d5 | 174009 | 104405 | 243613 | 173908 | -0.06 |

| | | RT LIMIT | | | |
|---|---|---|---|---|---|
| COMPOUND | STANDARD | LOWER | UPPER | SAMPLE | %DIFF |
| 46 Bromochloromethan | 16.13 | 15.80 | 16.46 | 16.13 | 0.00 |
| 58 1,4-Difluorobenze | 17.59 | 17.26 | 17.92 | 17.59 | 0.00 |
| 75 Chlorobenzene-d5 | 22.93 | 22.60 | 23.26 | 22.93 | 0.00 |

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Data File: /chem/msde.i/10Mar2012.b/e031005.d

Date : 10-MAR-2012 12:34

Client ID: Level 7

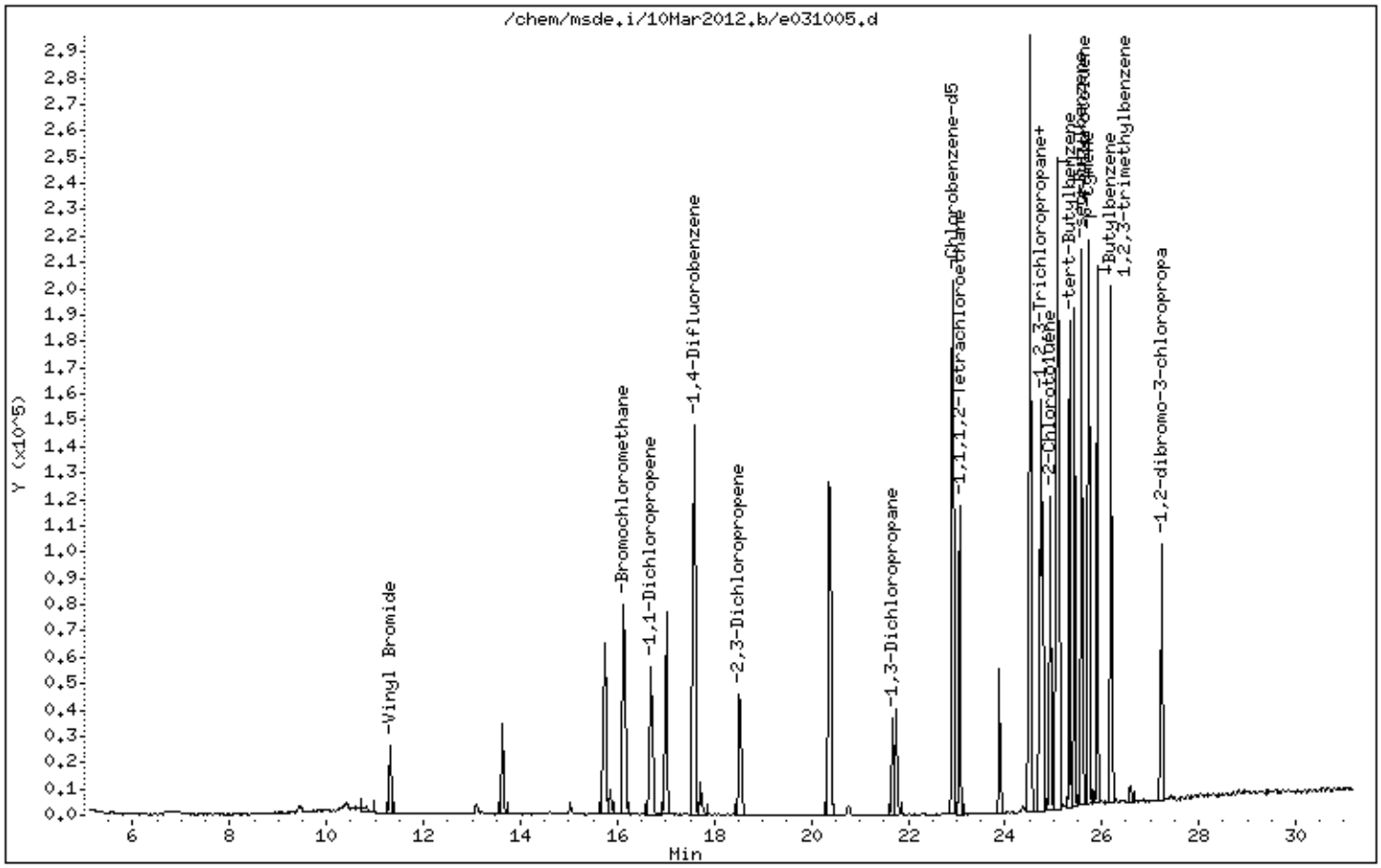
Instrument: msde.i

Sample Info: 100mL #2403-8

Operator: cr

Column phase: RTx-624

Column diameter: 0.32



Air Toxics Ltd.

EPA TO-15/Modified TO14A

Data file : /chem/msde.i/08Mar2012.b/e030813.d
Lab Smp Id: ICAL Client Smp ID: Level 7
Inj Date : 08-MAR-2012 20:22
Operator : srs Inst ID: msde.i
Smp Info : 250mL #2403-57
Misc Info : 2.0ppbv (2.0ppbv)
Comment : Low-Level/GC-MS
Method : /chem/msde.i/08Mar2012.b/e12l0308a.m
Meth Date : 09-Mar-2012 15:12 croush Quant Type: ISTD
Cal Date : 08-MAR-2012 20:22 Cal File: e030813.d
Als bottle: 8 Calibration Sample, Level: 7
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: HILOcrvFULL.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

| Name | Value | Description |
|---|---|---|
| DF | 1.00000 | Dilution Factor |

| | | | | AMOUNTS | | | |
|---|---|---|---|---|---|---|---|
| | | | | CAL-AMT | ON-COL | | |
| RT | EXP RT (REL RT) | MASS | RESPONSE | ( PPBV) | ( PPBV) | TARGET RANGE | RATIO |
| * 46 Bromochloromethane | | | | | CAS #: 74-97-5 | | |
| 16.127 | 16.127 (1.000) | 130 | 67721 | 5.00000 | | 70.00- 130.00 | 100.00 |
| 16.127 | 16.127 (1.000) | 128 | 52092 | | | 0.00- 30.00 | 76.92 |
| 16.127 | 16.127 (1.000) | 49 | 72241 | | | 0.00- 30.00 | 106.67 |
| * 58 1,4-Difluorobenzene | | | | | CAS #: 540-36-3 | | |
| 17.585 | 17.585 (1.000) | 114 | 259367 | 5.00000 | | 70.00- 130.00 | 100.00 |
| 17.585 | 17.585 (1.000) | 88 | 46746 | | | 0.00- 30.00 | 18.02 |
| * 75 Chlorobenzene-d5 | | | | | CAS #: 3114-55-4 | | |
| 22.927 | 22.927 (1.000) | 117 | 220923 | 5.00000 | | 70.00- 130.00 | 100.00 |
| 22.927 | 22.927 (1.000) | 82 | 149743 | | | 0.00- 30.00 | 67.78 |
| $ 54 1,2-Dichloroethane-d4 | | | | | CAS #: 17060-07-0 | | |
| 17.013 | 17.013 (1.055) | 65 | 127927 | 5.00000 | 5.069 | 70.00- 130.00 | 100.00 |
| 17.013 | 17.013 (1.055) | 67 | 64391 | | | 0.00- 30.00 | 50.33 |

| RT | EXP RT (REL RT) | MASS | RESPONSE | AMOUNTS CAL-AMT ( PPBV) | ON-COL ( PPBV) | TARGET RANGE | RATIO |
|---|---|---|---|---|---|---|---|
| $ 67 Toluene-d8 | | | | | CAS #: 2037-26-5 | | |
| 20.368 | 20.368 (1.158) | 98 | 261497 | 5.00000 | 5.005 | 70.00- 130.00 | 100.00 |
| 20.368 | 20.368 (1.158) | 70 | 32487 | | | 0.00- 30.00 | 12.42 |
| 20.368 | 20.368 (1.158) | 100 | 168776 | | | 33.91- 93.91 | 64.54 |
| $ 87 Bromofluorobenzene | | | | | CAS #: 460-00-4 | | |
| 24.525 | 24.525 (1.070) | 174 | 130975 | 5.00000 | 5.182 | 70.00- 130.00 | 100.00 |
| 24.525 | 24.525 (1.070) | 95 | 212929 | | | 125.57- 185.57 | 162.57 |
| 24.525 | 24.525 (1.070) | 176 | 129887 | | | 64.73- 124.73 | 99.17 |
| 2 Propylene | | | | | CAS #: 115-07-1 | | |
| 5.521 | 5.521 (0.342) | 41 | 20477 | 2.00000 | 1.897 | 70.00- 130.00 | 100.00 |
| 5.497 | 5.497 (0.341) | 42 | 13222 | | | 0.00- 30.00 | 64.57 |
| 5.497 | 5.497 (0.341) | 39 | 17153 | | | 0.00- 30.00 | 83.77 |
| 4 Dichlorodifluoromethane/Fr12 | | | | | CAS #: 75-71-8 | | |
| 5.979 | 5.979 (0.371) | 85 | 152447 | 2.00000 | 1.926 | 70.00- 130.00 | 100.00 |
| 5.955 | 5.955 (0.369) | 87 | 49795 | | | 2.22- 62.22 | 32.66 |
| 6 Freon 114 | | | | | CAS #: 76-14-2 | | |
| 7.329 | 7.329 (0.454) | 135 | 77548 | 2.00000 | 1.883 | 70.00- 130.00 | 100.00 |
| 7.329 | 7.329 (0.454) | 137 | 24586 | | | 0.00- 30.00 | 31.70 |
| 7 Chloromethane | | | | | CAS #: 74-87-3 | | |
| 7.715 | 7.715 (0.478) | 50 | 23188 | 2.00000 | 1.982 | 70.00- 130.00 | 100.00 |
| 7.715 | 7.715 (0.478) | 52 | 7704 | | | 0.00- 30.00 | 33.22 |
| 9 Butane | | | | | CAS #: 106-97-8 | | |
| 8.422 | 8.422 (0.522) | 58 | 6632 | 2.00000 | 1.648 | 70.00- 130.00 | 100.00 |
| 8.404 | 8.404 (0.521) | 43 | 43602 | | | 0.00- 30.00 | 657.45 |
| 10 Vinyl Chloride | | | | | CAS #: 75-01-4 | | |
| 8.543 | 8.543 (0.530) | 62 | 34262 | 2.00000 | 1.856 | 70.00- 130.00 | 100.00 |
| 8.543 | 8.543 (0.530) | 64 | 10707 | | | 2.55- 62.55 | 31.25 |
| 11 1,3-Butadiene | | | | | CAS #: 106-99-0 | | |
| 8.786 | 8.786 (0.545) | 54 | 20464 | 2.00000 | 1.764 | 70.00- 130.00 | 100.00 |
| 8.786 | 8.786 (0.545) | 39 | 20107 | | | 0.00- 30.00 | 98.26 |
| 12 Bromomethane | | | | | CAS #: 74-83-9 | | |
| 10.251 | 10.251 (0.636) | 94 | 38254 | 2.00000 | 1.874 | 70.00- 130.00 | 100.00 |
| 10.251 | 10.251 (0.636) | 96 | 37001 | | | 65.25- 125.25 | 96.72 |
| 13 Chloroethane | | | | | CAS #: 75-00-3 | | |
| 10.728 | 10.728 (0.665) | 64 | 20834 | 2.00000 | 2.118 | 70.00- 130.00 | 100.00 |
| 10.728 | 10.728 (0.665) | 49 | 4480 | | | 0.00- 30.00 | 21.50 |

| RT | EXP RT (REL RT) | MASS | RESPONSE | AMOUNTS CAL-AMT ( PPBV) | ON-COL ( PPBV) | TARGET RANGE | RATIO |
|---|---|---|---|---|---|---|---|
| 13 Chloroethane (continued) | | | | | | | |
| 10.728 | 10.728 (0.665) | 66 | 6850 | | | 0.00- 30.00 | 32.88 |
| 14 Isopentane | | | | | CAS #: 78-78-4 | | |
| 10.852 | 10.852 (0.673) | 57 | 24489 | 2.00000 | 1.971 | 70.00- 130.00 | 100.00 |
| 10.852 | 10.852 (0.673) | 43 | 28652 | | | 0.00- 30.00 | 117.00 |
| 10.852 | 10.852 (0.673) | 42 | 24787 | | | 0.00- 30.00 | 101.22 |
| 16 Trichlorofluoromethane/Fr11 | | | | | CAS #: 75-69-4 | | |
| 11.474 | 11.474 (0.711) | 101 | 158597 | 2.00000 | 1.900 | 70.00- 130.00 | 100.00 |
| 11.474 | 11.474 (0.711) | 103 | 102772 | | | 36.02- 96.02 | 64.80 |
| 18 Ethanol | | | | | CAS #: 64-17-5 | | |
| 12.344 | 12.344 (0.765) | 45 | 7828 | 2.00000 | 1.796 | 70.00- 130.00 | 100.00 |
| 12.344 | 12.344 (0.765) | 46 | 2733 | | | 0.00- 30.00 | 34.91 |
| 12.344 | 12.344 (0.765) | 43 | 2065 | | | 0.00- 30.00 | 26.38 |
| 19 Freon 113 | | | | | CAS #: 76-13-1 | | |
| 12.800 | 12.800 (0.794) | 151 | 68154 | 2.00000 | 1.931 | 70.00- 130.00 | 100.00 |
| 12.800 | 12.800 (0.794) | 153 | 42515 | | | 34.27- 94.27 | 62.38 |
| 12.800 | 12.800 (0.794) | 101 | 92272 | | | 0.00- 30.00 | 135.39 |
| 21 1,1-Dichloroethene | | | | | CAS #: 75-35-4 | | |
| 12.821 | 12.821 (0.795) | 98 | 21682 | 2.00000 | 1.807 | 70.00- 130.00 | 100.00 |
| 12.821 | 12.821 (0.795) | 61 | 56788 | | | 0.00- 30.00 | 261.91 |
| 12.821 | 12.821 (0.795) | 96 | 35173 | | | 0.00- 30.00 | 162.22 |
| 22 Acetone | | | | | CAS #: 67-64-1 | | |
| 13.070 | 13.070 (0.810) | 58 | 15027 | 2.00000 | 1.963 | 70.00- 130.00 | 100.00 |
| 13.070 | 13.070 (0.810) | 43 | 48535 | | | 0.00- 30.00 | 322.99 |
| 25 2-Propanol | | | | | CAS #: 67-63-0 | | |
| 13.381 | 13.381 (0.830) | 45 | 35178 | 2.00000 | 1.700 | 70.00- 130.00 | 100.00 |
| 13.381 | 13.381 (0.830) | 43 | 12022 | | | 0.00- 30.00 | 34.17 |
| 13.381 | 13.381 (0.830) | 59 | 1262 | | | 0.00- 30.00 | 3.59 |
| 23 Carbon Disulfide | | | | | CAS #: 75-15-0 | | |
| 13.194 | 13.194 (0.818) | 76 | 99737 | 2.00000 | 1.980 | 70.00- 130.00 | 100.00 |
| 26 3-Chloroprene | | | | | CAS #: 107-05-1 | | |
| 13.588 | 13.588 (0.843) | 76 | 13015 | 2.00000 | 1.752 | 70.00- 130.00 | 100.00 |
| 13.588 | 13.588 (0.843) | 41 | 21825 | | | 0.00- 30.00 | 167.69 |
| 29 Methylene Chloride | | | | | CAS #: 75-09-2 | | |
| 13.885 | 13.885 (0.861) | 84 | 16988 | 2.00000 | 1.798 | 70.00- 130.00 | 100.00 |
| 13.885 | 13.885 (0.861) | 49 | 13048 | | | 0.00- 30.00 | 76.81 |

| RT | EXP RT (REL RT) | MASS | RESPONSE | AMOUNTS CAL-AMT ( PPBV) | ON-COL ( PPBV) | TARGET RANGE | RATIO |
|---|---|---|---|---|---|---|---|
| | **29 Methylene Chloride (continued)** | | | | | | |
| 14.187 | 14.187 (0.880) | 51 | 1322 | | | 0.00- 30.00 | 7.78 |
| | **30 tert-butyl alcohol** | | | | CAS #: 75-65-0 | | |
| 14.022 | 14.022 (0.869) | 59 | 33574 | 2.00000 | 1.711 | 70.00- 130.00 | 100.00 |
| 14.022 | 14.022 (0.869) | 41 | 8274 | | | 0.00- 30.00 | 24.64 |
| 14.022 | 14.022 (0.869) | 57 | 3556 | | | 0.00- 30.00 | 10.59 |
| | **31 MTBE** | | | | CAS #: 1634-04-4 | | |
| 14.187 | 14.187 (0.880) | 73 | 112422 | 2.00000 | 1.847 | 70.00- 130.00 | 100.00 |
| 14.187 | 14.187 (0.880) | 57 | 19151 | | | 0.00- 30.00 | 17.03 |
| 14.187 | 14.187 (0.880) | 41 | 20037 | | | 0.00- 30.00 | 17.82 |
| | **32 trans-1,2-Dichloroethene** | | | | CAS #: 156-60-5 | | |
| 14.242 | 14.242 (0.883) | 98 | 23723 | 2.00000 | 1.845 | 70.00- 130.00 | 100.00 |
| 14.242 | 14.242 (0.883) | 61 | 49639 | | | 0.00- 30.00 | 209.24 |
| 14.242 | 14.242 (0.883) | 96 | 38952 | | | 0.00- 30.00 | 164.20 |
| | **35 Hexane** | | | | CAS #: 110-54-3 | | |
| 14.544 | 14.544 (0.902) | 57 | 41697 | 2.00000 | 1.890 | 70.00- 130.00 | 100.00 |
| 14.544 | 14.544 (0.902) | 43 | 22094 | | | 0.00- 30.00 | 52.99 |
| 14.544 | 14.544 (0.902) | 86 | 10428 | | | 0.00- 30.00 | 25.01 |
| | **36 Isopropyl ether** | | | | CAS #: 108-20-3 | | |
| 14.873 | 14.873 (0.922) | 45 | 40909 | 2.00000 | 1.710 | 70.00- 130.00 | 100.00 |
| 14.873 | 14.873 (0.922) | 87 | 20106 | | | 0.00- 30.00 | 49.15 |
| 14.873 | 14.873 (0.922) | 59 | 7166 | | | 0.00- 30.00 | 17.52 |
| | **37 1,1-Dichloroethane** | | | | CAS #: 75-34-3 | | |
| 14.956 | 14.956 (0.927) | 63 | 72978 | 2.00000 | 2.008 | 70.00- 130.00 | 100.00 |
| 14.956 | 14.956 (0.927) | 65 | 24381 | | | 0.00- 30.00 | 33.41 |
| | **38 Vinyl Acetate** | | | | CAS #: 108-05-4 | | |
| 14.956 | 14.956 (0.927) | 86 | 9666 | 2.00000 | 1.800 | 70.00- 130.00 | 100.00 |
| 14.956 | 14.956 (0.927) | 42 | 7264 | | | 0.00- 30.00 | 75.15 |
| 14.956 | 14.956 (0.927) | 43 | 64244 | | | 0.00- 30.00 | 664.64 |
| | **40 Ethyl-tert-butyl ether** | | | | CAS #: 637-92-3 | | |
| 15.368 | 15.368 (0.953) | 59 | 55690 | 2.00000 | 1.671 | 70.00- 130.00 | 100.00 |
| 15.368 | 15.368 (0.953) | 87 | 27554 | | | 0.00- 30.00 | 49.48 |
| 15.368 | 15.368 (0.953) | 41 | 11705 | | | 0.00- 30.00 | 21.02 |
| | **42 2-Butanone** | | | | CAS #: 78-93-3 | | |
| 15.766 | 15.766 (0.978) | 72 | 23955 | 2.00000 | 1.726 | 70.00- 130.00 | 100.00 |
| 15.766 | 15.766 (0.978) | 43 | 68685 | | | 0.00- 30.00 | 286.73 |
| 15.766 | 15.766 (0.978) | 57 | 6492 | | | 0.00- 30.00 | 27.10 |

| RT | EXP RT (REL RT) | MASS | RESPONSE | AMOUNTS CAL-AMT ( PPBV) | ON-COL ( PPBV) | TARGET RANGE | RATIO |
|---|---|---|---|---|---|---|---|
| 41 cis-1,2-Dichloroethene | | | | | CAS #: 156-59-2 | | |
| 15.787 | 15.787 (0.979) | 98 | 38533 | 2.00000 | 1.993 | 70.00- 130.00 | 100.00 |
| 15.787 | 15.787 (0.979) | 61 | 70804 | | | 0.00- 30.00 | 183.75 |
| 15.787 | 15.787 (0.979) | 96 | 61011 | | | 124.52- 184.52 | 158.33 |
| 44 Tetrahydrofuran | | | | | CAS #: 109-99-9 | | |
| 16.127 | 16.127 (1.000) | 42 | 25371 | 2.00000 | 1.834 | 70.00- 130.00 | 100.00 |
| 16.127 | 16.127 (1.000) | 71 | 16724 | | | 0.00- 30.00 | 65.92 |
| 16.127 | 16.127 (1.000) | 72 | 18516 | | | 0.00- 30.00 | 72.98 |
| 47 Chloroform | | | | | CAS #: 67-66-3 | | |
| 16.189 | 16.189 (1.004) | 83 | 107167 | 2.00000 | 1.927 | 70.00- 130.00 | 100.00 |
| 16.189 | 16.189 (1.004) | 85 | 67610 | | | 0.00- 30.00 | 63.09 |
| 49 1,1,1-Trichloroethane | | | | | CAS #: 71-55-6 | | |
| 16.466 | 16.466 (1.021) | 97 | 119128 | 2.00000 | 1.874 | 70.00- 130.00 | 100.00 |
| 16.466 | 16.466 (1.021) | 99 | 75199 | | | 0.00- 30.00 | 63.12 |
| 48 Cyclohexane | | | | | CAS #: 110-82-7 | | |
| 16.466 | 16.466 (1.021) | 84 | 55898 | 2.00000 | 1.882 | 70.00- 130.00 | 100.00 |
| 16.466 | 16.466 (1.021) | 56 | 42814 | | | 0.00- 30.00 | 76.59 |
| 16.466 | 16.466 (1.021) | 41 | 22987 | | | 0.00- 30.00 | 41.12 |
| 51 Carbon Tetrachloride | | | | | CAS #: 56-23-5 | | |
| 16.651 | 16.651 (1.032) | 119 | 51822 | 2.00000 | 1.090 | 70.00- 130.00 | 100.00 |
| 16.651 | 16.651 (1.032) | 117 | 50845 | | | 0.00- 30.00 | 98.11 |
| 52 2,2,4-Trimethylpentane | | | | | CAS #: 540-84-1 | | |
| 16.925 | 16.925 (1.049) | 56 | 61627 | 2.00000 | 1.811 | 70.00- 130.00 | 100.00 |
| 16.925 | 16.925 (1.049) | 57 | 187495 | | | 0.00- 30.00 | 304.24 |
| 16.925 | 16.925 (1.049) | 41 | 57381 | | | 0.00- 30.00 | 93.11 |
| 53 Benzene | | | | | CAS #: 71-43-2 | | |
| 17.013 | 17.013 (0.967) | 78 | 127797 | 2.00000 | 1.921 | 70.00- 130.00 | 100.00 |
| 17.013 | 17.013 (0.967) | 77 | 29745 | | | 0.00- 30.00 | 23.28 |
| 55 tert-amyl methyl ether | | | | | CAS #: 994-05-8 | | |
| 17.042 | 17.042 (0.969) | 87 | 17511 | 2.00000 | 1.786 | 70.00- 130.00 | 100.00 |
| 17.042 | 17.042 (0.969) | 73 | 72451 | | | 0.00- 30.00 | 413.75 |
| 17.042 | 17.042 (0.969) | 55 | 18646 | | | 0.00- 30.00 | 106.48 |
| 56 1,2-Dichloroethane | | | | | CAS #: 107-06-2 | | |
| 17.129 | 17.129 (0.974) | 62 | 71522 | 2.00000 | 1.906 | 70.00- 130.00 | 100.00 |
| 17.129 | 17.129 (0.974) | 64 | 22968 | | | 0.00- 30.00 | 32.11 |
| 57 Heptane | | | | | CAS #: 142-82-5 | | |
| 17.159 | 17.159 (0.976) | 57 | 28488 | 2.00000 | 2.072 | 70.00- 130.00 | 100.00 |

| RT | EXP RT (REL RT) | MASS | RESPONSE | AMOUNTS CAL-AMT ( PPBV) | ON-COL ( PPBV) | TARGET RANGE | RATIO |
|---|---|---|---|---|---|---|---|
| 57 Heptane (continued) | | | | | | | |
| 17.159 | 17.159 (0.976) | 100 | 18018 | | | 0.00- 30.00 | 63.25 |
| 17.159 | 17.159 (0.976) | 43 | 42336 | | | 0.00- 30.00 | 148.61 |
| 59 Trichloroethene | | | | | CAS #: 79-01-6 | | |
| 18.025 | 18.025 (1.025) | 130 | 50304 | 2.00000 | 1.712 | 70.00- 130.00 | 100.00 |
| 18.025 | 18.025 (1.025) | 95 | 58074 | | | 0.00- 30.00 | 115.45 |
| 18.025 | 18.025 (1.025) | 97 | 38681 | | | 0.00- 30.00 | 76.89 |
| 60 Methylcyclohexane | | | | | CAS #: 108-87-2 | | |
| 18.272 | 18.272 (1.039) | 83 | 65100 | 2.00000 | 1.715 | 70.00- 130.00 | 100.00 |
| 18.272 | 18.272 (1.039) | 55 | 41741 | | | 0.00- 30.00 | 64.12 |
| 18.272 | 18.272 (1.039) | 56 | 12497 | | | 0.00- 30.00 | 19.20 |
| 61 1,2-Dichloropropane | | | | | CAS #: 78-87-5 | | |
| 18.519 | 18.519 (1.053) | 63 | 36233 | 2.00000 | 1.771 | 70.00- 130.00 | 100.00 |
| 18.519 | 18.519 (1.053) | 62 | 25998 | | | 0.00- 30.00 | 71.75 |
| 18.519 | 18.519 (1.053) | 41 | 22376 | | | 29.06- 89.06 | 61.76 |
| 62 1,4-Dioxane | | | | | CAS #: 123-91-1 | | |
| 18.629 | 18.629 (1.059) | 88 | 27675 | 2.00000 | 1.897 | 70.00- 130.00 | 100.00 |
| 18.629 | 18.629 (1.059) | 58 | 16394 | | | 0.00- 30.00 | 59.24 |
| 18.629 | 18.629 (1.059) | 57 | 4929 | | | 0.00- 30.00 | 17.81 |
| 63 Bromodichloromethane | | | | | CAS #: 75-27-4 | | |
| 18.958 | 18.958 (1.078) | 83 | 105680 | 2.00000 | 1.849 | 70.00- 130.00 | 100.00 |
| 18.958 | 18.958 (1.078) | 85 | 64501 | | | 0.00- 30.00 | 61.03 |
| 64 cis-1,3-Dichloropropene | | | | | CAS #: 10061-01-5 | | |
| 19.865 | 19.865 (1.130) | 75 | 64273 | 2.00000 | 1.816 | 70.00- 130.00 | 100.00 |
| 19.865 | 19.865 (1.130) | 77 | 19755 | | | 0.00- 30.00 | 30.74 |
| 19.865 | 19.865 (1.130) | 39 | 25009 | | | 10.38- 70.38 | 38.91 |
| 65 4-Methyl-2-pentanone | | | | | CAS #: 108-10-1 | | |
| 20.076 | 20.076 (1.142) | 43 | 46314 | 2.00000 | 1.752 | 70.00- 130.00 | 100.00 |
| 20.076 | 20.076 (1.142) | 58 | 22362 | | | 0.00- 30.00 | 48.28 |
| 20.076 | 20.076 (1.142) | 85 | 13427 | | | 0.00- 30.00 | 28.99 |
| 68 Toluene | | | | | CAS #: 108-88-3 | | |
| 20.524 | 20.524 (1.167) | 91 | 146030 | 2.00000 | 1.839 | 70.00- 130.00 | 100.00 |
| 20.524 | 20.524 (1.167) | 92 | 88091 | | | 0.00- 30.00 | 60.32 |
| 69 trans-1,3-Dichloropropene | | | | | CAS #: 10061-02-6 | | |
| 20.995 | 20.995 (0.916) | 75 | 91101 | 2.00000 | 1.923 | 70.00- 130.00 | 100.00 |
| 20.995 | 20.995 (0.916) | 77 | 20826 | | | 0.00- 30.00 | 22.86 |
| 20.995 | 20.995 (0.916) | 39 | 23843 | | | 4.84- 64.84 | 26.17 |

| RT | EXP RT (REL RT) | MASS | RESPONSE | AMOUNTS CAL-AMT ( PPBV) | ON-COL ( PPBV) | TARGET RANGE | RATIO |
|---|---|---|---|---|---|---|---|
| 70 1,1,2-Trichloroethane | | | | | CAS #: 79-00-5 | | |
| 21.335 | 21.335 (0.931) | 97 | 53338 | 2.00000 | 1.869 | 70.00- 130.00 | 100.00 |
| 21.335 | 21.335 (0.931) | 99 | 31706 | | | 0.00- 30.00 | 59.44 |
| 21.335 | 21.335 (0.931) | 83 | 43309 | | | 52.76- 112.76 | 81.20 |
| 71 Tetrachloroethene | | | | | CAS #: 127-18-4 | | |
| 21.497 | 21.497 (0.938) | 166 | 62324 | 2.00000 | 1.881 | 70.00- 130.00 | 100.00 |
| 21.497 | 21.497 (0.938) | 129 | 53898 | | | 0.00- 30.00 | 86.48 |
| 21.497 | 21.497 (0.938) | 131 | 52068 | | | 0.00- 30.00 | 83.54 |
| 72 2-Hexanone | | | | | CAS #: 591-78-6 | | |
| 21.660 | 21.660 (0.945) | 58 | 29412 | 2.00000 | 1.628 | 70.00- 130.00 | 100.00 |
| 21.660 | 21.660 (0.945) | 43 | 47031 | | | 0.00- 30.00 | 159.90 |
| 21.660 | 21.660 (0.945) | 100 | 7752 | | | 0.00- 30.00 | 26.36 |
| 73 Dibromochloromethane | | | | | CAS #: 124-48-1 | | |
| 22.017 | 22.017 (0.960) | 129 | 85099 | 2.00000 | 1.752 | 70.00- 130.00 | 100.00 |
| 22.017 | 22.017 (0.960) | 127 | 66635 | | | 0.00- 30.00 | 78.30 |
| 74 1,2-Dibromoethane | | | | | CAS #: 106-93-4 | | |
| 22.278 | 22.278 (0.972) | 107 | 82302 | 2.00000 | 1.880 | 70.00- 130.00 | 100.00 |
| 22.278 | 22.278 (0.972) | 109 | 73369 | | | 0.00- 30.00 | 89.15 |
| 76 Chlorobenzene | | | | | CAS #: 108-90-7 | | |
| 22.975 | 22.975 (1.002) | 112 | 118198 | 2.00000 | 1.877 | 70.00- 130.00 | 100.00 |
| 22.975 | 22.975 (1.002) | 114 | 38140 | | | 0.00- 30.00 | 32.27 |
| 22.951 | 22.951 (1.001) | 77 | 80758 | | | 36.24- 96.24 | 68.32 |
| 77 Ethyl Benzene | | | | | CAS #: 100-41-4 | | |
| 23.047 | 23.047 (1.005) | 106 | 59151 | 2.00000 | 1.923 | 70.00- 130.00 | 100.00 |
| 23.023 | 23.023 (1.004) | 91 | 206752 | | | 0.00- 30.00 | 349.53 |
| 80 m,p-Xylene | | | | | CAS #: 108-38-3 | | |
| 23.192 | 23.192 (1.012) | 106 | 72295 | 2.00000 | 1.953 | 70.00- 130.00 | 100.00 |
| 23.192 | 23.192 (1.012) | 91 | 159412 | | | 0.00- 30.00 | 220.50 |
| 81 o-Xylene | | | | | CAS #: 95-47-6 | | |
| 23.770 | 23.770 (1.037) | 106 | 68598 | 2.00000 | 1.928 | 70.00- 130.00 | 100.00 |
| 23.770 | 23.770 (1.037) | 91 | 160986 | | | 0.00- 30.00 | 234.68 |
| 83 Styrene | | | | | CAS #: 100-42-5 | | |
| 23.818 | 23.818 (1.039) | 104 | 103270 | 2.00000 | 1.923 | 70.00- 130.00 | 100.00 |
| 23.794 | 23.794 (1.038) | 78 | 61997 | | | 0.00- 30.00 | 60.03 |
| 84 Bromoform | | | | | CAS #: 75-25-2 | | |
| 24.131 | 24.131 (1.053) | 173 | 70579 | 2.00000 | 1.681 | 70.00- 130.00 | 100.00 |

| RT | EXP RT (REL RT) | MASS | RESPONSE | AMOUNTS CAL-AMT ( PPBV) | ON-COL ( PPBV) | TARGET RANGE | RATIO |
|---|---|---|---|---|---|---|---|
| 84 Bromoform (continued) | | | | | | | |
| 24.131 | 24.131 (1.053) | 171 | 36638 | | | 0.00- 30.00 | 51.91 |
| 85 Cumene | | | | | CAS #: 98-82-8 | | |
| 24.228 | 24.228 (1.057) | 105 | 227400 | 2.00000 | 1.974 | 70.00- 130.00 | 100.00 |
| 24.228 | 24.228 (1.057) | 120 | 57683 | | | 0.00- 30.00 | 25.37 |
| 89 1,1,2,2-Tetrachloroethane | | | | | CAS #: 79-34-5 | | |
| 24.680 | 24.680 (1.076) | 83 | 114418 | 2.00000 | 1.922 | 70.00- 130.00 | 100.00 |
| 24.680 | 24.680 (1.076) | 85 | 72537 | | | 0.00- 30.00 | 63.40 |
| 90 Propylbenzene | | | | | CAS #: 103-65-1 | | |
| 24.758 | 24.758 (1.080) | 91 | 281720 | 2.00000 | 1.909 | 70.00- 130.00 | 100.00 |
| 24.758 | 24.758 (1.080) | 120 | 55375 | | | 0.00- 30.00 | 19.66 |
| 92 4-Ethyltoluene | | | | | CAS #: 622-96-8 | | |
| 24.886 | 24.886 (1.085) | 105 | 243336 | 2.00000 | 1.920 | 70.00- 130.00 | 100.00 |
| 24.886 | 24.886 (1.085) | 120 | 64854 | | | 0.00- 30.00 | 26.65 |
| 94 1,3,5-Trimethylbenzene | | | | | CAS #: 108-67-8 | | |
| 24.964 | 24.964 (1.089) | 105 | 212572 | 2.00000 | 1.949 | 70.00- 130.00 | 100.00 |
| 24.964 | 24.964 (1.089) | 120 | 89205 | | | 0.00- 30.00 | 41.96 |
| 98 1,2,4-Trimethylbenzene | | | | | CAS #: 95-63-6 | | |
| 25.410 | 25.410 (1.108) | 105 | 177396 | 2.00000 | 1.847 | 70.00- 130.00 | 100.00 |
| 25.410 | 25.410 (1.108) | 120 | 72124 | | | 0.00- 30.00 | 40.66 |
| 101 1,3-Dichlorobenzene | | | | | CAS #: 541-73-1 | | |
| 25.791 | 25.791 (1.125) | 146 | 115217 | 2.00000 | 1.893 | 70.00- 130.00 | 100.00 |
| 25.791 | 25.791 (1.125) | 148 | 75383 | | | 0.00- 30.00 | 65.43 |
| 25.791 | 25.791 (1.125) | 111 | 56533 | | | 0.00- 30.00 | 49.07 |
| 104 1,4-Dichlorobenzene | | | | | CAS #: 106-46-7 | | |
| 25.903 | 25.903 (1.130) | 146 | 110433 | 2.00000 | 1.813 | 70.00- 130.00 | 100.00 |
| 25.903 | 25.903 (1.130) | 148 | 73828 | | | 0.00- 30.00 | 66.85 |
| 25.903 | 25.903 (1.130) | 111 | 53847 | | | 0.00- 30.00 | 48.76 |
| 105 alpha-chlorotoluene | | | | | CAS #: 100-44-7 | | |
| 26.060 | 26.060 (1.137) | 91 | 168745 | 2.00000 | 1.819 | 70.00- 130.00 | 100.00 |
| 26.060 | 26.060 (1.137) | 126 | 28489 | | | 0.00- 30.00 | 16.88 |
| 108 1,2-Dichlorobenzene | | | | | CAS #: 95-50-1 | | |
| 26.352 | 26.352 (1.149) | 146 | 107298 | 2.00000 | 1.858 | 70.00- 130.00 | 100.00 |
| 26.352 | 26.352 (1.149) | 148 | 68129 | | | 34.07- 94.07 | 63.50 |
| 26.352 | 26.352 (1.149) | 111 | 52064 | | | 19.87- 79.87 | 48.52 |

| RT | EXP RT (REL RT) | MASS | RESPONSE | AMOUNTS CAL-AMT ( PPBV) | ON-COL ( PPBV) | TARGET RANGE | RATIO |
|---|---|---|---|---|---|---|---|
| 112 1,2,4-Trichlorobenzene | | | | | CAS #: 120-82-1 | | |
| 28.145 | 28.145 (1.228) | 180 | 70394 | 2.00000 | 1.865 | 70.00- 130.00 | 100.00 |
| 28.145 | 28.145 (1.228) | 182 | 68755 | | | 0.00- 30.00 | 97.67 |
| 113 Hexachlorobutadiene | | | | | CAS #: 87-68-3 | | |
| 28.235 | 28.235 (1.232) | 225 | 65800 | 2.00000 | 1.951 | 70.00- 130.00 | 100.00 |
| 28.235 | 28.235 (1.232) | 223 | 41179 | | | 0.00- 30.00 | 62.58 |
| 114 Naphthalene | | | | | CAS #: 91-20-3 | | |
| 28.504 | 28.504 (1.243) | 128 | 12519 | 0.20000 | 0.1558 | 70.00- 130.00 | 100.00(a) |
| 28.504 | 28.504 (1.243) | 127 | 1623 | | | 0.00- 30.00 | 12.96 |

QC Flag Legend

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

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msde.i
Lab File ID: e030813.d
Lab Smp Id: ICAL
Analysis Type: VOA
Quant Type: ISTD
Operator: srs
Method File: /chem/msde.i/08Mar2012.b/e12l0308a.m
Misc Info: 2.0ppbv (2.0ppbv)

Calibration Date: 08-MAR-2012
Calibration Time: 22:56
Client Smp ID: Level 7
Level: LOW
Sample Type: AIR

| | | AREA LIMIT | | | |
|---|---|---|---|---|---|
| COMPOUND | STANDARD | LOWER | UPPER | SAMPLE | %DIFF |
| 46 Bromochloromethan | 73839 | 44303 | 103375 | 67721 | -8.29 |
| 58 1,4-Difluorobenze | 285440 | 171264 | 399616 | 259367 | -9.13 |
| 75 Chlorobenzene-d5 | 243451 | 146071 | 340831 | 220923 | -9.25 |

| | | RT LIMIT | | | |
|---|---|---|---|---|---|
| COMPOUND | STANDARD | LOWER | UPPER | SAMPLE | %DIFF |
| 46 Bromochloromethan | 16.13 | 15.80 | 16.46 | 16.13 | 0.00 |
| 58 1,4-Difluorobenze | 17.59 | 17.26 | 17.92 | 17.59 | 0.00 |
| 75 Chlorobenzene-d5 | 22.93 | 22.60 | 23.26 | 22.93 | 0.00 |

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Data File: /chem/msde.i/08Mar2012.b/e030813.d

Date : 08-MAR-2012 20:22

Client ID: Level 7

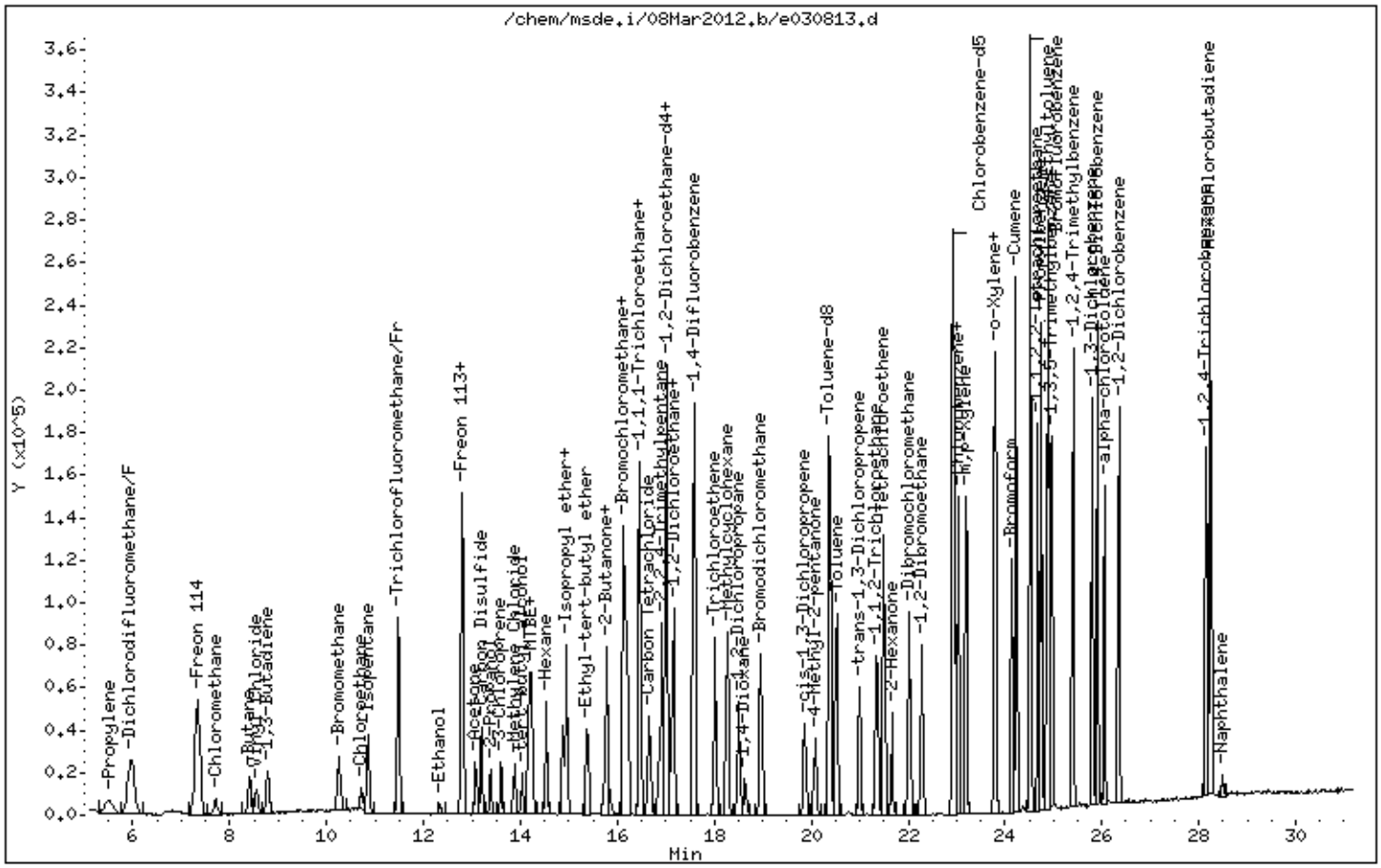
Instrument: msde.i

Sample Info: 250mL #2403-57

Operator: srs

Column phase: RTx-624

Column diameter: 0.32



Air Toxics Ltd.

EPA TO-15/Modified TO14A

Data file : /chem/msde.i/10Mar2012.b/e031011.d
Lab Smp Id: ICAL Client Smp ID: Level 8
Inj Date : 10-MAR-2012 17:04
Operator : LL Inst ID: msde.i
Smp Info : 250mL #2403-72
Misc Info : 5.0ppbv (5.0ppbv) -- AT3
Comment : Low-Level/GC-MS
Method : /chem/msde.i/10Mar2012.b/e12l0308b.m
Meth Date : 12-Mar-2012 07:09 croush Quant Type: ISTD
Cal Date : 10-MAR-2012 17:04 Cal File: e031011.d
Als bottle: 4 Calibration Sample, Level: 8
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AT3.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

| Name | Value | Description |
|---|---|---|
| DF | 1.00000 | Dilution Factor |

| RT | EXP RT (REL RT) | MASS | RESPONSE | AMOUNTS CAL-AMT ( PPBV) | AMOUNTS ON-COL ( PPBV) | TARGET RANGE | RATIO |
|---|---|---|---|---|---|---|---|
| * 46 Bromochloromethane | | | | | CAS #: 74-97-5 | | |
| 16.127 | 16.127 (1.000) | 130 | 47390 | 5.00000 | | 70.00- 130.00 | 100.00 |
| 16.127 | 16.127 (1.000) | 128 | 36967 | | | 0.00- 30.00 | 78.01 |
| 16.127 | 16.127 (1.000) | 49 | 45421 | | | 0.00- 30.00 | 95.85 |
| * 58 1,4-Difluorobenzene | | | | | CAS #: 540-36-3 | | |
| 17.585 | 17.585 (1.000) | 114 | 182401 | 5.00000 | | 70.00- 130.00 | 100.00 |
| 17.585 | 17.585 (1.000) | 88 | 34607 | | | 0.00- 30.00 | 18.97 |
| * 75 Chlorobenzene-d5 | | | | | CAS #: 3114-55-4 | | |
| 22.927 | 22.927 (1.000) | 117 | 148182 | 5.00000 | | 70.00- 130.00 | 100.00 |
| 22.927 | 22.927 (1.000) | 82 | 101021 | | | 0.00- 30.00 | 68.17 |
| 50 Thiophene | | | | | CAS #: 110-02-1 | | |
| 17.362 | 17.362 (0.987) | 84 | 136345 | 5.00000 | 4.622 | 70.00- 130.00 | 100.00(T) |
| 17.362 | 17.362 (0.987) | 58 | 69687 | | | 0.00- 30.00 | 51.11 |
| 0.000 | 1.000 (0.000) | 0 | 0 | | | 0.00- 30.00 | 0.00 |

| RT | EXP RT (REL RT) | MASS | RESPONSE | AMOUNTS CAL-AMT ( PPBV) | ON-COL ( PPBV) | TARGET RANGE | RATIO |
|---|---|---|---|---|---|---|---|
| 24 2-Methylpentane | | | | | CAS #: 107-83-5 | | |
| 13.692 | 13.692 (0.849) | 71 | 50502 | 5.00000 | 5.152 | 70.00- 130.00 | 100.00 |
| 13.692 | 13.692 (0.849) | 43 | 77545 | | | 0.00- 30.00 | 153.55 |
| 13.692 | 13.692 (0.849) | 42 | 40800 | | | 0.00- 30.00 | 80.79 |
| 45 2,3-Dimethylpentane | | | | | CAS #: 565-59-3 | | |
| 16.405 | 16.405 (1.017) | 71 | 49358 | 5.00000 | 5.436 | 70.00- 130.00 | 100.00 |
| 16.405 | 16.405 (1.017) | 56 | 96735 | | | 0.00- 30.00 | 195.99 |
| 16.405 | 16.405 (1.017) | 43 | 60232 | | | 0.00- 30.00 | 122.03 |
| 102 Indan | | | | | CAS #: 496-11-7 | | |
| 26.150 | 26.150 (1.141) | 117 | 249514 | 5.00000 | 5.492 | 70.00- 130.00 | 100.00 |
| 26.150 | 26.150 (1.141) | 118 | 140649 | | | 0.00- 30.00 | 56.37 |
| 26.150 | 26.150 (1.141) | 91 | 51391 | | | 0.00- 30.00 | 20.60 |
| 106 Indene | | | | | CAS #: 95-13-6 | | |
| 26.419 | 26.419 (1.152) | 115 | 132695 | 5.00000 | 5.360 | 70.00- 130.00 | 100.00(T) |
| 26.419 | 26.419 (1.152) | 116 | 124262 | | | 0.00- 30.00 | 93.64 |
| 0.000 | 1.000 (0.000) | 0 | 0 | | | 0.00- 30.00 | 0.00 |

QC Flag Legend

T - Target compound detected outside RT window.

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msde.i
Lab File ID: e031011.d
Lab Smp Id: ICAL
Analysis Type: VOA
Quant Type: ISTD
Operator: LL
Method File: /chem/msde.i/10Mar2012.b/e12l0308b.m
Misc Info: 5.0ppbv (5.0ppbv) -- AT3

Calibration Date: 10-MAR-2012
Calibration Time: 16:18
Client Smp ID: Level 8
Level: LOW
Sample Type: AIR

| | | AREA LIMIT | | | |
|---|---|---|---|---|---|
| COMPOUND | STANDARD | LOWER | UPPER | SAMPLE | %DIFF |
| 46 Bromochloromethan | 46839 | 28103 | 65575 | 47390 | 1.18 |
| 58 1,4-Difluorobenze | 182691 | 109615 | 255767 | 182401 | -0.16 |
| 75 Chlorobenzene-d5 | 151374 | 90824 | 211924 | 148182 | -2.11 |

| | | RT LIMIT | | | |
|---|---|---|---|---|---|
| COMPOUND | STANDARD | LOWER | UPPER | SAMPLE | %DIFF |
| 46 Bromochloromethan | 16.13 | 15.80 | 16.46 | 16.13 | 0.00 |
| 58 1,4-Difluorobenze | 17.59 | 17.26 | 17.92 | 17.59 | 0.00 |
| 75 Chlorobenzene-d5 | 22.93 | 22.60 | 23.26 | 22.93 | 0.00 |

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Data File: /chem/msde.i/10Mar2012.b/e031011.d



Date : 10-MAR-2012 17:04

Client ID: Level 8

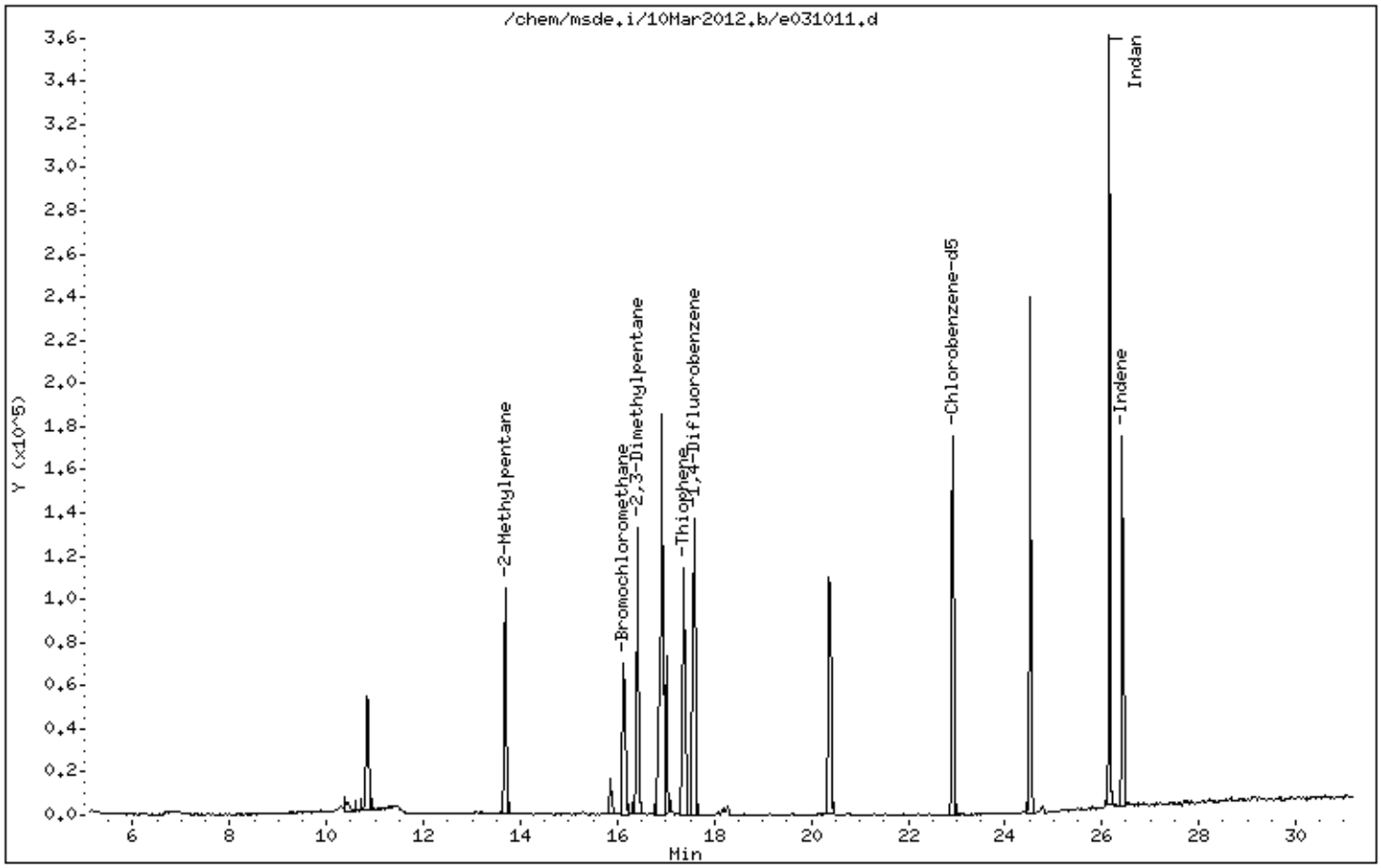
Instrument: msde.i

Sample Info: 250mL #2403-72

Operator: LL

Column phase: RTx-624

Column diameter: 0.32



Air Toxics Ltd.

EPA TO-15/Modified TO14A

Data file : /chem/msde.i/10Mar2012.b/e031006.d
Lab Smp Id: ICAL Client Smp ID: Level 8
Inj Date : 10-MAR-2012 13:23
Operator : cr Inst ID: msde.i
Smp Info : 250mL #2403-8
Misc Info : 5.0ppbv (5.0ppbv) -- AT5
Comment : Low-Level/GC-MS
Method : /chem/msde.i/10Mar2012.b/e12l0308b.m
Meth Date : 10-Mar-2012 13:50 croush Quant Type: ISTD
Cal Date : 10-MAR-2012 13:23 Cal File: e031006.d
Als bottle: 8 Calibration Sample, Level: 8
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AT5ICAL.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

| Name | Value | Description |
|---|---|---|
| DF | 1.00000 | Dilution Factor |

| | | | | AMOUNTS | | | | |
|---|---|---|---|---|---|---|---|---|
| | | | | CAL-AMT | ON-COL | | | |
| RT | EXP RT (REL RT) | MASS | RESPONSE | ( PPBV) | ( PPBV) | TARGET RANGE | | RATIO |
| * 46 Bromochloromethane | | | | | | CAS #: 74-97-5 | | |
| 16.128 | 16.128 (1.000) | 130 | 55563 | 5.00000 | | 70.00- 130.00 | | 100.00 |
| 16.128 | 16.128 (1.000) | 128 | 45023 | | | 0.00- 30.00 | | 81.03 |
| 16.128 | 16.128 (1.000) | 49 | 53699 | | | 0.00- 30.00 | | 96.65 |
| * 58 1,4-Difluorobenzene | | | | | | CAS #: 540-36-3 | | |
| 17.586 | 17.586 (1.000) | 114 | 209426 | 5.00000 | | 70.00- 130.00 | | 100.00 |
| 17.586 | 17.586 (1.000) | 88 | 36882 | | | 0.00- 30.00 | | 17.61 |
| * 75 Chlorobenzene-d5 | | | | | | CAS #: 3114-55-4 | | |
| 22.927 | 22.927 (1.000) | 117 | 181945 | 5.00000 | | 70.00- 130.00 | | 100.00 |
| 22.927 | 22.927 (1.000) | 82 | 120937 | | | 0.00- 30.00 | | 66.47 |
| 15 Vinyl Bromide | | | | | | CAS #: 593-60-2 | | |
| 11.308 | 11.308 (0.701) | 106 | 82753 | 5.00000 | 4.877 | 70.00- 130.00 | | 100.00 |
| 11.308 | 11.308 (0.701) | 108 | 72998 | | | 0.00- 30.00 | | 88.21 |

| RT | EXP RT (REL RT) | MASS | RESPONSE | AMOUNTS CAL-AMT ( PPBV) | ON-COL ( PPBV) | TARGET RANGE | RATIO |
|---|---|---|---|---|---|---|---|
| 187 2,3-Dichloropropene | | | | | CAS #: 78-88-6 | | |
| 18.519 | 18.519 (1.148) | 75 | 175859 | 5.00000 | 5.694 | 70.00- 130.00 | 100.00 |
| 18.519 | 18.519 (1.148) | 77 | 53919 | | | 0.00- 30.00 | 30.66 |
| 18.519 | 18.519 (1.148) | 39 | 71653 | | | 0.00- 30.00 | 40.74 |
| 186 1,1-Dichloropropene | | | | | CAS #: 563-58-6 | | |
| 16.682 | 16.682 (1.034) | 110 | 40673 | 5.00000 | 5.261 | 70.00- 130.00 | 100.00 |
| 16.682 | 16.682 (1.034) | 75 | 133563 | | | 0.00- 30.00 | 328.38 |
| 79 1,1,1,2-Tetrachloroethane | | | | | CAS #: 630-20-6 | | |
| 23.071 | 23.071 (1.006) | 131 | 137838 | 5.00000 | 4.945 | 70.00- 130.00 | 100.00 |
| 23.071 | 23.071 (1.006) | 117 | 79982 | | | 0.00- 30.00 | 58.03 |
| 23.071 | 23.071 (1.006) | 95 | 67208 | | | 0.00- 30.00 | 48.76 |
| 91 1,2,3-Trichloropropane | | | | | CAS #: 96-18-4 | | |
| 24.783 | 24.783 (1.081) | 110 | 83736 | 5.00000 | 4.687 | 70.00- 130.00 | 100.00 |
| 24.783 | 24.783 (1.081) | 75 | 233160 | | | 0.00- 30.00 | 278.45 |
| 24.783 | 24.783 (1.081) | 61 | 47356 | | | 0.00- 30.00 | 56.55 |
| 93 2-Chlorotoluene | | | | | CAS #: 95-49-8 | | |
| 24.938 | 24.938 (1.088) | 126 | 101506 | 5.00000 | 5.199 | 70.00- 130.00 | 100.00 |
| 24.938 | 24.938 (1.088) | 91 | 378218 | | | 0.00- 30.00 | 372.61 |
| 24.912 | 24.912 (1.087) | 65 | 35150 | | | 0.00- 30.00 | 34.63 |
| 96 4-Chlorotoluene | | | | | CAS #: 106-43-4 | | |
| 25.067 | 25.067 (1.093) | 126 | 148109 | 5.00000 | 5.132 | 70.00- 130.00 | 100.00 |
| 25.067 | 25.067 (1.093) | 91 | 514694 | | | 0.00- 30.00 | 347.51 |
| 25.067 | 25.067 (1.093) | 57 | 192960 | | | 0.00- 30.00 | 130.28 |
| 97 tert-Butylbenzene | | | | | CAS #: 98-06-6 | | |
| 25.343 | 25.343 (1.105) | 119 | 351748 | 5.00000 | 5.372 | 70.00- 130.00 | 100.00 |
| 25.343 | 25.343 (1.105) | 134 | 77128 | | | 0.00- 30.00 | 21.93 |
| 25.343 | 25.343 (1.105) | 91 | 283572 | | | 0.00- 30.00 | 80.62 |
| 99 sec-Butylbenzene | | | | | CAS #: 135-98-8 | | |
| 25.590 | 25.590 (1.116) | 105 | 539244 | 5.00000 | 5.180 | 70.00- 130.00 | 100.00 |
| 25.590 | 25.590 (1.116) | 134 | 92943 | | | 0.00- 30.00 | 17.24 |
| 25.590 | 25.590 (1.116) | 91 | 98725 | | | 0.00- 30.00 | 18.31 |
| 100 p-Cymene | | | | | CAS #: 99-87-6 | | |
| 25.724 | 25.724 (1.122) | 119 | 433072 | 5.00000 | 5.522 | 70.00- 130.00 | 100.00 |
| 25.724 | 25.724 (1.122) | 134 | 100151 | | | 0.00- 30.00 | 23.13 |
| 25.724 | 25.724 (1.122) | 91 | 124248 | | | 0.00- 30.00 | 28.69 |
| 103 1,2,3-trimethylbenzene | | | | | CAS #: 526-73-8 | | |
| 25.903 | 25.903 (1.130) | 120 | 162625 | 5.00000 | 5.352 | 70.00- 130.00 | 100.00 |

| RT | EXP RT (REL RT) | MASS | RESPONSE | AMOUNTS CAL-AMT ( PPBV) | AMOUNTS ON-COL ( PPBV) | TARGET RANGE | RATIO |
|---|---|---|---|---|---|---|---|
| 103 1,2,3-trimethylbenzene (continued) | | | | | | | |
| 25.903 | 25.903 (1.130) | 105 | 436426 | | | 0.00- 30.00 | 268.36 |
| 25.903 | 25.903 (1.130) | 77 | 57083 | | | 0.00- 30.00 | 35.10 |
| 107 Butylbenzene | | | | | CAS #: 104-51-8 | | |
| 26.195 | 26.195 (1.143) | 134 | 91276 | 5.00000 | 5.227 | 70.00- 130.00 | 100.00 |
| 26.195 | 26.195 (1.143) | 91 | 426423 | | | 445.46- 505.46 | 467.18 |
| 26.195 | 26.195 (1.143) | 92 | 233863 | | | 0.00- 30.00 | 256.22 |
| 110 1,2-dibromo-3-chloropropane | | | | | CAS #: 96-12-8 | | |
| 27.248 | 27.248 (1.188) | 157 | 109017 | 5.00000 | 5.853 | 70.00- 130.00 | 100.00 |
| 27.226 | 27.226 (1.188) | 75 | 131375 | | | 0.00- 30.00 | 120.51 |
| 27.248 | 27.248 (1.188) | 155 | 83307 | | | 0.00- 30.00 | 76.42 |
| 86 1,3-Dichloropropane | | | | | CAS #: 142-28-9 | | |
| 21.693 | 21.693 (1.234) | 76 | 153042 | 5.00000 | 4.883 | 70.00- 130.00 | 100.00 |
| 21.660 | 21.660 (1.232) | 41 | 92675 | | | 30.10- 90.10 | 60.56 |
| 21.693 | 21.693 (1.234) | 78 | 48637 | | | 0.00- 30.00 | 31.78 |
| 185 Bromobenzene | | | | | CAS #: 108-86-1 | | |
| 24.732 | 24.732 (1.079) | 156 | 136714 | 5.00000 | 4.680 | 70.00- 130.00 | 100.00 |
| 24.732 | 24.732 (1.079) | 158 | 130748 | | | 0.00- 30.00 | 95.64 |
| 24.732 | 24.732 (1.079) | 77 | 323548 | | | 0.00- 30.00 | 236.66 |

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msde.i
Lab File ID: e031006.d
Lab Smp Id: ICAL
Analysis Type: VOA
Quant Type: ISTD
Operator: cr
Method File: /chem/msde.i/10Mar2012.b/e12l0308b.m
Misc Info: 5.0ppbv (5.0ppbv) -- AT5

Calibration Date: 10-MAR-2012
Calibration Time: 11:52
Client Smp ID: Level 8
Level: LOW
Sample Type: AIR

| | | AREA LIMIT | | | |
|---|---|---|---|---|---|
| COMPOUND | STANDARD | LOWER | UPPER | SAMPLE | %DIFF |
| 46 Bromochloromethan | 53284 | 31970 | 74598 | 55563 | 4.28 |
| 58 1,4-Difluorobenze | 199260 | 119556 | 278964 | 209426 | 5.10 |
| 75 Chlorobenzene-d5 | 174009 | 104405 | 243613 | 181945 | 4.56 |

| | | RT LIMIT | | | |
|---|---|---|---|---|---|
| COMPOUND | STANDARD | LOWER | UPPER | SAMPLE | %DIFF |
| 46 Bromochloromethan | 16.13 | 15.80 | 16.46 | 16.13 | 0.00 |
| 58 1,4-Difluorobenze | 17.59 | 17.26 | 17.92 | 17.59 | 0.00 |
| 75 Chlorobenzene-d5 | 22.93 | 22.60 | 23.26 | 22.93 | 0.00 |

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Data File: /chem/msde.i/10Mar2012.b/e031006.d

Date : 10-MAR-2012 13:23

Client ID: Level 8

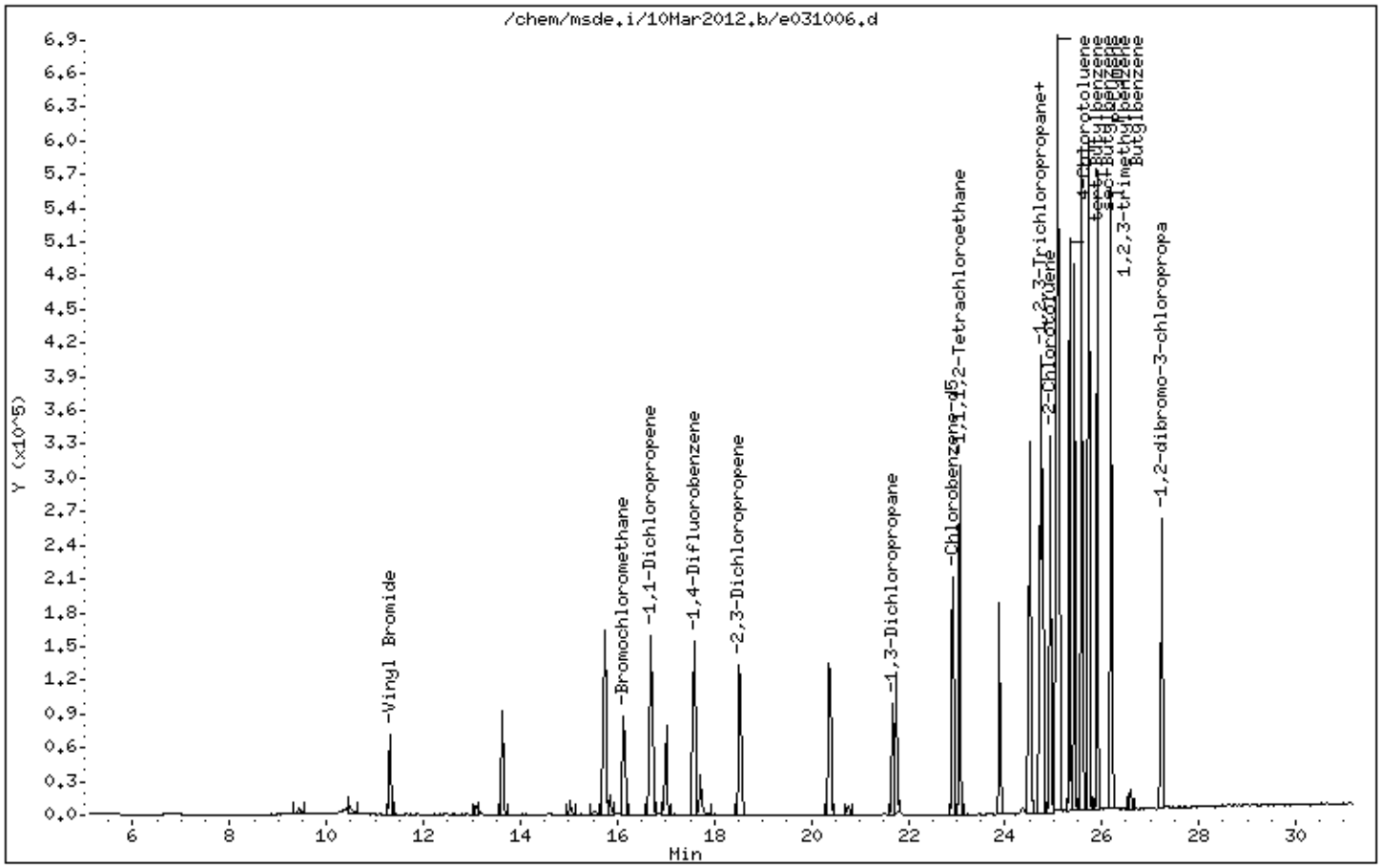
Instrument: msde.i

Sample Info: 250mL #2403-8

Operator: cr

Column phase: RTx-624

Column diameter: 0.32



Air Toxics Ltd.

EPA TO-15/Modified TO14A

Data file : /chem/msde.i/08Mar2012.b/e030814.d
Lab Smp Id: ICAL Client Smp ID: Level 8
Inj Date : 08-MAR-2012 21:02
Operator : srs Inst ID: msde.i
Smp Info : 25mL #2370-176
Misc Info : 5.0ppbv (50ppbv)
Comment : Low-Level/GC-MS
Method : /chem/msde.i/08Mar2012.b/e12l0308a.m
Meth Date : 09-Mar-2012 15:12 croush Quant Type: ISTD
Cal Date : 08-MAR-2012 21:02 Cal File: e030814.d
Als bottle: 8 Calibration Sample, Level: 8
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: HILOcrvFULL.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

| Name | Value | Description |
|---|---|---|
| DF | 1.00000 | Dilution Factor |

| | | | | AMOUNTS | | | |
|---|---|---|---|---|---|---|---|
| | | | | CAL-AMT | ON-COL | | |
| RT | EXP RT (REL RT) | MASS | RESPONSE | ( PPBV) | ( PPBV) | TARGET RANGE | RATIO |
| == | ====== ======== | ==== | ======== | ======= | ======= | ========== | ===== |
| * 46 Bromochloromethane | | | | | CAS #: 74-97-5 | | |
| 16.128 | 16.128 (1.000) | 130 | 68940 | 5.00000 | | 70.00- 130.00 | 100.00 |
| 16.128 | 16.128 (1.000) | 128 | 53262 | | | 0.00- 30.00 | 77.26 |
| 16.128 | 16.128 (1.000) | 49 | 86609 | | | 0.00- 30.00 | 125.63 |
| * 58 1,4-Difluorobenzene | | | | | CAS #: 540-36-3 | | |
| 17.586 | 17.586 (1.000) | 114 | 268720 | 5.00000 | | 70.00- 130.00 | 100.00 |
| 17.586 | 17.586 (1.000) | 88 | 48169 | | | 0.00- 30.00 | 17.93 |
| * 75 Chlorobenzene-d5 | | | | | CAS #: 3114-55-4 | | |
| 22.927 | 22.927 (1.000) | 117 | 235411 | 5.00000 | | 70.00- 130.00 | 100.00 |
| 22.927 | 22.927 (1.000) | 82 | 154863 | | | 0.00- 30.00 | 65.78 |
| $ 54 1,2-Dichloroethane-d4 | | | | | CAS #: 17060-07-0 | | |
| 17.013 | 17.013 (1.055) | 65 | 127900 | 5.00000 | 4.978 | 70.00- 130.00 | 100.00 |
| 17.013 | 17.013 (1.055) | 67 | 65601 | | | 0.00- 30.00 | 51.29 |

| RT | EXP RT (REL RT) | MASS | RESPONSE | AMOUNTS CAL-AMT ( PPBV) | ON-COL ( PPBV) | TARGET RANGE | RATIO |
|---|---|---|---|---|---|---|---|
| $ 67 Toluene-d8 | | | | | CAS #: 2037-26-5 | | |
| 20.368 | 20.368 (1.158) | 98 | 278733 | 5.00000 | 5.150 | 70.00- 130.00 | 100.00 |
| 20.368 | 20.368 (1.158) | 70 | 34162 | | | 0.00- 30.00 | 12.26 |
| 20.368 | 20.368 (1.158) | 100 | 175398 | | | 33.91- 93.91 | 62.93 |
| $ 87 Bromofluorobenzene | | | | | CAS #: 460-00-4 | | |
| 24.526 | 24.526 (1.070) | 174 | 136697 | 5.00000 | 5.076 | 70.00- 130.00 | 100.00 |
| 24.526 | 24.526 (1.070) | 95 | 219437 | | | 125.57- 185.57 | 160.53 |
| 24.526 | 24.526 (1.070) | 176 | 132098 | | | 64.73- 124.73 | 96.64 |
| 2 Propylene | | | | | CAS #: 115-07-1 | | |
| 5.449 | 5.449 (0.338) | 41 | 57207 | 5.00000 | 5.206 | 70.00- 130.00 | 100.00 |
| 5.473 | 5.473 (0.339) | 42 | 36549 | | | 0.00- 30.00 | 63.89 |
| 5.449 | 5.449 (0.338) | 39 | 46151 | | | 0.00- 30.00 | 80.67 |
| 4 Dichlorodifluoromethane/Fr12 | | | | | CAS #: 75-71-8 | | |
| 5.931 | 5.931 (0.368) | 85 | 422584 | 5.00000 | 5.245 | 70.00- 130.00 | 100.00 |
| 5.955 | 5.955 (0.369) | 87 | 138187 | | | 2.22- 62.22 | 32.70 |
| 6 Freon 114 | | | | | CAS #: 76-14-2 | | |
| 7.329 | 7.329 (0.454) | 135 | 217693 | 5.00000 | 5.194 | 70.00- 130.00 | 100.00 |
| 7.329 | 7.329 (0.454) | 137 | 69022 | | | 0.00- 30.00 | 31.71 |
| 7 Chloromethane | | | | | CAS #: 74-87-3 | | |
| 7.691 | 7.691 (0.477) | 50 | 63021 | 5.00000 | 5.293 | 70.00- 130.00 | 100.00 |
| 7.691 | 7.691 (0.477) | 52 | 21162 | | | 0.00- 30.00 | 33.58 |
| 9 Butane | | | | | CAS #: 106-97-8 | | |
| 8.422 | 8.422 (0.522) | 58 | 23897 | 5.00000 | 5.832 | 70.00- 130.00 | 100.00 |
| 8.404 | 8.404 (0.521) | 43 | 124132 | | | 0.00- 30.00 | 519.45 |
| 10 Vinyl Chloride | | | | | CAS #: 75-01-4 | | |
| 8.543 | 8.543 (0.530) | 62 | 99024 | 5.00000 | 5.269 | 70.00- 130.00 | 100.00 |
| 8.543 | 8.543 (0.530) | 64 | 32421 | | | 2.55- 62.55 | 32.74 |
| 11 1,3-Butadiene | | | | | CAS #: 106-99-0 | | |
| 8.786 | 8.786 (0.545) | 54 | 61747 | 5.00000 | 5.228 | 70.00- 130.00 | 100.00 |
| 8.786 | 8.786 (0.545) | 39 | 55978 | | | 0.00- 30.00 | 90.66 |
| 12 Bromomethane | | | | | CAS #: 74-83-9 | | |
| 10.272 | 10.272 (0.637) | 94 | 116142 | 5.00000 | 5.589 | 70.00- 130.00 | 100.00 |
| 10.272 | 10.272 (0.637) | 96 | 109977 | | | 65.25- 125.25 | 94.69 |
| 13 Chloroethane | | | | | CAS #: 75-00-3 | | |
| 10.728 | 10.728 (0.665) | 64 | 54639 | 5.00000 | 5.456 | 70.00- 130.00 | 100.00 |
| 10.728 | 10.728 (0.665) | 49 | 11746 | | | 0.00- 30.00 | 21.50 |

| RT | EXP RT (REL RT) | MASS | RESPONSE | AMOUNTS CAL-AMT ( PPBV) | ON-COL ( PPBV) | TARGET RANGE | RATIO |
|---|---|---|---|---|---|---|---|
| 13 Chloroethane (continued) | | | | | | | |
| 10.728 | 10.728 (0.665) | 66 | 18785 | | | 0.00- 30.00 | 34.38 |
| 14 Isopentane | | | | | CAS #: 78-78-4 | | |
| 10.852 | 10.852 (0.673) | 57 | 67039 | 5.00000 | 5.300 | 70.00- 130.00 | 100.00 |
| 10.852 | 10.852 (0.673) | 43 | 75815 | | | 0.00- 30.00 | 113.09 |
| 10.852 | 10.852 (0.673) | 42 | 65400 | | | 0.00- 30.00 | 97.56 |
| 16 Trichlorofluoromethane/Fr11 | | | | | CAS #: 75-69-4 | | |
| 11.474 | 11.474 (0.711) | 101 | 438777 | 5.00000 | 5.164 | 70.00- 130.00 | 100.00 |
| 11.474 | 11.474 (0.711) | 103 | 284645 | | | 36.02- 96.02 | 64.87 |
| 18 Ethanol | | | | | CAS #: 64-17-5 | | |
| 12.324 | 12.324 (0.764) | 45 | 22341 | 5.00000 | 5.037 | 70.00- 130.00 | 100.00 |
| 12.324 | 12.324 (0.764) | 46 | 9262 | | | 0.00- 30.00 | 41.46 |
| 12.324 | 12.324 (0.764) | 43 | 6955 | | | 0.00- 30.00 | 31.13 |
| 19 Freon 113 | | | | | CAS #: 76-13-1 | | |
| 12.801 | 12.801 (0.794) | 151 | 186750 | 5.00000 | 5.198 | 70.00- 130.00 | 100.00 |
| 12.801 | 12.801 (0.794) | 153 | 121371 | | | 34.27- 94.27 | 64.99 |
| 12.801 | 12.801 (0.794) | 101 | 263082 | | | 0.00- 30.00 | 140.87 |
| 21 1,1-Dichloroethene | | | | | CAS #: 75-35-4 | | |
| 12.821 | 12.821 (0.795) | 98 | 67305 | 5.00000 | 5.509 | 70.00- 130.00 | 100.00 |
| 12.821 | 12.821 (0.795) | 61 | 166600 | | | 0.00- 30.00 | 247.53 |
| 12.821 | 12.821 (0.795) | 96 | 102248 | | | 0.00- 30.00 | 151.92 |
| 22 Acetone | | | | | CAS #: 67-64-1 | | |
| 13.070 | 13.070 (0.810) | 58 | 41617 | 5.00000 | 5.341 | 70.00- 130.00 | 100.00 |
| 13.070 | 13.070 (0.810) | 43 | 133866 | | | 0.00- 30.00 | 321.66 |
| 25 2-Propanol | | | | | CAS #: 67-63-0 | | |
| 13.360 | 13.360 (0.828) | 45 | 111817 | 5.00000 | 5.308 | 70.00- 130.00 | 100.00 |
| 13.360 | 13.360 (0.828) | 43 | 34177 | | | 0.00- 30.00 | 30.57 |
| 13.360 | 13.360 (0.828) | 59 | 5274 | | | 0.00- 30.00 | 4.72 |
| 23 Carbon Disulfide | | | | | CAS #: 75-15-0 | | |
| 13.194 | 13.194 (0.818) | 76 | 269365 | 5.00000 | 5.254 | 70.00- 130.00 | 100.00 |
| 26 3-Chloroprene | | | | | CAS #: 107-05-1 | | |
| 13.588 | 13.588 (0.843) | 76 | 41193 | 5.00000 | 5.448 | 70.00- 130.00 | 100.00 |
| 13.588 | 13.588 (0.843) | 41 | 67029 | | | 0.00- 30.00 | 162.72 |
| 29 Methylene Chloride | | | | | CAS #: 75-09-2 | | |
| 13.885 | 13.885 (0.861) | 84 | 46003 | 5.00000 | 4.783 | 70.00- 130.00 | 100.00 |
| 13.885 | 13.885 (0.861) | 49 | 35893 | | | 0.00- 30.00 | 78.02 |

| RT | EXP RT (REL RT) | MASS | RESPONSE | AMOUNTS CAL-AMT ( PPBV) | ON-COL ( PPBV) | TARGET RANGE | RATIO |
|---|---|---|---|---|---|---|---|
| | 29 Methylene Chloride (continued) | | | | | | |
| 13.885 | 13.885 (0.861) | 51 | 11873 | | | 0.00- 30.00 | 25.81 |
| | 30 tert-butyl alcohol | | | | CAS #: 75-65-0 | | |
| 14.022 | 14.022 (0.869) | 59 | 111752 | 5.00000 | 5.596 | 70.00- 130.00 | 100.00 |
| 14.022 | 14.022 (0.869) | 41 | 25505 | | | 0.00- 30.00 | 22.82 |
| 14.022 | 14.022 (0.869) | 57 | 11894 | | | 0.00- 30.00 | 10.64 |
| | 31 MTBE | | | | CAS #: 1634-04-4 | | |
| 14.187 | 14.187 (0.880) | 73 | 354700 | 5.00000 | 5.725 | 70.00- 130.00 | 100.00 |
| 14.187 | 14.187 (0.880) | 57 | 56203 | | | 0.00- 30.00 | 15.85 |
| 14.187 | 14.187 (0.880) | 41 | 56907 | | | 0.00- 30.00 | 16.04 |
| | 32 trans-1,2-Dichloroethene | | | | CAS #: 156-60-5 | | |
| 14.242 | 14.242 (0.883) | 98 | 71291 | 5.00000 | 5.447 | 70.00- 130.00 | 100.00 |
| 14.242 | 14.242 (0.883) | 61 | 146304 | | | 0.00- 30.00 | 205.22 |
| 14.242 | 14.242 (0.883) | 96 | 110554 | | | 0.00- 30.00 | 155.07 |
| | 35 Hexane | | | | CAS #: 110-54-3 | | |
| 14.544 | 14.544 (0.902) | 57 | 129390 | 5.00000 | 5.760 | 70.00- 130.00 | 100.00 |
| 14.544 | 14.544 (0.902) | 43 | 68737 | | | 0.00- 30.00 | 53.12 |
| 14.544 | 14.544 (0.902) | 86 | 31057 | | | 0.00- 30.00 | 24.00 |
| | 36 Isopropyl ether | | | | CAS #: 108-20-3 | | |
| 14.874 | 14.874 (0.922) | 45 | 137988 | 5.00000 | 5.664 | 70.00- 130.00 | 100.00 |
| 14.874 | 14.874 (0.922) | 87 | 61626 | | | 0.00- 30.00 | 44.66 |
| 14.874 | 14.874 (0.922) | 59 | 19817 | | | 0.00- 30.00 | 14.36 |
| | 37 1,1-Dichloroethane | | | | CAS #: 75-34-3 | | |
| 14.956 | 14.956 (0.927) | 63 | 200524 | 5.00000 | 5.421 | 70.00- 130.00 | 100.00 |
| 14.956 | 14.956 (0.927) | 65 | 64621 | | | 0.00- 30.00 | 32.23 |
| | 38 Vinyl Acetate | | | | CAS #: 108-05-4 | | |
| 14.956 | 14.956 (0.927) | 86 | 31206 | 5.00000 | 5.710 | 70.00- 130.00 | 100.00 |
| 14.956 | 14.956 (0.927) | 42 | 22546 | | | 0.00- 30.00 | 72.25 |
| 14.956 | 14.956 (0.927) | 43 | 204743 | | | 0.00- 30.00 | 656.10 |
| | 40 Ethyl-tert-butyl ether | | | | CAS #: 637-92-3 | | |
| 15.368 | 15.368 (0.953) | 59 | 188810 | 5.00000 | 5.566 | 70.00- 130.00 | 100.00 |
| 15.368 | 15.368 (0.953) | 87 | 94092 | | | 0.00- 30.00 | 49.83 |
| 15.368 | 15.368 (0.953) | 41 | 33010 | | | 0.00- 30.00 | 17.48 |
| | 42 2-Butanone | | | | CAS #: 78-93-3 | | |
| 15.766 | 15.766 (0.978) | 72 | 76177 | 5.00000 | 5.393 | 70.00- 130.00 | 100.00 |
| 15.766 | 15.766 (0.978) | 43 | 185742 | | | 0.00- 30.00 | 243.83 |
| 15.766 | 15.766 (0.978) | 57 | 20630 | | | 0.00- 30.00 | 27.08 |

| RT | EXP RT (REL RT) | MASS | RESPONSE | AMOUNTS CAL-AMT ( PPBV) | ON-COL ( PPBV) | TARGET RANGE | RATIO |
|---|---|---|---|---|---|---|---|
| 41 cis-1,2-Dichloroethene | | | | | CAS #: 156-59-2 | | |
| 15.787 | 15.787 (0.979) | 98 | 113864 | 5.00000 | 5.786 | 70.00- 130.00 | 100.00 |
| 15.787 | 15.787 (0.979) | 61 | 218008 | | | 0.00- 30.00 | 191.46 |
| 15.787 | 15.787 (0.979) | 96 | 177515 | | | 124.52- 184.52 | 155.90 |
| 44 Tetrahydrofuran | | | | | CAS #: 109-99-9 | | |
| 16.128 | 16.128 (1.000) | 42 | 78471 | 5.00000 | 5.573 | 70.00- 130.00 | 100.00 |
| 16.128 | 16.128 (1.000) | 71 | 51618 | | | 0.00- 30.00 | 65.78 |
| 16.128 | 16.128 (1.000) | 72 | 57672 | | | 0.00- 30.00 | 73.49 |
| 47 Chloroform | | | | | CAS #: 67-66-3 | | |
| 16.189 | 16.189 (1.004) | 83 | 306595 | 5.00000 | 5.414 | 70.00- 130.00 | 100.00 |
| 16.189 | 16.189 (1.004) | 85 | 195660 | | | 0.00- 30.00 | 63.82 |
| 49 1,1,1-Trichloroethane | | | | | CAS #: 71-55-6 | | |
| 16.467 | 16.467 (1.021) | 97 | 349030 | 5.00000 | 5.394 | 70.00- 130.00 | 100.00 |
| 16.467 | 16.467 (1.021) | 99 | 226748 | | | 0.00- 30.00 | 64.97 |
| 48 Cyclohexane | | | | | CAS #: 110-82-7 | | |
| 16.467 | 16.467 (1.021) | 84 | 174099 | 5.00000 | 5.758 | 70.00- 130.00 | 100.00 |
| 16.467 | 16.467 (1.021) | 56 | 145156 | | | 0.00- 30.00 | 83.38 |
| 16.467 | 16.467 (1.021) | 41 | 71637 | | | 0.00- 30.00 | 41.15 |
| 51 Carbon Tetrachloride | | | | | CAS #: 56-23-5 | | |
| 16.652 | 16.652 (1.032) | 119 | 336220 | 5.00000 | 6.944 | 70.00- 130.00 | 100.00 |
| 16.652 | 16.652 (1.032) | 117 | 352597 | | | 0.00- 30.00 | 104.87 |
| 52 2,2,4-Trimethylpentane | | | | | CAS #: 540-84-1 | | |
| 16.926 | 16.926 (1.049) | 56 | 193173 | 5.00000 | 5.577 | 70.00- 130.00 | 100.00 |
| 16.926 | 16.926 (1.049) | 57 | 591136 | | | 0.00- 30.00 | 306.01 |
| 16.926 | 16.926 (1.049) | 41 | 177687 | | | 0.00- 30.00 | 91.98 |
| 53 Benzene | | | | | CAS #: 71-43-2 | | |
| 17.013 | 17.013 (0.967) | 78 | 374438 | 5.00000 | 5.432 | 70.00- 130.00 | 100.00 |
| 17.013 | 17.013 (0.967) | 77 | 89359 | | | 0.00- 30.00 | 23.86 |
| 55 tert-amyl methyl ether | | | | | CAS #: 994-05-8 | | |
| 17.042 | 17.042 (0.969) | 87 | 57468 | 5.00000 | 5.656 | 70.00- 130.00 | 100.00 |
| 17.042 | 17.042 (0.969) | 73 | 225966 | | | 0.00- 30.00 | 393.20 |
| 17.042 | 17.042 (0.969) | 55 | 57052 | | | 0.00- 30.00 | 99.28 |
| 56 1,2-Dichloroethane | | | | | CAS #: 107-06-2 | | |
| 17.130 | 17.130 (0.974) | 62 | 208682 | 5.00000 | 5.369 | 70.00- 130.00 | 100.00 |
| 17.130 | 17.130 (0.974) | 64 | 68877 | | | 0.00- 30.00 | 33.01 |
| 57 Heptane | | | | | CAS #: 142-82-5 | | |
| 17.159 | 17.159 (0.976) | 57 | 89757 | 5.00000 | 6.300 | 70.00- 130.00 | 100.00 |

| RT | EXP RT (REL RT) | MASS | RESPONSE | AMOUNTS CAL-AMT ( PPBV) | ON-COL ( PPBV) | TARGET RANGE | RATIO |
|---|---|---|---|---|---|---|---|
| 57 Heptane (continued) | | | | | | | |
| 17.159 | 17.159 (0.976) | 100 | 53041 | | | 0.00- 30.00 | 59.09 |
| 17.159 | 17.159 (0.976) | 43 | 134546 | | | 0.00- 30.00 | 149.90 |
| 59 Trichloroethene | | | | | CAS #: 79-01-6 | | |
| 18.025 | 18.025 (1.025) | 130 | 158588 | 5.00000 | 5.209 | 70.00- 130.00 | 100.00 |
| 18.025 | 18.025 (1.025) | 95 | 181142 | | | 0.00- 30.00 | 114.22 |
| 18.025 | 18.025 (1.025) | 97 | 116929 | | | 0.00- 30.00 | 73.73 |
| 60 Methylcyclohexane | | | | | CAS #: 108-87-2 | | |
| 18.272 | 18.272 (1.039) | 83 | 226605 | 5.00000 | 5.762 | 70.00- 130.00 | 100.00 |
| 18.272 | 18.272 (1.039) | 55 | 140093 | | | 0.00- 30.00 | 61.82 |
| 18.272 | 18.272 (1.039) | 56 | 40828 | | | 0.00- 30.00 | 18.02 |
| 61 1,2-Dichloropropane | | | | | CAS #: 78-87-5 | | |
| 18.519 | 18.519 (1.053) | 63 | 113552 | 5.00000 | 5.358 | 70.00- 130.00 | 100.00 |
| 18.519 | 18.519 (1.053) | 62 | 80055 | | | 0.00- 30.00 | 70.50 |
| 18.519 | 18.519 (1.053) | 41 | 68164 | | | 29.06- 89.06 | 60.03 |
| 62 1,4-Dioxane | | | | | CAS #: 123-91-1 | | |
| 18.629 | 18.629 (1.059) | 88 | 87489 | 5.00000 | 5.788 | 70.00- 130.00 | 100.00 |
| 18.629 | 18.629 (1.059) | 58 | 50695 | | | 0.00- 30.00 | 57.94 |
| 18.629 | 18.629 (1.059) | 57 | 16437 | | | 0.00- 30.00 | 18.79 |
| 63 Bromodichloromethane | | | | | CAS #: 75-27-4 | | |
| 18.959 | 18.959 (1.078) | 83 | 328132 | 5.00000 | 5.542 | 70.00- 130.00 | 100.00 |
| 18.959 | 18.959 (1.078) | 85 | 206836 | | | 0.00- 30.00 | 63.03 |
| 64 cis-1,3-Dichloropropene | | | | | CAS #: 10061-01-5 | | |
| 19.865 | 19.865 (1.130) | 75 | 193306 | 5.00000 | 5.271 | 70.00- 130.00 | 100.00 |
| 19.865 | 19.865 (1.130) | 77 | 59611 | | | 0.00- 30.00 | 30.84 |
| 19.865 | 19.865 (1.130) | 39 | 77432 | | | 10.38- 70.38 | 40.06 |
| 65 4-Methyl-2-pentanone | | | | | CAS #: 108-10-1 | | |
| 20.076 | 20.076 (1.142) | 43 | 168657 | 5.00000 | 6.157 | 70.00- 130.00 | 100.00 |
| 20.076 | 20.076 (1.142) | 58 | 80321 | | | 0.00- 30.00 | 47.62 |
| 20.076 | 20.076 (1.142) | 85 | 46777 | | | 0.00- 30.00 | 27.73 |
| 68 Toluene | | | | | CAS #: 108-88-3 | | |
| 20.525 | 20.525 (1.167) | 91 | 450975 | 5.00000 | 5.482 | 70.00- 130.00 | 100.00 |
| 20.525 | 20.525 (1.167) | 92 | 263789 | | | 0.00- 30.00 | 58.49 |
| 69 trans-1,3-Dichloropropene | | | | | CAS #: 10061-02-6 | | |
| 20.995 | 20.995 (0.916) | 75 | 299837 | 5.00000 | 5.939 | 70.00- 130.00 | 100.00 |
| 20.995 | 20.995 (0.916) | 77 | 71624 | | | 0.00- 30.00 | 23.89 |
| 20.995 | 20.995 (0.916) | 39 | 103887 | | | 4.84- 64.84 | 34.65 |

| RT | EXP RT (REL RT) | MASS | RESPONSE | AMOUNTS CAL-AMT ( PPBV) | ON-COL ( PPBV) | TARGET RANGE | RATIO |
|---|---|---|---|---|---|---|---|
| 70 1,1,2-Trichloroethane | | | | | CAS #: 79-00-5 | | |
| 21.335 | 21.335 (0.931) | 97 | 158742 | 5.00000 | 5.219 | 70.00- 130.00 | 100.00 |
| 21.335 | 21.335 (0.931) | 99 | 98082 | | | 0.00- 30.00 | 61.79 |
| 21.335 | 21.335 (0.931) | 83 | 137617 | | | 52.76- 112.76 | 86.69 |
| 71 Tetrachloroethene | | | | | CAS #: 127-18-4 | | |
| 21.497 | 21.497 (0.938) | 166 | 185312 | 5.00000 | 5.249 | 70.00- 130.00 | 100.00 |
| 21.497 | 21.497 (0.938) | 129 | 162843 | | | 0.00- 30.00 | 87.88 |
| 21.497 | 21.497 (0.938) | 131 | 156526 | | | 0.00- 30.00 | 84.47 |
| 72 2-Hexanone | | | | | CAS #: 591-78-6 | | |
| 21.660 | 21.660 (0.945) | 58 | 108704 | 5.00000 | 5.647 | 70.00- 130.00 | 100.00 |
| 21.660 | 21.660 (0.945) | 43 | 166980 | | | 0.00- 30.00 | 153.61 |
| 21.660 | 21.660 (0.945) | 100 | 28992 | | | 0.00- 30.00 | 26.67 |
| 73 Dibromochloromethane | | | | | CAS #: 124-48-1 | | |
| 22.018 | 22.018 (0.960) | 129 | 294166 | 5.00000 | 5.684 | 70.00- 130.00 | 100.00 |
| 22.018 | 22.018 (0.960) | 127 | 226443 | | | 0.00- 30.00 | 76.98 |
| 74 1,2-Dibromoethane | | | | | CAS #: 106-93-4 | | |
| 22.278 | 22.278 (0.972) | 107 | 254333 | 5.00000 | 5.452 | 70.00- 130.00 | 100.00 |
| 22.278 | 22.278 (0.972) | 109 | 225303 | | | 0.00- 30.00 | 88.59 |
| 76 Chlorobenzene | | | | | CAS #: 108-90-7 | | |
| 22.951 | 22.951 (1.001) | 112 | 351957 | 5.00000 | 5.246 | 70.00- 130.00 | 100.00 |
| 22.951 | 22.951 (1.001) | 114 | 113671 | | | 0.00- 30.00 | 32.30 |
| 22.951 | 22.951 (1.001) | 77 | 240614 | | | 36.24- 96.24 | 68.36 |
| 77 Ethyl Benzene | | | | | CAS #: 100-41-4 | | |
| 23.023 | 23.023 (1.004) | 106 | 187942 | 5.00000 | 5.734 | 70.00- 130.00 | 100.00 |
| 23.023 | 23.023 (1.004) | 91 | 659922 | | | 0.00- 30.00 | 351.13 |
| 80 m,p-Xylene | | | | | CAS #: 108-38-3 | | |
| 23.192 | 23.192 (1.012) | 106 | 235040 | 5.00000 | 5.959 | 70.00- 130.00 | 100.00 |
| 23.192 | 23.192 (1.012) | 91 | 522797 | | | 0.00- 30.00 | 222.43 |
| 81 o-Xylene | | | | | CAS #: 95-47-6 | | |
| 23.770 | 23.770 (1.037) | 106 | 226714 | 5.00000 | 5.979 | 70.00- 130.00 | 100.00 |
| 23.770 | 23.770 (1.037) | 91 | 534389 | | | 0.00- 30.00 | 235.71 |
| 83 Styrene | | | | | CAS #: 100-42-5 | | |
| 23.818 | 23.818 (1.039) | 104 | 343895 | 5.00000 | 6.008 | 70.00- 130.00 | 100.00 |
| 23.794 | 23.794 (1.038) | 78 | 207260 | | | 0.00- 30.00 | 60.27 |
| 84 Bromoform | | | | | CAS #: 75-25-2 | | |
| 24.132 | 24.132 (1.053) | 173 | 260610 | 5.00000 | 5.825 | 70.00- 130.00 | 100.00 |

| RT | EXP RT (REL RT) | MASS | RESPONSE | AMOUNTS CAL-AMT ( PPBV) | ON-COL ( PPBV) | TARGET RANGE | RATIO |
|---|---|---|---|---|---|---|---|
| 84 Bromoform (continued) | | | | | | | |
| 24.132 | 24.132 (1.053) | 171 | 136167 | | | 0.00- 30.00 | 52.25 |
| 85 Cumene | | | | | CAS #: 98-82-8 | | |
| 24.228 | 24.228 (1.057) | 105 | 739731 | 5.00000 | 6.025 | 70.00- 130.00 | 100.00 |
| 24.228 | 24.228 (1.057) | 120 | 175438 | | | 0.00- 30.00 | 23.72 |
| 89 1,1,2,2-Tetrachloroethane | | | | | CAS #: 79-34-5 | | |
| 24.680 | 24.680 (1.076) | 83 | 332319 | 5.00000 | 5.238 | 70.00- 130.00 | 100.00 |
| 24.680 | 24.680 (1.076) | 85 | 206353 | | | 0.00- 30.00 | 62.09 |
| 90 Propylbenzene | | | | | CAS #: 103-65-1 | | |
| 24.758 | 24.758 (1.080) | 91 | 902059 | 5.00000 | 5.736 | 70.00- 130.00 | 100.00 |
| 24.758 | 24.758 (1.080) | 120 | 186803 | | | 0.00- 30.00 | 20.71 |
| 92 4-Ethyltoluene | | | | | CAS #: 622-96-8 | | |
| 24.887 | 24.887 (1.085) | 105 | 783479 | 5.00000 | 5.802 | 70.00- 130.00 | 100.00 |
| 24.887 | 24.887 (1.085) | 120 | 210690 | | | 0.00- 30.00 | 26.89 |
| 94 1,3,5-Trimethylbenzene | | | | | CAS #: 108-67-8 | | |
| 24.938 | 24.938 (1.088) | 105 | 666982 | 5.00000 | 5.739 | 70.00- 130.00 | 100.00 |
| 24.938 | 24.938 (1.088) | 120 | 287773 | | | 0.00- 30.00 | 43.15 |
| 98 1,2,4-Trimethylbenzene | | | | | CAS #: 95-63-6 | | |
| 25.410 | 25.410 (1.108) | 105 | 609563 | 5.00000 | 5.958 | 70.00- 130.00 | 100.00 |
| 25.410 | 25.410 (1.108) | 120 | 248256 | | | 0.00- 30.00 | 40.73 |
| 101 1,3-Dichlorobenzene | | | | | CAS #: 541-73-1 | | |
| 25.791 | 25.791 (1.125) | 146 | 359276 | 5.00000 | 5.539 | 70.00- 130.00 | 100.00 |
| 25.791 | 25.791 (1.125) | 148 | 230987 | | | 0.00- 30.00 | 64.29 |
| 25.791 | 25.791 (1.125) | 111 | 173847 | | | 0.00- 30.00 | 48.39 |
| 104 1,4-Dichlorobenzene | | | | | CAS #: 106-46-7 | | |
| 25.903 | 25.903 (1.130) | 146 | 360632 | 5.00000 | 5.557 | 70.00- 130.00 | 100.00 |
| 25.903 | 25.903 (1.130) | 148 | 227834 | | | 0.00- 30.00 | 63.18 |
| 25.903 | 25.903 (1.130) | 111 | 164255 | | | 0.00- 30.00 | 45.55 |
| 105 alpha-chlorotoluene | | | | | CAS #: 100-44-7 | | |
| 26.060 | 26.060 (1.137) | 91 | 578621 | 5.00000 | 5.854 | 70.00- 130.00 | 100.00 |
| 26.060 | 26.060 (1.137) | 126 | 95450 | | | 0.00- 30.00 | 16.50 |
| 108 1,2-Dichlorobenzene | | | | | CAS #: 95-50-1 | | |
| 26.352 | 26.352 (1.149) | 146 | 336310 | 5.00000 | 5.466 | 70.00- 130.00 | 100.00 |
| 26.352 | 26.352 (1.149) | 148 | 210715 | | | 34.07- 94.07 | 62.65 |
| 26.352 | 26.352 (1.149) | 111 | 166810 | | | 19.87- 79.87 | 49.60 |

| RT | EXP RT (REL RT) | MASS | RESPONSE | AMOUNTS CAL-AMT ( PPBV) | ON-COL ( PPBV) | TARGET RANGE | RATIO |
|---|---|---|---|---|---|---|---|
| 112 1,2,4-Trichlorobenzene | | | | | CAS #: 120-82-1 | | |
| 28.145 | 28.145 (1.228) | 180 | 209863 | 5.00000 | 5.218 | 70.00- 130.00 | 100.00 |
| 28.145 | 28.145 (1.228) | 182 | 198620 | | | 0.00- 30.00 | 94.64 |
| 113 Hexachlorobutadiene | | | | | CAS #: 87-68-3 | | |
| 28.235 | 28.235 (1.232) | 225 | 184079 | 5.00000 | 5.122 | 70.00- 130.00 | 100.00 |
| 28.235 | 28.235 (1.232) | 223 | 118195 | | | 0.00- 30.00 | 64.21 |
| 114 Naphthalene | | | | | CAS #: 91-20-3 | | |
| 28.504 | 28.504 (1.243) | 128 | 43349 | 0.50000 | 0.5062 | 70.00- 130.00 | 100.00 |
| 28.504 | 28.504 (1.243) | 127 | 5969 | | | 0.00- 30.00 | 13.77 |

Report Date: 09-Mar-2012 15:12

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msde.i
Lab File ID: e030814.d
Lab Smp Id: ICAL
Analysis Type: VOA
Quant Type: ISTD
Operator: srs
Method File: /chem/msde.i/08Mar2012.b/e12l0308a.m
Misc Info: 5.0ppbv (50ppbv)

Calibration Date: 08-MAR-2012
Calibration Time: 22:56
Client Smp ID: Level 8
Level: LOW
Sample Type: AIR

| | | AREA LIMIT | | | |
|---|---|---|---|---|---|
| COMPOUND | STANDARD | LOWER | UPPER | SAMPLE | %DIFF |
| 46 Bromochloromethan | 73839 | 44303 | 103375 | 68940 | -6.63 |
| 58 1,4-Difluorobenze | 285440 | 171264 | 399616 | 268720 | -5.86 |
| 75 Chlorobenzene-d5 | 243451 | 146071 | 340831 | 235411 | -3.30 |

| | | RT LIMIT | | | |
|---|---|---|---|---|---|
| COMPOUND | STANDARD | LOWER | UPPER | SAMPLE | %DIFF |
| 46 Bromochloromethan | 16.13 | 15.80 | 16.46 | 16.13 | 0.00 |
| 58 1,4-Difluorobenze | 17.59 | 17.26 | 17.92 | 17.59 | 0.00 |
| 75 Chlorobenzene-d5 | 22.93 | 22.60 | 23.26 | 22.93 | 0.00 |

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Data File: /chem/msde.i/08Mar2012.b/e030814.d

Date : 08-MAR-2012 21:02

Client ID: Level 8

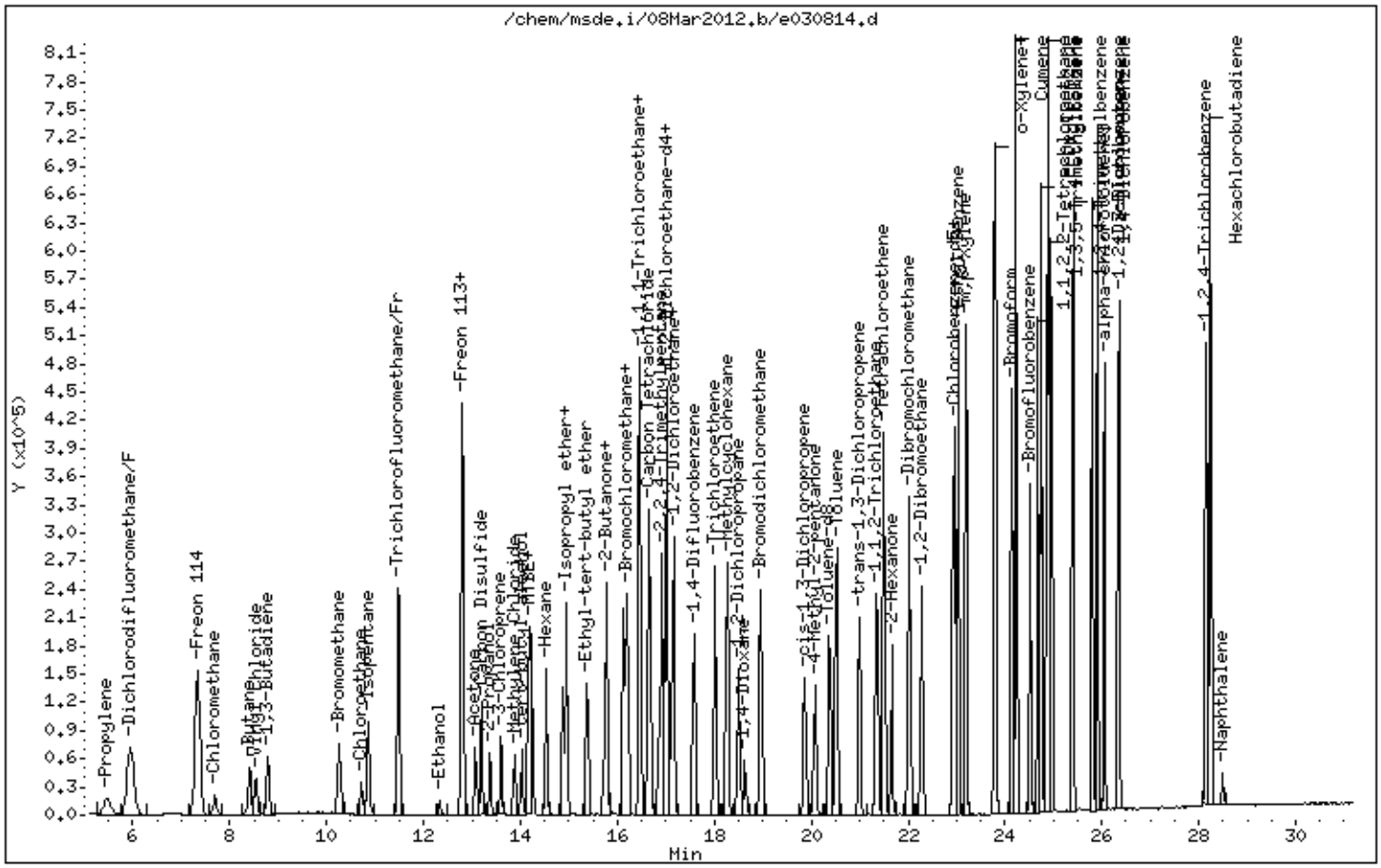
Instrument: msde.i

Sample Info: 25mL #2370-176

Operator: srs

Column phase: RTx-624

Column diameter: 0.32



Air Toxics Ltd.

EPA TO-15/Modified TO14A

Data file : /chem/msde.i/08Mar2012.b/e030815.d
Lab Smp Id: ICAL Client Smp ID: Level 9
Inj Date : 08-MAR-2012 22:56
Operator : srs Inst ID: msde.i
Smp Info : 50mL #2370-176
Misc Info : 10ppbv (50ppbv)
Comment : Low-Level/GC-MS
Method : /chem/msde.i/08Mar2012.b/e12l0308a.m
Meth Date : 09-Mar-2012 15:12 croush Quant Type: ISTD
Cal Date : 08-MAR-2012 22:56 Cal File: e030815.d
Als bottle: 8 Calibration Sample, Level: 9
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: HILOcrvFULL.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

| Name | Value | Description |
|---|---|---|
| DF | 1.00000 | Dilution Factor |

| RT | EXP RT (REL RT) | MASS | RESPONSE | AMOUNTS CAL-AMT ( PPBV) | AMOUNTS ON-COL ( PPBV) | TARGET RANGE | RATIO |
|---|---|---|---|---|---|---|---|
| * 46 Bromochloromethane | | | | | CAS #: 74-97-5 | | |
| 16.128 | 16.128 (1.000) | 130 | 73839 | 5.00000 | | 80.00- 120.00 | 100.00 |
| 16.128 | 16.128 (1.000) | 128 | 56219 | | | 46.14- 106.14 | 76.14 |
| 16.128 | 16.128 (1.000) | 49 | 110133 | | | 119.15- 179.15 | 149.15 |
| * 58 1,4-Difluorobenzene | | | | | CAS #: 540-36-3 | | |
| 17.586 | 17.586 (1.000) | 114 | 285440 | 5.00000 | | 80.00- 120.00 | 100.00 |
| 17.586 | 17.586 (1.000) | 88 | 49963 | | | 0.00- 47.50 | 17.50 |
| * 75 Chlorobenzene-d5 | | | | | CAS #: 3114-55-4 | | |
| 22.927 | 22.927 (1.000) | 117 | 243451 | 5.00000 | | 80.00- 120.00 | 100.00 |
| 22.927 | 22.927 (1.000) | 82 | 157538 | | | 34.71- 94.71 | 64.71 |
| $ 54 1,2-Dichloroethane-d4 | | | | | CAS #: 17060-07-0 | | |
| 17.013 | 17.013 (1.055) | 65 | 135412 | 5.00000 | 4.921 | 80.00- 120.00 | 100.00 |
| 17.013 | 17.013 (1.055) | 67 | 71307 | | | 22.66- 82.66 | 52.66 |

| RT | EXP RT (REL RT) | MASS | RESPONSE | AMOUNTS CAL-AMT ( PPBV) | ON-COL ( PPBV) | TARGET RANGE | RATIO |
|---|---|---|---|---|---|---|---|
| $ 67 Toluene-d8 | | | | | CAS #: 2037-26-5 | | |
| 20.368 | 20.368 (1.158) | 98 | 291907 | 5.00000 | 5.077 | 80.00- 120.00 | 100.00 |
| 20.368 | 20.368 (1.158) | 70 | 35701 | | | 0.00- 42.23 | 12.23 |
| 20.368 | 20.368 (1.158) | 100 | 186562 | | | 33.91- 93.91 | 63.91 |
| $ 87 Bromofluorobenzene | | | | | CAS #: 460-00-4 | | |
| 24.526 | 24.526 (1.070) | 174 | 142712 | 5.00000 | 5.124 | 80.00- 120.00 | 100.00 |
| 24.526 | 24.526 (1.070) | 95 | 222019 | | | 125.57- 185.57 | 155.57 |
| 24.526 | 24.526 (1.070) | 176 | 135191 | | | 64.73- 124.73 | 94.73 |
| 2 Propylene | | | | | CAS #: 115-07-1 | | |
| 5.497 | 5.497 (0.341) | 41 | 120803 | 10.0000 | 10.264 | 80.00- 120.00 | 100.00 |
| 5.473 | 5.473 (0.339) | 42 | 77955 | | | 34.53- 94.53 | 64.53 |
| 5.497 | 5.497 (0.341) | 39 | 101237 | | | 53.80- 113.80 | 83.80 |
| 4 Dichlorodifluoromethane/Fr12 | | | | | CAS #: 75-71-8 | | |
| 5.955 | 5.955 (0.369) | 85 | 858789 | 10.0000 | 9.953 | 80.00- 120.00 | 100.00 |
| 5.955 | 5.955 (0.369) | 87 | 276718 | | | 2.22- 62.22 | 32.22 |
| 6 Freon 114 | | | | | CAS #: 76-14-2 | | |
| 7.329 | 7.329 (0.454) | 135 | 447488 | 10.0000 | 9.968 | 80.00- 120.00 | 100.00 |
| 7.329 | 7.329 (0.454) | 137 | 145023 | | | 2.41- 62.41 | 32.41 |
| 7 Chloromethane | | | | | CAS #: 74-87-3 | | |
| 7.691 | 7.691 (0.477) | 50 | 131137 | 10.0000 | 10.283 | 80.00- 120.00 | 100.00 |
| 7.715 | 7.715 (0.478) | 52 | 43994 | | | 3.55- 63.55 | 33.55 |
| 9 Butane | | | | | CAS #: 106-97-8 | | |
| 8.404 | 8.404 (0.521) | 58 | 51794 | 10.0000 | 11.801 | 80.00- 120.00 | 100.00 |
| 8.404 | 8.404 (0.521) | 43 | 264301 | | | 480.29- 540.29 | 510.29 |
| 10 Vinyl Chloride | | | | | CAS #: 75-01-4 | | |
| 8.543 | 8.543 (0.530) | 62 | 202653 | 10.0000 | 10.068 | 80.00- 120.00 | 100.00 |
| 8.543 | 8.543 (0.530) | 64 | 65961 | | | 2.55- 62.55 | 32.55 |
| 11 1,3-Butadiene | | | | | CAS #: 106-99-0 | | |
| 8.786 | 8.786 (0.545) | 54 | 130175 | 10.0000 | 10.290 | 80.00- 120.00 | 100.00 |
| 8.786 | 8.786 (0.545) | 39 | 120082 | | | 62.25- 122.25 | 92.25 |
| 12 Bromomethane | | | | | CAS #: 74-83-9 | | |
| 10.251 | 10.251 (0.636) | 94 | 222010 | 10.0000 | 9.976 | 80.00- 120.00 | 100.00 |
| 10.251 | 10.251 (0.636) | 96 | 211474 | | | 65.25- 125.25 | 95.25 |
| 13 Chloroethane | | | | | CAS #: 75-00-3 | | |
| 10.728 | 10.728 (0.665) | 64 | 109186 | 10.0000 | 10.180 | 80.00- 120.00 | 100.00 |
| 10.728 | 10.728 (0.665) | 49 | 23751 | | | 0.00- 51.75 | 21.75 |

| RT | EXP RT (REL RT) | MASS | RESPONSE | AMOUNTS CAL-AMT ( PPBV) | ON-COL ( PPBV) | TARGET RANGE | RATIO |
|---|---|---|---|---|---|---|---|
| 13 Chloroethane (continued) | | | | | | | |
| 10.728 | 10.728 (0.665) | 66 | 37158 | | | 4.03- 64.03 | 34.03 |
| 14 Isopentane | | | | | CAS #: 78-78-4 | | |
| 10.852 | 10.852 (0.673) | 57 | 136532 | 10.0000 | 10.079 | 80.00- 120.00 | 100.00 |
| 10.852 | 10.852 (0.673) | 43 | 156333 | | | 84.50- 144.50 | 114.50 |
| 10.852 | 10.852 (0.673) | 42 | 134513 | | | 68.52- 128.52 | 98.52 |
| 16 Trichlorofluoromethane/Fr11 | | | | | CAS #: 75-69-4 | | |
| 11.474 | 11.474 (0.711) | 101 | 863936 | 10.0000 | 9.494 | 80.00- 120.00 | 100.00 |
| 11.474 | 11.474 (0.711) | 103 | 570366 | | | 36.02- 96.02 | 66.02 |
| 18 Ethanol | | | | | CAS #: 64-17-5 | | |
| 12.324 | 12.324 (0.764) | 45 | 48118 | 10.0000 | 10.128 | 80.00- 120.00 | 100.00 |
| 12.324 | 12.324 (0.764) | 46 | 19837 | | | 11.23- 71.23 | 41.23 |
| 12.324 | 12.324 (0.764) | 43 | 14329 | | | 0.00- 59.78 | 29.78 |
| 19 Freon 113 | | | | | CAS #: 76-13-1 | | |
| 12.801 | 12.801 (0.794) | 151 | 378054 | 10.0000 | 9.825 | 80.00- 120.00 | 100.00 |
| 12.801 | 12.801 (0.794) | 153 | 242958 | | | 34.27- 94.27 | 64.27 |
| 12.801 | 12.801 (0.794) | 101 | 515333 | | | 106.31- 166.31 | 136.31 |
| 21 1,1-Dichloroethene | | | | | CAS #: 75-35-4 | | |
| 12.821 | 12.821 (0.795) | 98 | 135007 | 10.0000 | 10.317 | 80.00- 120.00 | 100.00 |
| 12.821 | 12.821 (0.795) | 61 | 339312 | | | 221.33- 281.33 | 251.33 |
| 12.821 | 12.821 (0.795) | 96 | 211847 | | | 126.92- 186.92 | 156.92 |
| 22 Acetone | | | | | CAS #: 67-64-1 | | |
| 13.070 | 13.070 (0.810) | 58 | 85334 | 10.0000 | 10.226 | 80.00- 120.00 | 100.00 |
| 13.070 | 13.070 (0.810) | 43 | 274505 | | | 291.68- 351.68 | 321.68 |
| 25 2-Propanol | | | | | CAS #: 67-63-0 | | |
| 13.360 | 13.360 (0.828) | 45 | 242476 | 10.0000 | 10.748 | 80.00- 120.00 | 100.00 |
| 13.360 | 13.360 (0.828) | 43 | 66141 | | | 0.00- 57.28 | 27.28 |
| 13.360 | 13.360 (0.828) | 59 | 11312 | | | 0.00- 34.67 | 4.67 |
| 23 Carbon Disulfide | | | | | CAS #: 75-15-0 | | |
| 13.194 | 13.194 (0.818) | 76 | 540364 | 10.0000 | 9.841 | 80.00- 120.00 | 100.00 |
| 26 3-Chloroprene | | | | | CAS #: 107-05-1 | | |
| 13.588 | 13.588 (0.843) | 76 | 86588 | 10.0000 | 10.692 | 80.00- 120.00 | 100.00 |
| 13.588 | 13.588 (0.843) | 41 | 143366 | | | 135.57- 195.57 | 165.57 |
| 29 Methylene Chloride | | | | | CAS #: 75-09-2 | | |
| 13.885 | 13.885 (0.861) | 84 | 89234 | 10.0000 | 8.663 | 80.00- 120.00 | 100.00 |
| 13.885 | 13.885 (0.861) | 49 | 72300 | | | 51.02- 111.02 | 81.02 |

| RT | EXP RT (REL RT) | MASS | RESPONSE | AMOUNTS CAL-AMT ( PPBV) | ON-COL ( PPBV) | TARGET RANGE | RATIO |
|---|---|---|---|---|---|---|---|
| 29 Methylene Chloride (continued) | | | | | | | |
| 13.885 | 13.885 (0.861) | 51 | 23055 | | | 0.00- 55.84 | 25.84 |
| 30 tert-butyl alcohol | | | | | CAS #: 75-65-0 | | |
| 14.023 | 14.023 (0.869) | 59 | 233491 | 10.0000 | 10.915 | 80.00- 120.00 | 100.00 |
| 14.023 | 14.023 (0.869) | 41 | 50866 | | | 0.00- 51.78 | 21.78 |
| 14.023 | 14.023 (0.869) | 57 | 24712 | | | 0.00- 40.58 | 10.58 |
| 31 MTBE | | | | | CAS #: 1634-04-4 | | |
| 14.187 | 14.187 (0.880) | 73 | 729786 | 10.0000 | 10.998 | 80.00- 120.00 | 100.00 |
| 14.187 | 14.187 (0.880) | 57 | 120512 | | | 0.00- 46.51 | 16.51 |
| 14.187 | 14.187 (0.880) | 41 | 110700 | | | 0.00- 45.17 | 15.17 |
| 32 trans-1,2-Dichloroethene | | | | | CAS #: 156-60-5 | | |
| 14.242 | 14.242 (0.883) | 98 | 144591 | 10.0000 | 10.315 | 80.00- 120.00 | 100.00 |
| 14.242 | 14.242 (0.883) | 61 | 291596 | | | 171.67- 231.67 | 201.67 |
| 14.242 | 14.242 (0.883) | 96 | 219039 | | | 121.49- 181.49 | 151.49 |
| 35 Hexane | | | | | CAS #: 110-54-3 | | |
| 14.544 | 14.544 (0.902) | 57 | 268267 | 10.0000 | 11.150 | 80.00- 120.00 | 100.00 |
| 14.544 | 14.544 (0.902) | 43 | 140533 | | | 22.39- 82.39 | 52.39 |
| 14.544 | 14.544 (0.902) | 86 | 65924 | | | 0.00- 54.57 | 24.57 |
| 36 Isopropyl ether | | | | | CAS #: 108-20-3 | | |
| 14.874 | 14.874 (0.922) | 45 | 283156 | 10.0000 | 10.852 | 80.00- 120.00 | 100.00 |
| 14.874 | 14.874 (0.922) | 87 | 130457 | | | 16.07- 76.07 | 46.07 |
| 14.874 | 14.874 (0.922) | 59 | 41809 | | | 0.00- 44.77 | 14.77 |
| 37 1,1-Dichloroethane | | | | | CAS #: 75-34-3 | | |
| 14.956 | 14.956 (0.927) | 63 | 405855 | 10.0000 | 10.243 | 80.00- 120.00 | 100.00 |
| 14.956 | 14.956 (0.927) | 65 | 130140 | | | 2.07- 62.07 | 32.07 |
| 38 Vinyl Acetate | | | | | CAS #: 108-05-4 | | |
| 14.956 | 14.956 (0.927) | 86 | 65132 | 10.0000 | 11.127 | 80.00- 120.00 | 100.00 |
| 14.956 | 14.956 (0.927) | 42 | 43374 | | | 36.59- 96.59 | 66.59 |
| 14.956 | 14.956 (0.927) | 43 | 437163 | | | 641.20- 701.20 | 671.20 |
| 40 Ethyl-tert-butyl ether | | | | | CAS #: 637-92-3 | | |
| 15.368 | 15.368 (0.953) | 59 | 395604 | 10.0000 | 10.888 | 80.00- 120.00 | 100.00 |
| 15.368 | 15.368 (0.953) | 87 | 199849 | | | 20.52- 80.52 | 50.52 |
| 15.368 | 15.368 (0.953) | 41 | 67459 | | | 0.00- 47.05 | 17.05 |
| 42 2-Butanone | | | | | CAS #: 78-93-3 | | |
| 15.766 | 15.766 (0.978) | 72 | 165422 | 10.0000 | 10.934 | 80.00- 120.00 | 100.00 |
| 15.766 | 15.766 (0.978) | 43 | 431201 | | | 230.67- 290.67 | 260.67 |
| 15.766 | 15.766 (0.978) | 57 | 41182 | | | 0.00- 54.90 | 24.90 |

| RT | EXP RT (REL RT) | MASS | RESPONSE | AMOUNTS CAL-AMT ( PPBV) | ON-COL ( PPBV) | TARGET RANGE | RATIO |
|---|---|---|---|---|---|---|---|
| 41 cis-1,2-Dichloroethene | | | | | CAS #: 156-59-2 | | |
| 15.787 | 15.787 (0.979) | 98 | 232928 | 10.0000 | 11.052 | 80.00- 120.00 | 100.00 |
| 15.787 | 15.787 (0.979) | 61 | 437072 | | | 157.64- 217.64 | 187.64 |
| 15.787 | 15.787 (0.979) | 96 | 359921 | | | 124.52- 184.52 | 154.52 |
| 44 Tetrahydrofuran | | | | | CAS #: 109-99-9 | | |
| 16.128 | 16.128 (1.000) | 42 | 161426 | 10.0000 | 10.703 | 80.00- 120.00 | 100.00 |
| 16.128 | 16.128 (1.000) | 71 | 109752 | | | 37.99- 97.99 | 67.99 |
| 16.128 | 16.128 (1.000) | 72 | 118823 | | | 43.61- 103.61 | 73.61 |
| 47 Chloroform | | | | | CAS #: 67-66-3 | | |
| 16.189 | 16.189 (1.004) | 83 | 602215 | 10.0000 | 9.929 | 80.00- 120.00 | 100.00 |
| 16.189 | 16.189 (1.004) | 85 | 384606 | | | 33.87- 93.87 | 63.87 |
| 49 1,1,1-Trichloroethane | | | | | CAS #: 71-55-6 | | |
| 16.467 | 16.467 (1.021) | 97 | 700538 | 10.0000 | 10.108 | 80.00- 120.00 | 100.00 |
| 16.467 | 16.467 (1.021) | 99 | 446419 | | | 33.73- 93.73 | 63.73 |
| 48 Cyclohexane | | | | | CAS #: 110-82-7 | | |
| 16.467 | 16.467 (1.021) | 84 | 352244 | 10.0000 | 10.877 | 80.00- 120.00 | 100.00 |
| 16.467 | 16.467 (1.021) | 56 | 282925 | | | 50.32- 110.32 | 80.32 |
| 16.467 | 16.467 (1.021) | 41 | 142854 | | | 10.56- 70.56 | 40.56 |
| 51 Carbon Tetrachloride | | | | | CAS #: 56-23-5 | | |
| 16.652 | 16.652 (1.032) | 119 | 666027 | 10.0000 | 12.844 | 80.00- 120.00 | 100.00 |
| 16.652 | 16.652 (1.032) | 117 | 702806 | | | 75.52- 135.52 | 105.52 |
| 52 2,2,4-Trimethylpentane | | | | | CAS #: 540-84-1 | | |
| 16.926 | 16.926 (1.049) | 56 | 378332 | 10.0000 | 10.198 | 80.00- 120.00 | 100.00 |
| 16.926 | 16.926 (1.049) | 57 | 1167482 | | | 278.59- 338.59 | 308.59 |
| 16.926 | 16.926 (1.049) | 41 | 346666 | | | 61.63- 121.63 | 91.63 |
| 53 Benzene | | | | | CAS #: 71-43-2 | | |
| 17.013 | 17.013 (0.967) | 78 | 735607 | 10.0000 | 10.046 | 80.00- 120.00 | 100.00 |
| 17.013 | 17.013 (0.967) | 77 | 173162 | | | 0.00- 53.54 | 23.54 |
| 55 tert-amyl methyl ether | | | | | CAS #: 994-05-8 | | |
| 17.042 | 17.042 (0.969) | 87 | 116758 | 10.0000 | 10.819 | 80.00- 120.00 | 100.00 |
| 17.042 | 17.042 (0.969) | 73 | 455555 | | | 360.17- 420.17 | 390.17 |
| 17.042 | 17.042 (0.969) | 55 | 110311 | | | 64.48- 124.48 | 94.48 |
| 56 1,2-Dichloroethane | | | | | CAS #: 107-06-2 | | |
| 17.130 | 17.130 (0.974) | 62 | 403807 | 10.0000 | 9.780 | 80.00- 120.00 | 100.00 |
| 17.130 | 17.130 (0.974) | 64 | 135121 | | | 3.46- 63.46 | 33.46 |
| 57 Heptane | | | | | CAS #: 142-82-5 | | |
| 17.159 | 17.159 (0.976) | 57 | 168967 | 10.0000 | 11.164 | 80.00- 120.00 | 100.00 |

| RT | EXP RT (REL RT) | MASS | RESPONSE | AMOUNTS CAL-AMT ( PPBV) | ON-COL ( PPBV) | TARGET RANGE | RATIO |
|---|---|---|---|---|---|---|---|
| 57 Heptane (continued) | | | | | | | |
| 17.159 | 17.159 (0.976) | 100 | 103986 | | | 31.54- 91.54 | 61.54 |
| 17.159 | 17.159 (0.976) | 43 | 261906 | | | 125.00- 185.00 | 155.00 |
| 59 Trichloroethene | | | | | CAS #: 79-01-6 | | |
| 18.025 | 18.025 (1.025) | 130 | 319673 | 10.0000 | 9.885 | 80.00- 120.00 | 100.00 |
| 18.025 | 18.025 (1.025) | 95 | 358631 | | | 82.19- 142.19 | 112.19 |
| 18.025 | 18.025 (1.025) | 97 | 235190 | | | 43.57- 103.57 | 73.57 |
| 60 Methylcyclohexane | | | | | CAS #: 108-87-2 | | |
| 18.272 | 18.272 (1.039) | 83 | 453787 | 10.0000 | 10.863 | 80.00- 120.00 | 100.00 |
| 18.272 | 18.272 (1.039) | 55 | 279190 | | | 31.52- 91.52 | 61.52 |
| 18.272 | 18.272 (1.039) | 56 | 85402 | | | 0.00- 48.82 | 18.82 |
| 61 1,2-Dichloropropane | | | | | CAS #: 78-87-5 | | |
| 18.519 | 18.519 (1.053) | 63 | 222346 | 10.0000 | 9.877 | 80.00- 120.00 | 100.00 |
| 18.519 | 18.519 (1.053) | 62 | 158427 | | | 41.25- 101.25 | 71.25 |
| 18.519 | 18.519 (1.053) | 41 | 131308 | | | 29.06- 89.06 | 59.06 |
| 62 1,4-Dioxane | | | | | CAS #: 123-91-1 | | |
| 18.629 | 18.629 (1.059) | 88 | 183207 | 10.0000 | 11.412 | 80.00- 120.00 | 100.00 |
| 18.629 | 18.629 (1.059) | 58 | 102479 | | | 25.94- 85.94 | 55.94 |
| 18.629 | 18.629 (1.059) | 57 | 34348 | | | 0.00- 48.75 | 18.75 |
| 63 Bromodichloromethane | | | | | CAS #: 75-27-4 | | |
| 18.959 | 18.959 (1.078) | 83 | 657751 | 10.0000 | 10.459 | 80.00- 120.00 | 100.00 |
| 18.959 | 18.959 (1.078) | 85 | 406973 | | | 31.87- 91.87 | 61.87 |
| 64 cis-1,3-Dichloropropene | | | | | CAS #: 10061-01-5 | | |
| 19.865 | 19.865 (1.130) | 75 | 411438 | 10.0000 | 10.561 | 80.00- 120.00 | 100.00 |
| 19.865 | 19.865 (1.130) | 77 | 127527 | | | 1.00- 61.00 | 31.00 |
| 19.865 | 19.865 (1.130) | 39 | 166142 | | | 10.38- 70.38 | 40.38 |
| 65 4-Methyl-2-pentanone | | | | | CAS #: 108-10-1 | | |
| 20.077 | 20.077 (1.142) | 43 | 353172 | 10.0000 | 12.138 | 80.00- 120.00 | 100.00 |
| 20.077 | 20.077 (1.142) | 58 | 172315 | | | 18.79- 78.79 | 48.79 |
| 20.077 | 20.077 (1.142) | 85 | 100222 | | | 0.00- 58.38 | 28.38 |
| 68 Toluene | | | | | CAS #: 108-88-3 | | |
| 20.525 | 20.525 (1.167) | 91 | 878430 | 10.0000 | 10.054 | 80.00- 120.00 | 100.00 |
| 20.525 | 20.525 (1.167) | 92 | 518421 | | | 29.02- 89.02 | 59.02 |
| 69 trans-1,3-Dichloropropene | | | | | CAS #: 10061-02-6 | | |
| 20.995 | 20.995 (0.916) | 75 | 614516 | 10.0000 | 11.771 | 80.00- 120.00 | 100.00 |
| 20.995 | 20.995 (0.916) | 77 | 193227 | | | 1.44- 61.44 | 31.44 |
| 20.995 | 20.995 (0.916) | 39 | 214099 | | | 4.84- 64.84 | 34.84 |

| RT | EXP RT (REL RT) | MASS | RESPONSE | AMOUNTS CAL-AMT ( PPBV) | ON-COL ( PPBV) | TARGET RANGE | RATIO |
|---|---|---|---|---|---|---|---|
| 70 1,1,2-Trichloroethane | | | | | CAS #: 79-00-5 | | |
| 21.335 | 21.335 (0.931) | 97 | 319979 | 10.0000 | 10.173 | 80.00- 120.00 | 100.00 |
| 21.335 | 21.335 (0.931) | 99 | 195230 | | | 31.01- 91.01 | 61.01 |
| 21.335 | 21.335 (0.931) | 83 | 264819 | | | 52.76- 112.76 | 82.76 |
| 71 Tetrachloroethene | | | | | CAS #: 127-18-4 | | |
| 21.498 | 21.498 (0.938) | 166 | 362926 | 10.0000 | 9.940 | 80.00- 120.00 | 100.00 |
| 21.498 | 21.498 (0.938) | 129 | 326052 | | | 59.84- 119.84 | 89.84 |
| 21.498 | 21.498 (0.938) | 131 | 307381 | | | 54.70- 114.70 | 84.70 |
| 72 2-Hexanone | | | | | CAS #: 591-78-6 | | |
| 21.660 | 21.660 (0.945) | 58 | 225132 | 10.0000 | 11.309 | 80.00- 120.00 | 100.00 |
| 21.660 | 21.660 (0.945) | 43 | 349878 | | | 125.41- 185.41 | 155.41 |
| 21.660 | 21.660 (0.945) | 100 | 65521 | | | 0.00- 59.10 | 29.10 |
| 73 Dibromochloromethane | | | | | CAS #: 124-48-1 | | |
| 22.018 | 22.018 (0.960) | 129 | 602031 | 10.0000 | 11.249 | 80.00- 120.00 | 100.00 |
| 22.018 | 22.018 (0.960) | 127 | 463984 | | | 47.07- 107.07 | 77.07 |
| 74 1,2-Dibromoethane | | | | | CAS #: 106-93-4 | | |
| 22.278 | 22.278 (0.972) | 107 | 509404 | 10.0000 | 10.559 | 80.00- 120.00 | 100.00 |
| 22.278 | 22.278 (0.972) | 109 | 452938 | | | 58.92- 118.92 | 88.92 |
| 76 Chlorobenzene | | | | | CAS #: 108-90-7 | | |
| 22.951 | 22.951 (1.001) | 112 | 686603 | 10.0000 | 9.896 | 80.00- 120.00 | 100.00 |
| 22.951 | 22.951 (1.001) | 114 | 222297 | | | 2.38- 62.38 | 32.38 |
| 22.951 | 22.951 (1.001) | 77 | 454787 | | | 36.24- 96.24 | 66.24 |
| 77 Ethyl Benzene | | | | | CAS #: 100-41-4 | | |
| 23.023 | 23.023 (1.004) | 106 | 361744 | 10.0000 | 10.672 | 80.00- 120.00 | 100.00 |
| 23.023 | 23.023 (1.004) | 91 | 1255885 | | | 317.18- 377.18 | 347.18 |
| 80 m,p-Xylene | | | | | CAS #: 108-38-3 | | |
| 23.192 | 23.192 (1.012) | 106 | 445353 | 10.0000 | 10.919 | 80.00- 120.00 | 100.00 |
| 23.192 | 23.192 (1.012) | 91 | 1017184 | | | 198.40- 258.40 | 228.40 |
| 81 o-Xylene | | | | | CAS #: 95-47-6 | | |
| 23.770 | 23.770 (1.037) | 106 | 445788 | 10.0000 | 11.369 | 80.00- 120.00 | 100.00 |
| 23.770 | 23.770 (1.037) | 91 | 1045431 | | | 204.51- 264.51 | 234.51 |
| 83 Styrene | | | | | CAS #: 100-42-5 | | |
| 23.818 | 23.818 (1.039) | 104 | 682979 | 10.0000 | 11.539 | 80.00- 120.00 | 100.00 |
| 23.794 | 23.794 (1.038) | 78 | 414099 | | | 30.63- 90.63 | 60.63 |
| 84 Bromoform | | | | | CAS #: 75-25-2 | | |
| 24.132 | 24.132 (1.053) | 173 | 538957 | 10.0000 | 11.649 | 80.00- 120.00 | 100.00 |

| RT | EXP RT (REL RT) | MASS | RESPONSE | AMOUNTS CAL-AMT ( PPBV) | ON-COL ( PPBV) | TARGET RANGE | RATIO |
|---|---|---|---|---|---|---|---|
| 84 Bromoform (continued) | | | | | | | |
| 24.132 | 24.132 (1.053) | 171 | 281005 | | | 22.14- 82.14 | 52.14 |
| 85 Cumene | | | | | CAS #: 98-82-8 | | |
| 24.228 | 24.228 (1.057) | 105 | 1443759 | 10.0000 | 11.372 | 80.00- 120.00 | 100.00 |
| 24.228 | 24.228 (1.057) | 120 | 340175 | | | 0.00- 53.56 | 23.56 |
| 89 1,1,2,2-Tetrachloroethane | | | | | CAS #: 79-34-5 | | |
| 24.680 | 24.680 (1.076) | 83 | 651389 | 10.0000 | 9.927 | 80.00- 120.00 | 100.00 |
| 24.680 | 24.680 (1.076) | 85 | 405647 | | | 32.27- 92.27 | 62.27 |
| 90 Propylbenzene | | | | | CAS #: 103-65-1 | | |
| 24.758 | 24.758 (1.080) | 91 | 1755865 | 10.0000 | 10.797 | 80.00- 120.00 | 100.00 |
| 24.758 | 24.758 (1.080) | 120 | 355821 | | | 0.00- 50.26 | 20.26 |
| 92 4-Ethyltoluene | | | | | CAS #: 622-96-8 | | |
| 24.887 | 24.887 (1.085) | 105 | 1537934 | 10.0000 | 11.014 | 80.00- 120.00 | 100.00 |
| 24.887 | 24.887 (1.085) | 120 | 416229 | | | 0.00- 57.06 | 27.06 |
| 94 1,3,5-Trimethylbenzene | | | | | CAS #: 108-67-8 | | |
| 24.964 | 24.964 (1.089) | 105 | 1315812 | 10.0000 | 10.947 | 80.00- 120.00 | 100.00 |
| 24.964 | 24.964 (1.089) | 120 | 559650 | | | 12.53- 72.53 | 42.53 |
| 98 1,2,4-Trimethylbenzene | | | | | CAS #: 95-63-6 | | |
| 25.410 | 25.410 (1.108) | 105 | 1217340 | 10.0000 | 11.505 | 80.00- 120.00 | 100.00 |
| 25.410 | 25.410 (1.108) | 120 | 494984 | | | 10.66- 70.66 | 40.66 |
| 101 1,3-Dichlorobenzene | | | | | CAS #: 541-73-1 | | |
| 25.791 | 25.791 (1.125) | 146 | 700657 | 10.0000 | 10.446 | 80.00- 120.00 | 100.00 |
| 25.791 | 25.791 (1.125) | 148 | 447454 | | | 33.86- 93.86 | 63.86 |
| 25.791 | 25.791 (1.125) | 111 | 334619 | | | 17.76- 77.76 | 47.76 |
| 104 1,4-Dichlorobenzene | | | | | CAS #: 106-46-7 | | |
| 25.903 | 25.903 (1.130) | 146 | 692477 | 10.0000 | 10.318 | 80.00- 120.00 | 100.00 |
| 25.903 | 25.903 (1.130) | 148 | 440627 | | | 33.63- 93.63 | 63.63 |
| 25.903 | 25.903 (1.130) | 111 | 316446 | | | 15.70- 75.70 | 45.70 |
| 105 alpha-chlorotoluene | | | | | CAS #: 100-44-7 | | |
| 26.060 | 26.060 (1.137) | 91 | 1151322 | 10.0000 | 11.263 | 80.00- 120.00 | 100.00 |
| 26.060 | 26.060 (1.137) | 126 | 197443 | | | 0.00- 47.15 | 17.15 |
| 108 1,2-Dichlorobenzene | | | | | CAS #: 95-50-1 | | |
| 26.352 | 26.352 (1.149) | 146 | 650693 | 10.0000 | 10.226 | 80.00- 120.00 | 100.00 |
| 26.352 | 26.352 (1.149) | 148 | 416928 | | | 34.07- 94.07 | 64.07 |
| 26.352 | 26.352 (1.149) | 111 | 324485 | | | 19.87- 79.87 | 49.87 |

| | | | | AMOUNTS CAL-AMT ( PPBV) | ON-COL ( PPBV) | TARGET RANGE | RATIO |
|---|---|---|---|---|---|---|---|
| RT | EXP RT (REL RT) | MASS | RESPONSE | | | | |
| 112 1,2,4-Trichlorobenzene | | | | | CAS #: 120-82-1 | | |
| 28.145 | 28.145 (1.228) | 180 | 463816 | 10.0000 | 11.151 | 80.00- 120.00 | 100.00 |
| 28.145 | 28.145 (1.228) | 182 | 438997 | | | 64.65- 124.65 | 94.65 |
| 113 Hexachlorobutadiene | | | | | CAS #: 87-68-3 | | |
| 28.235 | 28.235 (1.232) | 225 | 387658 | 10.0000 | 10.432 | 80.00- 120.00 | 100.00 |
| 28.235 | 28.235 (1.232) | 223 | 246827 | | | 33.67- 93.67 | 63.67 |
| 114 Naphthalene | | | | | CAS #: 91-20-3 | | |
| 28.504 | 28.504 (1.243) | 128 | 98061 | 1.00000 | 1.107 | 80.00- 120.00 | 100.00 |
| 28.504 | 28.504 (1.243) | 127 | 13119 | | | 0.00- 43.38 | 13.38 |

Report Date: 09-Mar-2012 15:12

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msde.i
Lab File ID: e030815.d
Lab Smp Id: ICAL
Analysis Type: VOA
Quant Type: ISTD
Operator: srs
Method File: /chem/msde.i/08Mar2012.b/e12l0308a.m
Misc Info: 10ppbv (50ppbv)

Calibration Date: 08-MAR-2012
Calibration Time: 22:56
Client Smp ID: Level 9
Level: LOW
Sample Type: AIR

| | | AREA LIMIT | | | |
|---|---|---|---|---|---|
| COMPOUND | STANDARD | LOWER | UPPER | SAMPLE | %DIFF |
| 46 Bromochloromethan | 73839 | 44303 | 103375 | 73839 | 0.00 |
| 58 1,4-Difluorobenze | 285440 | 171264 | 399616 | 285440 | 0.00 |
| 75 Chlorobenzene-d5 | 243451 | 146071 | 340831 | 243451 | 0.00 |

| | | RT LIMIT | | | |
|---|---|---|---|---|---|
| COMPOUND | STANDARD | LOWER | UPPER | SAMPLE | %DIFF |
| 46 Bromochloromethan | 16.13 | 15.80 | 16.46 | 16.13 | 0.00 |
| 58 1,4-Difluorobenze | 17.59 | 17.26 | 17.92 | 17.59 | 0.00 |
| 75 Chlorobenzene-d5 | 22.93 | 22.60 | 23.26 | 22.93 | 0.00 |

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Data File: /chem/msde.i/08Mar2012.b/e030815.d



Date : 08-MAR-2012 22:56

Client ID: Level 9

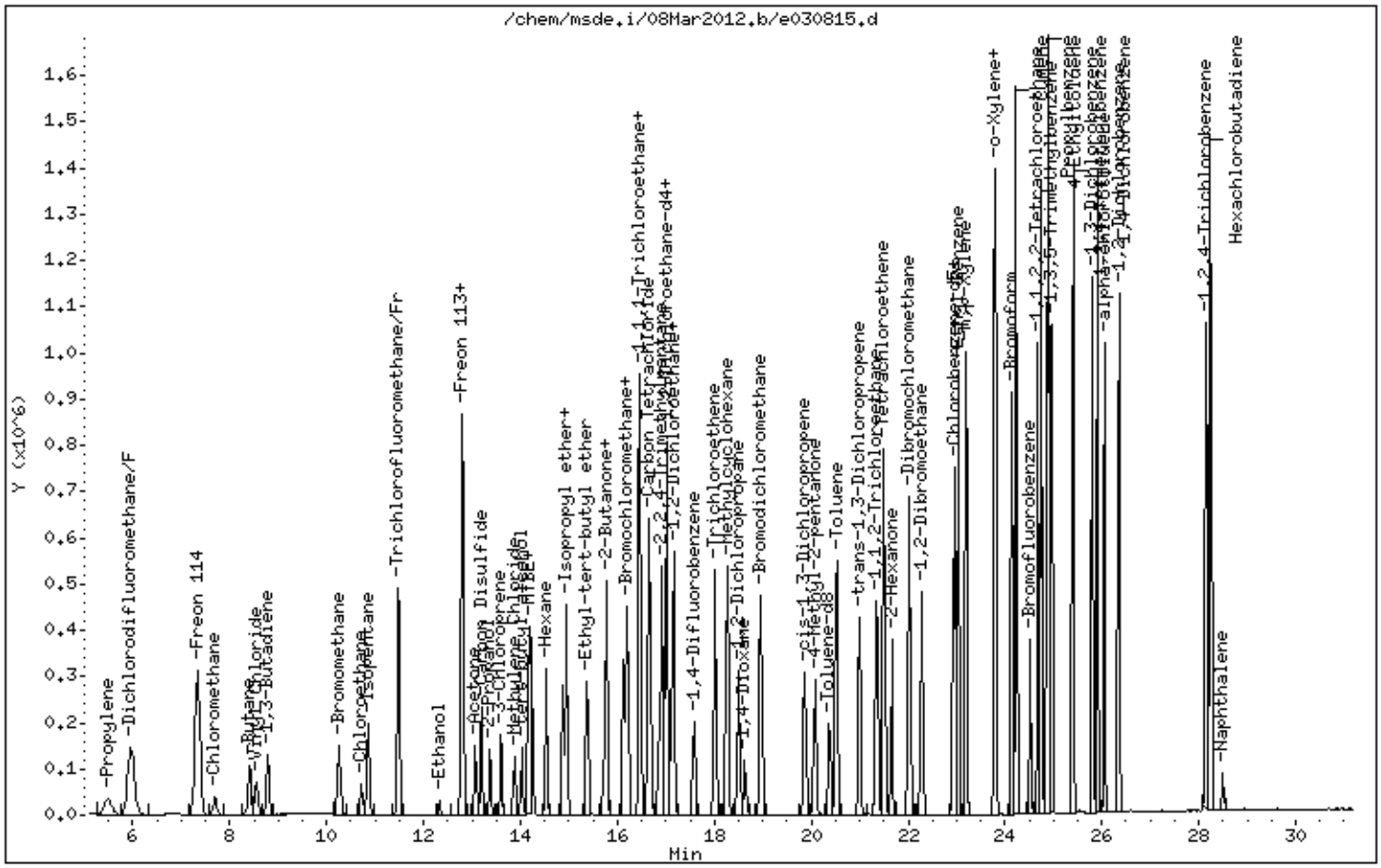
Instrument: msde.i

Sample Info: 50mL #2370-176

Operator: srs

Column phase: RTx-624

Column diameter: 0.32



Air Toxics Ltd.

EPA TO-15/Modified TO14A

Data file : /chem/msde.i/08Mar2012.b/e030816.d
Lab Smp Id: ICAL Client Smp ID: Level 10
Inj Date : 08-MAR-2012 23:48
Operator : ea Inst ID: msde.i
Smp Info : 100mL #2370-176
Misc Info : 20ppbv (50ppbv)
Comment : Low-Level/GC-MS
Method : /chem/msde.i/08Mar2012.b/e12l0308a.m
Meth Date : 09-Mar-2012 15:12 croush Quant Type: ISTD
Cal Date : 08-MAR-2012 23:48 Cal File: e030816.d
Als bottle: 8 Calibration Sample, Level: 10
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: HILOcrvFULL.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

| Name | Value | Description |
|---|---|---|
| DF | 1.00000 | Dilution Factor |

| | | | | AMOUNTS | | | | |
|---|---|---|---|---|---|---|---|---|
| | | | | CAL-AMT | ON-COL | | | |
| RT | EXP RT (REL RT) | MASS | RESPONSE | ( PPBV) | ( PPBV) | TARGET RANGE | | RATIO |
| == | ====== ======== | ==== | ======== | ======= | ======= | ========== | | ===== |
| * 46 Bromochloromethane | | | | | | CAS #: 74-97-5 | | |
| 16.127 | 16.127 (1.000) | 130 | 72955 | 5.00000 | | 70.00- 130.00 | | 100.00 |
| 16.127 | 16.127 (1.000) | 128 | 56658 | | | 0.00- 30.00 | | 77.66 |
| 16.189 | 16.189 (1.000) | 49 | 137527 | | | 0.00- 30.00 | | 188.51 |
| * 58 1,4-Difluorobenzene | | | | | | CAS #: 540-36-3 | | |
| 17.585 | 17.585 (1.000) | 114 | 287228 | 5.00000 | | 70.00- 130.00 | | 100.00 |
| 17.585 | 17.585 (1.000) | 88 | 50141 | | | 0.00- 30.00 | | 17.46 |
| * 75 Chlorobenzene-d5 | | | | | | CAS #: 3114-55-4 | | |
| 22.927 | 22.927 (1.000) | 117 | 243139 | 5.00000 | | 70.00- 130.00 | | 100.00 |
| 22.927 | 22.927 (1.000) | 82 | 160042 | | | 0.00- 30.00 | | 65.82 |
| $ 54 1,2-Dichloroethane-d4 | | | | | | CAS #: 17060-07-0 | | |
| 17.013 | 17.013 (1.055) | 65 | 134735 | 5.00000 | 4.956 | 70.00- 130.00 | | 100.00 |
| 17.013 | 17.013 (1.055) | 67 | 72427 | | | 0.00- 30.00 | | 53.76 |

| RT | EXP RT (REL RT) | MASS | RESPONSE | AMOUNTS CAL-AMT ( PPBV) | ON-COL ( PPBV) | TARGET RANGE | RATIO |
|---|---|---|---|---|---|---|---|
| $ 67 Toluene-d8 | | | | | CAS #: 2037-26-5 | | |
| 20.368 | 20.368 (1.158) | 98 | 296022 | 5.00000 | 5.117 | 70.00- 130.00 | 100.00 |
| 20.368 | 20.368 (1.158) | 70 | 34679 | | | 0.00- 30.00 | 11.72 |
| 20.368 | 20.368 (1.158) | 100 | 187842 | | | 33.91- 93.91 | 63.46 |
| $ 87 Bromofluorobenzene | | | | | CAS #: 460-00-4 | | |
| 24.525 | 24.525 (1.070) | 174 | 136465 | 5.00000 | 4.906 | 70.00- 130.00 | 100.00 |
| 24.525 | 24.525 (1.070) | 95 | 217596 | | | 125.57- 185.57 | 159.45 |
| 24.525 | 24.525 (1.070) | 176 | 133734 | | | 64.73- 124.73 | 98.00 |
| 2 Propylene | | | | | CAS #: 115-07-1 | | |
| 5.473 | 5.473 (0.339) | 41 | 221077 | 20.0000 | 19.010 | 70.00- 130.00 | 100.00 |
| 5.497 | 5.497 (0.341) | 42 | 143656 | | | 0.00- 30.00 | 64.98 |
| 5.473 | 5.473 (0.339) | 39 | 185529 | | | 0.00- 30.00 | 83.92 |
| 4 Dichlorodifluoromethane/Fr12 | | | | | CAS #: 75-71-8 | | |
| 5.955 | 5.955 (0.369) | 85 | 1606311 | 20.0000 | 18.841 | 70.00- 130.00 | 100.00 |
| 5.955 | 5.955 (0.369) | 87 | 523850 | | | 2.22- 62.22 | 32.61 |
| 6 Freon 114 | | | | | CAS #: 76-14-2 | | |
| 7.329 | 7.329 (0.454) | 135 | 847897 | 20.0000 | 19.116 | 70.00- 130.00 | 100.00 |
| 7.329 | 7.329 (0.454) | 137 | 270158 | | | 0.00- 30.00 | 31.86 |
| 7 Chloromethane | | | | | CAS #: 74-87-3 | | |
| 7.691 | 7.691 (0.477) | 50 | 243741 | 20.0000 | 19.344 | 70.00- 130.00 | 100.00 |
| 7.691 | 7.691 (0.477) | 52 | 81325 | | | 0.00- 30.00 | 33.37 |
| 9 Butane | | | | | CAS #: 106-97-8 | | |
| 8.404 | 8.404 (0.521) | 58 | 98149 | 20.0000 | 22.634 | 70.00- 130.00 | 100.00(A) |
| 8.404 | 8.404 (0.521) | 43 | 520525 | | | 0.00- 30.00 | 530.34 |
| 10 Vinyl Chloride | | | | | CAS #: 75-01-4 | | |
| 8.543 | 8.543 (0.530) | 62 | 396643 | 20.0000 | 19.944 | 70.00- 130.00 | 100.00 |
| 8.543 | 8.543 (0.530) | 64 | 127495 | | | 2.55- 62.55 | 32.14 |
| 11 1,3-Butadiene | | | | | CAS #: 106-99-0 | | |
| 8.786 | 8.786 (0.545) | 54 | 258357 | 20.0000 | 20.669 | 70.00- 130.00 | 100.00(A) |
| 8.786 | 8.786 (0.545) | 39 | 233980 | | | 0.00- 30.00 | 90.56 |
| 12 Bromomethane | | | | | CAS #: 74-83-9 | | |
| 10.251 | 10.251 (0.636) | 94 | 389990 | 20.0000 | 17.736 | 70.00- 130.00 | 100.00 |
| 10.251 | 10.251 (0.636) | 96 | 411657 | | | 65.25- 125.25 | 105.56 |
| 13 Chloroethane | | | | | CAS #: 75-00-3 | | |
| 10.728 | 10.728 (0.665) | 64 | 189945 | 20.0000 | 17.925 | 70.00- 130.00 | 100.00 |
| 10.728 | 10.728 (0.665) | 49 | 42567 | | | 0.00- 30.00 | 22.41 |

| RT | EXP RT (REL RT) | MASS | RESPONSE | AMOUNTS CAL-AMT ( PPBV) | AMOUNTS ON-COL ( PPBV) | TARGET RANGE | RATIO |
|---|---|---|---|---|---|---|---|
| 13 Chloroethane (continued) | | | | | | | |
| 10.728 | 10.728 (0.665) | 66 | 64338 | | | 0.00- 30.00 | 33.87 |
| 14 Isopentane | | | | | CAS #: 78-78-4 | | |
| 10.852 | 10.852 (0.673) | 57 | 272973 | 20.0000 | 20.395 | 70.00- 130.00 | 100.00(A) |
| 10.852 | 10.852 (0.673) | 43 | 308202 | | | 0.00- 30.00 | 112.91 |
| 10.852 | 10.852 (0.673) | 42 | 259605 | | | 0.00- 30.00 | 95.10 |
| 16 Trichlorofluoromethane/Fr11 | | | | | CAS #: 75-69-4 | | |
| 11.474 | 11.474 (0.711) | 101 | 1639184 | 20.0000 | 18.232 | 70.00- 130.00 | 100.00 |
| 11.474 | 11.474 (0.711) | 103 | 1064693 | | | 36.02- 96.02 | 64.95 |
| 18 Ethanol | | | | | CAS #: 64-17-5 | | |
| 12.324 | 12.324 (0.764) | 45 | 98604 | 20.0000 | 21.007 | 70.00- 130.00 | 100.00(A) |
| 12.344 | 12.344 (0.765) | 46 | 38957 | | | 0.00- 30.00 | 39.51 |
| 12.324 | 12.324 (0.764) | 43 | 26154 | | | 0.00- 30.00 | 26.52 |
| 19 Freon 113 | | | | | CAS #: 76-13-1 | | |
| 12.800 | 12.800 (0.794) | 151 | 711080 | 20.0000 | 18.703 | 70.00- 130.00 | 100.00 |
| 12.800 | 12.800 (0.794) | 153 | 459057 | | | 34.27- 94.27 | 64.56 |
| 12.800 | 12.800 (0.794) | 101 | 982135 | | | 0.00- 30.00 | 138.12 |
| 21 1,1-Dichloroethene | | | | | CAS #: 75-35-4 | | |
| 12.821 | 12.821 (0.795) | 98 | 260803 | 20.0000 | 20.172 | 70.00- 130.00 | 100.00(A) |
| 12.821 | 12.821 (0.795) | 61 | 658743 | | | 0.00- 30.00 | 252.58 |
| 12.821 | 12.821 (0.795) | 96 | 408688 | | | 0.00- 30.00 | 156.70 |
| 22 Acetone | | | | | CAS #: 67-64-1 | | |
| 13.070 | 13.070 (0.810) | 58 | 168500 | 20.0000 | 20.436 | 70.00- 130.00 | 100.00(A) |
| 13.070 | 13.070 (0.810) | 43 | 531013 | | | 0.00- 30.00 | 315.14 |
| 25 2-Propanol | | | | | CAS #: 67-63-0 | | |
| 13.381 | 13.381 (0.830) | 45 | 494419 | 20.0000 | 22.181 | 70.00- 130.00 | 100.00(A) |
| 13.381 | 13.381 (0.830) | 43 | 122107 | | | 0.00- 30.00 | 24.70 |
| 13.381 | 13.381 (0.830) | 59 | 23553 | | | 0.00- 30.00 | 4.76 |
| 23 Carbon Disulfide | | | | | CAS #: 75-15-0 | | |
| 13.194 | 13.194 (0.818) | 76 | 1036787 | 20.0000 | 19.111 | 70.00- 130.00 | 100.00 |
| 26 3-Chloroprene | | | | | CAS #: 107-05-1 | | |
| 13.588 | 13.588 (0.843) | 76 | 171774 | 20.0000 | 21.467 | 70.00- 130.00 | 100.00(A) |
| 13.588 | 13.588 (0.843) | 41 | 280913 | | | 0.00- 30.00 | 163.54 |
| 29 Methylene Chloride | | | | | CAS #: 75-09-2 | | |
| 13.885 | 13.885 (0.861) | 84 | 178201 | 20.0000 | 17.509 | 70.00- 130.00 | 100.00 |
| 13.885 | 13.885 (0.861) | 49 | 141990 | | | 0.00- 30.00 | 79.68 |

| RT | EXP RT (REL RT) | MASS | RESPONSE | AMOUNTS CAL-AMT ( PPBV) | ON-COL ( PPBV) | TARGET RANGE | RATIO |
|---|---|---|---|---|---|---|---|
| 29 Methylene Chloride (continued) | | | | | | | |
| 13.885 | 13.885 (0.861) | 51 | 45229 | | | 0.00- 30.00 | 25.38 |
| 30 tert-butyl alcohol | | | | | CAS #: 75-65-0 | | |
| 14.022 | 14.022 (0.869) | 59 | 472094 | 20.0000 | 22.337 | 70.00- 130.00 | 100.00(A) |
| 14.022 | 14.022 (0.869) | 41 | 98762 | | | 0.00- 30.00 | 20.92 |
| 14.022 | 14.022 (0.869) | 57 | 51115 | | | 0.00- 30.00 | 10.83 |
| 31 MTBE | | | | | CAS #: 1634-04-4 | | |
| 14.187 | 14.187 (0.880) | 73 | 1416825 | 20.0000 | 21.611 | 70.00- 130.00 | 100.00(A) |
| 14.187 | 14.187 (0.880) | 57 | 231400 | | | 0.00- 30.00 | 16.33 |
| 14.187 | 14.187 (0.880) | 41 | 205970 | | | 0.00- 30.00 | 14.54 |
| 32 trans-1,2-Dichloroethene | | | | | CAS #: 156-60-5 | | |
| 14.242 | 14.242 (0.883) | 98 | 272256 | 20.0000 | 19.658 | 70.00- 130.00 | 100.00 |
| 14.242 | 14.242 (0.883) | 61 | 565587 | | | 0.00- 30.00 | 207.74 |
| 14.242 | 14.242 (0.883) | 96 | 424870 | | | 0.00- 30.00 | 156.06 |
| 35 Hexane | | | | | CAS #: 110-54-3 | | |
| 14.544 | 14.544 (0.902) | 57 | 516810 | 20.0000 | 21.741 | 70.00- 130.00 | 100.00(A) |
| 14.544 | 14.544 (0.902) | 43 | 264893 | | | 0.00- 30.00 | 51.26 |
| 14.544 | 14.544 (0.902) | 86 | 127752 | | | 0.00- 30.00 | 24.72 |
| 36 Isopropyl ether | | | | | CAS #: 108-20-3 | | |
| 14.873 | 14.873 (0.922) | 45 | 562487 | 20.0000 | 21.820 | 70.00- 130.00 | 100.00(A) |
| 14.873 | 14.873 (0.922) | 87 | 260118 | | | 0.00- 30.00 | 46.24 |
| 14.873 | 14.873 (0.922) | 59 | 85466 | | | 0.00- 30.00 | 15.19 |
| 37 1,1-Dichloroethane | | | | | CAS #: 75-34-3 | | |
| 14.956 | 14.956 (0.927) | 63 | 768775 | 20.0000 | 19.638 | 70.00- 130.00 | 100.00 |
| 14.956 | 14.956 (0.927) | 65 | 246674 | | | 0.00- 30.00 | 32.09 |
| 38 Vinyl Acetate | | | | | CAS #: 108-05-4 | | |
| 14.956 | 14.956 (0.927) | 86 | 127045 | 20.0000 | 21.967 | 70.00- 130.00 | 100.00(A) |
| 14.956 | 14.956 (0.927) | 42 | 88438 | | | 0.00- 30.00 | 69.61 |
| 14.956 | 14.956 (0.927) | 43 | 846639 | | | 0.00- 30.00 | 666.41 |
| 40 Ethyl-tert-butyl ether | | | | | CAS #: 637-92-3 | | |
| 15.368 | 15.368 (0.953) | 59 | 778362 | 20.0000 | 21.681 | 70.00- 130.00 | 100.00(A) |
| 15.368 | 15.368 (0.953) | 87 | 396866 | | | 0.00- 30.00 | 50.99 |
| 15.368 | 15.368 (0.953) | 41 | 126971 | | | 0.00- 30.00 | 16.31 |
| 42 2-Butanone | | | | | CAS #: 78-93-3 | | |
| 15.766 | 15.766 (0.978) | 72 | 325230 | 20.0000 | 21.758 | 70.00- 130.00 | 100.00(A) |
| 15.766 | 15.766 (0.978) | 43 | 822164 | | | 0.00- 30.00 | 252.79 |
| 15.766 | 15.766 (0.978) | 57 | 79633 | | | 0.00- 30.00 | 24.49 |

| RT | EXP RT (REL RT) | MASS | RESPONSE | AMOUNTS CAL-AMT ( PPBV) | ON-COL ( PPBV) | TARGET RANGE | RATIO |
|---|---|---|---|---|---|---|---|
| 41 cis-1,2-Dichloroethene | | | | | CAS #: 156-59-2 | | |
| 15.787 | 15.787 (0.979) | 98 | 441463 | 20.0000 | 21.200 | 70.00- 130.00 | 100.00(A) |
| 15.787 | 15.787 (0.979) | 61 | 827413 | | | 0.00- 30.00 | 187.43 |
| 15.787 | 15.787 (0.979) | 96 | 684504 | | | 124.52- 184.52 | 155.05 |
| 44 Tetrahydrofuran | | | | | CAS #: 109-99-9 | | |
| 16.127 | 16.127 (1.000) | 42 | 316443 | 20.0000 | 21.236 | 70.00- 130.00 | 100.00(A) |
| 16.127 | 16.127 (1.000) | 71 | 208473 | | | 0.00- 30.00 | 65.88 |
| 16.127 | 16.127 (1.000) | 72 | 231214 | | | 0.00- 30.00 | 73.07 |
| 47 Chloroform | | | | | CAS #: 67-66-3 | | |
| 16.189 | 16.189 (1.004) | 83 | 1147855 | 20.0000 | 19.155 | 70.00- 130.00 | 100.00 |
| 16.189 | 16.189 (1.004) | 85 | 731924 | | | 0.00- 30.00 | 63.76 |
| 49 1,1,1-Trichloroethane | | | | | CAS #: 71-55-6 | | |
| 16.466 | 16.466 (1.021) | 97 | 1324995 | 20.0000 | 19.350 | 70.00- 130.00 | 100.00 |
| 16.466 | 16.466 (1.021) | 99 | 850528 | | | 0.00- 30.00 | 64.19 |
| 48 Cyclohexane | | | | | CAS #: 110-82-7 | | |
| 16.466 | 16.466 (1.021) | 84 | 671516 | 20.0000 | 20.987 | 70.00- 130.00 | 100.00(A) |
| 16.466 | 16.466 (1.021) | 56 | 546801 | | | 0.00- 30.00 | 81.43 |
| 16.466 | 16.466 (1.021) | 41 | 281054 | | | 0.00- 30.00 | 41.85 |
| 51 Carbon Tetrachloride | | | | | CAS #: 56-23-5 | | |
| 16.651 | 16.651 (1.032) | 119 | 1296053 | 20.0000 | 25.296 | 70.00- 130.00 | 100.00(A) |
| 16.651 | 16.651 (1.032) | 117 | 1333245 | | | 0.00- 30.00 | 102.87 |
| 52 2,2,4-Trimethylpentane | | | | | CAS #: 540-84-1 | | |
| 16.925 | 16.925 (1.049) | 56 | 725629 | 20.0000 | 19.797 | 70.00- 130.00 | 100.00 |
| 16.925 | 16.925 (1.049) | 57 | 2299879 | | | 0.00- 30.00 | 316.95 |
| 16.925 | 16.925 (1.049) | 41 | 669670 | | | 0.00- 30.00 | 92.29 |
| 53 Benzene | | | | | CAS #: 71-43-2 | | |
| 17.013 | 17.013 (0.967) | 78 | 1384944 | 20.0000 | 18.797 | 70.00- 130.00 | 100.00 |
| 17.013 | 17.013 (0.967) | 77 | 324688 | | | 0.00- 30.00 | 23.44 |
| 55 tert-amyl methyl ether | | | | | CAS #: 994-05-8 | | |
| 17.042 | 17.042 (0.969) | 87 | 231806 | 20.0000 | 21.346 | 70.00- 130.00 | 100.00(A) |
| 17.042 | 17.042 (0.969) | 73 | 903302 | | | 0.00- 30.00 | 389.68 |
| 17.042 | 17.042 (0.969) | 55 | 205279 | | | 0.00- 30.00 | 88.56 |
| 56 1,2-Dichloroethane | | | | | CAS #: 107-06-2 | | |
| 17.129 | 17.129 (0.974) | 62 | 766949 | 20.0000 | 18.460 | 70.00- 130.00 | 100.00 |
| 17.129 | 17.129 (0.974) | 64 | 250036 | | | 0.00- 30.00 | 32.60 |
| 57 Heptane | | | | | CAS #: 142-82-5 | | |
| 17.158 | 17.158 (0.976) | 57 | 330090 | 20.0000 | 21.675 | 70.00- 130.00 | 100.00(A) |

| RT | EXP RT (REL RT) | MASS | RESPONSE | AMOUNTS CAL-AMT ( PPBV) | ON-COL ( PPBV) | TARGET RANGE | RATIO |
|---|---|---|---|---|---|---|---|
| 57 Heptane (continued) | | | | | | | |
| 17.158 | 17.158 (0.976) | 100 | 200510 | | | 0.00- 30.00 | 60.74 |
| 17.158 | 17.158 (0.976) | 43 | 501371 | | | 0.00- 30.00 | 151.89 |
| 59 Trichloroethene | | | | | CAS #: 79-01-6 | | |
| 18.025 | 18.025 (1.025) | 130 | 623210 | 20.0000 | 19.152 | 70.00- 130.00 | 100.00 |
| 18.025 | 18.025 (1.025) | 95 | 698392 | | | 0.00- 30.00 | 112.06 |
| 18.025 | 18.025 (1.025) | 97 | 458874 | | | 0.00- 30.00 | 73.63 |
| 60 Methylcyclohexane | | | | | CAS #: 108-87-2 | | |
| 18.272 | 18.272 (1.039) | 83 | 885145 | 20.0000 | 21.057 | 70.00- 130.00 | 100.00(A) |
| 18.272 | 18.272 (1.039) | 55 | 542855 | | | 0.00- 30.00 | 61.33 |
| 18.272 | 18.272 (1.039) | 56 | 163098 | | | 0.00- 30.00 | 18.43 |
| 61 1,2-Dichloropropane | | | | | CAS #: 78-87-5 | | |
| 18.519 | 18.519 (1.053) | 63 | 443452 | 20.0000 | 19.576 | 70.00- 130.00 | 100.00 |
| 18.519 | 18.519 (1.053) | 62 | 309669 | | | 0.00- 30.00 | 69.83 |
| 18.519 | 18.519 (1.053) | 41 | 253496 | | | 29.06- 89.06 | 57.16 |
| 62 1,4-Dioxane | | | | | CAS #: 123-91-1 | | |
| 18.629 | 18.629 (1.059) | 88 | 356187 | 20.0000 | 22.048 | 70.00- 130.00 | 100.00(A) |
| 18.629 | 18.629 (1.059) | 58 | 203302 | | | 0.00- 30.00 | 57.08 |
| 18.629 | 18.629 (1.059) | 57 | 66232 | | | 0.00- 30.00 | 18.59 |
| 63 Bromodichloromethane | | | | | CAS #: 75-27-4 | | |
| 18.958 | 18.958 (1.078) | 83 | 1265294 | 20.0000 | 19.995 | 70.00- 130.00 | 100.00 |
| 18.958 | 18.958 (1.078) | 85 | 795610 | | | 0.00- 30.00 | 62.88 |
| 64 cis-1,3-Dichloropropene | | | | | CAS #: 10061-01-5 | | |
| 19.864 | 19.864 (1.130) | 75 | 835997 | 20.0000 | 21.325 | 70.00- 130.00 | 100.00(A) |
| 19.864 | 19.864 (1.130) | 77 | 262312 | | | 0.00- 30.00 | 31.38 |
| 19.864 | 19.864 (1.130) | 39 | 330008 | | | 10.38- 70.38 | 39.47 |
| 65 4-Methyl-2-pentanone | | | | | CAS #: 108-10-1 | | |
| 20.076 | 20.076 (1.142) | 43 | 719022 | 20.0000 | 24.557 | 70.00- 130.00 | 100.00(A) |
| 20.076 | 20.076 (1.142) | 58 | 345155 | | | 0.00- 30.00 | 48.00 |
| 20.076 | 20.076 (1.142) | 85 | 208785 | | | 0.00- 30.00 | 29.04 |
| 68 Toluene | | | | | CAS #: 108-88-3 | | |
| 20.524 | 20.524 (1.167) | 91 | 1692178 | 20.0000 | 19.246 | 70.00- 130.00 | 100.00 |
| 20.524 | 20.524 (1.167) | 92 | 1005074 | | | 0.00- 30.00 | 59.40 |
| 69 trans-1,3-Dichloropropene | | | | | CAS #: 10061-02-6 | | |
| 20.995 | 20.995 (0.916) | 75 | 1242620 | 20.0000 | 23.832 | 70.00- 130.00 | 100.00(A) |
| 20.995 | 20.995 (0.916) | 77 | 387606 | | | 0.00- 30.00 | 31.19 |
| 20.995 | 20.995 (0.916) | 39 | 325558 | | | 4.84- 64.84 | 26.20 |

| RT | EXP RT (REL RT) | MASS | RESPONSE | AMOUNTS CAL-AMT ( PPBV) | ON-COL ( PPBV) | TARGET RANGE | RATIO |
|---|---|---|---|---|---|---|---|
| 70 1,1,2-Trichloroethane | | | | | CAS #: 79-00-5 | | |
| 21.335 | 21.335 (0.931) | 97 | 613887 | 20.0000 | 19.542 | 70.00- 130.00 | 100.00 |
| 21.335 | 21.335 (0.931) | 99 | 387797 | | | 0.00- 30.00 | 63.17 |
| 21.335 | 21.335 (0.931) | 83 | 520108 | | | 52.76- 112.76 | 84.72 |
| 71 Tetrachloroethene | | | | | CAS #: 127-18-4 | | |
| 21.497 | 21.497 (0.938) | 166 | 710292 | 20.0000 | 19.480 | 70.00- 130.00 | 100.00 |
| 21.497 | 21.497 (0.938) | 129 | 620078 | | | 0.00- 30.00 | 87.30 |
| 21.497 | 21.497 (0.938) | 131 | 595909 | | | 0.00- 30.00 | 83.90 |
| 72 2-Hexanone | | | | | CAS #: 591-78-6 | | |
| 21.660 | 21.660 (0.945) | 58 | 465931 | 20.0000 | 23.436 | 70.00- 130.00 | 100.00(A) |
| 21.660 | 21.660 (0.945) | 43 | 717397 | | | 0.00- 30.00 | 153.97 |
| 21.660 | 21.660 (0.945) | 100 | 133346 | | | 0.00- 30.00 | 28.62 |
| 73 Dibromochloromethane | | | | | CAS #: 124-48-1 | | |
| 22.017 | 22.017 (0.960) | 129 | 1198410 | 20.0000 | 22.422 | 70.00- 130.00 | 100.00(A) |
| 22.017 | 22.017 (0.960) | 127 | 925647 | | | 0.00- 30.00 | 77.24 |
| 74 1,2-Dibromoethane | | | | | CAS #: 106-93-4 | | |
| 22.278 | 22.278 (0.972) | 107 | 1005032 | 20.0000 | 20.859 | 70.00- 130.00 | 100.00(A) |
| 22.278 | 22.278 (0.972) | 109 | 899780 | | | 0.00- 30.00 | 89.53 |
| 76 Chlorobenzene | | | | | CAS #: 108-90-7 | | |
| 22.951 | 22.951 (1.001) | 112 | 1306167 | 20.0000 | 18.850 | 70.00- 130.00 | 100.00 |
| 22.951 | 22.951 (1.001) | 114 | 422280 | | | 0.00- 30.00 | 32.33 |
| 22.951 | 22.951 (1.001) | 77 | 853149 | | | 36.24- 96.24 | 65.32 |
| 77 Ethyl Benzene | | | | | CAS #: 100-41-4 | | |
| 23.023 | 23.023 (1.004) | 106 | 679458 | 20.0000 | 20.070 | 70.00- 130.00 | 100.00(A) |
| 23.023 | 23.023 (1.004) | 91 | 2346830 | | | 0.00- 30.00 | 345.40 |
| 80 m,p-Xylene | | | | | CAS #: 108-38-3 | | |
| 23.192 | 23.192 (1.012) | 106 | 853478 | 20.0000 | 20.952 | 70.00- 130.00 | 100.00(A) |
| 23.192 | 23.192 (1.012) | 91 | 1901622 | | | 0.00- 30.00 | 222.81 |
| 81 o-Xylene | | | | | CAS #: 95-47-6 | | |
| 23.770 | 23.770 (1.037) | 106 | 834573 | 20.0000 | 21.311 | 70.00- 130.00 | 100.00(A) |
| 23.770 | 23.770 (1.037) | 91 | 1985567 | | | 0.00- 30.00 | 237.91 |
| 83 Styrene | | | | | CAS #: 100-42-5 | | |
| 23.818 | 23.818 (1.039) | 104 | 1300460 | 20.0000 | 21.999 | 70.00- 130.00 | 100.00(A) |
| 23.794 | 23.794 (1.038) | 78 | 769354 | | | 0.00- 30.00 | 59.16 |
| 84 Bromoform | | | | | CAS #: 75-25-2 | | |
| 24.131 | 24.131 (1.053) | 173 | 1073434 | 20.0000 | 23.230 | 70.00- 130.00 | 100.00(A) |

| RT | EXP RT (REL RT) | MASS | RESPONSE | AMOUNTS CAL-AMT ( PPBV) | AMOUNTS ON-COL ( PPBV) | TARGET RANGE | RATIO |
|---|---|---|---|---|---|---|---|
| 84 Bromoform (continued) | | | | | | | |
| 24.131 | 24.131 (1.053) | 171 | 554254 | | | 0.00- 30.00 | 51.63 |
| 85 Cumene | | | | | CAS #: 98-82-8 | | |
| 24.228 | 24.228 (1.057) | 105 | 2684664 | 20.0000 | 21.173 | 70.00- 130.00 | 100.00(A) |
| 24.228 | 24.228 (1.057) | 120 | 642530 | | | 0.00- 30.00 | 23.93 |
| 89 1,1,2,2-Tetrachloroethane | | | | | CAS #: 79-34-5 | | |
| 24.680 | 24.680 (1.076) | 83 | 1243177 | 20.0000 | 18.971 | 70.00- 130.00 | 100.00 |
| 24.680 | 24.680 (1.076) | 85 | 783757 | | | 0.00- 30.00 | 63.04 |
| 90 Propylbenzene | | | | | CAS #: 103-65-1 | | |
| 24.757 | 24.757 (1.080) | 91 | 3379053 | 20.0000 | 20.805 | 70.00- 130.00 | 100.00(A) |
| 24.757 | 24.757 (1.080) | 120 | 686465 | | | 0.00- 30.00 | 20.32 |
| 92 4-Ethyltoluene | | | | | CAS #: 622-96-8 | | |
| 24.886 | 24.886 (1.085) | 105 | 2951854 | 20.0000 | 21.166 | 70.00- 130.00 | 100.00(A) |
| 24.886 | 24.886 (1.085) | 120 | 790606 | | | 0.00- 30.00 | 26.78 |
| 94 1,3,5-Trimethylbenzene | | | | | CAS #: 108-67-8 | | |
| 24.964 | 24.964 (1.089) | 105 | 2542075 | 20.0000 | 21.177 | 70.00- 130.00 | 100.00(A) |
| 24.964 | 24.964 (1.089) | 120 | 1091561 | | | 0.00- 30.00 | 42.94 |
| 98 1,2,4-Trimethylbenzene | | | | | CAS #: 95-63-6 | | |
| 25.410 | 25.410 (1.108) | 105 | 2360881 | 20.0000 | 22.341 | 70.00- 130.00 | 100.00(A) |
| 25.410 | 25.410 (1.108) | 120 | 955748 | | | 0.00- 30.00 | 40.48 |
| 101 1,3-Dichlorobenzene | | | | | CAS #: 541-73-1 | | |
| 25.791 | 25.791 (1.125) | 146 | 1336093 | 20.0000 | 19.946 | 70.00- 130.00 | 100.00 |
| 25.791 | 25.791 (1.125) | 148 | 847776 | | | 0.00- 30.00 | 63.45 |
| 25.791 | 25.791 (1.125) | 111 | 636763 | | | 0.00- 30.00 | 47.66 |
| 104 1,4-Dichlorobenzene | | | | | CAS #: 106-46-7 | | |
| 25.903 | 25.903 (1.130) | 146 | 1319447 | 20.0000 | 19.686 | 70.00- 130.00 | 100.00 |
| 25.903 | 25.903 (1.130) | 148 | 841488 | | | 0.00- 30.00 | 63.78 |
| 25.903 | 25.903 (1.130) | 111 | 615041 | | | 0.00- 30.00 | 46.61 |
| 105 alpha-chlorotoluene | | | | | CAS #: 100-44-7 | | |
| 26.060 | 26.060 (1.137) | 91 | 2222687 | 20.0000 | 21.772 | 70.00- 130.00 | 100.00(A) |
| 26.060 | 26.060 (1.137) | 126 | 382990 | | | 0.00- 30.00 | 17.23 |
| 108 1,2-Dichlorobenzene | | | | | CAS #: 95-50-1 | | |
| 26.352 | 26.352 (1.149) | 146 | 1243639 | 20.0000 | 19.569 | 70.00- 130.00 | 100.00 |
| 26.352 | 26.352 (1.149) | 148 | 785407 | | | 34.07- 94.07 | 63.15 |
| 26.352 | 26.352 (1.149) | 111 | 613743 | | | 19.87- 79.87 | 49.35 |

| RT | EXP RT (REL RT) | MASS | RESPONSE | AMOUNTS CAL-AMT ( PPBV) | AMOUNTS ON-COL ( PPBV) | TARGET RANGE | RATIO |
|---|---|---|---|---|---|---|---|
| 112 1,2,4-Trichlorobenzene | | | | | CAS #: 120-82-1 | | |
| 28.145 | 28.145 (1.228) | 180 | 929501 | 20.0000 | 22.376 | 70.00- 130.00 | 100.00(A) |
| 28.145 | 28.145 (1.228) | 182 | 882341 | | | 0.00- 30.00 | 94.93 |
| 113 Hexachlorobutadiene | | | | | CAS #: 87-68-3 | | |
| 28.235 | 28.235 (1.232) | 225 | 755921 | 20.0000 | 20.367 | 70.00- 130.00 | 100.00(A) |
| 28.235 | 28.235 (1.232) | 223 | 481659 | | | 0.00- 30.00 | 63.72 |
| 114 Naphthalene | | | | | CAS #: 91-20-3 | | |
| 28.504 | 28.504 (1.243) | 128 | 211591 | 2.00000 | 2.392 | 70.00- 130.00 | 100.00 |
| 28.504 | 28.504 (1.243) | 127 | 27993 | | | 0.00- 30.00 | 13.23 |

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msde.i
Lab File ID: e030816.d
Lab Smp Id: ICAL
Analysis Type: VOA
Quant Type: ISTD
Operator: ea
Method File: /chem/msde.i/08Mar2012.b/e12l0308a.m
Misc Info: 20ppbv (50ppbv)

Calibration Date: 08-MAR-2012
Calibration Time: 22:56
Client Smp ID: Level 10
Level: LOW
Sample Type: AIR

| | | AREA LIMIT | | | |
|---|---|---|---|---|---|
| COMPOUND | STANDARD | LOWER | UPPER | SAMPLE | %DIFF |
| 46 Bromochloromethan | 73839 | 44303 | 103375 | 72955 | -1.20 |
| 58 1,4-Difluorobenze | 285440 | 171264 | 399616 | 287228 | 0.63 |
| 75 Chlorobenzene-d5 | 243451 | 146071 | 340831 | 243139 | -0.13 |

| | | RT LIMIT | | | |
|---|---|---|---|---|---|
| COMPOUND | STANDARD | LOWER | UPPER | SAMPLE | %DIFF |
| 46 Bromochloromethan | 16.13 | 15.80 | 16.46 | 16.13 | 0.00 |
| 58 1,4-Difluorobenze | 17.59 | 17.26 | 17.92 | 17.59 | 0.00 |
| 75 Chlorobenzene-d5 | 22.93 | 22.60 | 23.26 | 22.93 | 0.00 |

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Data File: /chem/msde.i/08Mar2012.b/e030816.d

Date : 08-MAR-2012 23:48

Client ID: Level 10

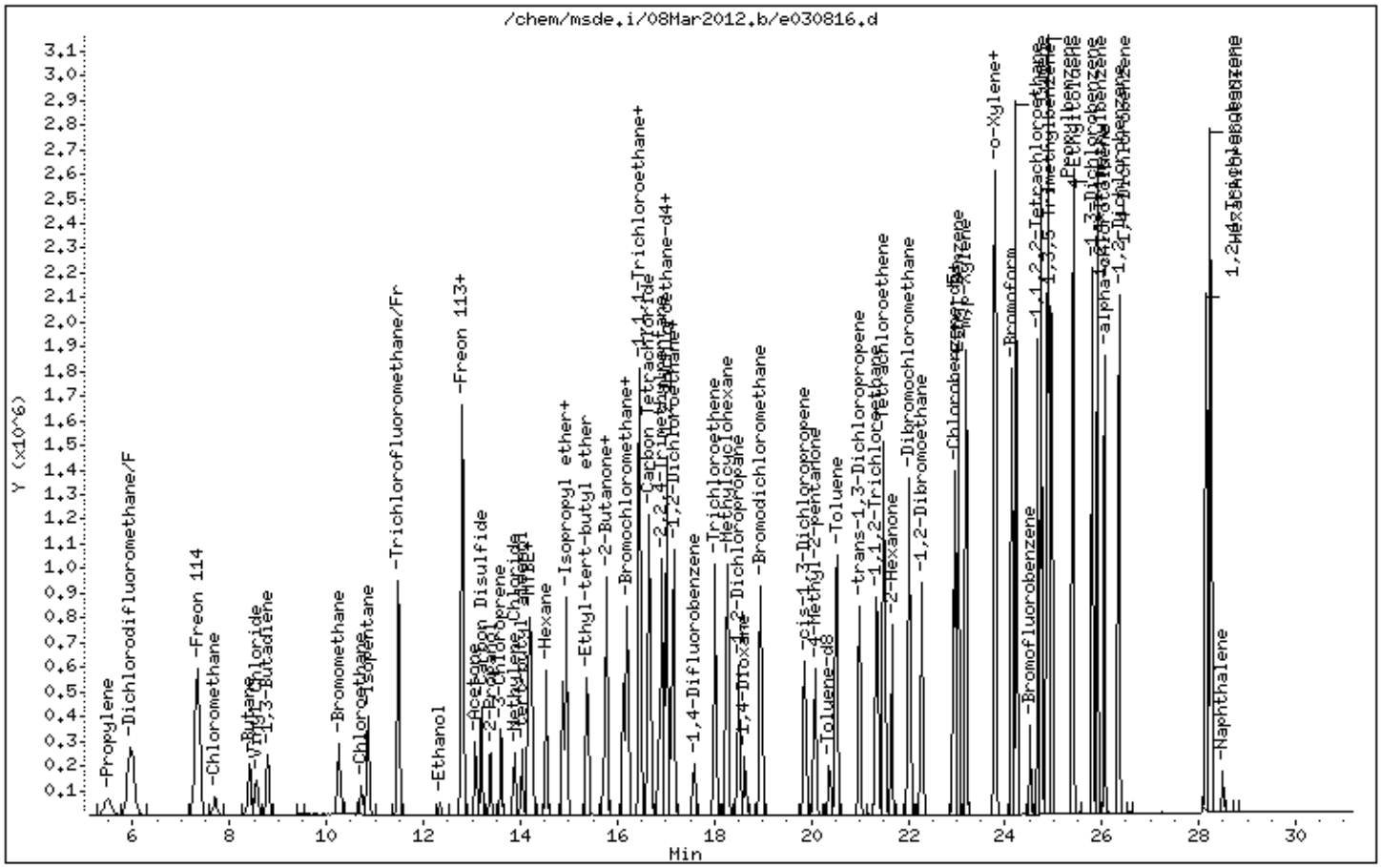
Instrument: msde.i

Sample Info: 100mL #2370-176

Operator: ea

Column phase: RTx-624

Column diameter: 0.32



Air Toxics Ltd.

EPA TO-15/Modified TO14A

Data file : /chem/msde.i/10Mar2012.b/e031013.d
Lab Smp Id: ICAL Client Smp ID: Level 11
Inj Date : 10-MAR-2012 18:30
Operator : LL Inst ID: msde.i
Smp Info : 125mL #2370-131
Misc Info : 1.0ppbv (5.0ppbv) -- TVH
Comment : Low-Level/GC-MS
Method : /chem/msde.i/10Mar2012.b/e12l0308b.m
Meth Date : 12-Mar-2012 07:12 croush Quant Type: ISTD
Cal Date : 10-MAR-2012 18:30 Cal File: e031013.d
Als bottle: 4 Calibration Sample, Level: 11
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: BP.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

| Name | Value | Description |
|---|---|---|
| DF | 1.00000 | Dilution Factor |

| RT | EXP RT (REL RT) | MASS | RESPONSE | AMOUNTS CAL-AMT ( PPBV) | AMOUNTS ON-COL ( PPBV) | TARGET RANGE | RATIO |
|---|---|---|---|---|---|---|---|
| * 46 Bromochloromethane | | | | | CAS #: 74-97-5 | | |
| 16.127 | 16.127 (1.000) | 130 | 47451 | 5.00000 | | 80.00- 120.00 | 100.00 |
| 16.127 | 16.127 (1.000) | 128 | 36991 | | | 0.00- 30.00 | 77.96 |
| 16.127 | 16.127 (1.000) | 49 | 46368 | | | 0.00- 30.00 | 97.72 |
| * 58 1,4-Difluorobenzene | | | | | CAS #: 540-36-3 | | |
| 17.585 | 17.585 (1.000) | 114 | 173946 | 5.00000 | | 80.00- 120.00 | 100.00 |
| 17.585 | 17.585 (1.000) | 88 | 31426 | | | 0.00- 30.00 | 18.07 |
| * 75 Chlorobenzene-d5 | | | | | CAS #: 3114-55-4 | | |
| 22.927 | 22.927 (1.000) | 117 | 149007 | 5.00000 | | 80.00- 120.00 | 100.00 |
| 22.927 | 22.927 (1.000) | 82 | 101787 | | | 0.00- 30.00 | 68.31 |
| 17 Pentane | | | | | CAS #: 109-66-0 | | |
| 11.681 | 11.681 (0.724) | 43 | 8740 | 1.00000 | 0.9633 | 80.00- 120.00 | 100.00 |
| 11.681 | 11.681 (0.724) | 57 | 1552 | | | 0.00- 47.76 | 17.76 |
| 11.702 | 11.702 (0.726) | 72 | 1776 | | | 0.00- 30.00 | 20.32 |

| RT | EXP RT (REL RT) | MASS | RESPONSE | AMOUNTS CAL-AMT ( PPBV) | ON-COL ( PPBV) | TARGET RANGE | RATIO |
|---|---|---|---|---|---|---|---|
| 66 Octane | | | | | CAS #: 111-65-9 | | |
| 20.412 | 20.412 (1.161) | 57 | 6567 | 1.00000 | 1.039 | 80.00- 120.00 | 100.00 |
| 20.412 | 20.412 (1.161) | 85 | 9926 | | | 0.00- 30.00 | 151.15 |
| 20.412 | 20.412 (1.161) | 43 | 12577 | | | 161.52- 221.52 | 191.52 |
| 78 Nonane | | | | | CAS #: 111-84-2 | | |
| 23.023 | 23.023 (1.004) | 43 | 11086 | 1.00000 | 1.006 | 80.00- 120.00 | 100.00 |
| 23.023 | 23.023 (1.004) | 57 | 12074 | | | 0.00- 30.00 | 108.91 |
| 23.023 | 23.023 (1.004) | 85 | 6360 | | | 0.00- 30.00 | 57.37 |
| 88 Decane | | | | | CAS #: 124-18-5 | | |
| 24.809 | 24.809 (1.082) | 57 | 15660 | 1.00000 | 1.043 | 80.00- 120.00 | 100.00(T) |
| 24.809 | 24.809 (1.082) | 71 | 7204 | | | 0.00- 30.00 | 46.00 |
| 0.000 | 1.000 (0.000) | 142 | 0 | | | 0.00- 30.00 | 0.00 |
| 188 Undecane | | | | | CAS #: 1120-21-4 | | |
| 26.150 | 26.150 (1.141) | 57 | 13096 | 1.00000 | 1.057 | 80.00- 120.00 | 100.00 |
| 26.150 | 26.150 (1.141) | 43 | 8804 | | | 0.00- 30.00 | 67.23 |
| 26.150 | 26.150 (1.141) | 85 | 5405 | | | 0.00- 30.00 | 41.27 |
| 189 Dodecane | | | | | CAS #: 112-40-3 | | |
| 27.293 | 27.293 (1.190) | 85 | 4079 | 1.00000 | 1.087 | 80.00- 120.00 | 100.00 |
| 27.293 | 27.293 (1.190) | 57 | 8777 | | | 0.00- 30.00 | 215.18 |
| 27.293 | 27.293 (1.190) | 43 | 6396 | | | 0.00- 30.00 | 156.80 |

QC Flag Legend

T - Target compound detected outside RT window.

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msde.i
Lab File ID: e031013.d
Lab Smp Id: ICAL
Analysis Type: VOA
Quant Type: ISTD
Operator: LL
Method File: /chem/msde.i/10Mar2012.b/e12l0308b.m
Misc Info: 1.0ppbv (5.0ppbv) -- TVH

Calibration Date: 10-MAR-2012
Calibration Time: 18:30
Client Smp ID: Level 11
Level: LOW
Sample Type: AIR

| | | AREA LIMIT | | | |
|---|---|---|---|---|---|
| COMPOUND | STANDARD | LOWER | UPPER | SAMPLE | %DIFF |
| 46 Bromochloromethan | 47451 | 28471 | 66431 | 47451 | 0.00 |
| 58 1,4-Difluorobenze | 173946 | 104368 | 243524 | 173946 | 0.00 |
| 75 Chlorobenzene-d5 | 149007 | 89404 | 208610 | 149007 | 0.00 |

| | | RT LIMIT | | | |
|---|---|---|---|---|---|
| COMPOUND | STANDARD | LOWER | UPPER | SAMPLE | %DIFF |
| 46 Bromochloromethan | 16.13 | 15.80 | 16.46 | 16.13 | 0.00 |
| 58 1,4-Difluorobenze | 17.59 | 17.26 | 17.92 | 17.59 | 0.00 |
| 75 Chlorobenzene-d5 | 22.93 | 22.60 | 23.26 | 22.93 | 0.00 |

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Data File: /chem/msde.i/10Mar2012.b/e031013.d

Date : 10-MAR-2012 18:30

Client ID: Level 11

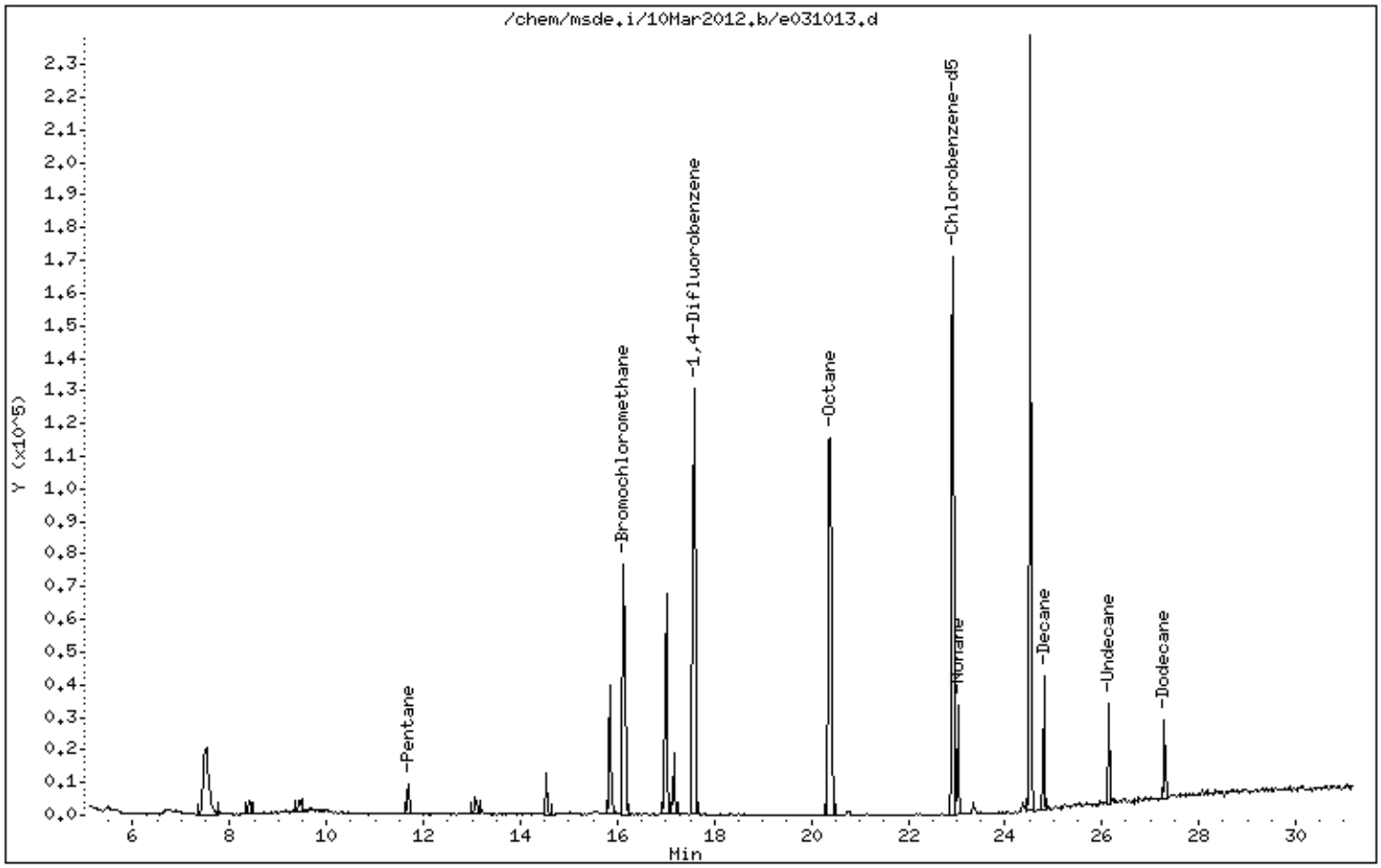
Instrument: msde.i

Sample Info: 125mL #2370-131

Operator: LL

Column phase: RTx-624

Column diameter: 0.32



Air Toxics Ltd.

EPA TO-15/Modified TO14A

Data file : /chem/msde.i/10Mar2012.b/e031010.d
Lab Smp Id: ICAL Client Smp ID: Level 11
Inj Date : 10-MAR-2012 16:18
Operator : LL Inst ID: msde.i
Smp Info : 75mL #2403-72
Misc Info : 1.5ppbv (5.0ppbv) -- AT3
Comment : Low-Level/GC-MS
Method : /chem/msde.i/10Mar2012.b/e12l0308b.m
Meth Date : 12-Mar-2012 07:09 croush Quant Type: ISTD
Cal Date : 10-MAR-2012 16:18 Cal File: e031010.d
Als bottle: 4 Calibration Sample, Level: 11
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AT3.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

| Name | Value | Description |
|---|---|---|
| DF | 1.00000 | Dilution Factor |

| RT | EXP RT (REL RT) | MASS | RESPONSE | AMOUNTS CAL-AMT ( PPBV) | AMOUNTS ON-COL ( PPBV) | TARGET RANGE | RATIO |
|---|---|---|---|---|---|---|---|
| * 46 Bromochloromethane | | | | | CAS #: 74-97-5 | | |
| 16.127 | 16.127 (1.000) | 130 | 46839 | 5.00000 | | 80.00- 120.00 | 100.00 |
| 16.127 | 16.127 (1.000) | 128 | 35920 | | | 0.00- 30.00 | 76.69 |
| 16.127 | 16.127 (1.000) | 49 | 46205 | | | 0.00- 30.00 | 98.65 |
| * 58 1,4-Difluorobenzene | | | | | CAS #: 540-36-3 | | |
| 17.586 | 17.586 (1.000) | 114 | 182691 | 5.00000 | | 80.00- 120.00 | 100.00 |
| 17.586 | 17.586 (1.000) | 88 | 32561 | | | 0.00- 30.00 | 17.82 |
| * 75 Chlorobenzene-d5 | | | | | CAS #: 3114-55-4 | | |
| 22.927 | 22.927 (1.000) | 117 | 151374 | 5.00000 | | 80.00- 120.00 | 100.00 |
| 22.927 | 22.927 (1.000) | 82 | 102155 | | | 0.00- 30.00 | 67.49 |
| 50 Thiophene | | | | | CAS #: 110-02-1 | | |
| 17.363 | 17.363 (0.987) | 84 | 41169 | 1.50000 | 1.393 | 80.00- 120.00 | 100.00(T) |
| 17.363 | 17.363 (0.987) | 58 | 20966 | | | 0.00- 30.00 | 50.93 |
| 0.000 | 1.000 (0.000) | 0 | 0 | | | 0.00- 30.00 | 0.00 |

| RT | EXP RT (REL RT) | MASS | RESPONSE | AMOUNTS CAL-AMT ( PPBV) | ON-COL ( PPBV) | TARGET RANGE | RATIO |
|---|---|---|---|---|---|---|---|
| 24 2-Methylpentane | | | | | CAS #: 107-83-5 | | |
| 13.692 | 13.692 (0.849) | 71 | 13502 | 1.50000 | 1.394 | 80.00- 120.00 | 100.00 |
| 13.692 | 13.692 (0.849) | 43 | 21505 | | | 0.00- 30.00 | 159.27 |
| 13.692 | 13.692 (0.849) | 42 | 11158 | | | 0.00- 30.00 | 82.64 |
| 45 2,3-Dimethylpentane | | | | | CAS #: 565-59-3 | | |
| 16.405 | 16.405 (1.017) | 71 | 13143 | 1.50000 | 1.464 | 80.00- 120.00 | 100.00 |
| 16.405 | 16.405 (1.017) | 56 | 27335 | | | 0.00- 30.00 | 207.98 |
| 16.405 | 16.405 (1.017) | 43 | 16243 | | | 0.00- 30.00 | 123.59 |
| 102 Indan | | | | | CAS #: 496-11-7 | | |
| 26.150 | 26.150 (1.141) | 117 | 65527 | 1.50000 | 1.412 | 80.00- 120.00 | 100.00 |
| 26.150 | 26.150 (1.141) | 118 | 37499 | | | 0.00- 30.00 | 57.23 |
| 26.150 | 26.150 (1.141) | 91 | 13093 | | | 0.00- 30.00 | 19.98 |
| 106 Indene | | | | | CAS #: 95-13-6 | | |
| 26.419 | 26.419 (1.152) | 115 | 35669 | 1.50000 | 1.410 | 80.00- 120.00 | 100.00(T) |
| 26.419 | 26.419 (1.152) | 116 | 33790 | | | 0.00- 30.00 | 94.73 |
| 0.000 | 1.000 (0.000) | 0 | 0 | | | 0.00- 30.00 | 0.00 |

QC Flag Legend

T - Target compound detected outside RT window.

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msde.i
Lab File ID: e031010.d
Lab Smp Id: ICAL
Analysis Type: VOA
Quant Type: ISTD
Operator: LL
Method File: /chem/msde.i/10Mar2012.b/e12l0308b.m
Misc Info: 1.5ppbv (5.0ppbv) -- AT3

Calibration Date: 10-MAR-2012
Calibration Time: 16:18
Client Smp ID: Level 11
Level: LOW
Sample Type: AIR

| | | AREA LIMIT | | | |
|---|---|---|---|---|---|
| COMPOUND | STANDARD | LOWER | UPPER | SAMPLE | %DIFF |
| 46 Bromochloromethan | 46839 | 28103 | 65575 | 46839 | 0.00 |
| 58 1,4-Difluorobenze | 182691 | 109615 | 255767 | 182691 | 0.00 |
| 75 Chlorobenzene-d5 | 151374 | 90824 | 211924 | 151374 | 0.00 |

| | | RT LIMIT | | | |
|---|---|---|---|---|---|
| COMPOUND | STANDARD | LOWER | UPPER | SAMPLE | %DIFF |
| 46 Bromochloromethan | 16.13 | 15.80 | 16.46 | 16.13 | 0.00 |
| 58 1,4-Difluorobenze | 17.59 | 17.26 | 17.92 | 17.59 | 0.00 |
| 75 Chlorobenzene-d5 | 22.93 | 22.60 | 23.26 | 22.93 | 0.00 |

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Data File: /chem/msde.i/10Mar2012.b/e031010.d

Date : 10-MAR-2012 16:18

Client ID: Level 11

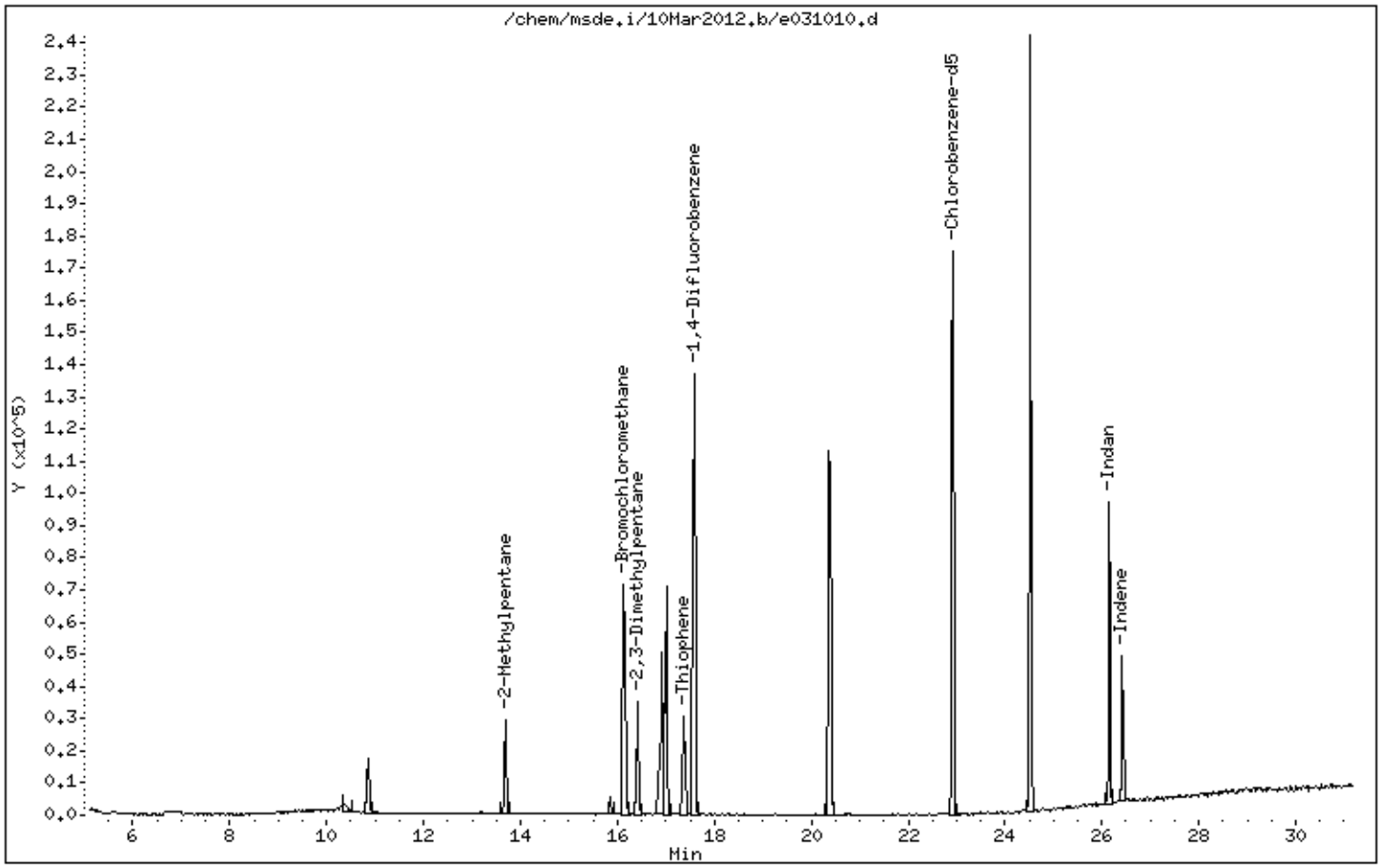
Instrument: msde.i

Sample Info: 75mL #2403-72

Operator: LL

Column phase: RTx-624

Column diameter: 0.32



Air Toxics Ltd.

EPA TO-15/Modified TO14A

Data file : /chem/msde.i/10Mar2012.b/e031004.d
Lab Smp Id: ICAL Client Smp ID: Level 11
Inj Date : 10-MAR-2012 11:52
Operator : cr Inst ID: msde.i
Smp Info : 50mL #2403-8
Misc Info : 1.0ppbv (5.0ppbv) -- AT5
Comment : Low-Level/GC-MS
Method : /chem/msde.i/10Mar2012.b/e12l0308b.m
Meth Date : 10-Mar-2012 13:50 croush Quant Type: ISTD
Cal Date : 10-MAR-2012 11:52 Cal File: e031004.d
Als bottle: 8 Calibration Sample, Level: 11
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AT5ICAL.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

| Name | Value | Description |
|---|---|---|
| DF | 1.00000 | Dilution Factor |

| | | | | AMOUNTS | | | |
|---|---|---|---|---|---|---|---|
| | | | | CAL-AMT | ON-COL | | |
| RT | EXP RT (REL RT) | MASS | RESPONSE | ( PPBV) | ( PPBV) | TARGET RANGE | RATIO |
| * 46 Bromochloromethane | | | | | CAS #: 74-97-5 | | |
| 16.127 | 16.127 (1.000) | 130 | 53284 | 5.00000 | | 80.00- 120.00 | 100.00 |
| 16.127 | 16.127 (1.000) | 128 | 43057 | | | 0.00- 30.00 | 80.81 |
| 16.127 | 16.127 (1.000) | 49 | 49436 | | | 0.00- 30.00 | 92.78 |
| * 58 1,4-Difluorobenzene | | | | | CAS #: 540-36-3 | | |
| 17.585 | 17.585 (1.000) | 114 | 199260 | 5.00000 | | 80.00- 120.00 | 100.00 |
| 17.585 | 17.585 (1.000) | 88 | 36007 | | | 0.00- 30.00 | 18.07 |
| * 75 Chlorobenzene-d5 | | | | | CAS #: 3114-55-4 | | |
| 22.927 | 22.927 (1.000) | 117 | 174009 | 5.00000 | | 80.00- 120.00 | 100.00 |
| 22.927 | 22.927 (1.000) | 82 | 117842 | | | 0.00- 30.00 | 67.72 |
| 15 Vinyl Bromide | | | | | CAS #: 593-60-2 | | |
| 11.308 | 11.308 (0.701) | 106 | 15634 | 1.00000 | 0.9608 | 80.00- 120.00 | 100.00 |
| 11.308 | 11.308 (0.701) | 108 | 14126 | | | 0.00- 30.00 | 90.35 |

| RT | EXP RT (REL RT) | MASS | RESPONSE | AMOUNTS CAL-AMT ( PPBV) | ON-COL ( PPBV) | TARGET RANGE | RATIO |
|---|---|---|---|---|---|---|---|
| 187 2,3-Dichloropropene | | | | | CAS #: 78-88-6 | | |
| 18.519 | 18.519 (1.148) | 75 | 30167 | 1.00000 | 1.018 | 80.00- 120.00 | 100.00 |
| 18.519 | 18.519 (1.148) | 77 | 9185 | | | 0.00- 30.00 | 30.45 |
| 18.519 | 18.519 (1.148) | 39 | 12131 | | | 0.00- 30.00 | 40.21 |
| 186 1,1-Dichloropropene | | | | | CAS #: 563-58-6 | | |
| 16.682 | 16.682 (1.034) | 110 | 7984 | 1.00000 | 1.077 | 80.00- 120.00 | 100.00 |
| 16.682 | 16.682 (1.034) | 75 | 22988 | | | 0.00- 30.00 | 287.93 |
| 79 1,1,1,2-Tetrachloroethane | | | | | CAS #: 630-20-6 | | |
| 23.071 | 23.071 (1.006) | 131 | 26402 | 1.00000 | 0.9904 | 80.00- 120.00 | 100.00 |
| 23.071 | 23.071 (1.006) | 117 | 15566 | | | 0.00- 30.00 | 58.96 |
| 23.071 | 23.071 (1.006) | 95 | 13043 | | | 0.00- 30.00 | 49.40 |
| 91 1,2,3-Trichloropropane | | | | | CAS #: 96-18-4 | | |
| 24.783 | 24.783 (1.081) | 110 | 17107 | 1.00000 | 1.001 | 80.00- 120.00 | 100.00 |
| 24.783 | 24.783 (1.081) | 75 | 46725 | | | 0.00- 30.00 | 273.13 |
| 24.783 | 24.783 (1.081) | 61 | 8606 | | | 0.00- 30.00 | 50.31 |
| 93 2-Chlorotoluene | | | | | CAS #: 95-49-8 | | |
| 24.938 | 24.938 (1.088) | 126 | 17293 | 1.00000 | 0.9261 | 80.00- 120.00 | 100.00 |
| 24.938 | 24.938 (1.088) | 91 | 67162 | | | 0.00- 30.00 | 388.38 |
| 24.912 | 24.912 (1.087) | 65 | 6629 | | | 0.00- 30.00 | 38.33 |
| 96 4-Chlorotoluene | | | | | CAS #: 106-43-4 | | |
| 25.067 | 25.067 (1.093) | 126 | 26122 | 1.00000 | 0.9464 | 80.00- 120.00 | 100.00 |
| 25.067 | 25.067 (1.093) | 91 | 100256 | | | 0.00- 30.00 | 383.80 |
| 25.067 | 25.067 (1.093) | 57 | 33246 | | | 0.00- 30.00 | 127.27 |
| 97 tert-Butylbenzene | | | | | CAS #: 98-06-6 | | |
| 25.343 | 25.343 (1.105) | 119 | 62386 | 1.00000 | 0.9963 | 80.00- 120.00 | 100.00 |
| 25.343 | 25.343 (1.105) | 134 | 13705 | | | 0.00- 30.00 | 21.97 |
| 25.343 | 25.343 (1.105) | 91 | 51202 | | | 0.00- 30.00 | 82.07 |
| 99 sec-Butylbenzene | | | | | CAS #: 135-98-8 | | |
| 25.589 | 25.589 (1.116) | 105 | 94139 | 1.00000 | 0.9456 | 80.00- 120.00 | 100.00 |
| 25.589 | 25.589 (1.116) | 134 | 16300 | | | 0.00- 30.00 | 17.31 |
| 25.589 | 25.589 (1.116) | 91 | 17631 | | | 0.00- 30.00 | 18.73 |
| 100 p-Cymene | | | | | CAS #: 99-87-6 | | |
| 25.724 | 25.724 (1.122) | 119 | 76225 | 1.00000 | 1.016 | 80.00- 120.00 | 100.00 |
| 25.724 | 25.724 (1.122) | 134 | 16889 | | | 0.00- 30.00 | 22.16 |
| 25.724 | 25.724 (1.122) | 91 | 21883 | | | 0.00- 30.00 | 28.71 |
| 103 1,2,3-trimethylbenzene | | | | | CAS #: 526-73-8 | | |
| 25.903 | 25.903 (1.130) | 120 | 28185 | 1.00000 | 0.9698 | 80.00- 120.00 | 100.00 |

| RT | EXP RT (REL RT) | MASS | RESPONSE | AMOUNTS CAL-AMT ( PPBV) | AMOUNTS ON-COL ( PPBV) | TARGET RANGE | RATIO |
|---|---|---|---|---|---|---|---|
| 103 1,2,3-trimethylbenzene (continued) | | | | | | | |
| 25.903 | 25.903 (1.130) | 105 | 75516 | | | 0.00- 30.00 | 267.93 |
| 25.903 | 25.903 (1.130) | 77 | 10252 | | | 0.00- 30.00 | 36.37 |
| 107 Butylbenzene | | | | | CAS #: 104-51-8 | | |
| 26.195 | 26.195 (1.143) | 134 | 15846 | 1.00000 | 0.9489 | 80.00- 120.00 | 100.00 |
| 26.195 | 26.195 (1.143) | 91 | 75342 | | | 445.46- 505.46 | 475.46 |
| 26.195 | 26.195 (1.143) | 92 | 38975 | | | 0.00- 30.00 | 245.96 |
| 110 1,2-dibromo-3-chloropropane | | | | | CAS #: 96-12-8 | | |
| 27.226 | 27.226 (1.188) | 157 | 18154 | 1.00000 | 1.019 | 80.00- 120.00 | 100.00 |
| 27.226 | 27.226 (1.188) | 75 | 22930 | | | 0.00- 30.00 | 126.31 |
| 27.226 | 27.226 (1.188) | 155 | 14280 | | | 0.00- 30.00 | 78.66 |
| 86 1,3-Dichloropropane | | | | | CAS #: 142-28-9 | | |
| 21.692 | 21.692 (1.234) | 76 | 30489 | 1.00000 | 1.022 | 80.00- 120.00 | 100.00 |
| 21.660 | 21.660 (1.232) | 41 | 18325 | | | 30.10- 90.10 | 60.10 |
| 21.660 | 21.660 (1.232) | 78 | 8373 | | | 0.00- 30.00 | 27.46 |
| 185 Bromobenzene | | | | | CAS #: 108-86-1 | | |
| 24.732 | 24.732 (1.079) | 156 | 27971 | 1.00000 | 1.001 | 80.00- 120.00 | 100.00 |
| 24.732 | 24.732 (1.079) | 158 | 26437 | | | 0.00- 30.00 | 94.52 |
| 24.732 | 24.732 (1.079) | 77 | 65104 | | | 0.00- 30.00 | 232.76 |

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msde.i
Lab File ID: e031004.d
Lab Smp Id: ICAL
Analysis Type: VOA
Quant Type: ISTD
Operator: cr
Method File: /chem/msde.i/10Mar2012.b/e12l0308b.m
Misc Info: 1.0ppbv (5.0ppbv) -- AT5

Calibration Date: 10-MAR-2012
Calibration Time: 11:52
Client Smp ID: Level 11
Level: LOW
Sample Type: AIR

| | | AREA LIMIT | | | |
|---|---|---|---|---|---|
| COMPOUND | STANDARD | LOWER | UPPER | SAMPLE | %DIFF |
| 46 Bromochloromethan | 53284 | 31970 | 74598 | 53284 | 0.00 |
| 58 1,4-Difluorobenze | 199260 | 119556 | 278964 | 199260 | 0.00 |
| 75 Chlorobenzene-d5 | 174009 | 104405 | 243613 | 174009 | 0.00 |

| | | RT LIMIT | | | |
|---|---|---|---|---|---|
| COMPOUND | STANDARD | LOWER | UPPER | SAMPLE | %DIFF |
| 46 Bromochloromethan | 16.13 | 15.80 | 16.46 | 16.13 | 0.00 |
| 58 1,4-Difluorobenze | 17.59 | 17.26 | 17.92 | 17.59 | 0.00 |
| 75 Chlorobenzene-d5 | 22.93 | 22.60 | 23.26 | 22.93 | 0.00 |

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Data File: /chem/msde.i/10Mar2012.b/e031004.d

Date : 10-MAR-2012 11:52

Client ID: Level 11

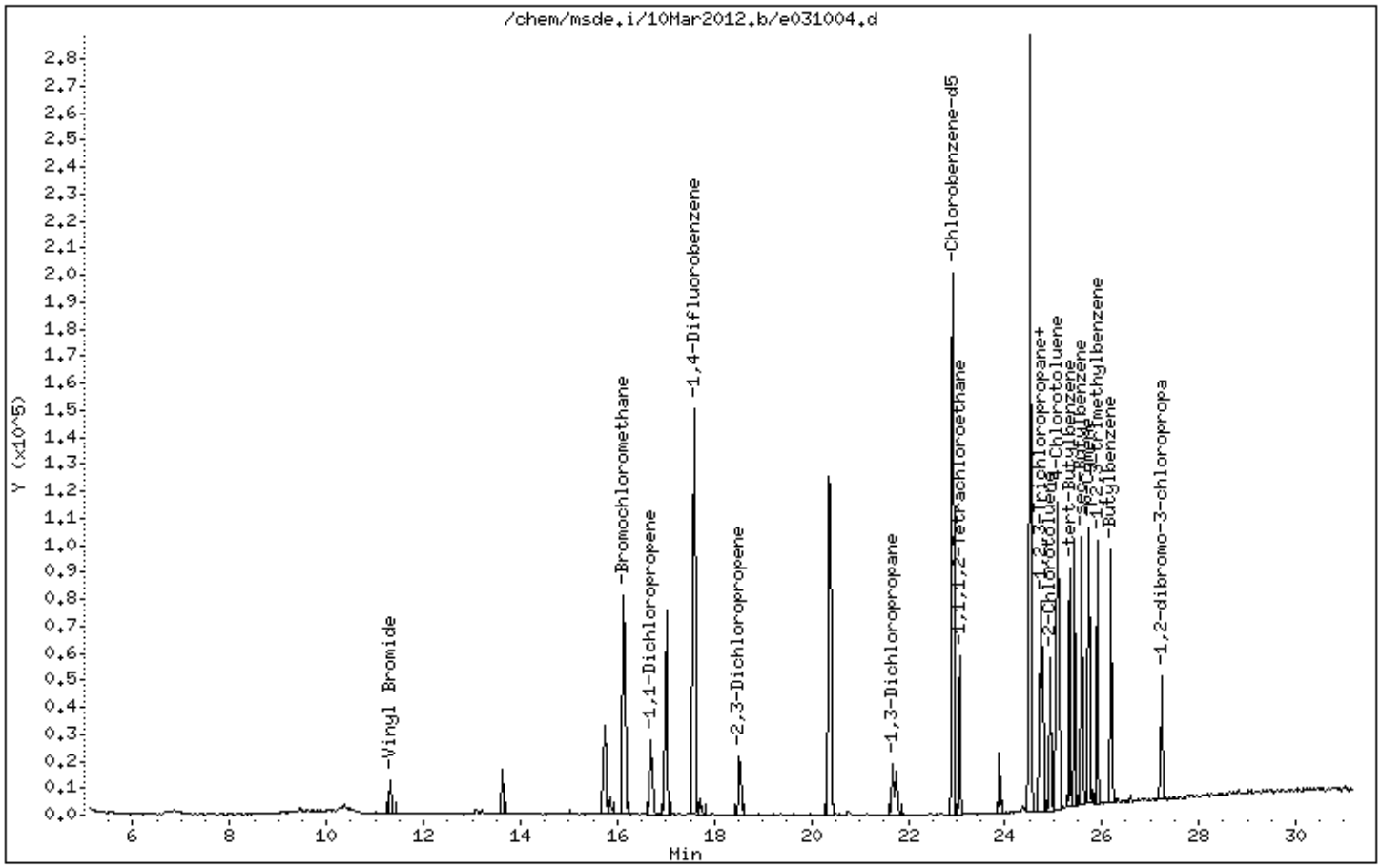
Instrument: msde.i

Sample Info: 50mL #2403-8

Operator: cr

Column phase: RTx-624

Column diameter: 0.32



Air Toxics Ltd.

EPA TO-15/Modified TO14A

Data file : /chem/msde.i/08Mar2012.b/e030817.d
Lab Smp Id: ICAL Client Smp ID: Level 11
Inj Date : 09-MAR-2012 08:10
Operator : cr Inst ID: msde.i
Smp Info : 200mL #2370-176
Misc Info : 40ppbv (50ppbv)
Comment : Low-Level/GC-MS
Method : /chem/msde.i/08Mar2012.b/e12l0308a.m
Meth Date : 09-Mar-2012 15:12 croush Quant Type: ISTD
Cal Date : 09-MAR-2012 08:10 Cal File: e030817.d
Als bottle: 8 Calibration Sample, Level: 11
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: HILOcrvFULL.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

| Name | Value | Description |
|---|---|---|
| DF | 1.00000 | Dilution Factor |

| RT | EXP RT (REL RT) | MASS | RESPONSE | AMOUNTS CAL-AMT ( PPBV) | AMOUNTS ON-COL ( PPBV) | TARGET RANGE | RATIO |
|---|---|---|---|---|---|---|---|
| * 46 Bromochloromethane | | | | | CAS #: 74-97-5 | | |
| 16.127 | 16.127 (1.000) | 130 | 79966 | 5.00000 | | 70.00- 130.00 | 100.00 |
| 16.127 | 16.127 (1.000) | 128 | 65132 | | | 0.00- 30.00 | 81.45 |
| 16.189 | 16.189 (1.000) | 49 | 224282 | | | 0.00- 30.00 | 280.47 |
| * 58 1,4-Difluorobenzene | | | | | CAS #: 540-36-3 | | |
| 17.585 | 17.585 (1.000) | 114 | 316766 | 5.00000 | | 70.00- 130.00 | 100.00 |
| 17.585 | 17.585 (1.000) | 88 | 56810 | | | 0.00- 30.00 | 17.93 |
| * 75 Chlorobenzene-d5 | | | | | CAS #: 3114-55-4 | | |
| 22.927 | 22.927 (1.000) | 117 | 260123 | 5.00000 | | 70.00- 130.00 | 100.00 |
| 22.927 | 22.927 (1.000) | 82 | 170972 | | | 0.00- 30.00 | 65.73 |
| $ 54 1,2-Dichloroethane-d4 | | | | | CAS #: 17060-07-0 | | |
| 17.013 | 17.013 (1.055) | 65 | 148200 | 5.00000 | 4.973 | 70.00- 130.00 | 100.00 |
| 17.013 | 17.013 (1.055) | 67 | 86418 | | | 0.00- 30.00 | 58.31 |

| RT | EXP RT (REL RT) | MASS | RESPONSE | AMOUNTS CAL-AMT ( PPBV) | ON-COL ( PPBV) | TARGET RANGE | RATIO |
|---|---|---|---|---|---|---|---|
| $ 67 Toluene-d8 | | | | | | CAS #: 2037-26-5 | |
| 20.368 | 20.368 (1.158) | 98 | 314203 | 5.00000 | 4.924 | 70.00- 130.00 | 100.00 |
| 20.368 | 20.368 (1.158) | 70 | 36631 | | | 0.00- 30.00 | 11.66 |
| 20.368 | 20.368 (1.158) | 100 | 204055 | | | 33.91- 93.91 | 64.94 |
| $ 87 Bromofluorobenzene | | | | | | CAS #: 460-00-4 | |
| 24.525 | 24.525 (1.070) | 174 | 138548 | 5.00000 | 4.656 | 70.00- 130.00 | 100.00 |
| 24.525 | 24.525 (1.070) | 95 | 218448 | | | 125.57- 185.57 | 157.67 |
| 24.525 | 24.525 (1.070) | 176 | 132188 | | | 64.73- 124.73 | 95.41 |
| 2 Propylene | | | | | | CAS #: 115-07-1 | |
| 5.521 | 5.521 (0.342) | 41 | 507984 | 40.0000 | 39.852 | 70.00- 130.00 | 100.00(A) |
| 5.521 | 5.521 (0.342) | 42 | 332282 | | | 0.00- 30.00 | 65.41 |
| 5.497 | 5.497 (0.341) | 39 | 418781 | | | 0.00- 30.00 | 82.44 |
| 4 Dichlorodifluoromethane/Fr12 | | | | | | CAS #: 75-71-8 | |
| 5.955 | 5.955 (0.369) | 85 | 3392499 | 40.0000 | 36.304 | 70.00- 130.00 | 100.00(A) |
| 5.979 | 5.979 (0.371) | 87 | 1103725 | | | 2.22- 62.22 | 32.53 |
| 6 Freon 114 | | | | | | CAS #: 76-14-2 | |
| 7.329 | 7.329 (0.454) | 135 | 1836317 | 40.0000 | 37.770 | 70.00- 130.00 | 100.00(A) |
| 7.329 | 7.329 (0.454) | 137 | 588333 | | | 0.00- 30.00 | 32.04 |
| 7 Chloromethane | | | | | | CAS #: 74-87-3 | |
| 7.715 | 7.715 (0.478) | 50 | 513001 | 40.0000 | 37.144 | 70.00- 130.00 | 100.00(A) |
| 7.715 | 7.715 (0.478) | 52 | 172328 | | | 0.00- 30.00 | 33.59 |
| 9 Butane | | | | | | CAS #: 106-97-8 | |
| 8.404 | 8.404 (0.521) | 58 | 204918 | 40.0000 | 43.113 | 70.00- 130.00 | 100.00(A) |
| 8.404 | 8.404 (0.521) | 43 | 1074168 | | | 0.00- 30.00 | 524.19 |
| 10 Vinyl Chloride | | | | | | CAS #: 75-01-4 | |
| 8.543 | 8.543 (0.530) | 62 | 811653 | 40.0000 | 37.234 | 70.00- 130.00 | 100.00(A) |
| 8.543 | 8.543 (0.530) | 64 | 263585 | | | 2.55- 62.55 | 32.48 |
| 11 1,3-Butadiene | | | | | | CAS #: 106-99-0 | |
| 8.769 | 8.769 (0.544) | 54 | 551367 | 40.0000 | 40.244 | 70.00- 130.00 | 100.00(A) |
| 8.769 | 8.769 (0.544) | 39 | 497725 | | | 0.00- 30.00 | 90.27 |
| 12 Bromomethane | | | | | | CAS #: 74-83-9 | |
| 10.251 | 10.251 (0.636) | 94 | 799979 | 40.0000 | 33.191 | 70.00- 130.00 | 100.00(A) |
| 10.251 | 10.251 (0.636) | 96 | 771279 | | | 65.25- 125.25 | 96.41 |
| 13 Chloroethane | | | | | | CAS #: 75-00-3 | |
| 10.728 | 10.728 (0.665) | 64 | 390084 | 40.0000 | 33.584 | 70.00- 130.00 | 100.00(A) |
| 10.728 | 10.728 (0.665) | 49 | 88077 | | | 0.00- 30.00 | 22.58 |

| RT | EXP RT (REL RT) | MASS | RESPONSE | AMOUNTS CAL-AMT ( PPBV) | AMOUNTS ON-COL ( PPBV) | TARGET RANGE | RATIO |
|---|---|---|---|---|---|---|---|
| 13 Chloroethane (continued) | | | | | | | |
| 10.728 | 10.728 (0.665) | 66 | 132773 | | | 0.00- 30.00 | 34.04 |
| 14 Isopentane | | | | | CAS #: 78-78-4 | | |
| 10.852 | 10.852 (0.673) | 57 | 585549 | 40.0000 | 39.913 | 70.00- 130.00 | 100.00(A) |
| 10.852 | 10.852 (0.673) | 43 | 656736 | | | 0.00- 30.00 | 112.16 |
| 10.852 | 10.852 (0.673) | 42 | 560576 | | | 0.00- 30.00 | 95.74 |
| 16 Trichlorofluoromethane/Fr11 | | | | | CAS #: 75-69-4 | | |
| 11.474 | 11.474 (0.711) | 101 | 3446688 | 40.0000 | 34.975 | 70.00- 130.00 | 100.00(A) |
| 11.474 | 11.474 (0.711) | 103 | 2233861 | | | 36.02- 96.02 | 64.81 |
| 18 Ethanol | | | | | CAS #: 64-17-5 | | |
| 12.344 | 12.344 (0.765) | 45 | 250241 | 40.0000 | 48.638 | 70.00- 130.00 | 100.00(A) |
| 12.344 | 12.344 (0.765) | 46 | 88851 | | | 0.00- 30.00 | 35.51 |
| 12.324 | 12.324 (0.764) | 43 | 55920 | | | 0.00- 30.00 | 22.35 |
| 19 Freon 113 | | | | | CAS #: 76-13-1 | | |
| 12.800 | 12.800 (0.794) | 151 | 1516571 | 40.0000 | 36.392 | 70.00- 130.00 | 100.00(A) |
| 12.800 | 12.800 (0.794) | 153 | 970432 | | | 34.27- 94.27 | 63.99 |
| 12.780 | 12.780 (0.792) | 101 | 2055277 | | | 0.00- 30.00 | 135.52 |
| 21 1,1-Dichloroethene | | | | | CAS #: 75-35-4 | | |
| 12.821 | 12.821 (0.795) | 98 | 568135 | 40.0000 | 40.090 | 70.00- 130.00 | 100.00(A) |
| 12.821 | 12.821 (0.795) | 61 | 1408928 | | | 0.00- 30.00 | 247.99 |
| 12.821 | 12.821 (0.795) | 96 | 881510 | | | 0.00- 30.00 | 155.16 |
| 22 Acetone | | | | | CAS #: 67-64-1 | | |
| 13.070 | 13.070 (0.810) | 58 | 356997 | 40.0000 | 39.502 | 70.00- 130.00 | 100.00(A) |
| 13.070 | 13.070 (0.810) | 43 | 1147814 | | | 0.00- 30.00 | 321.52 |
| 25 2-Propanol | | | | | CAS #: 67-63-0 | | |
| 13.381 | 13.381 (0.830) | 45 | 1100311 | 40.0000 | 45.034 | 70.00- 130.00 | 100.00(A) |
| 13.381 | 13.381 (0.830) | 43 | 261595 | | | 0.00- 30.00 | 23.77 |
| 13.381 | 13.381 (0.830) | 59 | 50594 | | | 0.00- 30.00 | 4.60 |
| 23 Carbon Disulfide | | | | | CAS #: 75-15-0 | | |
| 13.194 | 13.194 (0.818) | 76 | 2236394 | 40.0000 | 37.609 | 70.00- 130.00 | 100.00(A) |
| 26 3-Chloroprene | | | | | CAS #: 107-05-1 | | |
| 13.588 | 13.588 (0.843) | 76 | 367787 | 40.0000 | 41.933 | 70.00- 130.00 | 100.00(A) |
| 13.588 | 13.588 (0.843) | 41 | 612974 | | | 0.00- 30.00 | 166.67 |
| 29 Methylene Chloride | | | | | CAS #: 75-09-2 | | |
| 13.885 | 13.885 (0.861) | 84 | 379317 | 40.0000 | 34.002 | 70.00- 130.00 | 100.00(A) |
| 13.885 | 13.885 (0.861) | 49 | 306239 | | | 0.00- 30.00 | 80.73 |

| RT | EXP RT (REL RT) | MASS | RESPONSE | AMOUNTS CAL-AMT ( PPBV) | ON-COL ( PPBV) | TARGET RANGE | RATIO |
|---|---|---|---|---|---|---|---|
| 29 Methylene Chloride (continued) | | | | | | | |
| 13.885 | 13.885 (0.861) | 51 | 96432 | | | 0.00- 30.00 | 25.42 |
| 30 tert-butyl alcohol | | | | | CAS #: 75-65-0 | | |
| 14.022 | 14.022 (0.869) | 59 | 1057624 | 40.0000 | 45.654 | 70.00- 130.00 | 100.00(A) |
| 14.022 | 14.022 (0.869) | 41 | 205548 | | | 0.00- 30.00 | 19.43 |
| 14.022 | 14.022 (0.869) | 57 | 114483 | | | 0.00- 30.00 | 10.82 |
| 31 MTBE | | | | | CAS #: 1634-04-4 | | |
| 14.187 | 14.187 (0.880) | 73 | 3007241 | 40.0000 | 41.848 | 70.00- 130.00 | 100.00(A) |
| 14.187 | 14.187 (0.880) | 57 | 486123 | | | 0.00- 30.00 | 16.17 |
| 14.187 | 14.187 (0.880) | 41 | 426141 | | | 0.00- 30.00 | 14.17 |
| 32 trans-1,2-Dichloroethene | | | | | CAS #: 156-60-5 | | |
| 14.242 | 14.242 (0.883) | 98 | 576243 | 40.0000 | 37.958 | 70.00- 130.00 | 100.00(A) |
| 14.242 | 14.242 (0.883) | 61 | 1163738 | | | 0.00- 30.00 | 201.95 |
| 14.242 | 14.242 (0.883) | 96 | 893625 | | | 0.00- 30.00 | 155.08 |
| 35 Hexane | | | | | CAS #: 110-54-3 | | |
| 14.544 | 14.544 (0.902) | 57 | 1070930 | 40.0000 | 41.101 | 70.00- 130.00 | 100.00(A) |
| 14.544 | 14.544 (0.902) | 43 | 549555 | | | 0.00- 30.00 | 51.32 |
| 14.544 | 14.544 (0.902) | 86 | 268887 | | | 0.00- 30.00 | 25.11 |
| 36 Isopropyl ether | | | | | CAS #: 108-20-3 | | |
| 14.873 | 14.873 (0.922) | 45 | 1173598 | 40.0000 | 41.534 | 70.00- 130.00 | 100.00(A) |
| 14.873 | 14.873 (0.922) | 87 | 535514 | | | 0.00- 30.00 | 45.63 |
| 14.873 | 14.873 (0.922) | 59 | 171881 | | | 0.00- 30.00 | 14.65 |
| 37 1,1-Dichloroethane | | | | | CAS #: 75-34-3 | | |
| 14.956 | 14.956 (0.927) | 63 | 1551461 | 40.0000 | 36.157 | 70.00- 130.00 | 100.00(A) |
| 14.956 | 14.956 (0.927) | 65 | 504340 | | | 0.00- 30.00 | 32.51 |
| 38 Vinyl Acetate | | | | | CAS #: 108-05-4 | | |
| 14.956 | 14.956 (0.927) | 86 | 267009 | 40.0000 | 42.120 | 70.00- 130.00 | 100.00(A) |
| 14.956 | 14.956 (0.927) | 42 | 180009 | | | 0.00- 30.00 | 67.42 |
| 14.956 | 14.956 (0.927) | 43 | 2267353 | | | 0.00- 30.00 | 849.17 |
| 40 Ethyl-tert-butyl ether | | | | | CAS #: 637-92-3 | | |
| 15.368 | 15.368 (0.953) | 59 | 1663098 | 40.0000 | 42.264 | 70.00- 130.00 | 100.00(A) |
| 15.368 | 15.368 (0.953) | 87 | 849832 | | | 0.00- 30.00 | 51.10 |
| 15.368 | 15.368 (0.953) | 41 | 256213 | | | 0.00- 30.00 | 15.41 |
| 42 2-Butanone | | | | | CAS #: 78-93-3 | | |
| 15.766 | 15.766 (0.978) | 72 | 681355 | 40.0000 | 41.586 | 70.00- 130.00 | 100.00(A) |
| 15.766 | 15.766 (0.978) | 43 | 1727115 | | | 0.00- 30.00 | 253.48 |
| 15.766 | 15.766 (0.978) | 57 | 173475 | | | 0.00- 30.00 | 25.46 |

| RT | EXP RT (REL RT) | MASS | RESPONSE | AMOUNTS CAL-AMT ( PPBV) | ON-COL ( PPBV) | TARGET RANGE | RATIO |
|---|---|---|---|---|---|---|---|
| 41 cis-1,2-Dichloroethene | | | | | CAS #: 156-59-2 | | |
| 15.787 | 15.787 (0.979) | 98 | 919777 | 40.0000 | 40.297 | 70.00- 130.00 | 100.00(A) |
| 15.787 | 15.787 (0.979) | 61 | 1720209 | | | 0.00- 30.00 | 187.02 |
| 15.787 | 15.787 (0.979) | 96 | 1418039 | | | 124.52- 184.52 | 154.17 |
| 44 Tetrahydrofuran | | | | | CAS #: 109-99-9 | | |
| 16.127 | 16.127 (1.000) | 42 | 672724 | 40.0000 | 41.186 | 70.00- 130.00 | 100.00(A) |
| 16.127 | 16.127 (1.000) | 71 | 450170 | | | 0.00- 30.00 | 66.92 |
| 16.127 | 16.127 (1.000) | 72 | 493642 | | | 0.00- 30.00 | 73.38 |
| 47 Chloroform | | | | | CAS #: 67-66-3 | | |
| 16.189 | 16.189 (1.004) | 83 | 2358182 | 40.0000 | 35.903 | 70.00- 130.00 | 100.00(A) |
| 16.189 | 16.189 (1.004) | 85 | 1504719 | | | 0.00- 30.00 | 63.81 |
| 49 1,1,1-Trichloroethane | | | | | CAS #: 71-55-6 | | |
| 16.466 | 16.466 (1.021) | 97 | 2723732 | 40.0000 | 36.289 | 70.00- 130.00 | 100.00(A) |
| 16.466 | 16.466 (1.021) | 99 | 1755846 | | | 0.00- 30.00 | 64.46 |
| 48 Cyclohexane | | | | | CAS #: 110-82-7 | | |
| 16.466 | 16.466 (1.021) | 84 | 1381130 | 40.0000 | 39.380 | 70.00- 130.00 | 100.00(A) |
| 16.466 | 16.466 (1.021) | 56 | 1135261 | | | 0.00- 30.00 | 82.20 |
| 16.466 | 16.466 (1.021) | 41 | 569875 | | | 0.00- 30.00 | 41.26 |
| 51 Carbon Tetrachloride | | | | | CAS #: 56-23-5 | | |
| 16.651 | 16.651 (1.032) | 119 | 2666930 | 40.0000 | 47.488 | 70.00- 130.00 | 100.00(A) |
| 16.651 | 16.651 (1.032) | 117 | 2771172 | | | 0.00- 30.00 | 103.91 |
| 52 2,2,4-Trimethylpentane | | | | | CAS #: 540-84-1 | | |
| 16.925 | 16.925 (1.049) | 56 | 1489981 | 40.0000 | 37.087 | 70.00- 130.00 | 100.00(A) |
| 16.925 | 16.925 (1.049) | 57 | 4739809 | | | 0.00- 30.00 | 318.11 |
| 16.925 | 16.925 (1.049) | 41 | 1366475 | | | 0.00- 30.00 | 91.71 |
| 53 Benzene | | | | | CAS #: 71-43-2 | | |
| 17.013 | 17.013 (0.967) | 78 | 2828288 | 40.0000 | 34.807 | 70.00- 130.00 | 100.00(A) |
| 17.013 | 17.013 (0.967) | 77 | 661438 | | | 0.00- 30.00 | 23.39 |
| 55 tert-amyl methyl ether | | | | | CAS #: 994-05-8 | | |
| 17.042 | 17.042 (0.969) | 87 | 475253 | 40.0000 | 39.683 | 70.00- 130.00 | 100.00(A) |
| 17.042 | 17.042 (0.969) | 73 | 1878169 | | | 0.00- 30.00 | 395.19 |
| 17.042 | 17.042 (0.969) | 55 | 413728 | | | 0.00- 30.00 | 87.05 |
| 56 1,2-Dichloroethane | | | | | CAS #: 107-06-2 | | |
| 17.129 | 17.129 (0.974) | 62 | 1546110 | 40.0000 | 33.743 | 70.00- 130.00 | 100.00(A) |
| 17.129 | 17.129 (0.974) | 64 | 511443 | | | 0.00- 30.00 | 33.08 |
| 57 Heptane | | | | | CAS #: 142-82-5 | | |
| 17.159 | 17.159 (0.976) | 57 | 664534 | 40.0000 | 39.567 | 70.00- 130.00 | 100.00(A) |

| RT | EXP RT (REL RT) | MASS | RESPONSE | AMOUNTS CAL-AMT ( PPBV) | ON-COL ( PPBV) | TARGET RANGE | RATIO |
|---|---|---|---|---|---|---|---|
| 57 Heptane (continued) | | | | | | | |
| 17.159 | 17.159 (0.976) | 100 | 408892 | | | 0.00- 30.00 | 61.53 |
| 17.159 | 17.159 (0.976) | 43 | 1011038 | | | 0.00- 30.00 | 152.14 |
| 59 Trichloroethene | | | | | CAS #: 79-01-6 | | |
| 18.025 | 18.025 (1.025) | 130 | 1305140 | 40.0000 | 36.368 | 70.00- 130.00 | 100.00(A) |
| 18.025 | 18.025 (1.025) | 95 | 1452442 | | | 0.00- 30.00 | 111.29 |
| 18.025 | 18.025 (1.025) | 97 | 952484 | | | 0.00- 30.00 | 72.98 |
| 60 Methylcyclohexane | | | | | CAS #: 108-87-2 | | |
| 18.272 | 18.272 (1.039) | 83 | 1817559 | 40.0000 | 39.206 | 70.00- 130.00 | 100.00(A) |
| 18.272 | 18.272 (1.039) | 55 | 1124095 | | | 0.00- 30.00 | 61.85 |
| 18.272 | 18.272 (1.039) | 56 | 334823 | | | 0.00- 30.00 | 18.42 |
| 61 1,2-Dichloropropane | | | | | CAS #: 78-87-5 | | |
| 18.519 | 18.519 (1.053) | 63 | 909130 | 40.0000 | 36.390 | 70.00- 130.00 | 100.00(A) |
| 18.519 | 18.519 (1.053) | 62 | 635851 | | | 0.00- 30.00 | 69.94 |
| 18.519 | 18.519 (1.053) | 41 | 514554 | | | 29.06- 89.06 | 56.60 |
| 62 1,4-Dioxane | | | | | CAS #: 123-91-1 | | |
| 18.629 | 18.629 (1.059) | 88 | 765000 | 40.0000 | 42.938 | 70.00- 130.00 | 100.00(A) |
| 18.629 | 18.629 (1.059) | 58 | 423696 | | | 0.00- 30.00 | 55.39 |
| 18.629 | 18.629 (1.059) | 57 | 141694 | | | 0.00- 30.00 | 18.52 |
| 63 Bromodichloromethane | | | | | CAS #: 75-27-4 | | |
| 18.958 | 18.958 (1.078) | 83 | 2641314 | 40.0000 | 37.848 | 70.00- 130.00 | 100.00(A) |
| 18.958 | 18.958 (1.078) | 85 | 1663854 | | | 0.00- 30.00 | 62.99 |
| 64 cis-1,3-Dichloropropene | | | | | CAS #: 10061-01-5 | | |
| 19.865 | 19.865 (1.130) | 75 | 1753285 | 40.0000 | 40.554 | 70.00- 130.00 | 100.00(A) |
| 19.865 | 19.865 (1.130) | 77 | 540248 | | | 0.00- 30.00 | 30.81 |
| 19.865 | 19.865 (1.130) | 39 | 682011 | | | 10.38- 70.38 | 38.90 |
| 65 4-Methyl-2-pentanone | | | | | CAS #: 108-10-1 | | |
| 20.076 | 20.076 (1.142) | 43 | 1504815 | 40.0000 | 46.602 | 70.00- 130.00 | 100.00(A) |
| 20.076 | 20.076 (1.142) | 58 | 736945 | | | 0.00- 30.00 | 48.97 |
| 20.076 | 20.076 (1.142) | 85 | 438937 | | | 0.00- 30.00 | 29.17 |
| 68 Toluene | | | | | CAS #: 108-88-3 | | |
| 20.524 | 20.524 (1.167) | 91 | 3375806 | 40.0000 | 34.815 | 70.00- 130.00 | 100.00(A) |
| 20.524 | 20.524 (1.167) | 92 | 2019574 | | | 0.00- 30.00 | 59.82 |
| 69 trans-1,3-Dichloropropene | | | | | CAS #: 10061-02-6 | | |
| 20.995 | 20.995 (0.916) | 75 | 2587140 | 40.0000 | 46.379 | 70.00- 130.00 | 100.00(A) |
| 20.995 | 20.995 (0.916) | 77 | 809518 | | | 0.00- 30.00 | 31.29 |
| 20.995 | 20.995 (0.916) | 39 | 868102 | | | 4.84- 64.84 | 33.55 |

| RT | EXP RT (REL RT) | MASS | RESPONSE | AMOUNTS CAL-AMT ( PPBV) | ON-COL ( PPBV) | TARGET RANGE | RATIO |
|---|---|---|---|---|---|---|---|
| 70 1,1,2-Trichloroethane | | | | | CAS #: 79-00-5 | | |
| 21.367 | 21.367 (0.932) | 97 | 1266543 | 40.0000 | 37.687 | 70.00- 130.00 | 100.00(A) |
| 21.367 | 21.367 (0.932) | 99 | 798520 | | | 0.00- 30.00 | 63.05 |
| 21.335 | 21.335 (0.931) | 83 | 1069373 | | | 52.76- 112.76 | 84.43 |
| 71 Tetrachloroethene | | | | | CAS #: 127-18-4 | | |
| 21.497 | 21.497 (0.938) | 166 | 1462969 | 40.0000 | 37.502 | 70.00- 130.00 | 100.00(A) |
| 21.497 | 21.497 (0.938) | 129 | 1266160 | | | 0.00- 30.00 | 86.55 |
| 21.497 | 21.497 (0.938) | 131 | 1206554 | | | 0.00- 30.00 | 82.47 |
| 72 2-Hexanone | | | | | CAS #: 591-78-6 | | |
| 21.660 | 21.660 (0.945) | 58 | 976979 | 40.0000 | 45.933 | 70.00- 130.00 | 100.00(A) |
| 21.660 | 21.660 (0.945) | 43 | 1489416 | | | 0.00- 30.00 | 152.45 |
| 21.660 | 21.660 (0.945) | 100 | 277081 | | | 0.00- 30.00 | 28.36 |
| 73 Dibromochloromethane | | | | | CAS #: 124-48-1 | | |
| 22.017 | 22.017 (0.960) | 129 | 2524681 | 40.0000 | 44.152 | 70.00- 130.00 | 100.00(A) |
| 22.017 | 22.017 (0.960) | 127 | 1930273 | | | 0.00- 30.00 | 76.46 |
| 74 1,2-Dibromoethane | | | | | CAS #: 106-93-4 | | |
| 22.278 | 22.278 (0.972) | 107 | 2075407 | 40.0000 | 40.261 | 70.00- 130.00 | 100.00(A) |
| 22.278 | 22.278 (0.972) | 109 | 1861976 | | | 0.00- 30.00 | 89.72 |
| 76 Chlorobenzene | | | | | CAS #: 108-90-7 | | |
| 22.975 | 22.975 (1.002) | 112 | 2647153 | 40.0000 | 35.708 | 70.00- 130.00 | 100.00(A) |
| 22.975 | 22.975 (1.002) | 114 | 854708 | | | 0.00- 30.00 | 32.29 |
| 22.951 | 22.951 (1.001) | 77 | 1690634 | | | 36.24- 96.24 | 63.87 |
| 77 Ethyl Benzene | | | | | CAS #: 100-41-4 | | |
| 23.023 | 23.023 (1.004) | 106 | 1344757 | 40.0000 | 37.128 | 70.00- 130.00 | 100.00(A) |
| 23.023 | 23.023 (1.004) | 91 | 4616230 | | | 0.00- 30.00 | 343.28 |
| 80 m,p-Xylene | | | | | CAS #: 108-38-3 | | |
| 23.192 | 23.192 (1.012) | 106 | 1630086 | 40.0000 | 37.404 | 70.00- 130.00 | 100.00(A) |
| 23.192 | 23.192 (1.012) | 91 | 3625429 | | | 0.00- 30.00 | 222.41 |
| 81 o-Xylene | | | | | CAS #: 95-47-6 | | |
| 23.770 | 23.770 (1.037) | 106 | 1581448 | 40.0000 | 37.747 | 70.00- 130.00 | 100.00(A) |
| 23.770 | 23.770 (1.037) | 91 | 3733416 | | | 0.00- 30.00 | 236.08 |
| 83 Styrene | | | | | CAS #: 100-42-5 | | |
| 23.818 | 23.818 (1.039) | 104 | 2445236 | 40.0000 | 38.664 | 70.00- 130.00 | 100.00(A) |
| 23.818 | 23.818 (1.039) | 78 | 1441490 | | | 0.00- 30.00 | 58.95 |
| 84 Bromoform | | | | | CAS #: 75-25-2 | | |
| 24.131 | 24.131 (1.053) | 173 | 2240412 | 40.0000 | 45.320 | 70.00- 130.00 | 100.00(A) |

| RT | EXP RT (REL RT) | MASS | RESPONSE | AMOUNTS CAL-AMT ( PPBV) | AMOUNTS ON-COL ( PPBV) | TARGET RANGE | RATIO |
|---|---|---|---|---|---|---|---|
| 84 Bromoform (continued) | | | | | | | |
| 24.131 | 24.131 (1.053) | 171 | 1158046 | | | 0.00- 30.00 | 51.69 |
| 85 Cumene | | | | | CAS #: 98-82-8 | | |
| 24.228 | 24.228 (1.057) | 105 | 5003284 | 40.0000 | 36.883 | 70.00- 130.00 | 100.00(A) |
| 24.228 | 24.228 (1.057) | 120 | 1192923 | | | 0.00- 30.00 | 23.84 |
| 89 1,1,2,2-Tetrachloroethane | | | | | CAS #: 79-34-5 | | |
| 24.680 | 24.680 (1.076) | 83 | 2467046 | 40.0000 | 35.189 | 70.00- 130.00 | 100.00(A) |
| 24.680 | 24.680 (1.076) | 85 | 1558001 | | | 0.00- 30.00 | 63.15 |
| 90 Propylbenzene | | | | | CAS #: 103-65-1 | | |
| 24.757 | 24.757 (1.080) | 91 | 6436786 | 40.0000 | 37.044 | 70.00- 130.00 | 100.00(A) |
| 24.757 | 24.757 (1.080) | 120 | 1334615 | | | 0.00- 30.00 | 20.73 |
| 92 4-Ethyltoluene | | | | | CAS #: 622-96-8 | | |
| 24.886 | 24.886 (1.085) | 105 | 5770441 | 40.0000 | 38.675 | 70.00- 130.00 | 100.00(A) |
| 24.886 | 24.886 (1.085) | 120 | 1555601 | | | 0.00- 30.00 | 26.96 |
| 94 1,3,5-Trimethylbenzene | | | | | CAS #: 108-67-8 | | |
| 24.964 | 24.964 (1.089) | 105 | 5143909 | 40.0000 | 40.054 | 70.00- 130.00 | 100.00(A) |
| 24.964 | 24.964 (1.089) | 120 | 2189335 | | | 0.00- 30.00 | 42.56 |
| 98 1,2,4-Trimethylbenzene | | | | | CAS #: 95-63-6 | | |
| 25.410 | 25.410 (1.108) | 105 | 4600104 | 40.0000 | 40.688 | 70.00- 130.00 | 100.00(A) |
| 25.410 | 25.410 (1.108) | 120 | 1870543 | | | 0.00- 30.00 | 40.66 |
| 101 1,3-Dichlorobenzene | | | | | CAS #: 541-73-1 | | |
| 25.814 | 25.814 (1.126) | 146 | 2573064 | 40.0000 | 35.903 | 70.00- 130.00 | 100.00(A) |
| 25.814 | 25.814 (1.126) | 148 | 1646067 | | | 0.00- 30.00 | 63.97 |
| 25.791 | 25.791 (1.125) | 111 | 1226228 | | | 0.00- 30.00 | 47.66 |
| 104 1,4-Dichlorobenzene | | | | | CAS #: 106-46-7 | | |
| 25.903 | 25.903 (1.130) | 146 | 2540137 | 40.0000 | 35.424 | 70.00- 130.00 | 100.00(A) |
| 25.903 | 25.903 (1.130) | 148 | 1620883 | | | 0.00- 30.00 | 63.81 |
| 25.903 | 25.903 (1.130) | 111 | 1159450 | | | 0.00- 30.00 | 45.65 |
| 105 alpha-chlorotoluene | | | | | CAS #: 100-44-7 | | |
| 26.060 | 26.060 (1.137) | 91 | 4187701 | 40.0000 | 38.341 | 70.00- 130.00 | 100.00(A) |
| 26.060 | 26.060 (1.137) | 126 | 724414 | | | 0.00- 30.00 | 17.30 |
| 108 1,2-Dichlorobenzene | | | | | CAS #: 95-50-1 | | |
| 26.352 | 26.352 (1.149) | 146 | 2391538 | 40.0000 | 35.174 | 70.00- 130.00 | 100.00(A) |
| 26.352 | 26.352 (1.149) | 148 | 1523594 | | | 34.07- 94.07 | 63.71 |
| 26.352 | 26.352 (1.149) | 111 | 1186389 | | | 19.87- 79.87 | 49.61 |

| RT | EXP RT (REL RT) | MASS | RESPONSE | AMOUNTS CAL-AMT ( PPBV) | AMOUNTS ON-COL ( PPBV) | TARGET RANGE | RATIO |
|---|---|---|---|---|---|---|---|
| 112 1,2,4-Trichlorobenzene | | | | | CAS #: 120-82-1 | | |
| 28.145 | 28.145 (1.228) | 180 | 1897063 | 40.0000 | 42.686 | 70.00- 130.00 | 100.00(A) |
| 28.145 | 28.145 (1.228) | 182 | 1806484 | | | 0.00- 30.00 | 95.23 |
| 113 Hexachlorobutadiene | | | | | CAS #: 87-68-3 | | |
| 28.235 | 28.235 (1.232) | 225 | 1532258 | 40.0000 | 38.589 | 70.00- 130.00 | 100.00(A) |
| 28.235 | 28.235 (1.232) | 223 | 975576 | | | 0.00- 30.00 | 63.67 |
| 114 Naphthalene | | | | | CAS #: 91-20-3 | | |
| 28.504 | 28.504 (1.243) | 128 | 458346 | 4.00000 | 4.844 | 70.00- 130.00 | 100.00 |
| 28.504 | 28.504 (1.243) | 127 | 58900 | | | 0.00- 30.00 | 12.85 |

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.

Report Date: 09-Mar-2012 15:12

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msde.i
Lab File ID: e030817.d
Lab Smp Id: ICAL
Analysis Type: VOA
Quant Type: ISTD
Operator: cr
Method File: /chem/msde.i/08Mar2012.b/e12l0308a.m
Misc Info: 40ppbv (50ppbv)

Calibration Date: 08-MAR-2012
Calibration Time: 22:56
Client Smp ID: Level 11
Level: LOW
Sample Type: AIR

| | | AREA LIMIT | | | |
|---|---|---|---|---|---|
| COMPOUND | STANDARD | LOWER | UPPER | SAMPLE | %DIFF |
| 46 Bromochloromethan | 73839 | 44303 | 103375 | 79966 | 8.30 |
| 58 1,4-Difluorobenze | 285440 | 171264 | 399616 | 316766 | 10.97 |
| 75 Chlorobenzene-d5 | 243451 | 146071 | 340831 | 260123 | 6.85 |

| | | RT LIMIT | | | |
|---|---|---|---|---|---|
| COMPOUND | STANDARD | LOWER | UPPER | SAMPLE | %DIFF |
| 46 Bromochloromethan | 16.13 | 15.80 | 16.46 | 16.13 | 0.00 |
| 58 1,4-Difluorobenze | 17.59 | 17.26 | 17.92 | 17.59 | 0.00 |
| 75 Chlorobenzene-d5 | 22.93 | 22.60 | 23.26 | 22.93 | 0.00 |

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Data File: /chem/msde.i/08Mar2012.b/e030817.d



Date : 09-MAR-2012 08:10

Client ID: Level 11

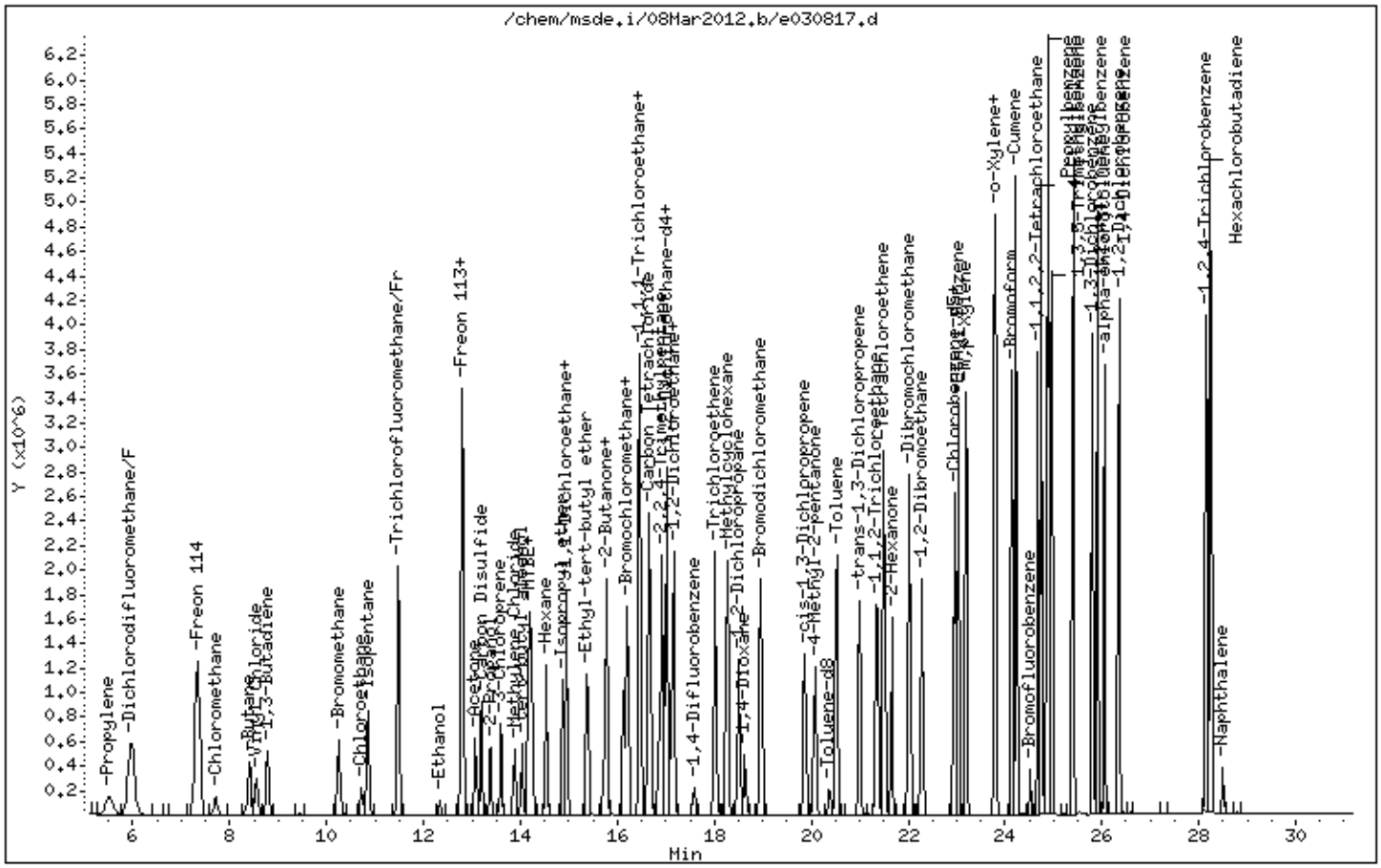
Instrument: msde.i

Sample Info: 200mL #2370-176

Operator: cr

Column phase: RTx-624

Column diameter: 0.32



# Air Toxics Ltd.

## INITIAL CALIBRATION DATA

Start Cal Date : 08-MAR-2012 18:33
End Cal Date : 16-MAR-2012 11:53
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/msde.i/16Mar2012.b/e12l0308c.m
Cal Date : 20-Mar-2012 19:26 sscott
Curve Type : Average

Calibration File Names:
Level 4: /chem/msde.i/08Mar2012.b/e030823.d
Level 5: /chem/msde.i/10Mar2012.b/e031002.d
Level 6: /chem/msde.i/16Mar2012.b/e031606.d
Level 7: /chem/msde.i/16Mar2012.b/e031607.d
Level 8: /chem/msde.i/15Mar2012.b/e031524.d
Level 9: /chem/msde.i/08Mar2012.b/e030815.d
Level 10: /chem/msde.i/08Mar2012.b/e030816.d
Level 11: /chem/msde.i/15Mar2012.b/e031522.d
Level 12: /chem/msde.i/15Mar2012.b/e031523.d

| Compound | 0.05000 Level 4 | 0.10000 Level 5 | 0.50000 Level 6 | 2.000 Level 7 | 5.000 Level 8 | 10.000 Level 9 | ___ RRF | % RSD |
|---|---|---|---|---|---|---|---|---|
| | 20.000 Level 10 | 40.000 Level 11 | 2.500 Level 12 | | | | | |
| 1 Freon134a | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | | |
| | +++++ | +++++ | +++++ | | | | +++++ | +++++ |
| 196 Methly Methacrylate | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | | |
| | +++++ | +++++ | +++++ | | | | +++++ | +++++ |
| 2 Propylene | +++++ | +++++ | 0.82667 | 0.75593 | 0.82981 | 0.81802 | | |
| | 0.75758 | 0.79406 | +++++ | | | | 0.79701 | 4.217 |
| 3 Freon 152A | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | | |
| | +++++ | +++++ | +++++ | | | | +++++ | +++++ |
| 4 Dichlorodifluoromethane/Fr12 | 5.91761 | 6.56396 | 5.88159 | 5.62776 | 6.12974 | 5.81528 | | |
| | 5.50446 | 5.30303 | +++++ | | | | 5.84293 | 6.667 |
| 5 Freon 22 | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | | |
| | +++++ | +++++ | +++++ | | | | +++++ | +++++ |
| 6 Freon 114 | +++++ | 3.38654 | 3.06664 | 2.86278 | 3.15772 | 3.03016 | | |
| | 2.90555 | 2.87047 | +++++ | | | | 3.03998 | 6.198 |

# Air Toxics Ltd.

## INITIAL CALIBRATION DATA

Start Cal Date : 08-MAR-2012 18:33
End Cal Date : 16-MAR-2012 11:53
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/msde.i/16Mar2012.b/e12l0308c.m
Cal Date : 20-Mar-2012 19:26 sscott
Curve Type : Average

| Compound | 0.05000 Level 4 | 0.10000 Level 5 | 0.50000 Level 6 | 2.000 Level 7 | 5.000 Level 8 | 10.000 Level 9 | ___ RRF | % RSD |
|---|---|---|---|---|---|---|---|---|
| | 20.000 Level 10 | 40.000 Level 11 | 2.500 Level 12 | | | | | |
| 7 Chloromethane | +++++ | 0.80263 | 0.94693 | 0.85601 | 0.91414 | 0.88799 | | |
| | 0.83524 | 0.80190 | +++++ | | | | 0.86355 | 6.426 |
| 8 Isobutylene | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | | |
| | +++++ | +++++ | +++++ | | | | +++++ | +++++ |
| 9 Butane | +++++ | +++++ | 0.18431 | 0.24483 | 0.34663 | 0.35072 | | |
| | 0.33633 | 0.32032 | +++++ | | | | 0.29719 | 22.753 |
| 10 Vinyl Chloride | +++++ | 1.54057 | 1.29893 | 1.26482 | 1.43638 | 1.37226 | | |
| | 1.35920 | 1.26875 | +++++ | | | | 1.36299 | 7.315 |
| 11 1,3-Butadiene | +++++ | 0.89741 | 0.81942 | 0.75545 | 0.89566 | 0.88148 | | |
| | 0.88533 | 0.86188 | +++++ | | | | 0.85666 | 6.080 |
| 12 Bromomethane | +++++ | 1.73314 | 1.62887 | 1.41219 | 1.68468 | 1.50334 | | |
| | 1.33641 | 1.25050 | +++++ | | | | 1.50702 | 12.159 |
| 13 Chloroethane | +++++ | +++++ | 0.79585 | 0.76911 | 0.79256 | 0.73935 | | |
| | 0.65090 | 0.60977 | +++++ | | | | 0.72626 | 10.754 |
| 14 Isopentane | +++++ | +++++ | 0.85205 | 0.90404 | 0.97243 | 0.92452 | | |
| | 0.93542 | 0.91531 | +++++ | | | | 0.91729 | 4.321 |
| 15 Vinyl Bromide | +++++ | 1.66364 | 1.48712 | 1.52687 | 1.48935 | +++++ | | |
| | +++++ | 1.46704 | +++++ | | | | 1.52681 | 5.206 |
| 17 Pentane | +++++ | +++++ | 0.99108 | 0.91589 | +++++ | +++++ | | |
| | +++++ | 0.92095 | +++++ | | | | 0.94264 | 4.459 |

# Air Toxics Ltd.

## INITIAL CALIBRATION DATA

Start Cal Date : 08-MAR-2012 18:33
End Cal Date : 16-MAR-2012 11:53
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/msde.i/16Mar2012.b/e12l0308c.m
Cal Date : 20-Mar-2012 19:26 sscott
Curve Type : Average

| Compound | 0.05000 Level 4 | 0.10000 Level 5 | 0.50000 Level 6 | 2.000 Level 7 | 5.000 Level 8 | 10.000 Level 9 | ___ RRF | % RSD |
|---|---|---|---|---|---|---|---|---|
| | 20.000 Level 10 | 40.000 Level 11 | 2.500 Level 12 | | | | | |
| 16 Trichlorofluoromethane/Fr11 | 7.03210 | 7.27332 | 5.91528 | 5.85479 | 6.36462 | 5.85013 | | |
| | 5.61711 | 5.38774 | +++++ | | | | 6.16189 | 10.942 |
| 18 Ethanol | +++++ | +++++ | 0.26226 | 0.28898 | 0.32406 | 0.32583 | | |
| | 0.33789 | 0.39117 | +++++ | | | | 0.32170 | 13.701 |
| 20 Acrolein | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | | |
| | +++++ | +++++ | +++++ | | | | +++++ | +++++ |
| 19 Freon 113 | 2.56384 | 2.97432 | 2.71494 | 2.51598 | 2.70888 | 2.55999 | | |
| | 2.43671 | 2.37065 | +++++ | | | | 2.60566 | 7.313 |
| 190 1-Pentene | +++++ | +++++ | 1.06584 | 0.98868 | 1.01683 | +++++ | | |
| | +++++ | 1.01887 | 0.99129 | | | | 1.01630 | 3.053 |
| 21 1,1-Dichloroethene | +++++ | 0.93728 | 0.79268 | 0.80042 | 0.97628 | 0.91420 | | |
| | 0.89371 | 0.88809 | +++++ | | | | 0.88609 | 7.664 |
| 22 Acetone | +++++ | +++++ | 0.51879 | 0.55474 | 0.60367 | 0.57784 | | |
| | 0.57741 | 0.55804 | +++++ | | | | 0.56508 | 5.070 |
| 23 Carbon Disulfide | +++++ | +++++ | 4.01160 | 3.68191 | 3.90724 | 3.65907 | | |
| | 3.55283 | 3.49585 | +++++ | | | | 3.71808 | 5.425 |
| 184 Bromoethane | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | | |
| | +++++ | +++++ | +++++ | | | | +++++ | +++++ |
| 25 2-Propanol | +++++ | +++++ | 1.18940 | 1.29864 | 1.62195 | 1.64192 | | |
| | 1.69426 | 1.71997 | +++++ | | | | 1.52769 | 14.741 |

# Air Toxics Ltd.

## INITIAL CALIBRATION DATA

Start Cal Date : 08-MAR-2012 18:33
End Cal Date : 16-MAR-2012 11:53
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/msde.i/16Mar2012.b/e12l0308c.m
Cal Date : 20-Mar-2012 19:26 sscott
Curve Type : Average

| Compound | 0.05000 Level 4 | 0.10000 Level 5 | 0.50000 Level 6 | 2.000 Level 7 | 5.000 Level 8 | 10.000 Level 9 | ___ RRF | % RSD |
|---|---|---|---|---|---|---|---|---|
| | 20.000 Level 10 | 40.000 Level 11 | 2.500 Level 12 | | | | | |
| 27 Methyl Acetate | +++++ | +++++ | 1.95889 | 1.72180 | 1.74894 | +++++ | | |
| | +++++ | 1.76864 | 1.77959 | | | | 1.79557 | 5.230 |
| 26 3-Chloroprene | +++++ | +++++ | 0.46259 | 0.48046 | 0.59752 | 0.58633 | | |
| | 0.58863 | 0.57491 | +++++ | | | | 0.54841 | 10.987 |
| 24 2-Methylpentane | +++++ | +++++ | 1.07587 | +++++ | 1.06567 | +++++ | | |
| | +++++ | 0.96088 | +++++ | | | | 1.03414 | 6.155 |
| 28 Acetonitrile | +++++ | +++++ | 0.91207 | 0.78219 | 0.77120 | +++++ | | |
| | +++++ | 0.78973 | 0.73564 | | | | 0.79817 | 8.390 |
| 29 Methylene Chloride | +++++ | 1.05688 | 0.72349 | 0.62713 | 0.66729 | 0.60425 | | |
| | 0.61065 | 0.59293 | +++++ | | | | 0.69752 | 23.620 |
| 30 tert-butyl alcohol | +++++ | +++++ | 0.97835 | 1.23942 | 1.62100 | 1.58108 | | |
| | 1.61776 | 1.65324 | +++++ | | | | 1.44848 | 19.099 |
| 31 MTBE | +++++ | 3.90257 | 3.75704 | 4.15019 | 5.14505 | 4.94174 | | |
| | 4.85513 | 4.70081 | +++++ | | | | 4.49322 | 12.219 |
| 32 trans-1,2-Dichloroethene | +++++ | 1.01551 | 0.90629 | 0.87576 | 1.03410 | 0.97910 | | |
| | 0.93296 | 0.90076 | +++++ | | | | 0.94921 | 6.429 |
| 33 Acrylonitrile | +++++ | +++++ | 0.85599 | 0.86309 | 0.82352 | +++++ | | |
| | +++++ | 0.82069 | 0.89074 | | | | 0.85081 | 3.439 |
| 34 2,4-Dimethylpentane | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | | |
| | +++++ | +++++ | +++++ | | | | +++++ | +++++ |

# Air Toxics Ltd.

## INITIAL CALIBRATION DATA

Start Cal Date : 08-MAR-2012 18:33
End Cal Date : 16-MAR-2012 11:53
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/msde.i/16Mar2012.b/e12l0308c.m
Cal Date : 20-Mar-2012 19:26 sscott
Curve Type : Average

| Compound | 0.05000 Level 4 | 0.10000 Level 5 | 0.50000 Level 6 | 2.000 Level 7 | 5.000 Level 8 | 10.000 Level 9 | ___ RRF | % RSD |
|---|---|---|---|---|---|---|---|---|
| | 20.000 Level 10 | 40.000 Level 11 | 2.500 Level 12 | | | | | |
| 35 Hexane | +++++ | 1.26224 | 1.46435 | 1.53929 | 1.87685 | 1.81657 | | |
| | 1.77099 | 1.67404 | +++++ | | | | 1.62919 | 13.459 |
| 191 Cyclopentane | +++++ | +++++ | 1.32161 | 1.22526 | 1.26995 | +++++ | | |
| | +++++ | 1.30836 | 1.41553 | | | | 1.30814 | 5.411 |
| 36 Isopropyl ether | +++++ | +++++ | 1.40936 | 1.51020 | 2.00157 | 1.91739 | | |
| | 1.92751 | 1.83453 | +++++ | | | | 1.76676 | 13.906 |
| 37 1,1-Dichloroethane | +++++ | 2.69825 | 2.67158 | 2.69407 | 2.90867 | 2.74824 | | |
| | 2.63442 | 2.42519 | +++++ | | | | 2.68292 | 5.369 |
| 38 Vinyl Acetate | +++++ | +++++ | 0.27495 | 0.35683 | 0.45265 | 0.44104 | | |
| | 0.43535 | 0.41738 | +++++ | | | | 0.39637 | 17.270 |
| 39 Chlorprene | +++++ | +++++ | 1.50185 | 1.69516 | 1.83963 | +++++ | | |
| | +++++ | 1.67196 | 1.69620 | | | | 1.68096 | 7.149 |
| 40 Ethyl-tert-butyl ether | +++++ | +++++ | 2.02227 | 2.05586 | 2.73876 | 2.67883 | | |
| | 2.66727 | 2.59970 | +++++ | | | | 2.46045 | 13.394 |
| 43 Ethyl Acetate | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | | |
| | +++++ | +++++ | +++++ | | | | +++++ | +++++ |
| 41 cis-1,2-Dichloroethene | +++++ | 1.02002 | 1.36812 | 1.42249 | 1.65164 | 1.57727 | | |
| | 1.51279 | 1.43776 | +++++ | | | | 1.42716 | 14.292 |
| 42 2-Butanone | +++++ | +++++ | 0.85764 | 0.88433 | 1.10498 | 1.12015 | | |
| | 1.11449 | 1.06507 | +++++ | | | | 1.02444 | 11.783 |

# Air Toxics Ltd.

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Integrator : HP RTE
Method file : /chem/msde.i/16Mar2012.b/e12l0308c.m
Cal Date : 20-Mar-2012 19:26 sscott
Curve Type : Average

| Compound | 0.05000 Level 4 | 0.10000 Level 5 | 0.50000 Level 6 | 2.000 Level 7 | 5.000 Level 8 | 10.000 Level 9 | ___ RRF | % RSD | |
|---|---|---|---|---|---|---|---|---|---|
| | 20.000 Level 10 | 40.000 Level 11 | 2.500 Level 12 | | | | | | |
| 192 1-Hexene | +++++ | +++++ | 0.75872 | 0.82318 | 0.87381 | +++++ | | | |
| | +++++ | 0.77516 | 0.78925 | | | | 0.80402 | 5.679 | |
| 44 Tetrahydrofuran | +++++ | +++++ | 0.82380 | 0.93660 | 1.13825 | 1.09309 | | | |
| | 1.08438 | 1.05158 | +++++ | | | | 1.02128 | 11.578 | |
| 47 Chloroform | +++++ | 4.70069 | 3.94664 | 3.95620 | 4.44727 | 4.07789 | | | |
| | 3.93343 | 3.68623 | +++++ | | | | 4.10691 | 8.462 | |
| 45 2,3-Dimethylpentane | +++++ | +++++ | 0.89705 | +++++ | 1.04153 | +++++ | | | |
| | +++++ | 0.93533 | +++++ | | | | 0.95797 | 7.813 | |
| 48 Cyclohexane | +++++ | 2.00319 | 1.91289 | 2.06354 | 2.52537 | 2.38522 | | | |
| | 2.30113 | 2.15893 | +++++ | | | | 2.19290 | 10.052 | |
| 49 1,1,1-Trichloroethane | 5.00060 | 4.99255 | 4.54882 | 4.39775 | 5.06281 | 4.74369 | | | |
| | 4.54045 | 4.25764 | +++++ | | | | 4.69304 | 6.465 | |
| 193 Methyl Acrylate | +++++ | +++++ | 2.71361 | 2.67108 | 2.88393 | +++++ | | | |
| | +++++ | 2.59571 | 2.84661 | | | | 2.74219 | 4.404 | |
| 51 Carbon Tetrachloride | 3.80197 | 2.39661 | 1.98314 | 1.91307 | 4.87699 | 4.50999 | | | |
| | 4.44128 | 4.16885 | +++++ | | | | 3.51149 | 34.672 | <- |
| 52 2,2,4-Trimethylpentane | +++++ | 3.00366 | 2.12606 | 2.27503 | 2.80205 | 2.56187 | | | |
| | 2.48656 | 2.32909 | +++++ | | | | 2.51204 | 12.243 | |
| 53 Benzene | +++++ | 1.46569 | 1.27718 | 1.23182 | 1.39341 | 1.28855 | | | |
| | 1.20544 | 1.11608 | +++++ | | | | 1.28260 | 9.122 | |

Air Toxics Ltd.

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Integrator : HP RTE
Method file : /chem/msde.i/16Mar2012.b/e12l0308c.m
Cal Date : 20-Mar-2012 19:26 sscott
Curve Type : Average

| Compound | 0.05000 Level 4 | 0.10000 Level 5 | 0.50000 Level 6 | 2.000 Level 7 | 5.000 Level 8 | 10.000 Level 9 | ___ RRF | % RSD |
|---|---|---|---|---|---|---|---|---|
| | 20.000 Level 10 | 40.000 Level 11 | 2.500 Level 12 | | | | | |
| 55 tert-amyl methyl ether | +++++ | +++++ | 0.15776 | 0.16879 | 0.21386 | 0.20452 | | |
| | 0.20176 | 0.18754 | +++++ | | | | 0.18904 | 11.611 |
| 56 1,2-Dichloroethane | +++++ | 0.90472 | 0.70702 | 0.68939 | 0.77658 | 0.70734 | | |
| | 0.66754 | 0.61012 | +++++ | | | | 0.72324 | 13.037 |
| 57 Heptane | +++++ | 0.14746 | 0.25414 | 0.27459 | 0.33402 | 0.29598 | | |
| | 0.28731 | 0.26223 | +++++ | | | | 0.26510 | 21.915 |
| 50 Thiophene | +++++ | +++++ | 0.92737 | +++++ | 0.74750 | +++++ | | |
| | +++++ | 0.75116 | +++++ | | | | 0.80868 | 12.713 |
| 59 Trichloroethene | 0.76777 | 0.57297 | 0.49850 | 0.48487 | 0.59016 | 0.55997 | | |
| | 0.54243 | 0.51503 | +++++ | | | | 0.56646 | 15.743 |
| 60 Methylcyclohexane | +++++ | +++++ | 0.63721 | 0.62749 | 0.84328 | 0.79489 | | |
| | 0.77042 | 0.71723 | +++++ | | | | 0.73175 | 11.904 |
| 61 1,2-Dichloropropane | +++++ | 0.48775 | 0.36660 | 0.34924 | 0.42257 | 0.38948 | | |
| | 0.38598 | 0.35875 | +++++ | | | | 0.39434 | 12.111 |
| 62 1,4-Dioxane | +++++ | 0.19323 | 0.25019 | 0.26676 | 0.32558 | 0.32092 | | |
| | 0.31002 | 0.30188 | +++++ | | | | 0.28123 | 17.000 |
| 63 Bromodichloromethane | 1.21058 | 1.08269 | 0.98379 | 1.01863 | 1.22109 | 1.15217 | | |
| | 1.10130 | 1.04230 | +++++ | | | | 1.10157 | 7.925 |
| 64 cis-1,3-Dichloropropene | +++++ | 0.69176 | 0.60611 | 0.61952 | 0.71936 | 0.72071 | | |
| | 0.72764 | 0.69187 | +++++ | | | | 0.68242 | 7.286 |

# Air Toxics Ltd.

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Integrator : HP RTE
Method file : /chem/msde.i/16Mar2012.b/e12l0308c.m
Cal Date : 20-Mar-2012 19:26 sscott
Curve Type : Average

| Compound | 0.05000 Level 4 | 0.10000 Level 5 | 0.50000 Level 6 | 2.000 Level 7 | 5.000 Level 8 | 10.000 Level 9 | ___ RRF | % RSD |
|---|---|---|---|---|---|---|---|---|
| | 20.000 Level 10 | 40.000 Level 11 | 2.500 Level 12 | | | | | |
| 65 4-Methyl-2-pentanone | +++++ | 0.31140 | 0.34409 | 0.44641 | 0.62763 | 0.61864 | | |
| | 0.62583 | 0.59382 | +++++ | | | | 0.50969 | 27.408 |
| 66 Octane | +++++ | +++++ | 0.17452 | 0.17469 | +++++ | +++++ | | |
| | +++++ | 0.18877 | +++++ | | | | 0.17932 | 4.560 |
| 68 Toluene | +++++ | 1.85886 | 1.42520 | 1.40756 | 1.67823 | 1.53873 | | |
| | 1.47285 | 1.33214 | +++++ | | | | 1.53051 | 11.887 |
| 194 Ethyl Acrylate | +++++ | +++++ | 0.24289 | 0.26992 | 0.29052 | +++++ | | |
| | +++++ | 0.25290 | 0.24764 | | | | 0.26078 | 7.481 |
| 69 trans-1,3-Dichloropropene | +++++ | 0.68784 | 0.73017 | 1.03091 | 1.27367 | 1.26209 | | |
| | 1.27768 | 1.24323 | +++++ | | | | 1.07223 | 24.515 |
| 70 1,1,2-Trichloroethane | 0.75078 | 0.65389 | 0.58831 | 0.60358 | 0.67432 | 0.65717 | | |
| | 0.63121 | 0.60863 | +++++ | | | | 0.64599 | 8.003 |
| 71 Tetrachloroethene | 0.86512 | 0.70261 | 0.75985 | 0.70527 | 0.78718 | 0.74538 | | |
| | 0.73034 | 0.70302 | +++++ | | | | 0.74985 | 7.407 |
| 72 2-Hexanone | +++++ | +++++ | 0.24751 | 0.33283 | 0.46176 | 0.46238 | | |
| | 0.47908 | 0.46948 | +++++ | | | | 0.40884 | 23.482 |
| 73 Dibromochloromethane | 0.95437 | 1.03094 | 0.91318 | 0.96299 | 1.24958 | 1.23645 | | |
| | 1.23223 | 1.21321 | +++++ | | | | 1.09912 | 13.360 |
| 74 1,2-Dibromoethane | 0.98003 | 0.96883 | 0.88931 | 0.93134 | 1.08038 | 1.04621 | | |
| | 1.03339 | 0.99732 | +++++ | | | | 0.99085 | 6.312 |

# Air Toxics Ltd.

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Cal Date : 20-Mar-2012 19:26 sscott
Curve Type : Average

| Compound | 0.05000 Level 4 | 0.10000 Level 5 | 0.50000 Level 6 | 2.000 Level 7 | 5.000 Level 8 | 10.000 Level 9 | ___ RRF | % RSD |
|---|---|---|---|---|---|---|---|---|
| | 20.000 Level 10 | 40.000 Level 11 | 2.500 Level 12 | | | | | |
| 76 Chlorobenzene | +++++ | 1.73448 | 1.38253 | 1.33755 | 1.49507 | 1.41015 | | |
| | 1.34302 | 1.27207 | +++++ | | | | 1.42498 | 10.738 |
| 78 Nonane | +++++ | +++++ | 0.36781 | 0.39416 | +++++ | +++++ | | |
| | +++++ | 0.37200 | +++++ | | | | 0.37799 | 3.747 |
| 77 Ethyl Benzene | +++++ | 0.70307 | 0.61481 | 0.66936 | 0.79836 | 0.74295 | | |
| | 0.69863 | 0.64621 | +++++ | | | | 0.69620 | 8.800 |
| 79 1,1,1,2-Tetrachloroethane | +++++ | 0.75173 | 0.80716 | 0.75488 | 0.75758 | +++++ | | |
| | +++++ | 0.75864 | +++++ | | | | 0.76600 | 3.024 |
| 186 1,1-Dichloropropene | +++++ | 0.60171 | 0.69291 | 0.70256 | 0.73202 | +++++ | | |
| | +++++ | 0.74919 | +++++ | | | | 0.69568 | 8.217 |
| 80 m,p-Xylene | +++++ | 0.74186 | 0.72981 | 0.81810 | 0.99842 | 0.91467 | | |
| | 0.87756 | 0.78332 | +++++ | | | | 0.83768 | 11.688 |
| 81 o-Xylene | +++++ | 0.67260 | 0.69166 | 0.77627 | 0.96306 | 0.91556 | | |
| | 0.85812 | 0.75995 | +++++ | | | | 0.80532 | 13.721 |
| 83 Styrene | +++++ | 1.05034 | 0.91470 | 1.16862 | 1.46083 | 1.40270 | | |
| | 1.33716 | 1.17504 | +++++ | | | | 1.21563 | 16.163 |
| 84 Bromoform | 0.86345 | 0.81136 | 0.73409 | 0.79868 | 1.10704 | 1.10691 | | |
| | 1.10372 | 1.07661 | +++++ | | | | 0.95023 | 17.116 |
| 85 Cumene | +++++ | 2.15863 | 2.24839 | 2.57329 | 3.14230 | 2.96519 | | |
| | 2.76042 | 2.40429 | +++++ | | | | 2.60750 | 14.093 |

# Air Toxics Ltd.

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Integrator : HP RTE
Method file : /chem/msde.i/16Mar2012.b/e12l0308c.m
Cal Date : 20-Mar-2012 19:26 sscott
Curve Type : Average

| Compound | 0.05000 Level 4 | 0.10000 Level 5 | 0.50000 Level 6 | 2.000 Level 7 | 5.000 Level 8 | 10.000 Level 9 | ___ RRF | % RSD |
|---|---|---|---|---|---|---|---|---|
| | 20.000 Level 10 | 40.000 Level 11 | 2.500 Level 12 | | | | | |
| 82 alpha-pinene | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | | |
| | +++++ | +++++ | +++++ | | | | +++++ | +++++ |
| 89 1,1,2,2-Tetrachloroethane | 1.43406 | 1.47334 | 1.36548 | 1.29477 | 1.41165 | 1.33782 | | |
| | 1.27826 | 1.18552 | +++++ | | | | 1.34761 | 6.965 |
| 90 Propylbenzene | +++++ | 3.16349 | 3.02243 | 3.18799 | 3.83185 | 3.60620 | | |
| | 3.47440 | 3.09315 | +++++ | | | | 3.33993 | 9.039 |
| 185 Bromobenzene | +++++ | 0.89773 | 0.81102 | 0.74966 | 0.75140 | +++++ | | |
| | +++++ | 0.80372 | +++++ | | | | 0.80271 | 7.512 |
| 91 1,2,3-Trichloropropane | +++++ | 0.48095 | 0.54932 | 0.47288 | 0.46023 | +++++ | | |
| | +++++ | 0.49156 | +++++ | | | | 0.49099 | 7.039 |
| 92 4-Ethyltoluene | +++++ | 2.59941 | 2.42762 | 2.75363 | 3.32813 | 3.15861 | | |
| | 3.03515 | 2.77294 | +++++ | | | | 2.86793 | 11.139 |
| 94 1,3,5-Trimethylbenzene | +++++ | 2.13046 | 2.12261 | 2.40550 | 2.83327 | 2.70242 | | |
| | 2.61381 | 2.47186 | +++++ | | | | 2.46856 | 11.054 |
| 93 2-Chlorotoluene | +++++ | 0.55147 | 0.53855 | 0.53788 | 0.55789 | +++++ | | |
| | +++++ | 0.49690 | +++++ | | | | 0.53654 | 4.426 |
| 96 4-Chlorotoluene | +++++ | 0.85117 | 0.76713 | 0.78241 | 0.81403 | +++++ | | |
| | +++++ | 0.75059 | +++++ | | | | 0.79307 | 5.046 |
| 86 1,3-Dichloropropane | +++++ | 0.71827 | 0.81618 | 0.71114 | 0.73077 | +++++ | | |
| | +++++ | 0.76506 | +++++ | | | | 0.74828 | 5.778 |

# Air Toxics Ltd.

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Curve Type : Average

| Compound | 0.05000 Level 4 | 0.10000 Level 5 | 0.50000 Level 6 | 2.000 Level 7 | 5.000 Level 8 | 10.000 Level 9 | ___ RRF | % RSD |
|---|---|---|---|---|---|---|---|---|
| | 20.000 Level 10 | 40.000 Level 11 | 2.500 Level 12 | | | | | |
| 97 tert-Butylbenzene | +++++ | 1.71943 | 1.73621 | 1.81454 | 1.93327 | +++++ | | |
| | +++++ | 1.79261 | +++++ | | | | 1.79921 | 4.698 |
| 98 1,2,4-Trimethylbenzene | +++++ | 1.76657 | 1.71044 | 2.00744 | 2.58936 | 2.50017 | | |
| | 2.42750 | 2.21054 | +++++ | | | | 2.17315 | 16.303 |
| 88 Decane | +++++ | +++++ | 0.48230 | 0.60090 | +++++ | +++++ | | |
| | +++++ | 0.52548 | +++++ | | | | 0.53623 | 11.194 |
| 188 Undecane | +++++ | +++++ | 0.39179 | 0.52929 | +++++ | +++++ | | |
| | +++++ | 0.43944 | +++++ | | | | 0.45351 | 15.396 |
| 189 Dodecane | +++++ | +++++ | 0.11490 | 0.15295 | +++++ | +++++ | | |
| | +++++ | 0.13687 | +++++ | | | | 0.13491 | 14.158 |
| 99 sec-Butylbenzene | +++++ | 3.12042 | 2.72606 | 2.78711 | 2.96377 | +++++ | | |
| | +++++ | 2.70500 | +++++ | | | | 2.86047 | 6.201 |
| 100 p-Cymene | +++++ | 1.93732 | 2.06274 | 2.20456 | 2.38024 | +++++ | | |
| | +++++ | 2.19026 | +++++ | | | | 2.15502 | 7.707 |
| 101 1,3-Dichlorobenzene | 1.20983 | 1.64051 | 1.29080 | 1.30381 | 1.52616 | 1.43901 | | |
| | 1.37380 | 1.23647 | +++++ | | | | 1.37755 | 10.838 |
| 103 1,2,3-trimethylbenzene | +++++ | 0.80049 | 0.81734 | 0.85370 | 0.89381 | +++++ | | |
| | +++++ | 0.80987 | +++++ | | | | 0.83504 | 4.616 |
| 104 1,4-Dichlorobenzene | 1.43852 | 1.50012 | 1.30692 | 1.24968 | 1.53193 | 1.42221 | | |
| | 1.35668 | 1.22064 | +++++ | | | | 1.37834 | 8.270 |

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Curve Type : Average

| Compound | 0.05000 Level 4 | 0.10000 Level 5 | 0.50000 Level 6 | 2.000 Level 7 | 5.000 Level 8 | 10.000 Level 9 | ___ RRF | % RSD |
|---|---|---|---|---|---|---|---|---|
| | 20.000 Level 10 | 40.000 Level 11 | 2.500 Level 12 | | | | | |
| 105 alpha-chlorotoluene | +++++ | 1.91527 | 1.75103 | 1.90955 | 2.45792 | 2.36459 | | |
| | 2.28541 | 2.01237 | +++++ | | | | 2.09945 | 12.786 |
| 195 trans-1,4-dichloro-2-butene | +++++ | +++++ | 0.29506 | 0.29412 | 0.33947 | +++++ | | |
| | +++++ | 0.31878 | 0.32752 | | | | 0.31499 | 6.355 |
| 95 Dibromomethane | +++++ | +++++ | 0.57511 | 0.52836 | 0.54060 | +++++ | | |
| | +++++ | 0.55969 | 0.53916 | | | | 0.54858 | 3.396 |
| 102 Indan | +++++ | +++++ | 1.47175 | +++++ | 1.68383 | +++++ | | |
| | +++++ | 1.44294 | +++++ | | | | 1.53284 | 8.582 |
| 107 Butylbenzene | +++++ | 0.51015 | 0.47126 | 0.46086 | 0.50167 | +++++ | | |
| | +++++ | 0.45532 | +++++ | | | | 0.47985 | 5.137 |
| 108 1,2-Dichlorobenzene | 1.40059 | 1.43524 | 1.21215 | 1.21420 | 1.42861 | 1.33639 | | |
| | 1.27873 | 1.14923 | +++++ | | | | 1.30689 | 8.390 |
| 106 Indene | +++++ | +++++ | 0.82509 | +++++ | 0.89549 | +++++ | | |
| | +++++ | 0.78545 | +++++ | | | | 0.83534 | 6.672 |
| 110 1,2-dibromo-3-chloropropane | +++++ | 0.42862 | 0.45780 | 0.55209 | 0.59918 | +++++ | | |
| | +++++ | 0.52164 | +++++ | | | | 0.51186 | 13.532 |
| 109 Hexachloroethane | +++++ | +++++ | 0.63666 | 0.58623 | 0.61034 | +++++ | | |
| | +++++ | 0.63276 | 0.60036 | | | | 0.61327 | 3.491 |
| 112 1,2,4-Trichlorobenzene | 0.70281 | +++++ | 0.76897 | 0.79659 | 0.89147 | 0.95259 | | |
| | 0.95573 | 0.91162 | +++++ | | | | 0.85425 | 11.527 |

# Air Toxics Ltd.

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Integrator : HP RTE
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Cal Date : 20-Mar-2012 19:26 sscott
Curve Type : Average

| Compound | 0.05000 Level 4 | 0.10000 Level 5 | 0.50000 Level 6 | 2.000 Level 7 | 5.000 Level 8 | 10.000 Level 9 | ___ RRF | % RSD |
|---|---|---|---|---|---|---|---|---|
| | 20.000 Level 10 | 40.000 Level 11 | 2.500 Level 12 | | | | | |
| 113 Hexachlorobutadiene | +++++ | +++++ | 0.74312 | 0.74460 | 0.78195 | 0.79617 | | |
| | 0.77725 | 0.73631 | +++++ | | | | 0.76324 | 3.267 |
| 114 Naphthalene | +++++ | +++++ | 1.26334 | 1.41667 | 1.84142 | 2.01398 | | |
| | 2.17562 | 2.20254 | +++++ | | | | 1.81893 | 21.762 |
| 111 1,3,5-Trichlorobenzene | +++++ | +++++ | 0.87208 | 0.79742 | 0.86810 | +++++ | | |
| | +++++ | 0.92982 | 0.87051 | | | | 0.86759 | 5.414 |
| 115 1,2,3-trichlorobenzene | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | | |
| | +++++ | +++++ | +++++ | | | | +++++ | +++++ |
| 187 2,3-Dichloropropene | +++++ | 2.17547 | 2.76959 | 2.95466 | 3.16504 | +++++ | | |
| | +++++ | 2.83077 | +++++ | | | | 2.77911 | 13.305 |
| $ 54 1,2-Dichloroethane-d4 | 1.88584 | 1.83753 | 1.90446 | 1.88903 | 1.85524 | 1.83388 | | |
| | 1.84682 | 1.85329 | +++++ | | | | 1.86326 | 1.410 |
| $ 67 Toluene-d8 | 0.96350 | 0.99976 | 1.00301 | 1.00821 | 1.03726 | 1.02266 | | |
| | 1.03062 | 0.99191 | +++++ | | | | 1.00712 | 2.346 |
| $ 87 Bromofluorobenzene | 0.57204 | 0.56784 | 0.58235 | 0.59285 | 0.58067 | 0.58620 | | |
| | 0.56126 | 0.53262 | +++++ | | | | 0.57198 | 3.305 |

Calibration History

Method : /chem/msde.i/16Mar2012.b/e12l0308c.m
Start Cal Date: 08-MAR-2012 18:33
End Cal Date : 16-MAR-2012 11:53

Initial Calibration

| Injection Date | Sublist | Calibration File |
|---|---|---|
| Cal Level: 4 , Cal Amount: 0.05000 | | |
| 09-MAR-2012 12:55 | Level05 | /chem/msde.i/08Mar2012.b/e030823.d |
| Cal Level: 5 , Cal Amount: 0.10000 | | |
| 10-MAR-2012 10:33 | AT5ICAL | /chem/msde.i/10Mar2012.b/e031002.d |
| 08-MAR-2012 18:33 | Level#1 | /chem/msde.i/08Mar2012.b/e030811.d |
| Cal Level: 6 , Cal Amount: 0.50000 | | |
| 16-MAR-2012 10:46 | AT2 | /chem/msde.i/16Mar2012.b/e031606.d |
| 10-MAR-2012 17:49 | BP | /chem/msde.i/10Mar2012.b/e031012.d |
| 10-MAR-2012 15:38 | AT3 | /chem/msde.i/10Mar2012.b/e031009.d |
| 10-MAR-2012 11:13 | AT5ICAL | /chem/msde.i/10Mar2012.b/e031003.d |
| 08-MAR-2012 19:17 | HILOcrvFULL | /chem/msde.i/08Mar2012.b/e030812.d |
| Cal Level: 7 , Cal Amount: 2.00000 | | |
| 16-MAR-2012 11:53 | AT2 | /chem/msde.i/16Mar2012.b/e031607.d |
| 10-MAR-2012 19:22 | BP | /chem/msde.i/10Mar2012.b/e031014.d |
| 10-MAR-2012 12:34 | AT5ICAL | /chem/msde.i/10Mar2012.b/e031005.d |
| 08-MAR-2012 20:22 | HILOcrvFULL | /chem/msde.i/08Mar2012.b/e030813.d |
| Cal Level: 8 , Cal Amount: 5.00000 | | |
| 16-MAR-2012 00:25 | AT2 | /chem/msde.i/15Mar2012.b/e031524.d |
| 10-MAR-2012 17:04 | AT3 | /chem/msde.i/10Mar2012.b/e031011.d |
| 10-MAR-2012 13:23 | AT5ICAL | /chem/msde.i/10Mar2012.b/e031006.d |
| 08-MAR-2012 21:02 | HILOcrvFULL | /chem/msde.i/08Mar2012.b/e030814.d |
| Cal Level: 9 , Cal Amount: 10.00000 | | |
| 08-MAR-2012 22:56 | HILOcrvFULL | /chem/msde.i/08Mar2012.b/e030815.d |

| Cal Level: 10, Cal Amount: 20.00000 |
|---|

| | | |
|---|---|---|
|08-MAR-2012 23:48 |HILOcrvFULL |/chem/msde.i/08Mar2012.b/e030816.d |

| Cal Level: 11, Cal Amount: 40.00000 | | |
|---|---|---|
|15-MAR-2012 23:05 |AT2 |/chem/msde.i/15Mar2012.b/e031522.d |
|10-MAR-2012 18:30 |BP |/chem/msde.i/10Mar2012.b/e031013.d |
|10-MAR-2012 16:18 |AT3 |/chem/msde.i/10Mar2012.b/e031010.d |
|10-MAR-2012 11:52 |AT5ICAL |/chem/msde.i/10Mar2012.b/e031004.d |
|09-MAR-2012 08:10 |HILOcrvFULL |/chem/msde.i/08Mar2012.b/e030817.d |

| Cal Level: 12, Cal Amount: 2.50000 | | |
|---|---|---|
|15-MAR-2012 23:43 |AT2 |/chem/msde.i/15Mar2012.b/e031523.d |

Continuing Calibration
Ccal Level Mode: GLOBAL LEVEL 9

| Ccal Level: 9 , Ccal Amount: 10.000 | | |
|---|---|---|
|16-MAR-2012 09:58 |AT09 |/chem/msde.i/16Mar2012.b/e031605.d |

| Ccal Level: 11, Ccal Amount: 40.000 | | |
|---|---|---|
|16-MAR-2012 14:41 |BPCCV |/chem/msde.i/16Mar2012.b/e031610.d |

| Ccal Level: 12, Ccal Amount: 2.500 | | |
|---|---|---|
|16-MAR-2012 13:27 |AT2CCV |/chem/msde.i/16Mar2012.b/e031609.d |

# Curve Name: E12$_L$0308C

**Initial Calibration Narrative**

An initial calibration curve was analyzed on 03/08/12 on MSD-E.

The instrument was set up to do Full Scan and Selective Ion Monitoring (SIM) simultaneously.

ICAL: One (1) out → Carbon Tetrachloride (34 %RSD)

ICV: (0) out; File E030824, 50mL load; Standard #2370-221; 10ppbv (50ppbv).

DOD ICV: (0) out.

The following compounds were calibrated using these concentrations: 0.05ppbv, 0.2ppbv, 0.50ppbv, 1.0ppbv, 2.0 ppbv and 4.0ppbv:

- Naphthalene

OK for NY reporting limits except for Fr114. Use the SIM data file for Freon 114 at 0.05ppbv.

OK for AFCEE.

**NOTE:** As shown on the attached run log, Level 4 was re-analyzed with a new standard #2403-59 due to anomalous response factors for Carbon Tetrachloride from a bad standard being used.

- A five (5) point Initial Calibration for the AT5 specials were analyzed on MSD-E on 03/10/2012 at levels 0.10, 0.50, 1.0, 2.0, and 5.0ppbv.
    - AT5 ICV ran on 03/10/2012 with ZERO out – 1.0ppbv (5.0ppbv); 50mL load; can# 2403-73; file# E022212

**NOTE:** There is no true second source for Vinyl Bromide. The CCV and LCS standards were prepared by two different analysts.

- The three (3) point initial calibration for the Boiling Point specials from 03/10/12 were analyzed MSD E on 03/10/2012 at 0.5, 1.0 and 2.0 ppbv.

- The three (3) point initial calibration for the AT3 specials were analyzed MSD E on 03/10/2012 at 0.5, 1.5 and 5.0 ppbv.

- The five (5) point initial calibration for the AT2 specials were analyzed MSD E on 03/15/12 and 03/16/12 at 0.5, 1.25, 2.0, 2.5 and 5.0 ppbv.

MDL was analyzed on 11/16/2011 AT5sp MDL was analyzed on 05/13/11.

Air Toxics Ltd.

INITIAL CALIBRATION DATA

Start Cal Date : 08-MAR-2012 18:33
End Cal Date : 16-MAR-2012 11:53
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/msde.i/16Mar2012.b/e12l0308c.m
Cal Date : 16-Mar-2012 11:25 llarson
Curve Type : Average

Please see Calibration History page(s) for all the calibration files.

Calibration File Names:
Level 4: /chem/msde.i/08Mar2012.b/e030823.d
Level 5: /chem/msde.i/10Mar2012.b/e031002.d
Level 6: /chem/msde.i/16Mar2012.b/e031606.d
Level 7: /chem/msde.i/16Mar2012.b/e031607.d
Level 8: /chem/msde.i/15Mar2012.b/e031524.d
Level 9: /chem/msde.i/08Mar2012.b/e030815.d
Level 10: /chem/msde.i/08Mar2012.b/e030816.d
Level 11: /chem/msde.i/15Mar2012.b/e031522.d
Level 12: /chem/msde.i/15Mar2012.b/e031523.d

VCR 03/17/12

| Compound | 0.05000 Level 4 | 0.10000 Level 5 | 0.50000 Level 6 | 2.000 Level 7 | 5.000 Level 8 | 10.000 Level 9 | RRF | % RSD |
|---|---|---|---|---|---|---|---|---|
| | 20.000 Level 10 | 40.000 Level 11 | 2.500 Level 12 | | | | | |
| 1 Freon134a | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | | |
| | +++++ | +++++ | +++++ | | | | +++++ | +++++ |
| 196 Methly Methacrylate | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | | |
| | +++++ | +++++ | +++++ | | | | +++++ | +++++ |
| 2 Propylene | +++++ | +++++ | 0.82667 | 0.75593 | 0.82981 | 0.81802 | | |
| | 0.75758 | 0.79406 | +++++ | | | | 0.79701 | 4.217 |
| 3 Freon 152A | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | | |
| | +++++ | +++++ | +++++ | | | | +++++ | +++++ |
| 4 Dichlorodifluoromethane/Fr12 | 5.91761 | 6.56396 | 5.88159 | 5.62776 | 6.12974 | 5.81528 | | |
| | 5.50446 | 5.30303 | +++++ | | | | 5.84293 | 6.667 |
| 5 Freon 22 | +++++ | +++++ | +++++ | +++++ | +++++ | +++++ | | |
| | +++++ | +++++ | +++++ | | | | +++++ | +++++ |
| 6 Freon 114 | +++++ | 3.38654 | 3.06664 | 2.86278 | 3.15772 | 3.03016 | | |
| | 2.90555 | 2.87047 | +++++ | | | | 3.03998 | 6.198 |

| | |
|---|---|
| BFB Verification of 176/174 m/z Ratio: | 357845/369898*100% = 96.74% ✓ |
| Tekmar Purge Flow: | NA |
| Vacuum: | 8.04e-6 |

| | | |
|---|---|---|
| IS/S Std. #: | 2403-19 | Exp. Date: 05/27/12 |
| BCM | 73839 (LL) | 76109 (SIM) |
| 1,4-DFB | 285440 | 319294 |
| CB-d5 | 243451 | ~~264~~ 267655 CR 03/09/12 |

Verified CCV IS vs ICAL mid-point (-40%D): CR

| | |
|---|---|
| File ID: | E030815a |
| Compound: | Toluene-d8 |
| Initials: | CR |

Method Name: E12L030815A/E12S030815A

**Calculation Check:**

ppbv of compound = $\frac{\text{Area}_{\text{Sample}}}{\text{Area}_{\text{IS}}} \times \frac{\text{Conc}_{\text{IS}}}{\text{RRF}}$ = ( 291907 ) x ( 5.00 ) = 5.077
( 285440 ) ( 1.00712 )

Reported Result: 5.077

| | Use | File | Lab ID# | Can# | Pressure | Amt. Loaded | DF | Loaded By Initials | Date Analyzed | Time Analyzed | Reviewed By Initials | Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | ✓ | E030805 | BFB Tune Check | 1476-2725 | 50ng | 2µL | 1.00 | CR | 03/08/12 | 1416 | CR | |
| 2 | X | 06 | ICAL Level 1 | 2403-53 | 0.0003ppbv | 15mL | 1.00 | CR | | 1442 | CR | Bad Std |
| 3 | X | 07 | 12 | | 0.005ppbv | 25mL | 1.00 | CR | | 1529 | CR | |
| 4 | X | 08 | 2 | | 0.01ppbv | 50mL | 1.00 | GS | | 1620 | GS | |
| 5 | X | 09 | 3 | | 0.02ppbv | 100mL | 1.00 | | | 1702 | GS | |
| 6 | X | 10 | 4 | | 0.05ppbv | ~~250~~mL | 1.00 | | | 1748 | GS | |
| 7 | ✓ | 11 | 5 | 2403-57 | 0.1ppbv | 12.5mL | 1.00 | | | 1833 | GS | |
| 8 | ✓ | 12 | 6 | | 0.5ppbv | 62.5mL | 1.00 | | | 1917 | GS | |
| 9 | ✓ | 13 | 7 | | 2.0ppbv | 250mL | 1.00 | | | 2022 | GS | |
| 10 | ✓ | 14 | 8 | 2370-1926 | 5.0ppbv | 25mL | 1.00 | | | 2102 | GS | |
| 11 | ✓ | 15 | 9 | | 10.0ppbv | 50mL | 1.00 | | | 2256 | CR | |
| 12 | ✓ | 16 | 10 | | 20.0ppbv | 100mL | 1.00 | EA | | 2348 | CR | |
| 13 | ✓ | 17 | 11 | | 40ppbv | 200mL | 1.00 | CR | 03/09/12 | 0810 | CR | |
| 14 | OK | 18 | System Blank | 36043 | Humid | 250mL | 1.00 | CR | | 0919 | CR | |

Catherine Rowe — Signed
03/09/12 — Date
R Donnelly — Reviewed
3/10/12 — Date

@ Air Toxics Ltd. MSD-E Logbook #: 2374

0331 of 0747

| | Use | File | Lab ID# | Can# | Pressure | Amt. Loaded | DF | Loaded By Initials | Date Analyzed | Time Analyzed | Reviewed By Initials | Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 15 | ✓ | E030819 | ICAL Level 1 | 2403-59 | 0.003ppbv | 15mL | 1.00 | CR | 03/09/12 | 1005 | CR | |
| 16 | ✓ | 20 | 12 | | 0.005ppbv | 25mL | 1.00 | CR | | 1043 | CR | |
| 17 | ✓ | 21 | 2 | | 0.01ppbv | 50mL | 1.00 | CR | | 1122 | CR | |
| 18 | ✓ | 22 | 3 | | 0.02ppbv | 100mL | 1.00 | CR | | 1203 | CR | |
| 19 | ✓ | 23 | 4 | | 0.05ppbv | 250mL | 1.00 | CR | | 1255 | CR | |
| 20 | ✓ | 24 | ICV (50ppbv) | 2370-221 | 10ppbv | 50mL | 1.00 | CR | | 1334 | CR | Zero air |
| 21 | | | | | | | | | | | | |
| 22 | | | | | | | | | | | | |
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| 35 | | | | | | | | | | | | |
| 36 | | | | | | | | | | | | CR 03/09/12 |

Signed 03/09/12 Date

Reviewed 3/10/12 Date

Flow Controller: AA00483163

Flow Meter: 1-nc18724 · FP = 09/20/11

Nominal: 24.0 mL/min Actual: 25 mL/min

280362/289002 *100% = 97.012% ✓

| BFB Verification of 176/174 m/z Ratio: | |
|---|---|
| Tekmar Purge Flow: | NA |
| Vacuum: | 7.92e-6 |

| IS/S Std. #: 2403-19 | Exp. Date: 05/27/12 |
|---|---|
| BCM | 53284 (LL) |
| 1,4-DFB | 199260 |
| CB-d5 | 174009 |

CR 03/10/12

ATS ICAL

Verified CCV IS vs ICAL mid-point (-40%D): CR

| File ID: | E031004a |
|---|---|
| Compound: | Toluene-d8 |
| Initials: | CR |

Method Name: E12L0308B/E12S0308A

**Calculation Check:**

ppbv of compound = $\frac{\text{Area}_{\text{Sample}}}{\text{Area}_{\text{IS}}} \times \frac{\text{Conc}_{\text{IS}}}{\text{RRF}} = \frac{(192766)}{(199260)} \times \frac{(5.00)}{(1.00712)} = 4.803$

Reported Result: 4.803

| | Use | File | Lab ID# | Can# | Pressure | Amt. Loaded | DF | Loaded By Initials | Date Analyzed | Time Analyzed | Reviewed By Initials | Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | ✓ | E031001 | BFB Tune Check | 1476-2725 | 50ng | 3µL | 1.00 | CR | 03/10/12 | 1000 | CR | |
| 2 | ✓ | 02 | ICAL Level #5 | 2403-8 | 0.10ppbv | 250mL | 1.00 | CR | | 1033 | CR | ATS |
| 3 | ✓ | 03 | #6 | 2403-7 | 0.50ppbv | 25mL | 1.00 | CR | | 1113 | CR | |
| 4 | ✓ | 04 | #7 | | 1.0ppbv | 50mL | 1.00 | CR | | 1152 | CR | |
| 5 | ✓ | 05 | #7 | | 2.0ppbv | ~~50mL~~ 100mL | CR 03/10/12 1.00 | CR | | 1234 | CR | |
| 6 | ✓ | 06 | #8 | | 5.0ppbv | 250mL | 1.00 | CR | | 1323 | CR | |
| 7 | ✓ | 07 | System Blank | 360043 | Humid | 250mL | 1.00 | CR | | 1410 | CR | ~~ATS LCS~~ CR 03/10/12 |
| 8 | ✓ | 08 | ICVsp (5.0ppbv) | 2403-73 | 1.0ppbv | 50mL | 1.00 | CR | | 1453 | CR | ATS LCS |
| 9 | ✓ | 09 | ICAL Level #6 | 2403-72 | 0.5ppbv | 25mL | 1.00 | LL | | 1538 | CR | ATS |
| 10 | ✓ | 10 | #11 | | 1.5ppbv | 75mL | | | | 1618 | CR | |
| 11 | ✓ | 11 | #8 | | 5.0ppbv | 250mL | | | | 1704 | CR | |
| 12 | ✓ | 12 | ICAL Level #6 | 2379-31 | 0.5ppbv | 62.5mL | | | | 1749 | CR | BD |
| 13 | ✓ | 13 | #11 | | 1.0ppbv | 125mL | | | | 1830 | CR | |
| 14 | ✓ | 14 | #7 | | 2.0ppbv | 250mL | | ✓ | | 1922 | CR | |

Catherine Rau — Signed

03/12/12 — Date

Reviewed

3/12/12 — Date

| BFB Verification of 176/174 m/z Ratio: 266837/275709 X100 = 96.78% |
|---|
| Tekmar Purge Flow: |
| Vacuum: LL 3/15/12. |

| IS/S Std. #: 2403-19 | Exp. Date: 5/27/12 |
|---|---|
| BCM 74222 (LL) | 75685 (sim) |
| 1,4-DFB 274748 | 307435 |
| CB-d5 232359 | 260609 |

Verified CCV IS vs ICAL mid-point (-40%D): CR

| File ID: E031502 |
|---|
| Compound: Toluene-d8 |
| Initials: LL |

Method Name: E12L0308B/E1250308A

**Calculation Check:**

ppbv of compound = $\frac{\text{Area}_{\text{Sample}}}{\text{Area}_{\text{IS}}} \times \frac{\text{Conc}_{\text{IS}}}{\text{RRF}} = \left(\frac{284858}{307435}\right) \times \left(\frac{5.00}{1.00712}\right) = 5.147$

Reported Result: 5.147

| | Use | File | Lab ID# | Can# | Pressure | Amt. Loaded | DF | Loaded By Initials | Date Analyzed | Time Analyzed | Reviewed By Initials | Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | ✓ | E031501 | BFB Tune check | 14776-2725 | 50ng | 2.0µL | 1.00 | LL | 3/15/12 | 0725 | LL/CR | |
| 2 | ✓ | 02 | CCV (~~50ppbv~~ CR 03/15/12) | 2370-196 | 10~~50~~ppbv | 50mL | | | | 0746 ~~0853~~ | /CR | LL 1 out; $CH_2Cl_2$ sim 0 out |
| 3 | ✓ | 03 | LCS (50ppbv) | 2370-221 | 10ppbv | 50mL | | | | 0831 ~~0910~~ CR 03/15/12 | CR | |
| 4 | ✓ | 04 | LCSD (50ppbv) | 2370-221 | 10ppbv | 50mL | | | | 0909 | CR | |
| 5 | X | 05 | ICAL Level 6 | 2370-185 | 0.5ppbv | 62.5mL | | | | 0948 | LL/— | AT-2/Bad Std |
| 6 | X | 06 | " lot#12 11 | " | 1.0ppbv | 125mL | | | | 1026 | /— | " " |
| 7 | X | 07 | " 7. | " | 2.0ppbv | 250mL | | | | 1107 | /— | " " |
| 8 | ✓ | 08 | System Blank | 36043 | NA | | | | | 1204 | /— | |
| 9 | ✓ | 09 | Lab Blank | " | " | | | | | 1248 | /CR | |
| 10 | ✓ | 10 | 120318 9-08A | 4243 | 7.0"Hg→5.0psi | | 1.75 | | | 1335 | /CR | |
| 11 | X | 11 | -01A | 3729 | 8.0"Hg→5psi | ~~40mL~~ ~~50mL~~ 9.5 11.4 R3/15/12 | | | | 1421 | STE/— | overdilute |
| 12 | ✓ | 12 | " 01A | 3729 | " | ~~50mL~~ 3/15/12 STE | 9.15 | STE | | 1505 | STE/CR | DilTC |
| 13 | ✓ | 13 | 120325IA-01AB | 4241 | 7.0"Hg-5psi | 250mL | 1.75 | STE | | 1559 | STE/CR | |
| 14 | ✓ | 14 | " 02AB | 4314 | 2.5"Hg-5psi | 250mL | 1.46 | STE | | 1642 | STE/CR | |

Signed — 3/15/12 Date — Reviewed — 03/16/12 Date

| | Use | File | Lab ID# | Can# | Pressure | Amt. Loaded | DF | Loaded By Initials | Date Analyzed | Time Analyzed | Reviewed By Initials | Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 15 | ✓ | E031515 | 12032515A-03AB | 4380 | 4.0"Hg-5psi | 250mL | 1.55 | SFE | 3/15/12 | 1726 | SFE/CR | |
| 16 | ✓ | 16 | 04AB | 12006 | 8.0"Hg-5psi | 250mL | 1.83 | SFE | | 1820 | SFE/CR | |
| 17 | ✓ | 17 | 05AB | 9920 | 7.5"Hg-5psi | 250mL | 1.79 | SFE | | 1904 | SFE/CR | |
| 18 | ✓ | 18 | 06AB | 424 | 7.5"Hg-5psi | 250mL | 1.79 | SFE | | 1950 | SFE/CR | |
| 19 | ✓ | 19 | 07AB | 36035 | 9.0"Hg-5psi | 250mL | 1.91 | SFE | | 2033 | SFE/CR | |
| 20 | ✓ | 20 | 08AB | 12683 | 6.0"Hg-5psi | 250mL | 1.68 | SFE | | 2121 | SFE/CR | |
| 21 | ✓ | 21 | System Blank | 36043 | humid | 250mL | 1.00 | SFE | | 2217 | SFE/CR | |
| 22 | ✓ | 22 | ICAL level 6 | 11 2403-84 | ~~0.5ppbv~~ 1.25ppbv CR 03/16/12 | 62.5mL | 1.00 | SFE | | 2305 | CR | AT-2 |
| 23 | ✓ | 23 | | 12 2403-84 | ~~1.0ppbv~~ 2.5ppbv CR 03/16/12 | 125mL | 1.00 | SFE | | 2343 | CR | |
| 24 | ✓ | 24 | | ~~7~~ 8 2403-84 | ~~2.0ppbv~~ 5.0ppbv CR 03/16/12 | 250mL | 1.00 | SFE | 03/16/12 | 0025 | CR | |
| 25 | | | | | | | | | | | | |
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| 35 | | | | | | | | | | | | |
| 36 | | | | | | | | | | | | CR 03/16/12 |

Signed Date Reviewed Date

| | |
|---|---|
| BFB Verification of 176/174 m/z Ratio: | 295432/306349 ×100= 96.44% |
| Tekmar Purge Flow: | |
| Vacuum: | 23 3/16/12 |

| | | |
|---|---|---|
| IS/S Std. #: | 2403-19 | Exp. Date: 5/27/12 |
| BCM | 758167 (LL) | 778.45 (Sim) |
| 1,4-DFB | 297952 | 3355264 |
| CB-d5 | 2565527 | 2815597 |

Verified CCV IS vs ICAL mid-point (-40%D): CR

| | |
|---|---|
| File ID: | E031605 |
| Compound: | Toluene-d8 |
| Initials: | LL |

Method Name: E12L0308C / E12S0308A

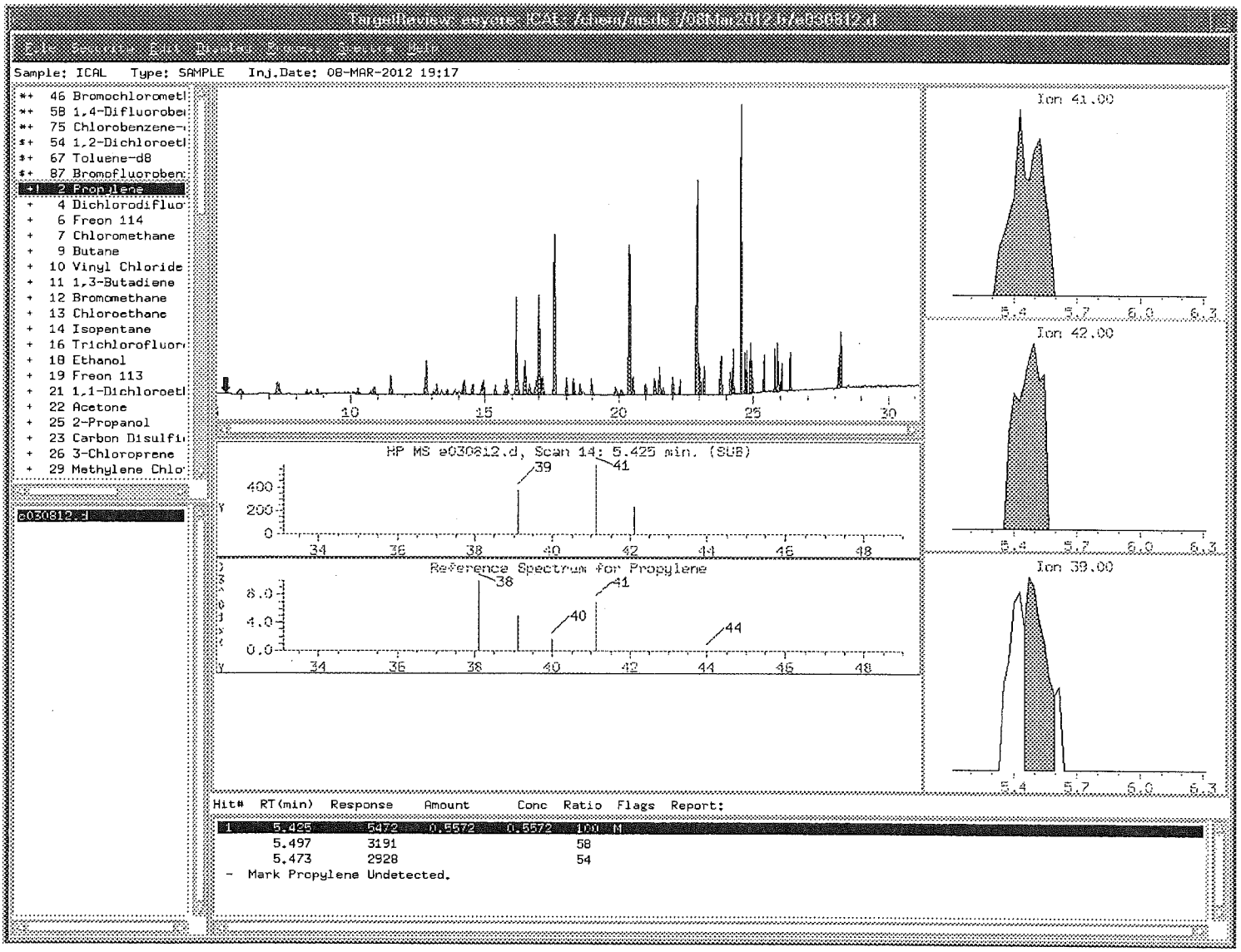
**Calculation Check:**

ppbv of compound = $\frac{\text{Area}_{\text{Sample}}}{\text{Area}_{\text{IS}}} \times \frac{\text{Conc}_{\text{IS}}}{\text{RRF}} = \left(\frac{305929}{297952}\right) \times \left(\frac{5.00}{1.00712}\right) = 5.098$

Reported Result: 5.098

| | Use | File | Lab ID# | Can# | Pressure | Amt. Loaded | DF | Loaded By Initials | Date Analyzed | Time Analyzed | Reviewed By Initials | Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | ✓ | E031601 | BFB Tune Check | 14776-2725 | 50ng | 2.0mL | 1.00 | LL | 3/16/12 | 0724 | LL/CR | |
| 2 | X | 02 | CCV (50 200ppbv) | 2370-194 | 10ppbv | 50mL | | | | 0744 | /— | MeCl2 ↓ @ 42% drift. |
| 3 | ✓ | 03 | LCS | 2370-221 | | | | | | 0822 | /CR | LL: 2 out Sim: 1 out |
| 4 | ✓ | 04 | LCSD | 2370-221 | | | | | | 0907 | /CR | ↓ |
| 5 | ✓ | 05 | CCV | 2370-196 | | | | | | 0958 | /CR | LL: MeCl2 ↓ - ok per SS |
| 6 | ✓ | 06 | ICAL Level 6 CCVsp @ (5.0ppbv) | 2403-84 | 0.5 10ppbv | 25 125mL | | | | 1046 | CR | AT2 |
| 7 | ✓ | 07 | ICAL Level 7 | ↓ | 2.0ppbv | 100 125mL | ↓ | ↓ | | 1153 | CR | ↓ |
| 8 | ✓ | 08 | Sys Blank | 36043 | Humid | 250mL | 1.00 | CR | | 1249 | LL/CR | |
| 9 | ✓ | 09 | CCVsp (5.0ppbv) | 2403-84 | 2.5ppbv | 125mL | | LL | | 1327 | ↓/CR | AT-2 CCV |
| 10 | ✓ | 10 | CCV sp (2.0ppbv) | 2370-131 | 1.0ppbv | | | | | 1441 | CR | BP: CCV |
| 11 | ✓ | 11 | Lab Blank | 36043 | humid | 250mL | 1.00 | Stc | | 1536 | Stc/EA | |
| 12 | ✓ | 12 | 1203134-01A | 944 | 11.2psi - 11.2psi | 250mL | 1.00 | Stc | | 1639 | Stc/EA | |
| 13 | ✓ | 13 | ↓ 02A | 5729 | 12.5psi - 12.5psi | 250mL | 1.00 | Stc | | 1729 | Stc/EA | |
| 14 | ✓ | 14 | 1202564-01A | 10988 | 8.1psi - 8.1psi | 250mL | 1.00 | Stc | ↓ | 1816 | Stc/EA | |

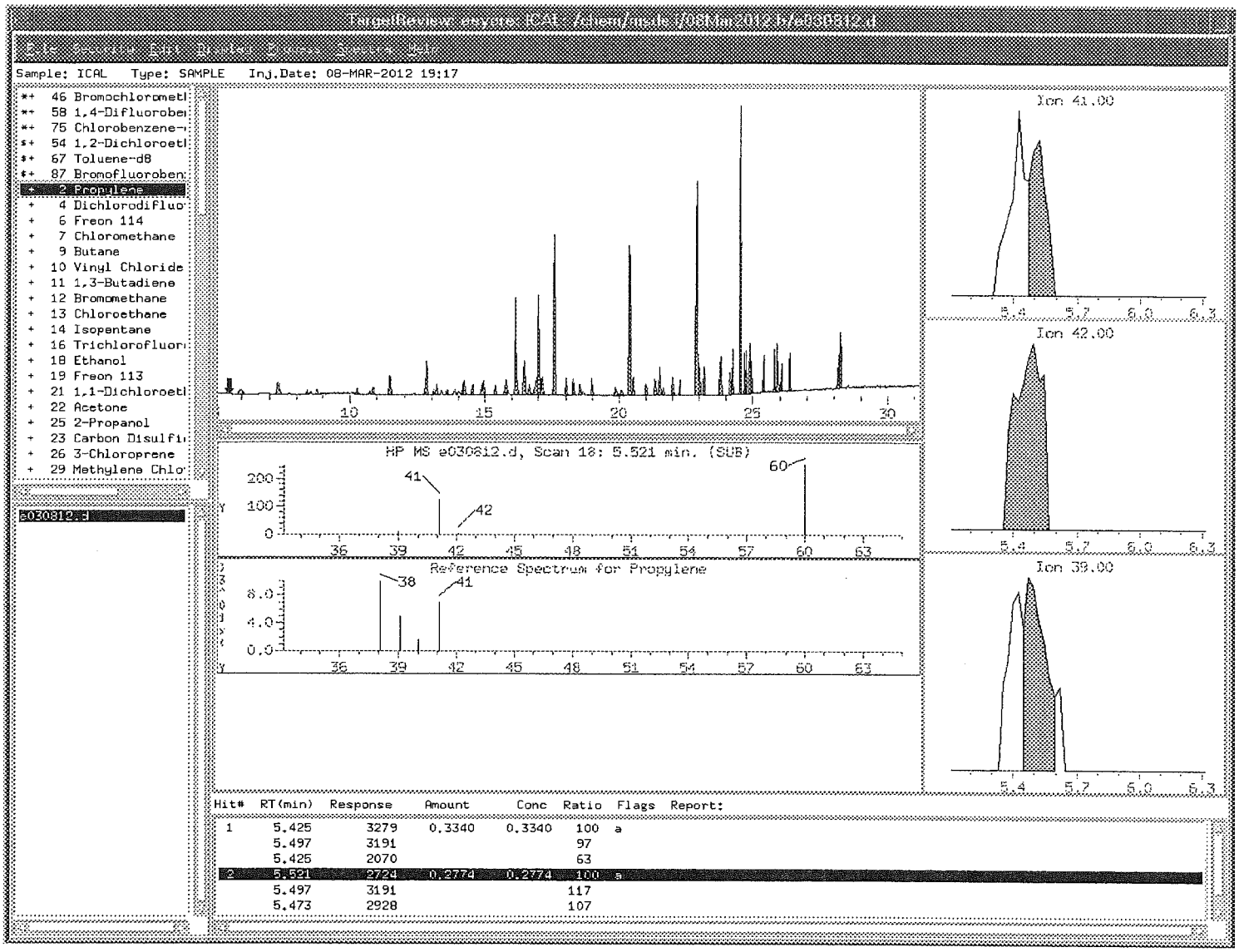
Signed — 3/16/12 Date — Reviewed — 3/16/12 Date



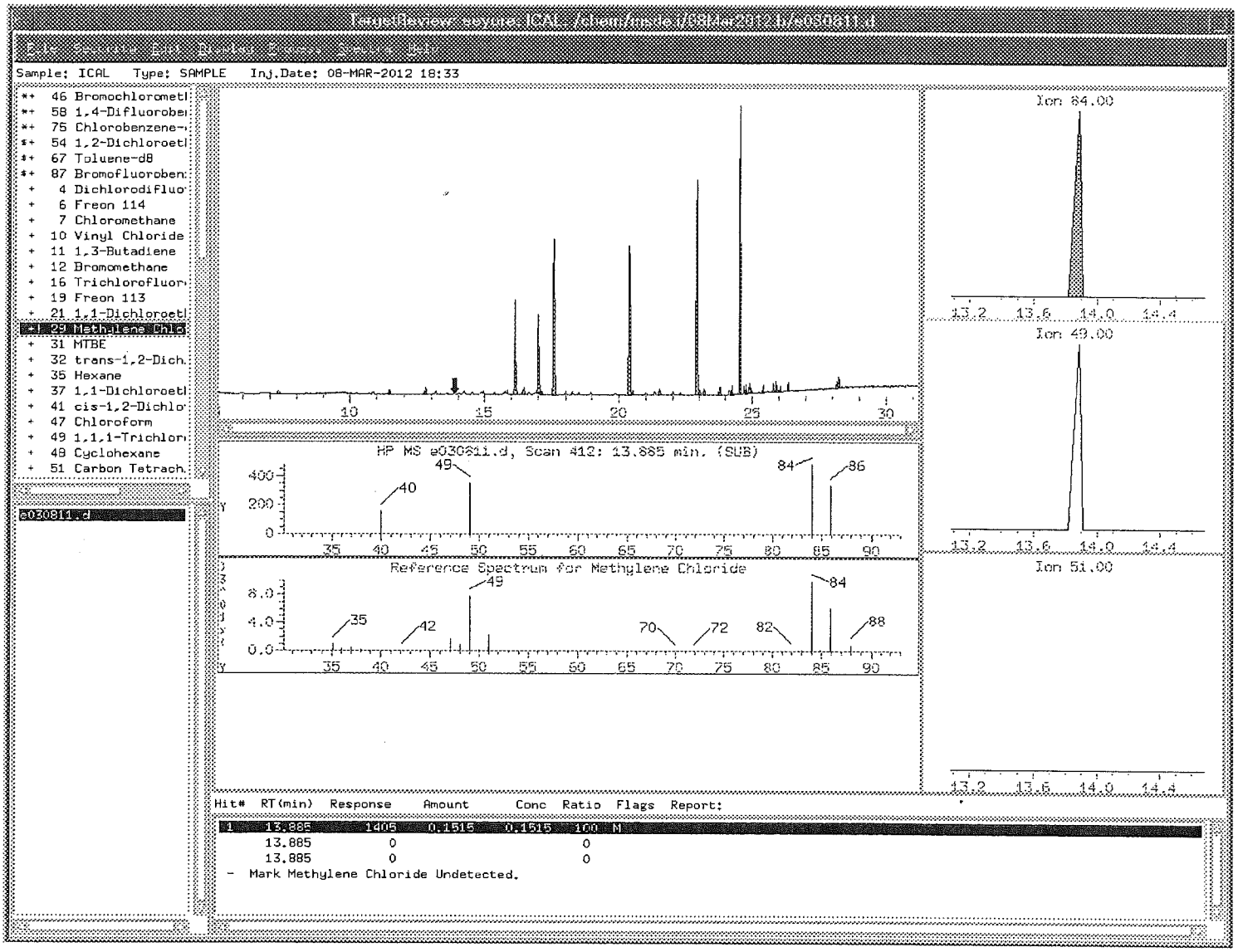

After

| | |
|---|---|
| Date / Initial | CK 03/09/12 |
| Poor Integration | |
| Split Peak | |
| Peak Tailing | |
| Background Subtra | |
| Zoom In | |
| Missed Peak | |

05 3/12/12


TargetReview analyte: ICAL /chem/medk/08Mar2012/e030812.d
Sample: ICAL Type: SAMPLE Inj.Date: 08-MAR-2012 19:17
46 Bromochlorometh
58 1,4-Difluorober
75 Chlorobenzene-
54 1,2-Dichloroeth
67 Toluene-d8
87 Bromofluoroben
2 Propylene
4 Dichlorodifluo
6 Freon 114
7 Chloromethane
9 Butane
10 Vinyl Chloride
11 1,3-Butadiene
12 Bromomethane
13 Chloroethane
14 Isopentane
16 Trichlorofluor
18 Ethanol
19 Freon 113
21 1,1-Dichloroeth
22 Acetone
25 2-Propanol
23 Carbon Disulfi
26 3-Chloroprene
29 Methylene Chlo
e030812.d
HP MS e030812.d, Scan 18: 5.521 min. (SUB)
Reference Spectrum for Propylene
Ion 41.00
Ion 42.00
Ion 39.00
Hit# RT(min) Response Amount Conc Ratio Flags Report:
1 5.425 3279 0.3340 0.3340 100 a
5.497 3191 97
5.425 2070 63
2 5.521 2724 0.2774 0.2774 100 a
5.497 3191 117
5.473 2928 107

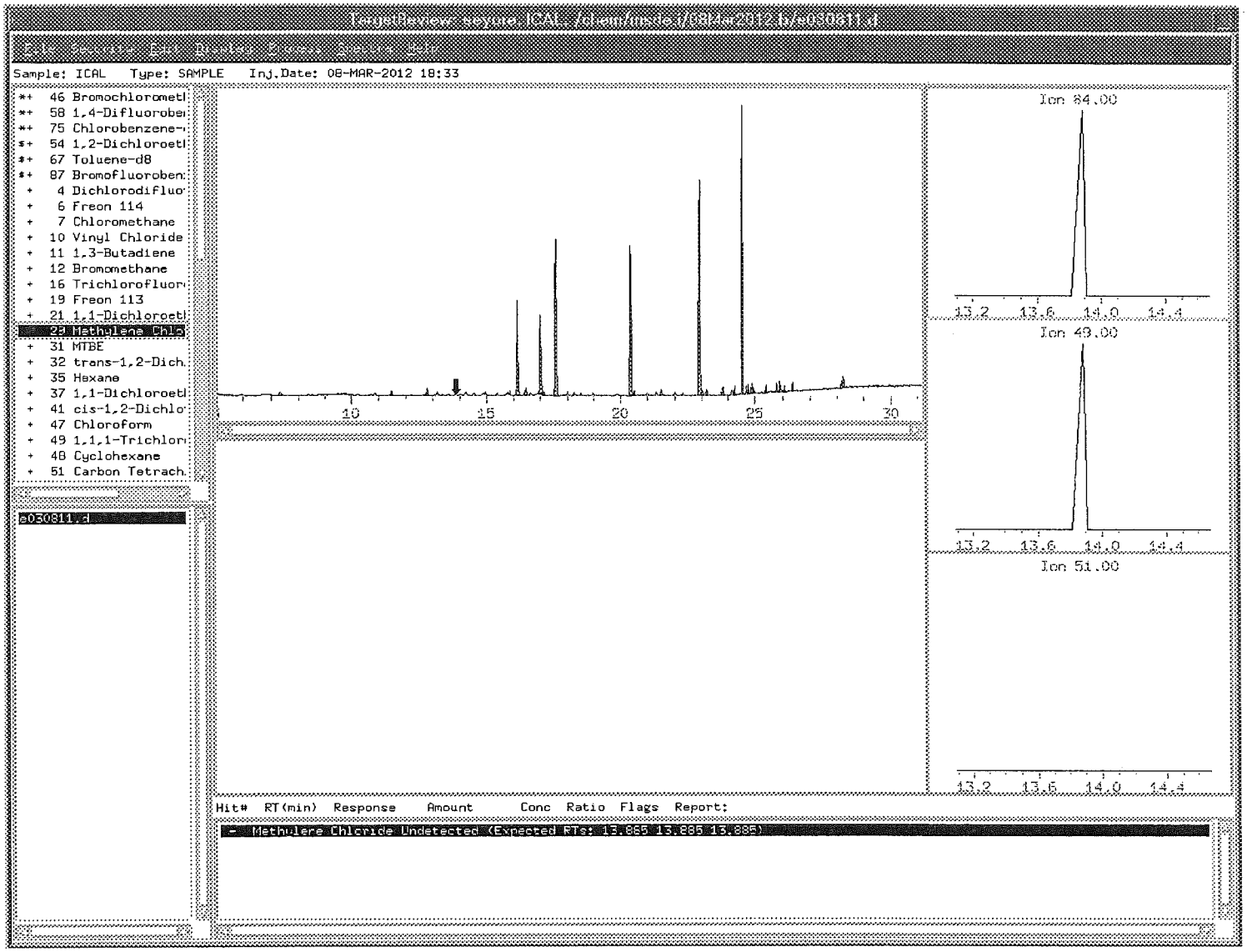
Before



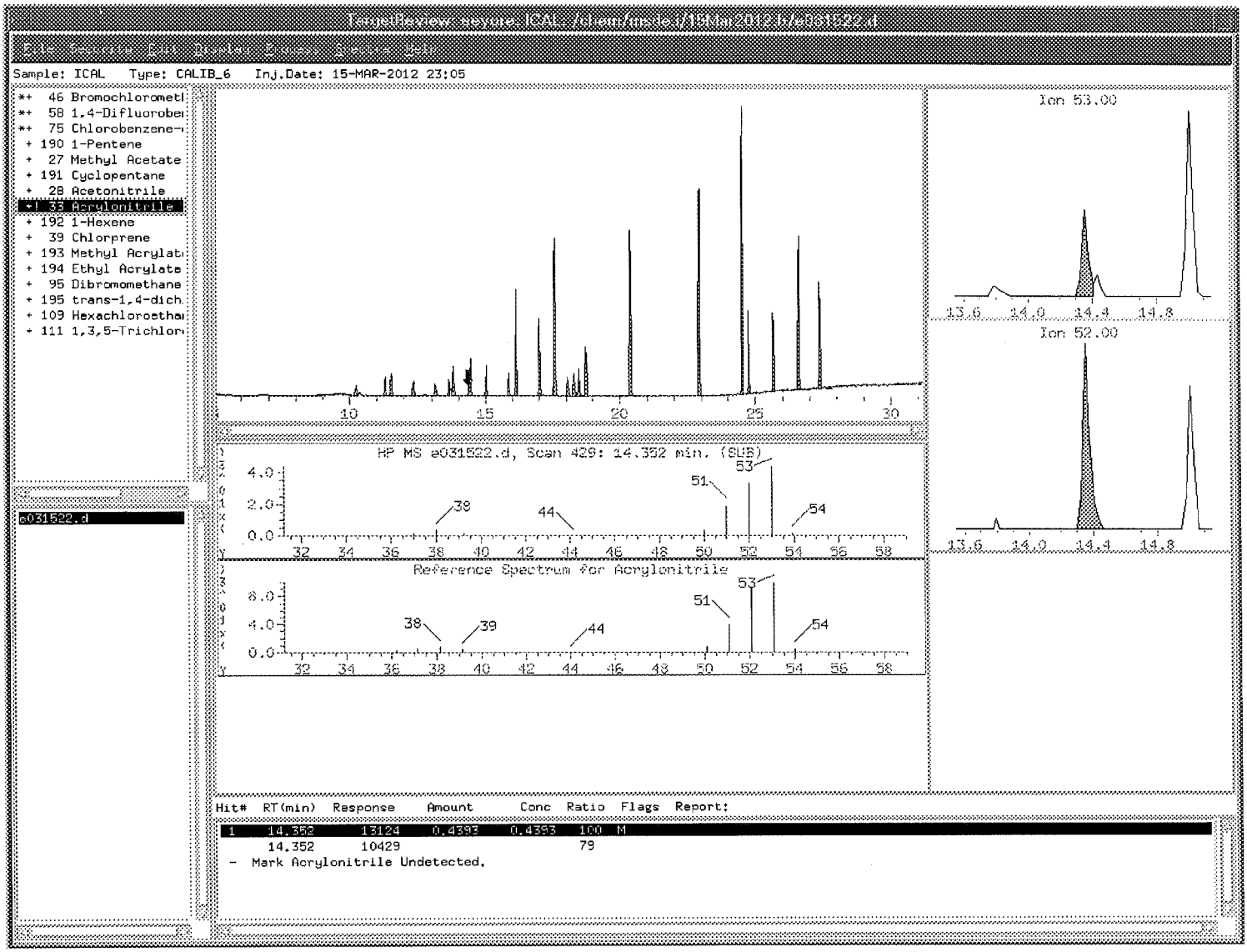

After

| | |
|---|---|
| Date / Initial | CR 03/09/12 |
| Poor Integration | |
| Split Peak | |
| Peak Tailing | |
| Background Subtraction | |
| Zoom In | |
| Missed Peak | ✓ |

SS 3/12/12


Targetreview: seyone, ICAL: /chem/ms.e/08mar2012.b/e0308s11.d
Sample: ICAL Type: SAMPLE Inj.Date: 08-MAR-2012 18:33
46 Bromochloromethane
58 1,4-Difluorobenzene
75 Chlorobenzene-d5
54 1,2-Dichloroethane-d4
67 Toluene-d8
87 Bromofluorobenzene
4 Dichlorodifluoromethane
6 Freon 114
7 Chloromethane
10 Vinyl Chloride
11 1,3-Butadiene
12 Bromomethane
16 Trichlorofluoromethane
19 Freon 113
21 1,1-Dichloroethene
29 Methylene Chloride
31 MTBE
32 trans-1,2-Dichloroethene
35 Hexane
37 1,1-Dichloroethane
41 cis-1,2-Dichloroethene
47 Chloroform
49 1,1,1-Trichloroethane
48 Cyclohexane
51 Carbon Tetrachloride
e0308s11.d
10
15
20
25
30
Ion 84.00
Ion 49.00
Ion 51.00
13.2
13.6
14.0
14.4
Hit# RT(min) Response Amount Conc Ratio Flags Report:
- Methylene Chloride Undetected (Expected RTs: 13.865 13.885 13.885)

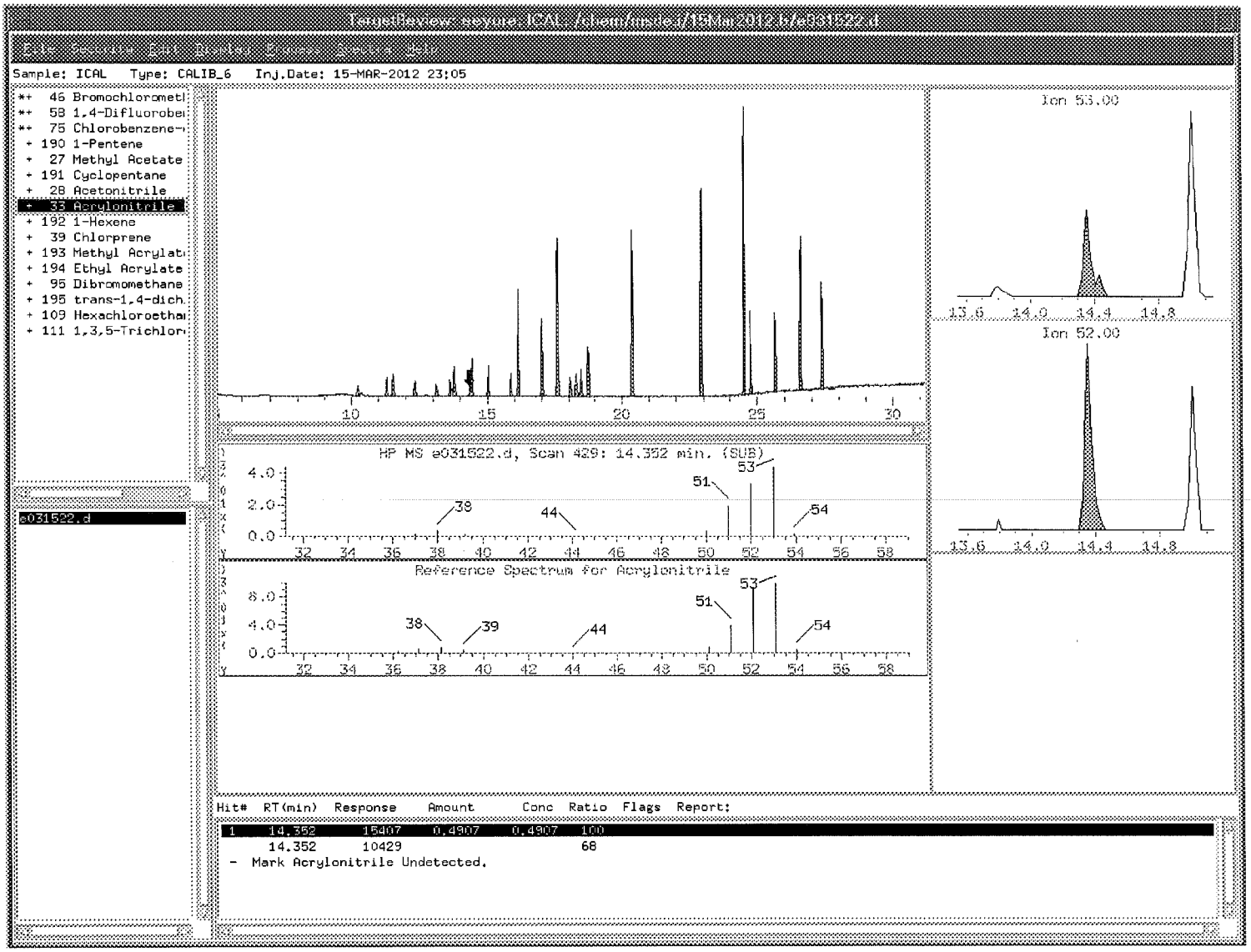
Before



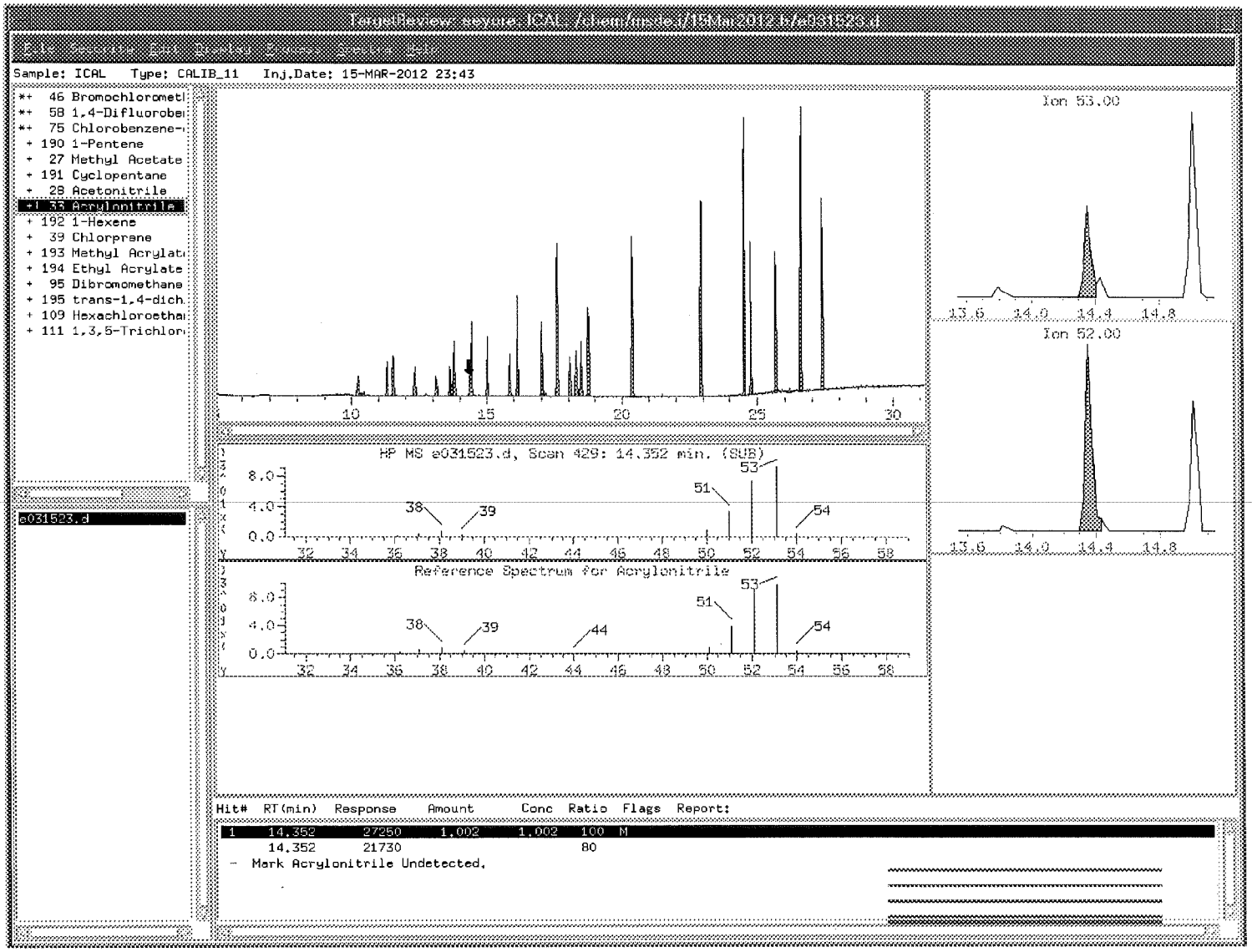

After

| | |
|---|---|
| Date / Initial | CR03/10/12 |
| Poor Integration | |
| Split Peak | |
| Peak Tailing | |
| Background Subtraction | |
| Zoom In | |
| Missed Peak | |
| Merged Peak | |

SS
3/19/12


TargetReviewer.exe:user ICAL /chem/ms.e/2012/e031522.d
Sample: ICAL Type: CALIB_6 Inj.Date: 15-MAR-2012 23:05
** 46 Bromochlorometl
** 58 1,4-Difluorobe
** 75 Chlorobenzene-
+ 190 1-Pentene
+ 27 Methyl Acetate
+ 191 Cyclopentane
+ 28 Acetonitrile
+ 33 Acrylonitrile
+ 192 1-Hexene
+ 39 Chlorprene
+ 193 Methyl Acrylat
+ 194 Ethyl Acrylate
+ 95 Dibromomethane
+ 195 trans-1,4-dich
+ 109 Hexachloroetha
+ 111 1,3,5-Trichlor
e031522.d
Ion 53.00
Ion 52.00
HP MS e031522.d, Scan 429: 14.352 min. (SUB)
Reference Spectrum for Acrylonitrile
Hit# RT(min) Response Amount Conc Ratio Flags Report:
1 14.352 15407 0.4907 0.4907 100
14.352 10429 68
- Mark Acrylonitrile Undetected.

Before

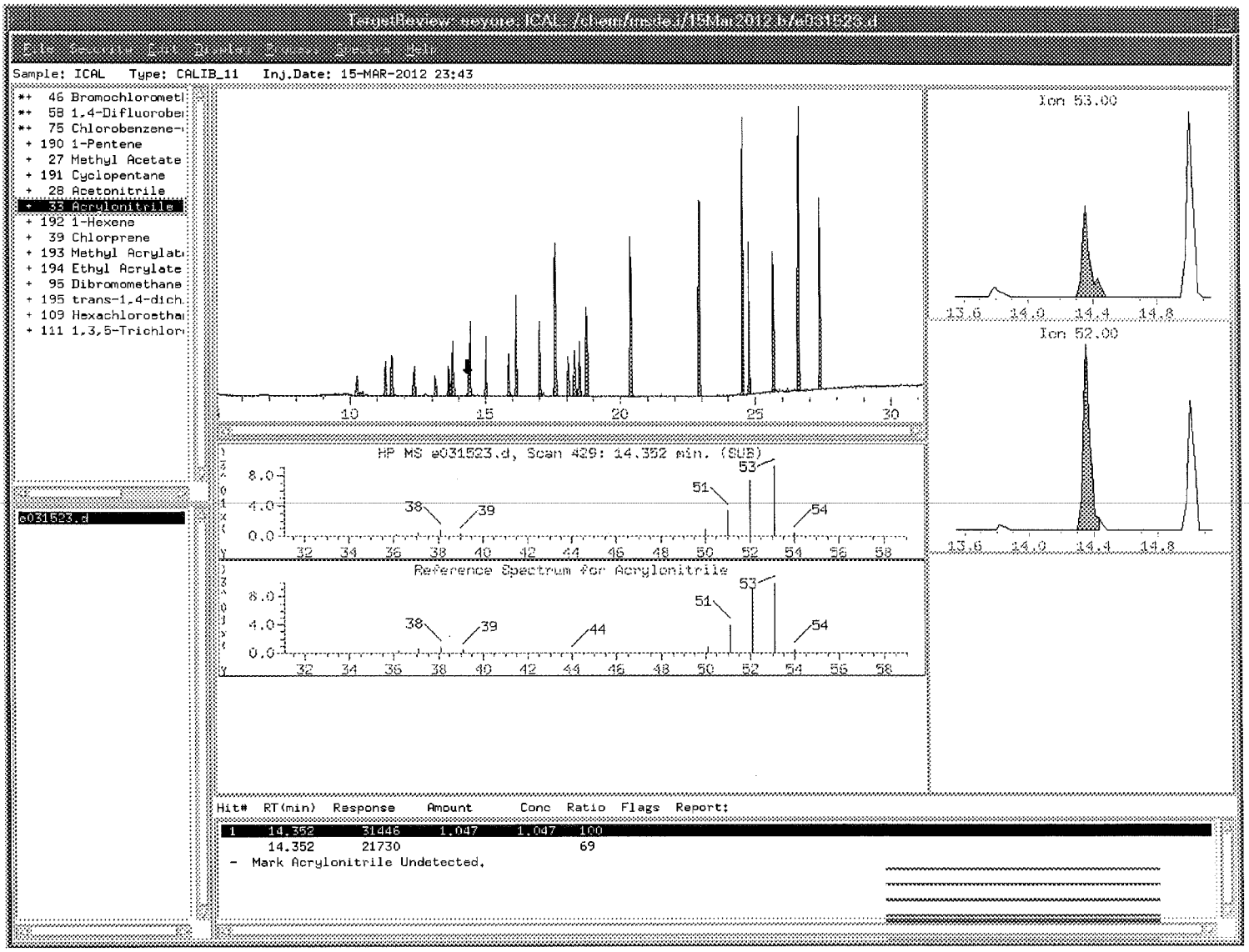



After

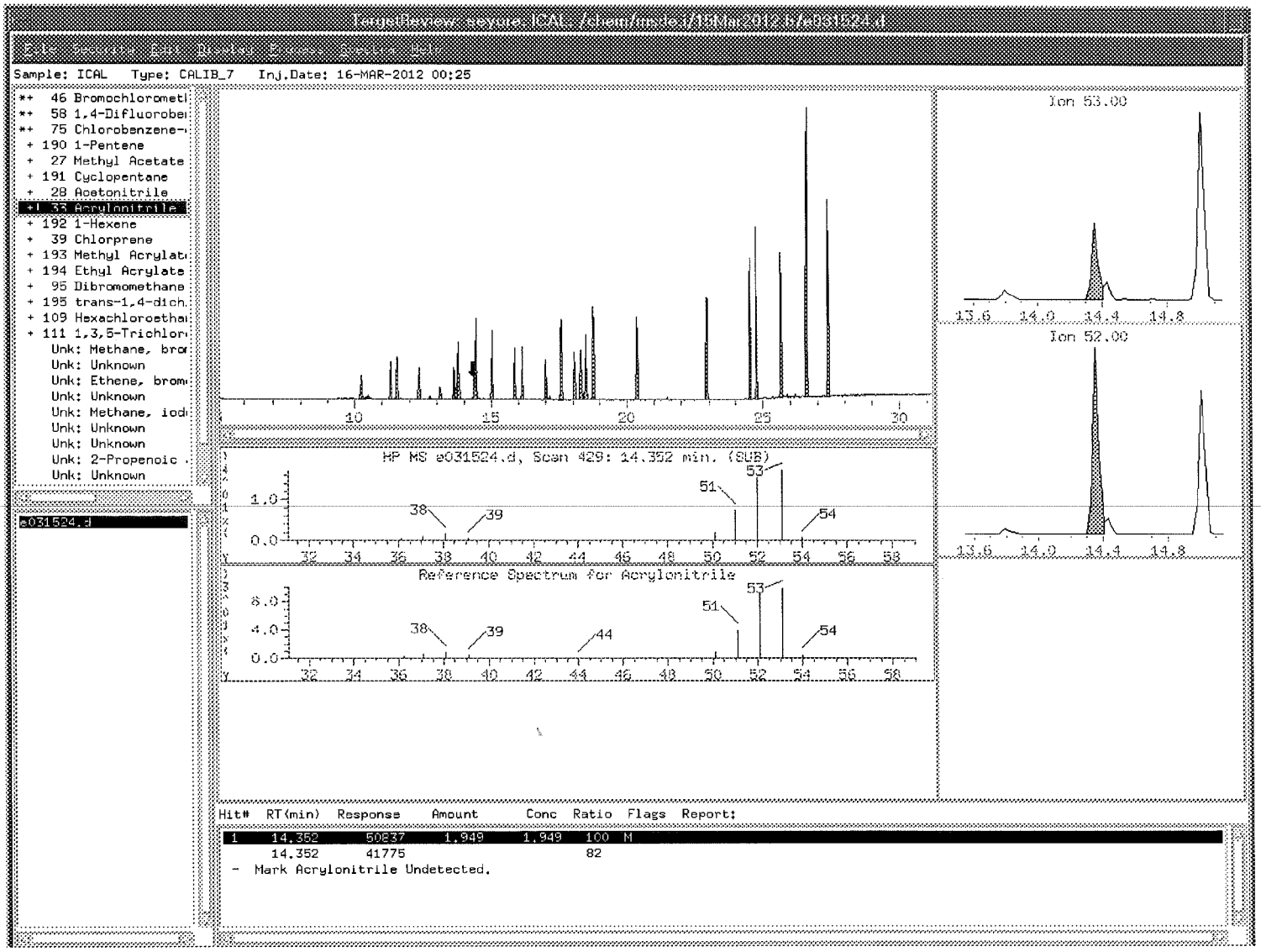
| | |
|---|---|
| Date / Initial | CR 03/16/12 |
| Poor Integration | ✓ |
| Split Peak | |
| Peak Tailing | |
| Background Subtraction | |
| Zoom In | |
| Missed Peak | |
| Merged Peaks | |

3>

3/19/12


Target Review: Report: ICAL: /chem/msdata/15Mar2012-1/e031523.d
Sample: ICAL Type: CALIB_11 Inj.Date: 15-MAR-2012 23:43
** 46 Bromochlorometl
** 58 1,4-Difluorobe
** 75 Chlorobenzene-
+ 190 1-Pentene
+ 27 Methyl Acetate
+ 191 Cyclopentane
+ 28 Acetonitrile
+ 33 Acrylonitrile
+ 192 1-Hexene
+ 39 Chlorprene
+ 193 Methyl Acrylat
+ 194 Ethyl Acrylate
+ 95 Dibromomethane
+ 195 trans-1,4-dich
+ 109 Hexachlorostha
+ 111 1,3,5-Trichlor
e031523.d
Ion 53.00
Ion 52.00
HP MS e031523.d, Scan 429: 14.352 min. (SUB)
Reference Spectrum for Acrylonitrile
Hit# RT(min) Response Amount Conc Ratio Flags Report:
1 14.352 31446 1.047 1.047 100
14.352 21730 69
- Mark Acrylonitrile Undetected.

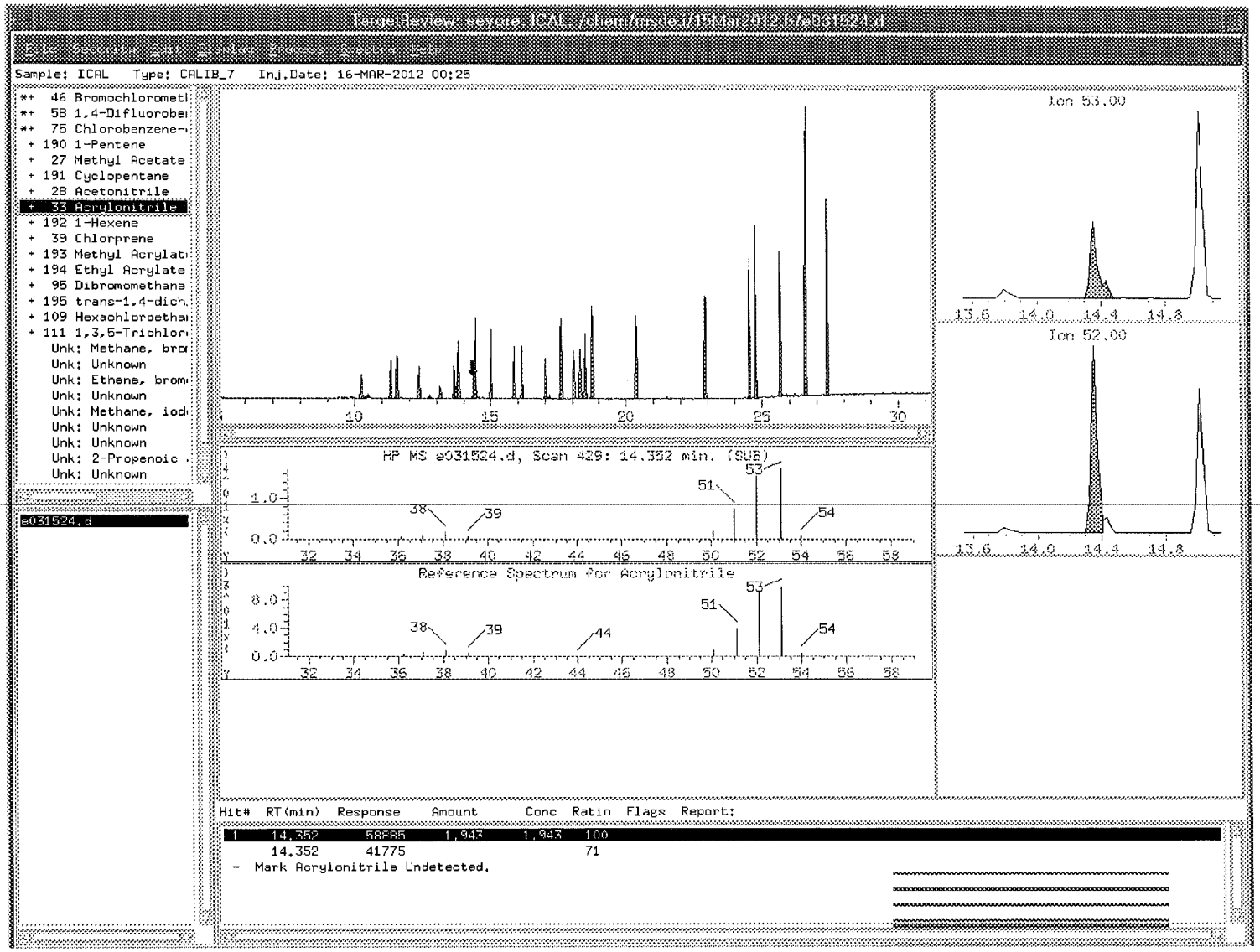
Before



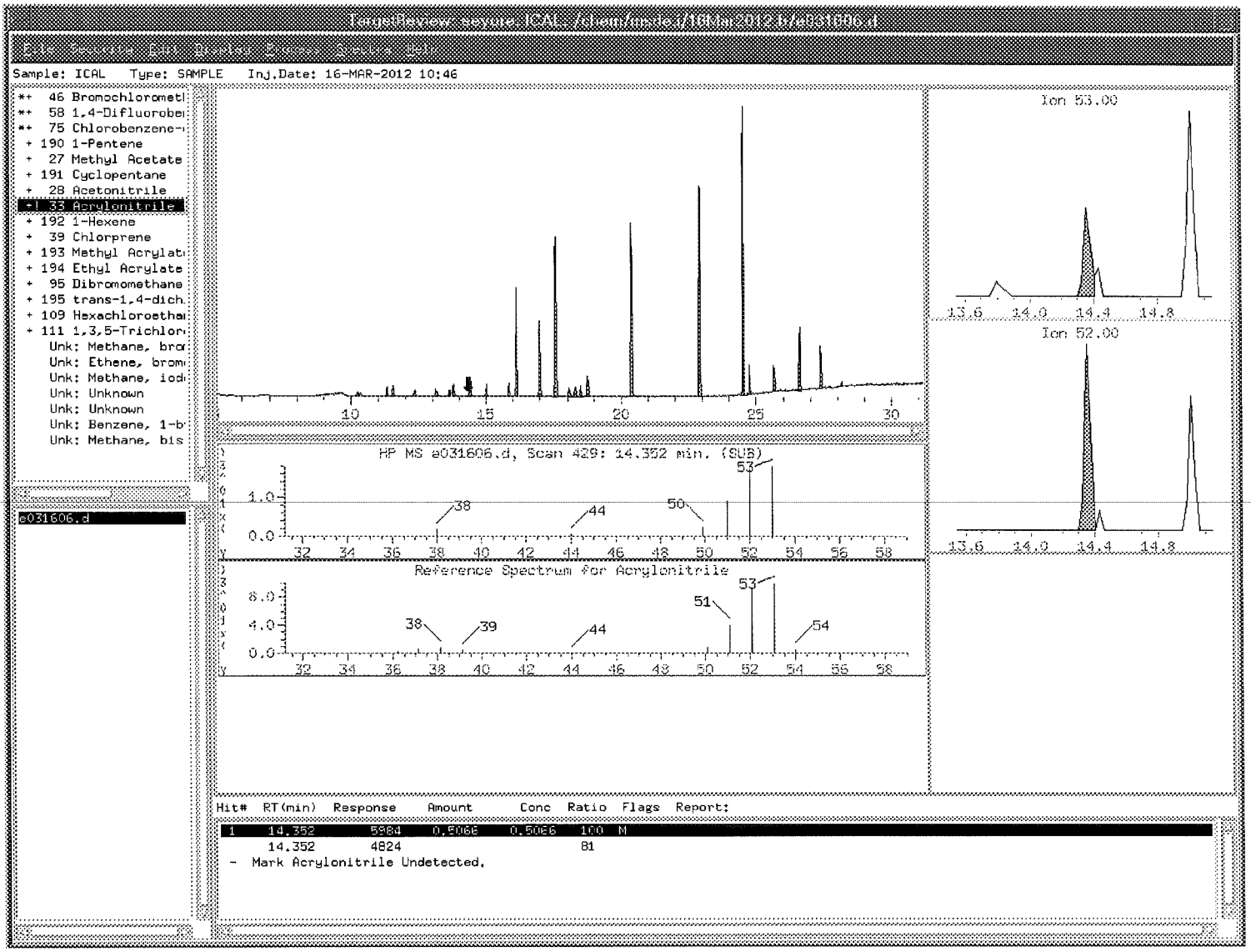

After

| Date / Initial | CR 03/16/12 |
|---|---|
| Poor Integration | |
| Split Peak | |
| Peak Tailing | |
| Background Subtraction | |
| Zoom In | |
| Missed Peak | |

83
3/19/12


Target/Review: seyure: ICAL: /chem/ms.e/151/q2012/e031524.d
Sample: ICAL Type: CALIB_7 Inj.Date: 16-MAR-2012 00:25
46 Bromochlorometh
58 1,4-Difluorobe
75 Chlorobenzene-
190 1-Pentene
27 Methyl Acetate
191 Cyclopentane
28 Acetonitrile
33 Acrylonitrile
192 1-Hexene
39 Chlorprene
193 Methyl Acrylat
194 Ethyl Acrylate
95 Dibromomethane
195 trans-1,4-dich
109 Hexachloroetha
111 1,3,5-Trichlor
Unk: Methane, bro
Unk: Unknown
Unk: Ethene, brom
Unk: Unknown
Unk: Methane, iod
Unk: Unknown
Unk: Unknown
Unk: 2-Propenoic
Unk: Unknown
e031524.d
HP MS e031524.d, Scan 429: 14.352 min. (SUB)
Reference Spectrum for Acrylonitrile
Ion 53.00
Ion 52.00
Hit# RT(min) Response Amount Conc Ratio Flags Report:
1 14.352 58585 1.943 1.943 100
14.352 41775 71
- Mark Acrylonitrile Undetected.

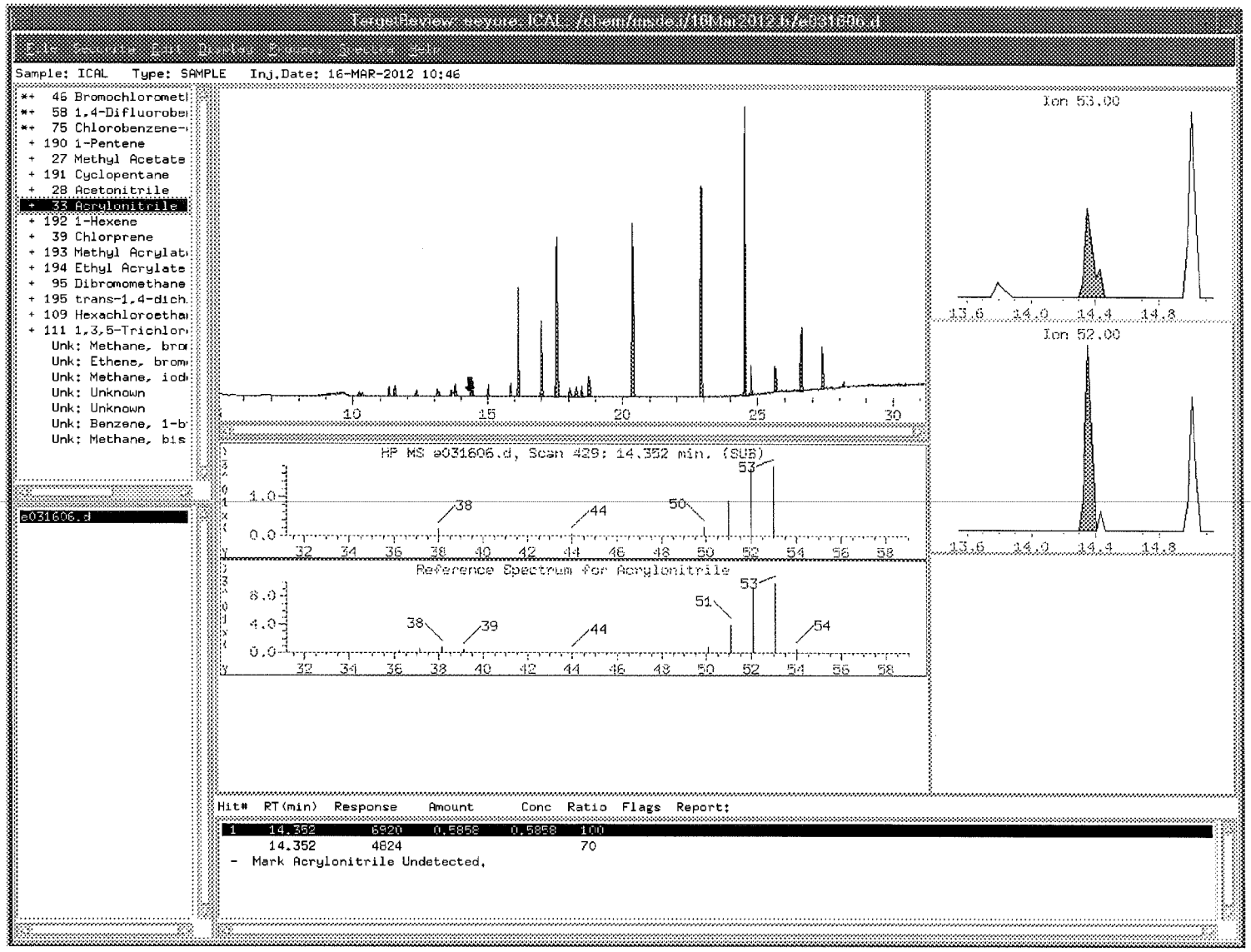
Before



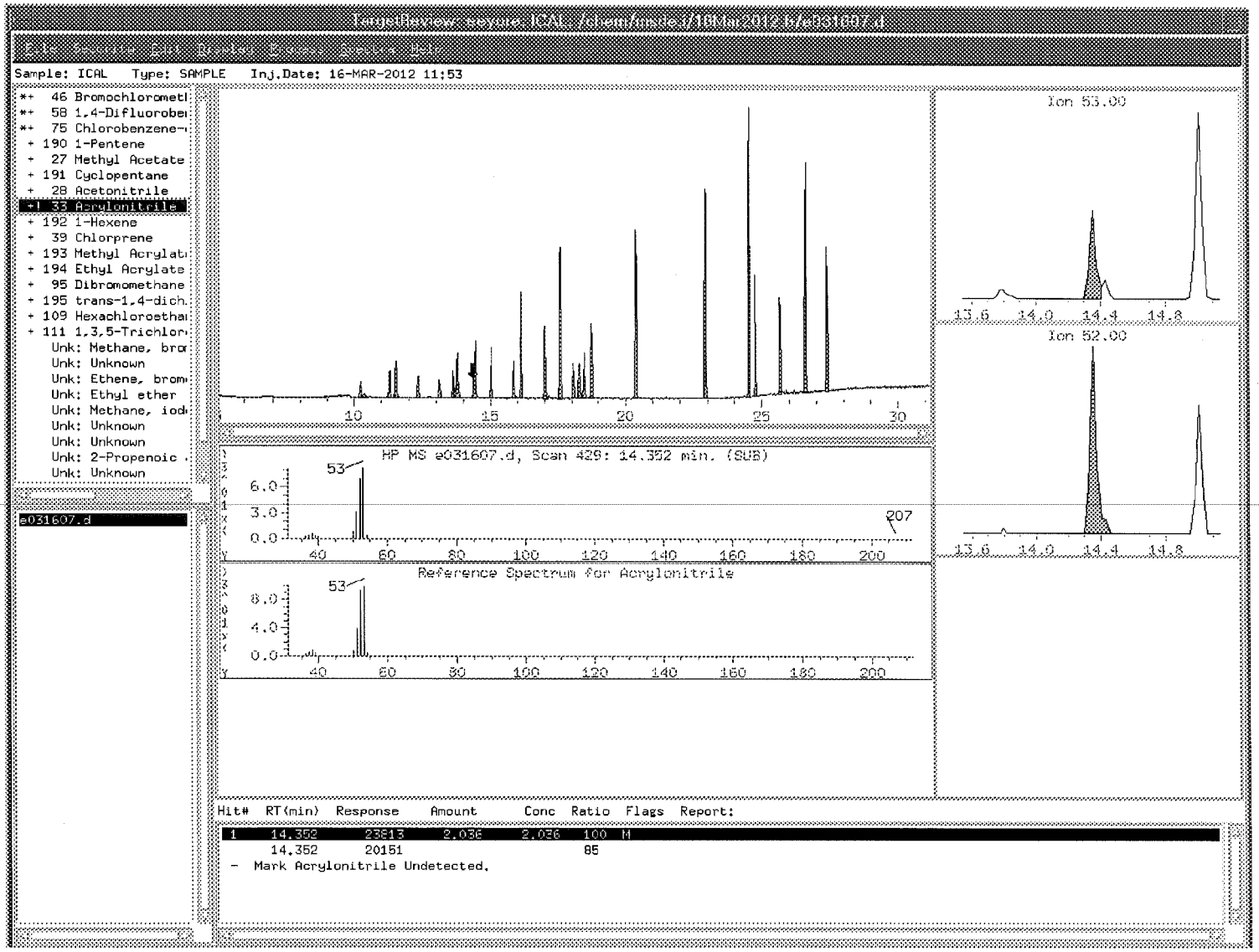

After

| Date / Initial | CR 03/16/12 |
|---|---|
| Poor Integration | ← |
| Split Peak | |
| Peak Tailing | |
| Background Subtraction | |
| Zoom In | |
| Missed Peak | |

SS
3/19/12

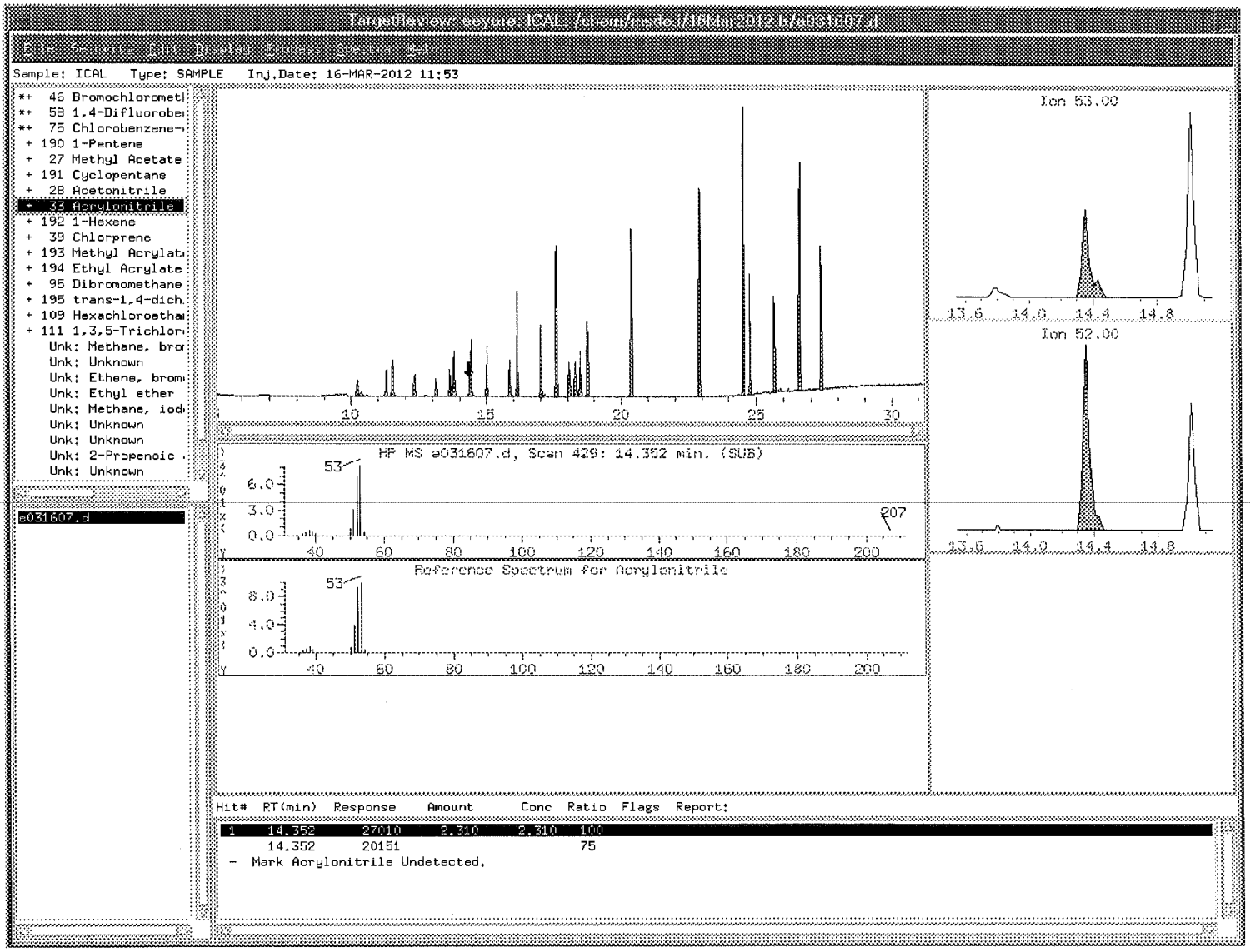

TargetReview: oeyute ICAL /chem/ms.e/10May2012.b/e031606.d
Sample: ICAL Type: SAMPLE Inj.Date: 16-MAR-2012 10:46
** 46 Bromochlorometl
** 58 1,4-Difluorobe
** 75 Chlorobenzene-
+ 190 1-Pentene
+ 27 Methyl Acetate
+ 191 Cyclopentane
+ 28 Acetonitrile
+ 33 Acrylonitrile
+ 192 1-Hexene
+ 39 Chlorprene
+ 193 Methyl Acrylat
+ 194 Ethyl Acrylate
+ 95 Dibromomethane
+ 195 trans-1,4-dich
+ 109 Hexachloroetha
+ 111 1,3,5-Trichlor
Unk: Methane, bro
Unk: Ethene, brom
Unk: Methane, iod
Unk: Unknown
Unk: Unknown
Unk: Benzene, 1-b
Unk: Methane, bis
e031606.d
Ion 53.00
Ion 52.00
HP MS e031606.d, Scan 429: 14.352 min. (SUB)
Reference Spectrum for Acrylonitrile
Hit# RT(min) Response Amount Conc Ratio Flags Report:
1 14.352 6920 0.5858 0.5858 100
14.352 4824 70
- Mark Acrylonitrile Undetected.

Before




After

| Date / Initial | CK 03/16/12 |
|---|---|
| Poor Integration | ✓ |
| Split Peak | |
| Peak Tailing | |
| Background Subtraction | |
| Zoom In | |
| Missed Peak | |


TargetReview: sequ.e: ICAL: /chem/ms.e.1/16Mar2012.P/e031607.d
Sample: ICAL Type: SAMPLE Inj.Date: 16-MAR-2012 11:53
** 46 Bromochlorometl
** 58 1,4-Difluorobe
** 75 Chlorobenzene-
+ 190 1-Pentene
+ 27 Methyl Acetate
+ 191 Cyclopentane
+ 28 Acetonitrile
+ 33 Acrylonitrile
+ 192 1-Hexene
+ 39 Chlorprene
+ 193 Methyl Acrylat
+ 194 Ethyl Acrylate
+ 95 Dibromomethane
+ 195 trans-1,4-dich
+ 109 Hexachloroetha
+ 111 1,3,5-Trichlor
Unk: Methane, bro
Unk: Unknown
Unk: Ethene, brom
Unk: Ethyl ether
Unk: Methane, iod
Unk: Unknown
Unk: Unknown
Unk: 2-Propenoic
Unk: Unknown
e031607.d
Ion 53.00
Ion 52.00
HP MS e031607.d, Scan 429: 14.352 min. (SUB)
Reference Spectrum for Acrylonitrile
Hit# RT(min) Response Amount Conc Ratio Flags Report:
1 14.352 27010 2.310 2.310 100
14.352 20151 75
- Mark Acrylonitrile Undetected.

Before

Air Toxics Ltd.

Modified EPA Methods TO-14A/TO-15 Low Level

Internal Standard and Associated Target Compounds and Surrogates

| Bromochloromethane |
|---|
| **Target Compounds:** |
| Freon 12 |
| Freon 114 |
| Chloromethane |
| Vinyl Chloride |
| 1,3-Butadiene |
| Bromomethane |
| Chloroethane |
| Freon 11 |
| Ethanol |
| Freon 113 |
| 1,1-Dichloroethene |
| Acetone |
| 2-Propanol |
| Carbon Disulfide |
| Methylene Chloride |
| Methyl tert-butyl ether |
| trans-1,2-Dichloroethene |
| Hexane |
| 1,1-Dichloroethane |
| 2-Butanone (Methyl Ethyl Ketone) |
| cis-1,2-Dichloroethene |
| Tetrahydrofuran |
| Chloroform |
| 1,1,1-Trichloroethane |
| Cyclohexane |
| Carbon Tetrachloride |
| **Surrogates:** |
| 1,2-Dichloroethane-d4 |

| 1,4-Difluorobenzene |
|---|
| **Target Compounds:** |
| Benzene |
| 1,2-Dichloroethane |
| Heptane |
| Trichloroethene |
| 1,2-Dichloropropane |
| 1,4-Dioxane |
| Bromodichloromethane |
| cis-1,3-Dichloropropene |
| 4-Methyl-2-pentanone |
| Toluene |
| **Surrogates:** |
| Toluene-d8 |

| Chlorobenzene-d5 |
|---|
| **Target Compounds:** |
| trans-1,3-Dichloropropene |
| 1,1,2-Trichloroethane |
| Tetrachloroethene |
| 2-Hexanone |
| Dibromochloromethane |
| 1,2-Dibromoethane (EDB) |
| Chlorobenzene |
| Ethyl Benzene |
| m,p-Xylene |
| o-Xylene |
| Styrene |
| Bromoform |
| Cumene |
| 1,1,2,2-Tetrachloroethane |
| Propylbenzene |
| 4-Ethyltoluene |
| 1,3,5-Trimethylbenzene |
| 1,2,4-Trimethylbenzene |
| 1,3-Dichlorobenzene |
| 1,4-Dichlorobenzene |
| alpha-Chlorotoluene |
| 1,2-Dichlorobenzene |
| 1,2,4-Trichlorobenzene |
| Hexachlorobutadiene |
| **Surrogates:** |
| Bromofluorobenzene |

Air Toxics Ltd.

EPA TO-15/Modified TO14A

Data file : /chem/msde.i/08Mar2012.b/e030824.d
Lab Smp Id: LCS Client Smp ID: LCS
Inj Date : 09-MAR-2012 13:34
Operator : cr Inst ID: msde.i
Smp Info : 50mL #2730-221
Misc Info : 10ppbv (50ppbv) -- ICV
Comment : Low-Level/GC-MS
Method : /chem/msde.i/08Mar2012.b/e12l0308a.m
Meth Date : 09-Mar-2012 15:12 croush Quant Type: ISTD
Cal Date : 09-MAR-2012 12:55 Cal File: e030823.d
Als bottle: 8 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AT09.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

| Name | Value | Description |
|---|---|---|
| DF | 1.00000 | Dilution Factor |

| | | | | | CONCENTRATIONS ON-COL ( PPBV) | FINAL ( PPBV) | TARGET RANGE | RATIO |
|---|---|---|---|---|---|---|---|---|
| * 46 Bromochloromethane | | | | | | CAS #: 74-97-5 | | |
| 16.158 | 16.128 (1.000) | 130 | 62047 | 5.00000 | | | 80.00- 120.00 | 100.00 |
| 16.158 | 16.128 (1.000) | 128 | 49939 | | | | 0.00- 30.00 | 80.49 |
| 16.127 | 16.128 (1.000) | 49 | 94048 | | | | 0.00- 30.00 | 151.58 |
| * 58 1,4-Difluorobenzene | | | | | | CAS #: 540-36-3 | | |
| 17.585 | 17.586 (1.000) | 114 | 238994 | 5.00000 | | | 80.00- 120.00 | 100.00 |
| 17.585 | 17.586 (1.000) | 88 | 43556 | | | | 0.00- 30.00 | 18.22 |
| * 75 Chlorobenzene-d5 | | | | | | CAS #: 3114-55-4 | | |
| 22.927 | 22.927 (1.000) | 117 | 205709 | 5.00000 | | | 80.00- 120.00 | 100.00 |
| 22.927 | 22.927 (1.000) | 82 | 143781 | | | | 0.00- 30.00 | 69.90 |
| $ 54 1,2-Dichloroethane-d4 | | | | | | CAS #: 17060-07-0 | | |
| 17.013 | 17.013 (1.053) | 65 | 119423 | 5.16489 | 5.165 | | 80.00- 120.00 | 100.00 |
| 17.013 | 17.013 (1.053) | 67 | 60701 | | | | 0.00- 30.00 | 50.83 |

| RT | EXP RT (REL RT) | MASS | RESPONSE | CONCENTRATIONS ON-COL ( PPBV) | CONCENTRATIONS FINAL ( PPBV) | TARGET RANGE | RATIO |
|---|---|---|---|---|---|---|---|
| $ 67 Toluene-d8 | | | | | CAS #: 2037-26-5 | | |
| 20.368 | 20.368 (1.158) | 98 | 247470 | 5.14075 | 5.141 | 80.00- 120.00 | 100.00 |
| 20.368 | 20.368 (1.158) | 70 | 29927 | | | 0.00- 30.00 | 12.09 |
| 20.368 | 20.368 (1.158) | 100 | 157027 | | | 33.91- 93.91 | 63.45 |
| $ 87 Bromofluorobenzene | | | | | CAS #: 460-00-4 | | |
| 24.525 | 24.526 (1.070) | 174 | 125840 | 5.34755 | 5.348 | 80.00- 120.00 | 100.00 |
| 24.525 | 24.526 (1.070) | 95 | 201802 | | | 125.57- 185.57 | 160.36 |
| 24.525 | 24.526 (1.070) | 176 | 120073 | | | 64.73- 124.73 | 95.42 |
| 2 Propylene | | | | | CAS #: 115-07-1 | | |
| 5.497 | 5.497 (0.340) | 41 | 78824 | 7.96976 | 7.970 | 80.00- 120.00 | 100.00 |
| 5.497 | 5.473 (0.340) | 42 | 50888 | | | 0.00- 30.00 | 64.56 |
| 5.497 | 5.497 (0.340) | 39 | 68466 | | | 0.00- 30.00 | 86.86 |
| 4 Dichlorodifluoromethane/Fr12 | | | | | CAS #: 75-71-8 | | |
| 5.955 | 5.955 (0.369) | 85 | 712739 | 9.82985 | 9.830 | 80.00- 120.00 | 100.00 |
| 5.955 | 5.955 (0.369) | 87 | 229346 | | | 2.22- 62.22 | 32.18 |
| 6 Freon 114 | | | | | CAS #: 76-14-2 | | |
| 7.353 | 7.329 (0.455) | 135 | 351369 | 9.31407 | 9.314 | 80.00- 120.00 | 100.00 |
| 7.353 | 7.329 (0.455) | 137 | 113309 | | | 0.00- 30.00 | 32.25 |
| 7 Chloromethane | | | | | CAS #: 74-87-3 | | |
| 7.715 | 7.691 (0.477) | 50 | 101956 | 9.51421 | 9.514 | 80.00- 120.00 | 100.00 |
| 7.715 | 7.715 (0.477) | 52 | 34666 | | | 0.00- 30.00 | 34.00 |
| 9 Butane | | | | | CAS #: 106-97-8 | | |
| 8.422 | 8.404 (0.521) | 58 | 36355 | 9.85771 | 9.858 | 80.00- 120.00 | 100.00 |
| 8.422 | 8.404 (0.521) | 43 | 190225 | | | 0.00- 30.00 | 523.24 |
| 10 Vinyl Chloride | | | | | CAS #: 75-01-4 | | |
| 8.560 | 8.543 (0.530) | 62 | 164500 | 9.72575 | 9.726 | 80.00- 120.00 | 100.00 |
| 8.543 | 8.543 (0.529) | 64 | 53178 | | | 2.55- 62.55 | 32.33 |
| 11 1,3-Butadiene | | | | | CAS #: 106-99-0 | | |
| 8.786 | 8.786 (0.544) | 54 | 101398 | 9.53824 | 9.538 | 80.00- 120.00 | 100.00 |
| 8.786 | 8.786 (0.544) | 39 | 96578 | | | 0.00- 30.00 | 95.25 |
| 12 Bromomethane | | | | | CAS #: 74-83-9 | | |
| 10.272 | 10.251 (0.636) | 94 | 186204 | 9.95678 | 9.957 | 80.00- 120.00 | 100.00 |
| 10.272 | 10.251 (0.636) | 96 | 180316 | | | 65.25- 125.25 | 96.84 |
| 13 Chloroethane | | | | | CAS #: 75-00-3 | | |
| 10.728 | 10.728 (0.664) | 64 | 85767 | 9.51657 | 9.516 | 80.00- 120.00 | 100.00 |
| 10.728 | 10.728 (0.664) | 49 | 19666 | | | 0.00- 30.00 | 22.93 |

| RT | EXP RT (REL RT) | MASS | RESPONSE | CONCENTRATIONS ON-COL ( PPBV) | FINAL ( PPBV) | TARGET RANGE | RATIO |
|---|---|---|---|---|---|---|---|
| 13 Chloroethane (continued) | | | | | | | |
| 10.728 | 10.728 (0.664) | 66 | 29573 | | | 0.00- 30.00 | 34.48 |
| 14 Isopentane | | | | | CAS #: 78-78-4 | | |
| 10.852 | 10.852 (0.672) | 57 | 107619 | 9.45428 | 9.454 | 80.00- 120.00 | 100.00 |
| 10.852 | 10.852 (0.672) | 43 | 122035 | | | 0.00- 30.00 | 113.40 |
| 10.852 | 10.852 (0.672) | 42 | 103157 | | | 0.00- 30.00 | 95.85 |
| 16 Trichlorofluoromethane/Fr11 | | | | | CAS #: 75-69-4 | | |
| 11.474 | 11.474 (0.710) | 101 | 742927 | 9.71582 | 9.716 | 80.00- 120.00 | 100.00 |
| 11.474 | 11.474 (0.710) | 103 | 487983 | | | 36.02- 96.02 | 65.68 |
| 18 Ethanol | | | | | CAS #: 64-17-5 | | |
| 12.344 | 12.324 (0.764) | 45 | 43880 | 10.9917 | 10.992 | 80.00- 120.00 | 100.00 |
| 12.344 | 12.324 (0.764) | 46 | 17421 | | | 0.00- 30.00 | 39.70 |
| 12.344 | 12.324 (0.764) | 43 | 12824 | | | 0.00- 30.00 | 29.23 |
| 21 1,1-Dichloroethene | | | | | CAS #: 75-35-4 | | |
| 12.821 | 12.821 (0.793) | 98 | 119672 | 10.8833 | 10.883 | 80.00- 120.00 | 100.00 |
| 12.821 | 12.821 (0.793) | 61 | 310626 | | | 0.00- 30.00 | 259.56 |
| 12.821 | 12.821 (0.793) | 96 | 187051 | | | 0.00- 30.00 | 156.30 |
| 19 Freon 113 | | | | | CAS #: 76-13-1 | | |
| 12.800 | 12.801 (0.792) | 151 | 325026 | 10.0519 | 10.052 | 80.00- 120.00 | 100.00 |
| 12.800 | 12.801 (0.792) | 153 | 206585 | | | 34.27- 94.27 | 63.56 |
| 12.800 | 12.801 (0.792) | 101 | 454493 | | | 0.00- 30.00 | 139.83 |
| 22 Acetone | | | | | CAS #: 67-64-1 | | |
| 13.091 | 13.070 (0.810) | 58 | 71479 | 10.1934 | 10.193 | 80.00- 120.00 | 100.00 |
| 13.091 | 13.070 (0.810) | 43 | 229741 | | | 0.00- 30.00 | 321.41 |
| 23 Carbon Disulfide | | | | | CAS #: 75-15-0 | | |
| 13.194 | 13.194 (0.817) | 76 | 569749 | 12.3484 | 12.348 | 80.00- 120.00 | 100.00 |
| 26 3-Chloroprene | | | | | CAS #: 107-05-1 | | |
| 13.609 | 13.588 (0.842) | 76 | 81978 | 12.0460 | 12.046 | 80.00- 120.00 | 100.00 |
| 13.609 | 13.588 (0.842) | 41 | 135031 | | | 0.00- 30.00 | 164.72 |
| 25 2-Propanol | | | | | CAS #: 67-63-0 | | |
| 13.402 | 13.360 (0.829) | 45 | 204609 | 10.7929 | 10.793 | 80.00- 120.00 | 100.00 |
| 13.381 | 13.360 (0.828) | 43 | 60077 | | | 0.00- 30.00 | 29.36 |
| 13.402 | 13.360 (0.829) | 59 | 10499 | | | 0.00- 30.00 | 5.13 |
| 29 Methylene Chloride | | | | | CAS #: 75-09-2 | | |
| 13.885 | 13.885 (0.859) | 84 | 99312 | 11.4734 | 11.473 | 80.00- 120.00 | 100.00 |
| 13.885 | 13.885 (0.859) | 49 | 82365 | | | 0.00- 30.00 | 82.94 |

| RT | EXP RT (REL RT) | MASS | RESPONSE | CONCENTRATIONS ON-COL ( PPBV) | FINAL ( PPBV) | TARGET RANGE | RATIO |
|---|---|---|---|---|---|---|---|
| 29 Methylene Chloride (continued) | | | | | | | |
| 13.885 | 13.885 (0.859) | 51 | 25613 | | | 0.00- 30.00 | 25.79 |
| 30 tert-butyl alcohol | | | | | CAS #: 75-65-0 | | |
| 14.242 | 14.023 (0.881) | 59 | 12557 | 0.69862 | 0.6986 | 80.00- 120.00 | 100.00 |
| 14.187 | 14.023 (0.878) | 41 | 94858 | | | 0.00- 30.00 | 755.39 |
| 14.187 | 14.023 (0.878) | 57 | 100002 | | | 0.00- 30.00 | 796.35 |
| 31 MTBE | | | | | CAS #: 1634-04-4 | | |
| 14.187 | 14.187 (0.878) | 73 | 610240 | 10.9444 | 10.944 | 80.00- 120.00 | 100.00 |
| 14.187 | 14.187 (0.878) | 57 | 100002 | | | 0.00- 30.00 | 16.39 |
| 14.187 | 14.187 (0.878) | 41 | 94858 | | | 0.00- 30.00 | 15.54 |
| 32 trans-1,2-Dichloroethene | | | | | CAS #: 156-60-5 | | |
| 14.242 | 14.242 (0.881) | 98 | 131345 | 11.1506 | 11.150 | 80.00- 120.00 | 100.00 |
| 14.242 | 14.242 (0.881) | 61 | 276661 | | | 0.00- 30.00 | 210.64 |
| 14.242 | 14.242 (0.881) | 96 | 207377 | | | 0.00- 30.00 | 157.89 |
| 35 Hexane | | | | | CAS #: 110-54-3 | | |
| 14.544 | 14.544 (0.900) | 57 | 214570 | 10.6131 | 10.613 | 80.00- 120.00 | 100.00 |
| 14.544 | 14.544 (0.900) | 43 | 112744 | | | 0.00- 30.00 | 52.54 |
| 14.544 | 14.544 (0.900) | 86 | 53830 | | | 0.00- 30.00 | 25.09 |
| 37 1,1-Dichloroethane | | | | | CAS #: 75-34-3 | | |
| 14.956 | 14.956 (0.926) | 63 | 340536 | 10.2283 | 10.228 | 80.00- 120.00 | 100.00 |
| 14.956 | 14.956 (0.926) | 65 | 110150 | | | 0.00- 30.00 | 32.35 |
| 38 Vinyl Acetate | | | | | CAS #: 108-05-4 | | |
| 14.956 | 14.956 (0.926) | 86 | 50728 | 10.3134 | 10.313 | 80.00- 120.00 | 100.00 |
| 14.956 | 14.956 (0.926) | 42 | 34573 | | | 0.00- 30.00 | 68.15 |
| 14.956 | 14.956 (0.926) | 43 | 322457 | | | 0.00- 30.00 | 635.65 |
| 41 cis-1,2-Dichloroethene | | | | | CAS #: 156-59-2 | | |
| 15.787 | 15.787 (0.977) | 98 | 190406 | 10.7512 | 10.751 | 80.00- 120.00 | 100.00 |
| 15.787 | 15.787 (0.977) | 61 | 362394 | | | 0.00- 30.00 | 190.33 |
| 15.787 | 15.787 (0.977) | 96 | 293065 | | | 124.52- 184.52 | 153.92 |
| 42 2-Butanone | | | | | CAS #: 78-93-3 | | |
| 15.787 | 15.766 (0.977) | 72 | 138964 | 10.9311 | 10.931 | 80.00- 120.00 | 100.00 |
| 15.787 | 15.766 (0.977) | 43 | 357869 | | | 0.00- 30.00 | 257.53 |
| 15.787 | 15.766 (0.977) | 57 | 34420 | | | 0.00- 30.00 | 24.77 |
| 44 Tetrahydrofuran | | | | | CAS #: 109-99-9 | | |
| 16.127 | 16.128 (0.998) | 42 | 124818 | 9.84874 | 9.849 | 80.00- 120.00 | 100.00 |
| 16.127 | 16.128 (0.998) | 71 | 84541 | | | 0.00- 30.00 | 67.73 |
| 16.127 | 16.128 (0.998) | 72 | 93599 | | | 0.00- 30.00 | 74.99 |

| RT | EXP RT (REL RT) | MASS | RESPONSE | CONCENTRATIONS ON-COL ( PPBV) | FINAL ( PPBV) | TARGET RANGE | RATIO |
|---|---|---|---|---|---|---|---|
| 47 Chloroform | | | | | CAS #: 67-66-3 | | |
| 16.189 | 16.189 (1.002) | 83 | 526590 | 10.3325 | 10.332 | 80.00- 120.00 | 100.00 |
| 16.189 | 16.189 (1.002) | 85 | 331042 | | | 0.00- 30.00 | 62.87 |
| 48 Cyclohexane | | | | | CAS #: 110-82-7 | | |
| 16.466 | 16.467 (1.019) | 84 | 287589 | 10.5682 | 10.568 | 80.00- 120.00 | 100.00 |
| 16.466 | 16.467 (1.019) | 56 | 233077 | | | 0.00- 30.00 | 81.05 |
| 16.466 | 16.467 (1.019) | 41 | 121047 | | | 0.00- 30.00 | 42.09 |
| 49 1,1,1-Trichloroethane | | | | | CAS #: 71-55-6 | | |
| 16.466 | 16.467 (1.019) | 97 | 599195 | 10.2887 | 10.289 | 80.00- 120.00 | 100.00 |
| 16.466 | 16.467 (1.019) | 99 | 386998 | | | 0.00- 30.00 | 64.59 |
| 51 Carbon Tetrachloride | | | | | CAS #: 56-23-5 | | |
| 16.651 | 16.652 (1.031) | 119 | 374704 | 8.59893 | 8.599 | 80.00- 120.00 | 100.00 |
| 16.651 | 16.652 (1.031) | 117 | 385671 | | | 0.00- 30.00 | 102.93 |
| 52 2,2,4-Trimethylpentane | | | | | CAS #: 540-84-1 | | |
| 16.925 | 16.926 (1.047) | 56 | 302289 | 9.69711 | 9.697 | 80.00- 120.00 | 100.00 |
| 16.925 | 16.926 (1.047) | 57 | 950789 | | | 0.00- 30.00 | 314.53 |
| 16.925 | 16.926 (1.047) | 41 | 271980 | | | 0.00- 30.00 | 89.97 |
| 53 Benzene | | | | | CAS #: 71-43-2 | | |
| 17.013 | 17.013 (0.967) | 78 | 614855 | 10.0292 | 10.029 | 80.00- 120.00 | 100.00 |
| 17.013 | 17.013 (0.967) | 77 | 143975 | | | 0.00- 30.00 | 23.42 |
| 56 1,2-Dichloroethane | | | | | CAS #: 107-06-2 | | |
| 17.129 | 17.130 (0.974) | 62 | 345970 | 10.0078 | 10.008 | 80.00- 120.00 | 100.00 |
| 17.129 | 17.130 (0.974) | 64 | 115616 | | | 0.00- 30.00 | 33.42 |
| 57 Heptane | | | | | CAS #: 142-82-5 | | |
| 17.159 | 17.159 (0.976) | 57 | 140468 | 11.0853 | 11.085 | 80.00- 120.00 | 100.00 |
| 17.159 | 17.159 (0.976) | 100 | 85259 | | | 0.00- 30.00 | 60.70 |
| 17.159 | 17.159 (0.976) | 43 | 210610 | | | 0.00- 30.00 | 149.93 |
| 59 Trichloroethene | | | | | CAS #: 79-01-6 | | |
| 18.025 | 18.025 (1.025) | 130 | 247213 | 9.13028 | 9.130 | 80.00- 120.00 | 100.00 |
| 18.025 | 18.025 (1.025) | 95 | 284519 | | | 0.00- 30.00 | 115.09 |
| 18.025 | 18.025 (1.025) | 97 | 188149 | | | 0.00- 30.00 | 76.11 |
| 60 Methylcyclohexane | | | | | CAS #: 108-87-2 | | |
| 18.272 | 18.272 (1.039) | 83 | 370241 | 10.5853 | 10.585 | 80.00- 120.00 | 100.00 |
| 18.272 | 18.272 (1.039) | 55 | 230214 | | | 0.00- 30.00 | 62.18 |
| 18.272 | 18.272 (1.039) | 56 | 66941 | | | 0.00- 30.00 | 18.08 |
| 61 1,2-Dichloropropane | | | | | CAS #: 78-87-5 | | |
| 18.519 | 18.519 (1.053) | 63 | 187451 | 9.94491 | 9.945 | 80.00- 120.00 | 100.00 |

| RT | EXP RT (REL RT) | MASS | RESPONSE | CONCENTRATIONS ON-COL ( PPBV) | FINAL ( PPBV) | TARGET RANGE | RATIO |
|---|---|---|---|---|---|---|---|
| 61 1,2-Dichloropropane (continued) | | | | | | | |
| 18.519 | 18.519 (1.053) | 62 | 129010 | | | 0.00- 30.00 | 68.82 |
| 18.519 | 18.519 (1.053) | 41 | 115880 | | | 29.06- 89.06 | 61.82 |
| 62 1,4-Dioxane | | | | | CAS #: 123-91-1 | | |
| 18.629 | 18.629 (1.059) | 88 | 144839 | 10.7750 | 10.775 | 80.00- 120.00 | 100.00 |
| 18.629 | 18.629 (1.059) | 58 | 80981 | | | 0.00- 30.00 | 55.91 |
| 18.629 | 18.629 (1.059) | 57 | 27990 | | | 0.00- 30.00 | 19.33 |
| 63 Bromodichloromethane | | | | | CAS #: 75-27-4 | | |
| 18.958 | 18.959 (1.078) | 83 | 552182 | 10.4870 | 10.487 | 80.00- 120.00 | 100.00 |
| 18.958 | 18.959 (1.078) | 85 | 347288 | | | 0.00- 30.00 | 62.89 |
| 64 cis-1,3-Dichloropropene | | | | | CAS #: 10061-01-5 | | |
| 19.865 | 19.865 (1.130) | 75 | 308012 | 9.44271 | 9.443 | 80.00- 120.00 | 100.00 |
| 19.865 | 19.865 (1.130) | 77 | 95023 | | | 0.00- 30.00 | 30.85 |
| 19.865 | 19.865 (1.130) | 39 | 126161 | | | 10.38- 70.38 | 40.96 |
| 65 4-Methyl-2-pentanone | | | | | CAS #: 108-10-1 | | |
| 20.076 | 20.077 (1.142) | 43 | 278195 | 11.4190 | 11.419 | 80.00- 120.00 | 100.00 |
| 20.076 | 20.077 (1.142) | 58 | 134536 | | | 0.00- 30.00 | 48.36 |
| 20.076 | 20.077 (1.142) | 85 | 82947 | | | 0.00- 30.00 | 29.82 |
| 68 Toluene | | | | | CAS #: 108-88-3 | | |
| 20.525 | 20.525 (1.167) | 91 | 723476 | 9.88940 | 9.889 | 80.00- 120.00 | 100.00 |
| 20.525 | 20.525 (1.167) | 92 | 427378 | | | 0.00- 30.00 | 59.07 |
| 69 trans-1,3-Dichloropropene | | | | | CAS #: 10061-02-6 | | |
| 20.995 | 20.995 (0.916) | 75 | 510194 | 11.5655 | 11.565 | 80.00- 120.00 | 100.00 |
| 20.995 | 20.995 (0.916) | 77 | 161538 | | | 0.00- 30.00 | 31.66 |
| 20.995 | 20.995 (0.916) | 39 | 178077 | | | 4.84- 64.84 | 34.90 |
| 70 1,1,2-Trichloroethane | | | | | CAS #: 79-00-5 | | |
| 21.367 | 21.335 (0.932) | 97 | 268172 | 10.0903 | 10.090 | 80.00- 120.00 | 100.00 |
| 21.367 | 21.335 (0.932) | 99 | 164908 | | | 0.00- 30.00 | 61.49 |
| 21.367 | 21.335 (0.932) | 83 | 218815 | | | 52.76- 112.76 | 81.59 |
| 71 Tetrachloroethene | | | | | CAS #: 127-18-4 | | |
| 21.497 | 21.498 (0.938) | 166 | 297865 | 9.65526 | 9.655 | 80.00- 120.00 | 100.00 |
| 21.497 | 21.498 (0.938) | 129 | 263246 | | | 0.00- 30.00 | 88.38 |
| 21.497 | 21.498 (0.938) | 131 | 251183 | | | 0.00- 30.00 | 84.33 |
| 72 2-Hexanone | | | | | CAS #: 591-78-6 | | |
| 21.660 | 21.660 (0.945) | 58 | 186341 | 11.0783 | 11.078 | 80.00- 120.00 | 100.00 |
| 21.660 | 21.660 (0.945) | 43 | 288939 | | | 0.00- 30.00 | 155.06 |
| 21.660 | 21.660 (0.945) | 100 | 53016 | | | 0.00- 30.00 | 28.45 |

| RT | EXP RT (REL RT) | MASS | RESPONSE | CONCENTRATIONS ON-COL ( PPBV) | FINAL ( PPBV) | TARGET RANGE | RATIO |
|---|---|---|---|---|---|---|---|
| 73 Dibromochloromethane | | | | | CAS #: 124-48-1 | | |
| 22.018 | 22.018 (0.960) | 129 | 482834 | 10.6775 | 10.677 | 80.00- 120.00 | 100.00 |
| 22.018 | 22.018 (0.960) | 127 | 375027 | | | 0.00- 30.00 | 77.67 |
| 74 1,2-Dibromoethane | | | | | CAS #: 106-93-4 | | |
| 22.278 | 22.278 (0.972) | 107 | 425274 | 10.4322 | 10.432 | 80.00- 120.00 | 100.00 |
| 22.278 | 22.278 (0.972) | 109 | 379243 | | | 0.00- 30.00 | 89.18 |
| 76 Chlorobenzene | | | | | CAS #: 108-90-7 | | |
| 22.975 | 22.951 (1.002) | 112 | 576095 | 9.82653 | 9.826 | 80.00- 120.00 | 100.00 |
| 22.975 | 22.951 (1.002) | 114 | 186676 | | | 0.00- 30.00 | 32.40 |
| 22.951 | 22.951 (1.001) | 77 | 385381 | | | 36.24- 96.24 | 66.90 |
| 77 Ethyl Benzene | | | | | CAS #: 100-41-4 | | |
| 23.023 | 23.023 (1.004) | 106 | 303706 | 10.6032 | 10.603 | 80.00- 120.00 | 100.00 |
| 23.023 | 23.023 (1.004) | 91 | 1075922 | | | 0.00- 30.00 | 354.26 |
| 80 m,p-Xylene | | | | | CAS #: 108-38-3 | | |
| 23.192 | 23.192 (1.012) | 106 | 385716 | 11.1920 | 11.192 | 80.00- 120.00 | 100.00 |
| 23.192 | 23.192 (1.012) | 91 | 881294 | | | 0.00- 30.00 | 228.48 |
| 81 o-Xylene | | | | | CAS #: 95-47-6 | | |
| 23.770 | 23.770 (1.037) | 106 | 375363 | 11.3292 | 11.329 | 80.00- 120.00 | 100.00 |
| 23.770 | 23.770 (1.037) | 91 | 897629 | | | 0.00- 30.00 | 239.14 |
| 83 Styrene | | | | | CAS #: 100-42-5 | | |
| 23.818 | 23.818 (1.039) | 104 | 579361 | 11.5842 | 11.584 | 80.00- 120.00 | 100.00 |
| 23.818 | 23.794 (1.039) | 78 | 356275 | | | 0.00- 30.00 | 61.49 |
| 84 Bromoform | | | | | CAS #: 75-25-2 | | |
| 24.131 | 24.132 (1.053) | 173 | 425252 | 10.8776 | 10.878 | 80.00- 120.00 | 100.00 |
| 24.131 | 24.132 (1.053) | 171 | 218552 | | | 0.00- 30.00 | 51.39 |
| 85 Cumene | | | | | CAS #: 98-82-8 | | |
| 24.228 | 24.228 (1.057) | 105 | 1232382 | 11.4878 | 11.488 | 80.00- 120.00 | 100.00 |
| 24.228 | 24.228 (1.057) | 120 | 290503 | | | 0.00- 30.00 | 23.57 |
| 89 1,1,2,2-Tetrachloroethane | | | | | CAS #: 79-34-5 | | |
| 24.680 | 24.680 (1.076) | 83 | 584640 | 10.5448 | 10.545 | 80.00- 120.00 | 100.00 |
| 24.680 | 24.680 (1.076) | 85 | 368004 | | | 0.00- 30.00 | 62.95 |
| 90 Propylbenzene | | | | | CAS #: 103-65-1 | | |
| 24.758 | 24.758 (1.080) | 91 | 1522737 | 11.0816 | 11.082 | 80.00- 120.00 | 100.00 |
| 24.758 | 24.758 (1.080) | 120 | 308685 | | | 0.00- 30.00 | 20.27 |
| 92 4-Ethyltoluene | | | | | CAS #: 622-96-8 | | |
| 24.886 | 24.887 (1.085) | 105 | 1255328 | 10.6391 | 10.639 | 80.00- 120.00 | 100.00 |

| RT | EXP RT (REL RT) | MASS | RESPONSE | CONCENTRATIONS ON-COL ( PPBV) | FINAL ( PPBV) | TARGET RANGE | RATIO |
|---|---|---|---|---|---|---|---|
| 92 4-Ethyltoluene (continued) | | | | | | | |
| 24.886 | 24.887 (1.085) | 120 | 331808 | | | 0.00- 30.00 | 26.43 |
| 94 1,3,5-Trimethylbenzene | | | | | CAS #: 108-67-8 | | |
| 24.964 | 24.964 (1.089) | 105 | 1119740 | 11.0253 | 11.025 | 80.00- 120.00 | 100.00 |
| 24.964 | 24.964 (1.089) | 120 | 469386 | | | 0.00- 30.00 | 41.92 |
| 98 1,2,4-Trimethylbenzene | | | | | CAS #: 95-63-6 | | |
| 25.410 | 25.410 (1.108) | 105 | 1020770 | 11.4171 | 11.417 | 80.00- 120.00 | 100.00 |
| 25.410 | 25.410 (1.108) | 120 | 404305 | | | 0.00- 30.00 | 39.61 |
| 101 1,3-Dichlorobenzene | | | | | CAS #: 541-73-1 | | |
| 25.791 | 25.791 (1.125) | 146 | 593549 | 10.4729 | 10.473 | 80.00- 120.00 | 100.00 |
| 25.791 | 25.791 (1.125) | 148 | 375431 | | | 0.00- 30.00 | 63.25 |
| 25.791 | 25.791 (1.125) | 111 | 285906 | | | 0.00- 30.00 | 48.17 |
| 104 1,4-Dichlorobenzene | | | | | CAS #: 106-46-7 | | |
| 25.903 | 25.903 (1.130) | 146 | 582023 | 10.2636 | 10.264 | 80.00- 120.00 | 100.00 |
| 25.903 | 25.903 (1.130) | 148 | 375085 | | | 0.00- 30.00 | 64.45 |
| 25.903 | 25.903 (1.130) | 111 | 269068 | | | 0.00- 30.00 | 46.23 |
| 105 alpha-chlorotoluene | | | | | CAS #: 100-44-7 | | |
| 26.060 | 26.060 (1.137) | 91 | 949185 | 10.9891 | 10.989 | 80.00- 120.00 | 100.00 |
| 26.060 | 26.060 (1.137) | 126 | 158969 | | | 0.00- 30.00 | 16.75 |
| 108 1,2-Dichlorobenzene | | | | | CAS #: 95-50-1 | | |
| 26.352 | 26.352 (1.149) | 146 | 547826 | 10.1887 | 10.189 | 80.00- 120.00 | 100.00 |
| 26.352 | 26.352 (1.149) | 148 | 347786 | | | 34.07- 94.07 | 63.48 |
| 26.352 | 26.352 (1.149) | 111 | 278338 | | | 19.87- 79.87 | 50.81 |
| 112 1,2,4-Trichlorobenzene | | | | | CAS #: 120-82-1 | | |
| 28.145 | 28.145 (1.228) | 180 | 352999 | 10.0439 | 10.044 | 80.00- 120.00 | 100.00 |
| 28.145 | 28.145 (1.228) | 182 | 330362 | | | 0.00- 30.00 | 93.59 |
| 113 Hexachlorobutadiene | | | | | CAS #: 87-68-3 | | |
| 28.235 | 28.235 (1.232) | 225 | 295702 | 9.41698 | 9.417 | 80.00- 120.00 | 100.00 |
| 28.235 | 28.235 (1.232) | 223 | 186546 | | | 0.00- 30.00 | 63.09 |
| 114 Naphthalene | | | | | CAS #: 91-20-3 | | |
| 28.504 | 28.504 (1.243) | 128 | 52507 | 0.70165 | 0.7016 | 80.00- 120.00 | 100.00 |
| 28.504 | 28.504 (1.243) | 127 | 7519 | | | 0.00- 30.00 | 14.32 |

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msde.i
Lab File ID: e030824.d
Lab Smp Id: LCS
Analysis Type: VOA
Quant Type: ISTD
Operator: cr
Method File: /chem/msde.i/08Mar2012.b/e12l0308a.m
Misc Info: 10ppbv (50ppbv) -- ICV

Calibration Date: 08-MAR-2012
Calibration Time: 22:56
Client Smp ID: LCS
Level: LOW
Sample Type: AIR

| | | AREA LIMIT | | | |
|---|---|---|---|---|---|
| COMPOUND | STANDARD | LOWER | UPPER | SAMPLE | %DIFF |
| 46 Bromochloromethan | 73839 | 44303 | 103375 | 62047 | -15.97 |
| 58 1,4-Difluorobenze | 285440 | 171264 | 399616 | 238994 | -16.27 |
| 75 Chlorobenzene-d5 | 243451 | 146071 | 340831 | 205709 | -15.50 |

| | | RT LIMIT | | | |
|---|---|---|---|---|---|
| COMPOUND | STANDARD | LOWER | UPPER | SAMPLE | %DIFF |
| 46 Bromochloromethan | 16.13 | 15.80 | 16.46 | 16.16 | 0.19 |
| 58 1,4-Difluorobenze | 17.59 | 17.26 | 17.92 | 17.59 | 0.00 |
| 75 Chlorobenzene-d5 | 22.93 | 22.60 | 23.26 | 22.93 | 0.00 |

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Report Date: 09-Mar-2012 15:12

Air Toxics Ltd.

RECOVERY REPORT

Client Name: Client SDG: 08Mar2012
Sample Matrix: GAS Fraction: VOA
Lab Smp Id: LCS Client Smp ID: LCS
Level: LOW Operator: cr
Data Type: MS DATA SampleType: LCS
SpikeList File: AT09.spk Quant Type: ISTD
Sublist File: AT09.sub
Method File: /chem/msde.i/08Mar2012.b/e12l0308a.m
Misc Info: 10ppbv (50ppbv) -- ICV

| | SPIKE COMPOUND | CONC ADDED PPBV | CONC RECOVERED PPBV | % RECOVERED | LIMITS |
|---|---|---|---|---|---|
| 4 | Dichlorodifluorome | 10.000 | 9.830 | 98.30 | 70-130 |
| 2 | Propylene | 10.000 | 7.970 | 79.70 | 60-140 |
| 6 | Freon 114 | 10.000 | 9.314 | 93.14 | 70-130 |
| 7 | Chloromethane | 10.000 | 9.514 | 95.14 | 70-130 |
| 10 | Vinyl Chloride | 10.000 | 9.726 | 97.26 | 70-130 |
| 11 | 1,3-Butadiene | 10.000 | 9.538 | 95.38 | 60-140 |
| 12 | Bromomethane | 10.000 | 9.957 | 99.57 | 70-130 |
| 13 | Chloroethane | 10.000 | 9.516 | 95.17 | 70-130 |
| 16 | Trichlorofluoromet | 10.000 | 9.716 | 97.16 | 70-130 |
| 18 | Ethanol | 10.000 | 10.992 | 109.92 | 60-140 |
| 19 | Freon 113 | 10.000 | 10.052 | 100.52 | 70-130 |
| 21 | 1,1-Dichloroethene | 10.000 | 10.883 | 108.83 | 70-130 |
| 22 | Acetone | 10.000 | 10.193 | 101.93 | 60-140 |
| 23 | Carbon Disulfide | 10.000 | 12.348 | 123.48 | 60-140 |
| 25 | 2-Propanol | 10.000 | 10.793 | 107.93 | 60-140 |
| 26 | 3-Chloroprene | 10.000 | 12.046 | 120.46 | 60-140 |
| 29 | Methylene Chloride | 10.000 | 11.473 | 114.73 | 70-130 |
| 31 | MTBE | 10.000 | 10.944 | 109.44 | 60-140 |
| 32 | trans-1,2-Dichloro | 10.000 | 11.150 | 111.51 | 60-140 |
| 35 | Hexane | 10.000 | 10.613 | 106.13 | 60-140 |
| 37 | 1,1-Dichloroethane | 10.000 | 10.228 | 102.28 | 70-130 |
| 38 | Vinyl Acetate | 10.000 | 10.313 | 103.13 | 60-140 |
| 41 | cis-1,2-Dichloroet | 10.000 | 10.751 | 107.51 | 70-130 |
| 42 | 2-Butanone | 10.000 | 10.931 | 109.31 | 60-140 |
| 44 | Tetrahydrofuran | 10.000 | 9.849 | 98.49 | 60-140 |
| 47 | Chloroform | 10.000 | 10.332 | 103.32 | 70-130 |
| 48 | Cyclohexane | 10.000 | 10.568 | 105.68 | 60-140 |
| 49 | 1,1,1-Trichloroeth | 10.000 | 10.289 | 102.89 | 70-130 |
| 51 | Carbon Tetrachlori | 10.000 | 8.599 | 85.99 | 70-130 |
| 52 | 2,2,4-Trimethylpen | 10.000 | 9.697 | 96.97 | 60-140 |
| 53 | Benzene | 10.000 | 10.029 | 100.29 | 70-130 |
| 57 | Heptane | 10.000 | 11.085 | 110.85 | 60-140 |
| 56 | 1,2-Dichloroethane | 10.000 | 10.008 | 100.08 | 70-130 |

| | SPIKE COMPOUND | CONC ADDED PPBV | CONC RECOVERED PPBV | % RECOVERED | LIMITS |
|---|---|---|---|---|---|
| 59 | Trichloroethene | 10.000 | 9.130 | 91.30 | 70-130 |
| 61 | 1,2-Dichloropropan | 10.000 | 9.945 | 99.45 | 70-130 |
| 62 | 1,4-Dioxane | 10.000 | 10.775 | 107.75 | 60-140 |
| 63 | Bromodichlorometha | 10.000 | 10.487 | 104.87 | 60-140 |
| 64 | cis-1,3-Dichloropr | 10.000 | 9.443 | 94.43 | 70-130 |
| 65 | 4-Methyl-2-pentano | 10.000 | 11.419 | 114.19 | 60-140 |
| 68 | Toluene | 10.000 | 9.889 | 98.89 | 70-130 |
| 69 | trans-1,3-Dichloro | 10.000 | 11.565 | 115.65 | 70-130 |
| 70 | 1,1,2-Trichloroeth | 10.000 | 10.090 | 100.90 | 70-130 |
| 72 | 2-Hexanone | 10.000 | 11.078 | 110.78 | 60-140 |
| 71 | Tetrachloroethene | 10.000 | 9.655 | 96.55 | 70-130 |
| 73 | Dibromochlorometha | 10.000 | 10.677 | 106.77 | 60-140 |
| 74 | 1,2-Dibromoethane | 10.000 | 10.432 | 104.32 | 70-130 |
| 76 | Chlorobenzene | 10.000 | 9.826 | 98.27 | 70-130 |
| 77 | Ethyl Benzene | 10.000 | 10.603 | 106.03 | 70-130 |
| 80 | m,p-Xylene | 10.000 | 11.192 | 111.92 | 70-130 |
| 81 | o-Xylene | 10.000 | 11.329 | 113.29 | 70-130 |
| 83 | Styrene | 10.000 | 11.584 | 115.84 | 70-130 |
| 84 | Bromoform | 10.000 | 10.878 | 108.78 | 60-140 |
| 85 | Cumene | 10.000 | 11.488 | 114.88 | 60-140 |
| 89 | 1,1,2,2-Tetrachlor | 10.000 | 10.545 | 105.45 | 70-130 |
| 90 | Propylbenzene | 10.000 | 11.082 | 110.82 | 70-130 |
| 92 | 4-Ethyltoluene | 10.000 | 10.639 | 106.39 | 60-140 |
| 94 | 1,3,5-Trimethylben | 10.000 | 11.025 | 110.25 | 70-130 |
| 98 | 1,2,4-Trimethylben | 10.000 | 11.417 | 114.17 | 70-130 |
| 101 | 1,3-Dichlorobenzen | 10.000 | 10.473 | 104.73 | 70-130 |
| 104 | 1,4-Dichlorobenzen | 10.000 | 10.264 | 102.64 | 70-130 |
| 105 | alpha-chlorotoluen | 10.000 | 10.989 | 109.89 | 70-130 |
| 108 | 1,2-Dichlorobenzen | 10.000 | 10.189 | 101.89 | 70-130 |
| 112 | 1,2,4-Trichloroben | 10.000 | 10.044 | 100.44 | 70-130 |
| 113 | Hexachlorobutadien | 10.000 | 9.417 | 94.17 | 70-130 |
| 114 | Naphthalene | 1.000 | 0.7016 | 70.17 | 60-140 |
| 14 | Isopentane | 10.000 | 9.454 | 94.54 | 60-140 |
| 9 | Butane | 10.000 | 9.858 | 98.58 | 60-140 |
| 60 | Methylcyclohexane | 10.000 | 10.585 | 105.85 | 60-140 |

| | SURROGATE COMPOUND | CONC ADDED PPBV | CONC RECOVERED PPBV | % RECOVERED | LIMITS |
|---|---|---|---|---|---|
| $ 54 | 1,2-Dichloroethane | 5.000 | 5.165 | 103.30 | 70-130 |
| $ 67 | Toluene-d8 | 5.000 | 5.141 | 102.82 | 70-130 |
| $ 87 | Bromofluorobenzene | 5.000 | 5.348 | 106.95 | 70-130 |

Data File: /chem/msde.i/08Mar2012.b/e030824.d



Date : 09-MAR-2012 13:34

Client ID: LCS

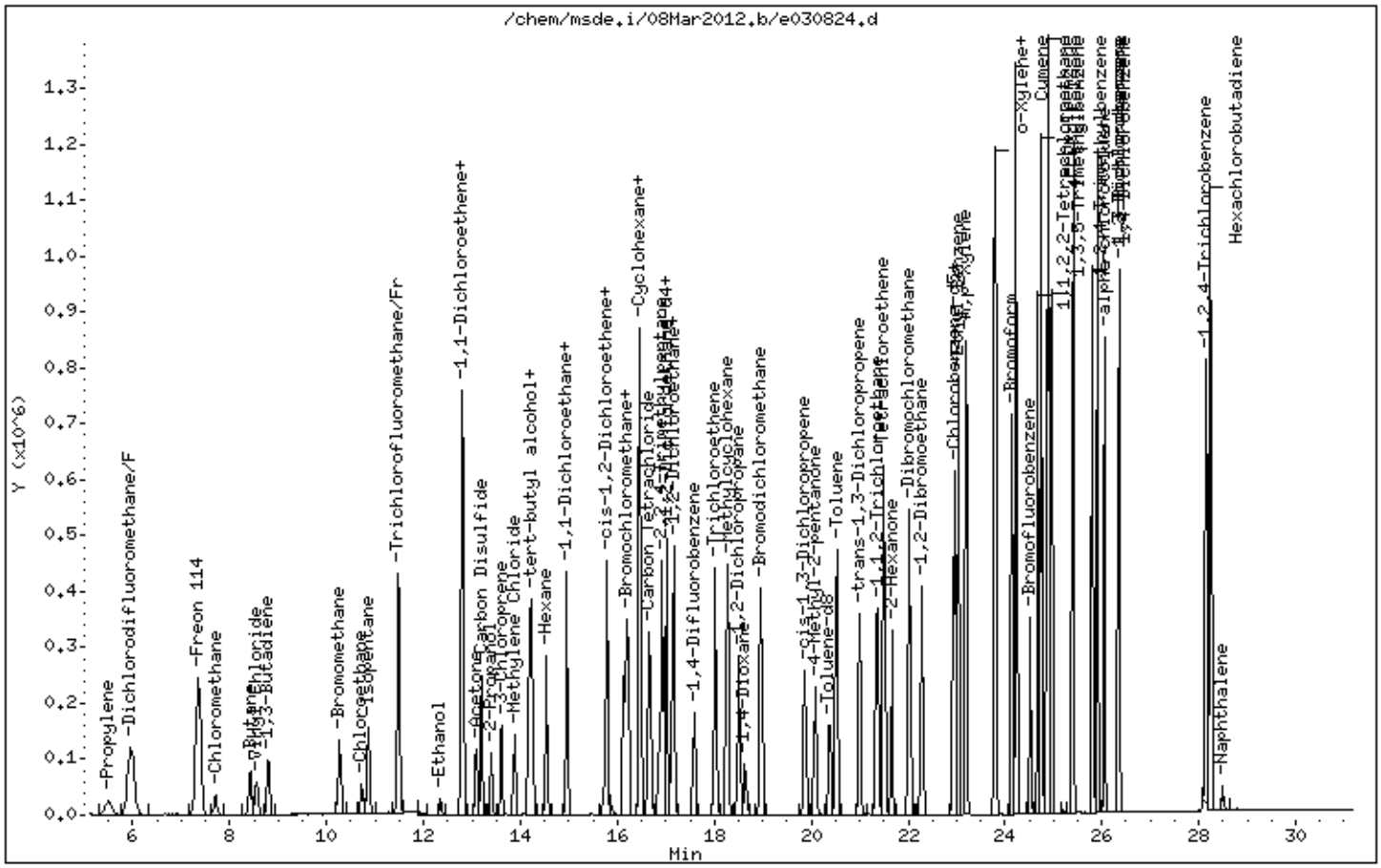
Instrument: msde.i

Sample Info: 50mL #2730-221

Operator: cr

Column phase: RTx-624

Column diameter: 0.32



Air Toxics Ltd.

EPA TO-15/Modified TO14A

Data file : /chem/msde.i/10Mar2012.b/e031008.d
Lab Smp Id: LCS Client Smp ID: LCS
Inj Date : 10-MAR-2012 14:53
Operator : cr Inst ID: msde.i
Smp Info : 50mL #2403-73
Misc Info : 1.0ppbv (5.0ppbv) -- AT5 ICV
Comment : Low-Level/GC-MS
Method : /chem/msde.i/10Mar2012.b/e12l0308b.m
Meth Date : 10-Mar-2012 14:39 croush Quant Type: ISTD
Cal Date : 10-MAR-2012 13:23 Cal File: e031006.d
Als bottle: 4 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AT5CCV.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

| Name | Value | Description |
|---|---|---|
| DF | 1.00000 | Dilution Factor |

| | | | | CONCENTRATIONS ON-COL ( PPBV) | FINAL ( PPBV) | TARGET RANGE | RATIO |
|---|---|---|---|---|---|---|---|
| RT | EXP RT (REL RT) | MASS | RESPONSE | | | | |
| * 46 Bromochloromethane | | | | | CAS #: 74-97-5 | | |
| 16.127 | 16.128 (1.000) | 130 | 51098 | 5.00000 | | 70.00- 130.00 | 100.00 |
| 16.127 | 16.128 (1.000) | 128 | 38913 | | | 0.00- 30.00 | 76.15 |
| 16.127 | 16.128 (1.000) | 49 | 46599 | | | 0.00- 30.00 | 91.19 |
| * 58 1,4-Difluorobenzene | | | | | CAS #: 540-36-3 | | |
| 17.586 | 17.586 (1.000) | 114 | 180961 | 5.00000 | | 70.00- 130.00 | 100.00 |
| 17.586 | 17.586 (1.000) | 88 | 32434 | | | 0.00- 30.00 | 17.92 |
| * 75 Chlorobenzene-d5 | | | | | CAS #: 3114-55-4 | | |
| 22.927 | 22.927 (1.000) | 117 | 157855 | 5.00000 | | 70.00- 130.00 | 100.00 |
| 22.927 | 22.927 (1.000) | 82 | 107022 | | | 0.00- 30.00 | 67.80 |
| $ 54 1,2-Dichloroethane-d4 | | | | | CAS #: 17060-07-0 | | |
| 17.013 | 17.013 (1.055) | 65 | 96297 | 5.05709 | 5.057 | 80.00- 120.00 | 100.00 |
| 17.013 | 17.013 (1.055) | 67 | 47059 | | | 0.00- 30.00 | 48.87 |

| RT | EXP RT (REL RT) | MASS | RESPONSE | CONCENTRATIONS ON-COL ( PPBV) | CONCENTRATIONS FINAL ( PPBV) | TARGET RANGE | RATIO |
|---|---|---|---|---|---|---|---|
| $ 67 Toluene-d8 | | | | | CAS #: 2037-26-5 | | |
| 20.368 | 20.368 (1.158) | 98 | 180778 | 4.95965 | 4.960 | 80.00- 120.00 | 100.00 |
| 20.368 | 20.368 (1.158) | 70 | 21682 | | | 0.00- 30.00 | 11.99 |
| 20.368 | 20.368 (1.158) | 100 | 112045 | | | 32.81- 92.81 | 61.98 |
| $ 87 Bromofluorobenzene | | | | | CAS #: 460-00-4 | | |
| 24.525 | 24.525 (1.070) | 174 | 88891 | 4.92255 | 4.922 | 80.00- 120.00 | 100.00 |
| 24.525 | 24.525 (1.070) | 95 | 142845 | | | 130.22- 190.22 | 160.70 |
| 24.525 | 24.525 (1.070) | 176 | 86006 | | | 65.16- 125.16 | 96.75 |
| 15 Vinyl Bromide | | | | | CAS #: 593-60-2 | | |
| 11.308 | 11.308 (0.701) | 106 | 14484 | 0.92826 | 0.9283 | 70.00- 130.00 | 100.00 |
| 11.308 | 11.308 (0.701) | 108 | 13664 | | | 0.00- 30.00 | 94.34 |
| 187 2,3-Dichloropropene | | | | | CAS #: 78-88-6 | | |
| 18.519 | 18.519 (1.148) | 75 | 21503 | 0.75712 | 0.7571 | 70.00- 130.00 | 100.00 |
| 18.519 | 18.519 (1.148) | 77 | 6919 | | | 0.00- 30.00 | 32.18 |
| 18.519 | 18.519 (1.148) | 39 | 8671 | | | 0.00- 30.00 | 40.33 |
| 186 1,1-Dichloropropene | | | | | CAS #: 563-58-6 | | |
| 16.682 | 16.682 (1.034) | 110 | 6714 | 0.94444 | 0.9444 | 70.00- 130.00 | 100.00 |
| 16.682 | 16.682 (1.034) | 75 | 23587 | | | 0.00- 30.00 | 351.28 |
| 79 1,1,1,2-Tetrachloroethane | | | | | CAS #: 630-20-6 | | |
| 23.071 | 23.071 (1.006) | 131 | 29378 | 1.21484 | 1.215 | 70.00- 130.00 | 100.00 |
| 23.071 | 23.071 (1.006) | 117 | 16446 | | | 0.00- 30.00 | 55.98 |
| 23.071 | 23.071 (1.006) | 95 | 14733 | | | 0.00- 30.00 | 50.15 |
| 91 1,2,3-Trichloropropane | | | | | CAS #: 96-18-4 | | |
| 24.783 | 24.783 (1.081) | 110 | 18138 | 1.17014 | 1.170 | 70.00- 130.00 | 100.00 |
| 24.783 | 24.783 (1.081) | 75 | 49702 | | | 0.00- 30.00 | 274.02 |
| 24.783 | 24.783 (1.081) | 61 | 10178 | | | 0.00- 30.00 | 56.12 |
| 93 2-Chlorotoluene | | | | | CAS #: 95-49-8 | | |
| 24.938 | 24.938 (1.088) | 126 | 19477 | 1.14983 | 1.150 | 70.00- 130.00 | 100.00 |
| 24.938 | 24.938 (1.088) | 91 | 70561 | | | 0.00- 30.00 | 362.28 |
| 24.912 | 24.938 (1.087) | 65 | 5891 | | | 0.00- 30.00 | 30.25 |
| 96 4-Chlorotoluene | | | | | CAS #: 106-43-4 | | |
| 25.067 | 25.067 (1.093) | 126 | 25700 | 1.02645 | 1.026 | 70.00- 130.00 | 100.00 |
| 25.067 | 25.067 (1.093) | 91 | 99597 | | | 0.00- 30.00 | 387.53 |
| 25.343 | 25.067 (1.105) | 57 | 1094 | | | 0.00- 30.00 | 4.26 |
| 97 tert-Butylbenzene | | | | | CAS #: 98-06-6 | | |
| 25.343 | 25.343 (1.105) | 119 | 63298 | 1.11435 | 1.114 | 70.00- 130.00 | 100.00 |
| 25.343 | 25.343 (1.105) | 134 | 13472 | | | 0.00- 30.00 | 21.28 |

| RT | EXP RT (REL RT) | MASS | RESPONSE | CONCENTRATIONS ON-COL ( PPBV) | FINAL ( PPBV) | TARGET RANGE | RATIO |
|---|---|---|---|---|---|---|---|
| 97 tert-Butylbenzene (continued) | | | | | | | |
| 25.343 | 25.343 (1.105) | 91 | 48707 | | | 0.00- 30.00 | 76.95 |
| 99 sec-Butylbenzene | | | | | CAS #: 135-98-8 | | |
| 25.589 | 25.590 (1.116) | 105 | 95281 | 1.05507 | 1.055 | 70.00- 130.00 | 100.00 |
| 25.589 | 25.590 (1.116) | 134 | 16462 | | | 0.00- 30.00 | 17.28 |
| 25.589 | 25.590 (1.116) | 91 | 18616 | | | 0.00- 30.00 | 19.54 |
| 100 p-Cymene | | | | | CAS #: 99-87-6 | | |
| 25.724 | 25.724 (1.122) | 119 | 81829 | 1.20274 | 1.203 | 70.00- 130.00 | 100.00 |
| 25.724 | 25.724 (1.122) | 134 | 20406 | | | 0.00- 30.00 | 24.94 |
| 25.724 | 25.724 (1.122) | 91 | 25417 | | | 0.00- 30.00 | 31.06 |
| 103 1,2,3-trimethylbenzene | | | | | CAS #: 526-73-8 | | |
| 25.903 | 25.903 (1.130) | 120 | 22909 | 0.86899 | 0.8690 | 70.00- 130.00 | 100.00 |
| 25.903 | 25.903 (1.130) | 105 | 61965 | | | 0.00- 30.00 | 270.48 |
| 25.903 | 25.903 (1.130) | 77 | 8433 | | | 0.00- 30.00 | 36.81 |
| 107 Butylbenzene | | | | | CAS #: 104-51-8 | | |
| 26.195 | 26.195 (1.143) | 134 | 15926 | 1.05127 | 1.051 | 70.00- 130.00 | 100.00 |
| 26.195 | 26.195 (1.143) | 91 | 75763 | | | 445.46- 505.46 | 475.72 |
| 26.195 | 26.195 (1.143) | 92 | 39229 | | | 0.00- 30.00 | 246.32 |
| 110 1,2-dibromo-3-chloropropane | | | | | CAS #: 96-12-8 | | |
| 27.248 | 27.248 (1.188) | 157 | 17955 | 1.11112 | 1.111 | 70.00- 130.00 | 100.00 |
| 27.226 | 27.248 (1.188) | 75 | 22777 | | | 0.00- 30.00 | 126.85 |
| 27.248 | 27.248 (1.188) | 155 | 13541 | | | 0.00- 30.00 | 75.42 |
| 86 1,3-Dichloropropane | | | | | CAS #: 142-28-9 | | |
| 21.692 | 21.693 (1.234) | 76 | 31400 | 1.15944 | 1.159 | 70.00- 130.00 | 100.00 |
| 21.660 | 21.693 (1.232) | 41 | 14264 | | | 30.10- 90.10 | 45.43 |
| 21.692 | 21.693 (1.234) | 78 | 10228 | | | 0.00- 30.00 | 32.57 |
| 185 Bromobenzene | | | | | CAS #: 108-86-1 | | |
| 24.732 | 24.732 (1.079) | 156 | 27053 | 1.06752 | 1.068 | 70.00- 130.00 | 100.00 |
| 24.732 | 24.732 (1.079) | 158 | 27322 | | | 0.00- 30.00 | 101.00 |
| 24.732 | 24.732 (1.079) | 77 | 66989 | | | 0.00- 30.00 | 247.62 |

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msde.i
Lab File ID: e031008.d
Lab Smp Id: LCS
Analysis Type: VOA
Quant Type: ISTD
Operator: cr
Method File: /chem/msde.i/10Mar2012.b/e12l0308b.m
Misc Info: 1.0ppbv (5.0ppbv) -- AT5 ICV

Calibration Date: 10-MAR-2012
Calibration Time: 11:52
Client Smp ID: LCS
Level: LOW
Sample Type: AIR

| | | AREA LIMIT | | | |
|---|---|---|---|---|---|
| COMPOUND | STANDARD | LOWER | UPPER | SAMPLE | %DIFF |
| 46 Bromochloromethan | 53284 | 31970 | 74598 | 51098 | -4.10 |
| 58 1,4-Difluorobenze | 199260 | 119556 | 278964 | 180961 | -9.18 |
| 75 Chlorobenzene-d5 | 174009 | 104405 | 243613 | 157855 | -9.28 |

| | | RT LIMIT | | | |
|---|---|---|---|---|---|
| COMPOUND | STANDARD | LOWER | UPPER | SAMPLE | %DIFF |
| 46 Bromochloromethan | 16.13 | 15.80 | 16.46 | 16.13 | 0.00 |
| 58 1,4-Difluorobenze | 17.59 | 17.26 | 17.92 | 17.59 | 0.00 |
| 75 Chlorobenzene-d5 | 22.93 | 22.60 | 23.26 | 22.93 | 0.00 |

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Report Date: 10-Mar-2012 15:25

Air Toxics Ltd.

RECOVERY REPORT

Client Name: Client SDG: 10Mar2012
Sample Matrix: GAS Fraction: VOA
Lab Smp Id: LCS Client Smp ID: LCS
Level: LOW Operator: cr
Data Type: MS DATA SampleType: LCS
SpikeList File: AT5LCS.spk Quant Type: ISTD
Sublist File: AT5CCV.sub
Method File: /chem/msde.i/10Mar2012.b/e12l0308b.m
Misc Info: 1.0ppbv (5.0ppbv) -- AT5 ICV

| SPIKE COMPOUND | CONC ADDED PPBV | CONC RECOVERED PPBV | % RECOVERED | LIMITS |
|---|---|---|---|---|
| 15 Vinyl Bromide | 1.000 | 0.9283 | 92.83 | 60-140 |
| 79 1,1,1,2-Tetrachlor | 1.000 | 1.215 | 121.48 | 60-140 |
| 86 1,3-Dichloropropan | 1.000 | 1.159 | 115.94 | 60-140 |
| 91 1,2,3-Trichloropro | 1.000 | 1.170 | 117.01 | 60-140 |
| 93 2-Chlorotoluene | 1.000 | 1.150 | 114.98 | 60-140 |
| 96 4-Chlorotoluene | 1.000 | 1.026 | 102.65 | 60-140 |
| 97 tert-Butylbenzene | 1.000 | 1.114 | 111.44 | 60-140 |
| 99 sec-Butylbenzene | 1.000 | 1.055 | 105.51 | 60-140 |
| 100 p-Cymene | 1.000 | 1.203 | 120.27 | 60-140 |
| 103 1,2,3-trimethylben | 1.000 | 0.8690 | 86.90 | 60-140 |
| 107 Butylbenzene | 1.000 | 1.051 | 105.13 | 60-140 |
| 110 1,2-dibromo-3-chlo | 1.000 | 1.111 | 111.11 | 60-140 |
| 187 2,3-Dichloropropen | 1.000 | 0.7571 | 75.71 | 60-140 |
| 186 1,1-Dichloropropen | 1.000 | 0.9444 | 94.44 | 60-140 |
| 185 Bromobenzene | 1.000 | 1.068 | 106.75 | 60-140 |

| SURROGATE COMPOUND | CONC ADDED PPBV | CONC RECOVERED PPBV | % RECOVERED | LIMITS |
|---|---|---|---|---|
| $ 54 1,2-Dichloroethane | 5.000 | 5.057 | 101.14 | 70-130 |
| $ 67 Toluene-d8 | 5.000 | 4.960 | 99.19 | 70-130 |
| $ 87 Bromofluorobenzene | 5.000 | 4.922 | 98.45 | 70-130 |

Data File: /chem/msde.i/10Mar2012.b/e031008.d

Date : 10-MAR-2012 14:53

Client ID: LCS

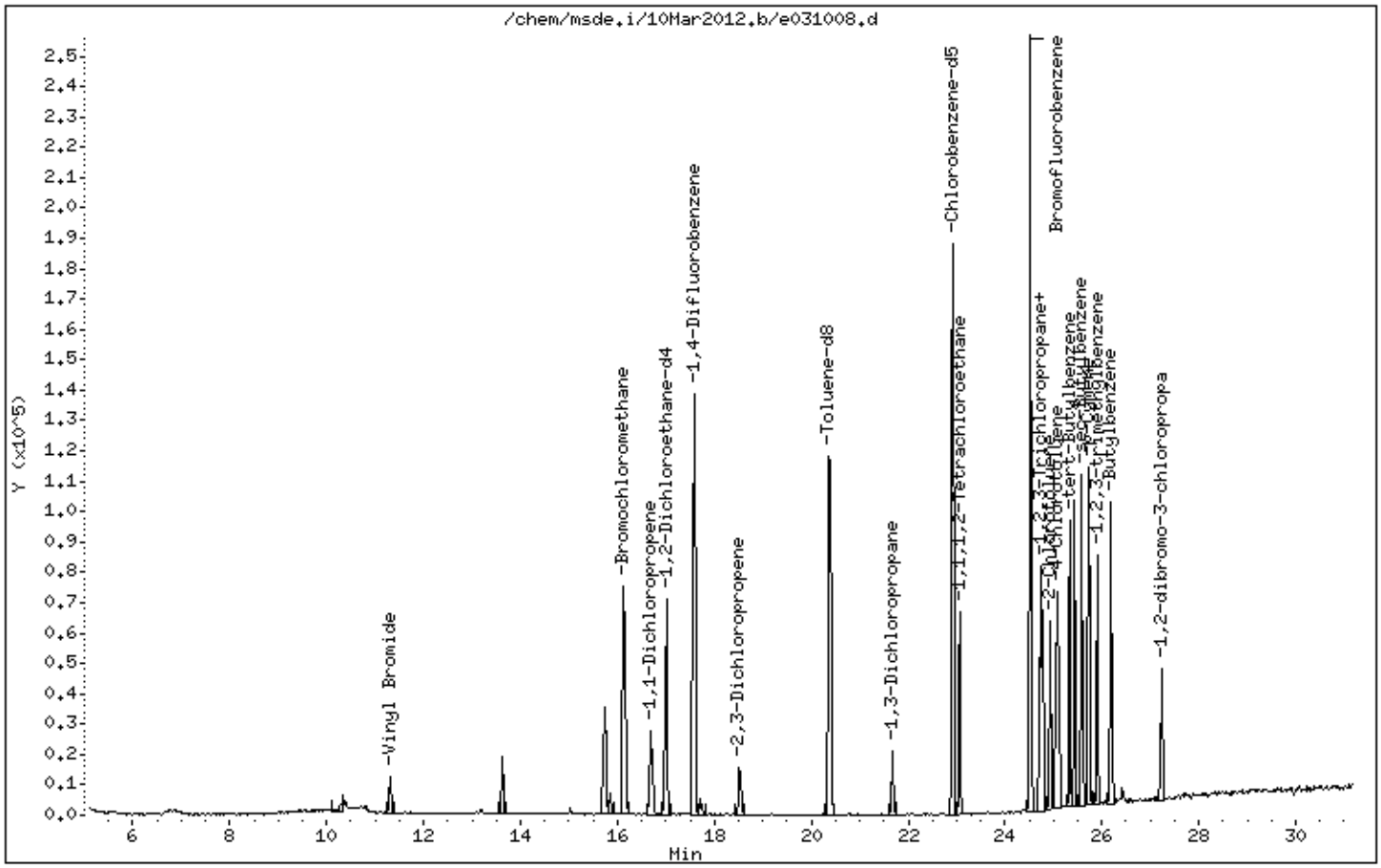
Instrument: msde.i

Sample Info: 50mL #2403-73

Operator: cr

Column phase: RTx-624

Column diameter: 0.32



Air Toxics Ltd.

EPA TO-15/Modified TO14A

Data file : /chem/msde.i/08Mar2012.b/e030823.d
Lab Smp Id: ICAL Client Smp ID: Level 4
Inj Date : 09-MAR-2012 12:55
Operator : cr Inst ID: msde.i
Smp Info : 250mL #2403-59
Misc Info : 0.05ppbv (0.05ppbv)
Comment : Low-Level/GC-MS
Method : /chem/msde.i/08Mar2012.b/e12l0308a.m
Meth Date : 13-Mar-2012 09:29 croush Quant Type: ISTD
Cal Date : 09-MAR-2012 12:55 Cal File: e030823.d
Als bottle: 8 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: Level05.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

| Name | Value | Description |
|---|---|---|
| DF | 1.00000 | Dilution Factor |

| | | | | | AMOUNTS | | | |
|---|---|---|---|---|---|---|---|---|
| | | | | CAL-AMT | ON-COL | | | |
| RT | EXP RT (REL RT) | MASS | RESPONSE | ( PPBV) | ( PPBV) | TARGET RANGE | | RATIO |
| == | ====== ======== | ==== | ======== | ======= | ======= | ========== | | ===== |
| * 46 Bromochloromethane | | | | | | CAS #: 74-97-5 | | |
| 16.158 | 16.158 (1.000) | 130 | 58233 | 5.00000 | | 70.00- 130.00 | | 100.00 |
| 16.158 | 16.158 (1.000) | 128 | 45471 | | | 0.00- 30.00 | | 78.08 |
| 16.127 | 16.127 (1.000) | 49 | 55121 | | | 0.00- 30.00 | | 94.66 |
| * 58 1,4-Difluorobenzene | | | | | | CAS #: 540-36-3 | | |
| 17.585 | 17.585 (1.000) | 114 | 212955 | 5.00000 | | 70.00- 130.00 | | 100.00 |
| 17.585 | 17.585 (1.000) | 88 | 38193 | | | 0.00- 30.00 | | 17.93 |
| * 75 Chlorobenzene-d5 | | | | | | CAS #: 3114-55-4 | | |
| 22.927 | 22.927 (1.000) | 117 | 179281 | 5.00000 | | 70.00- 130.00 | | 100.00 |
| 22.927 | 22.927 (1.000) | 82 | 120170 | | | 0.00- 30.00 | | 67.03 |
| $ 54 1,2-Dichloroethane-d4 | | | | | | CAS #: 17060-07-0 | | |
| 17.013 | 17.013 (1.053) | 65 | 109818 | 5.00000 | 5.060 | 70.00- 130.00 | | 100.00 |
| 17.013 | 17.013 (1.053) | 67 | 51819 | | | 0.00- 30.00 | | 47.19 |

| RT | EXP RT (REL RT) | MASS | RESPONSE | AMOUNTS CAL-AMT ( PPBV) | ON-COL ( PPBV) | TARGET RANGE | RATIO |
|---|---|---|---|---|---|---|---|
| $ 67 Toluene-d8 | | | | | CAS #: 2037-26-5 | | |
| 20.390 | 20.390 (1.159) | 98 | 205182 | 5.00000 | 4.783 | 70.00- 130.00 | 100.00 |
| 20.368 | 20.368 (1.158) | 70 | 25826 | | | 0.00- 30.00 | 12.59 |
| 20.390 | 20.390 (1.159) | 100 | 129478 | | | 33.91- 93.91 | 63.10 |
| $ 87 Bromofluorobenzene | | | | | CAS #: 460-00-4 | | |
| 24.525 | 24.525 (1.070) | 174 | 102556 | 5.00000 | 5.000 | 70.00- 130.00 | 100.00 |
| 24.525 | 24.525 (1.070) | 95 | 165847 | | | 125.57- 185.57 | 161.71 |
| 24.525 | 24.525 (1.070) | 176 | 99112 | | | 64.73- 124.73 | 96.64 |
| 4 Dichlorodifluoromethane/Fr12 | | | | | CAS #: 75-71-8 | | |
| 5.955 | 5.955 (0.369) | 85 | 3446 | 0.05000 | 0.05064 | 70.00- 130.00 | 100.00 |
| 7.353 | 7.353 (0.455) | 87 | 533 | | | 2.22- 62.22 | 15.47 |
| 16 Trichlorofluoromethane/Fr11 | | | | | CAS #: 75-69-4 | | |
| 11.474 | 11.474 (0.710) | 101 | 4095 | 0.05000 | 0.05706 | 70.00- 130.00 | 100.00 |
| 11.474 | 11.474 (0.710) | 103 | 3102 | | | 36.02- 96.02 | 75.75 |
| 19 Freon 113 | | | | | CAS #: 76-13-1 | | |
| 12.780 | 12.780 (0.791) | 151 | 1493 | 0.05000 | 0.04920 | 70.00- 130.00 | 100.00(a) |
| 12.780 | 12.780 (0.791) | 153 | 809 | | | 34.27- 94.27 | 54.19 |
| 12.780 | 12.780 (0.791) | 101 | 2308 | | | 0.00- 30.00 | 154.59 |
| 49 1,1,1-Trichloroethane | | | | | CAS #: 71-55-6 | | |
| 16.466 | 16.466 (1.019) | 97 | 2912 | 0.05000 | 0.05328 | 70.00- 130.00 | 100.00 |
| 16.466 | 16.466 (1.019) | 99 | 2006 | | | 0.00- 30.00 | 68.89 |
| 51 Carbon Tetrachloride | | | | | CAS #: 56-23-5 | | |
| 16.651 | 16.651 (1.031) | 119 | 2214 | 0.05000 | 0.05414 | 70.00- 130.00 | 100.00 |
| 16.651 | 16.651 (1.031) | 117 | 2687 | | | 0.00- 30.00 | 121.36 |
| 59 Trichloroethene | | | | | CAS #: 79-01-6 | | |
| 18.025 | 18.025 (1.025) | 130 | 1635 | 0.05000 | 0.06777 | 70.00- 130.00 | 100.00 |
| 18.025 | 18.025 (1.025) | 95 | 1248 | | | 0.00- 30.00 | 76.33 |
| 18.025 | 18.025 (1.025) | 97 | 891 | | | 0.00- 30.00 | 54.50 |
| 63 Bromodichloromethane | | | | | CAS #: 75-27-4 | | |
| 18.958 | 18.958 (1.078) | 83 | 2578 | 0.05000 | 0.05495 | 70.00- 130.00 | 100.00 |
| 18.958 | 18.958 (1.078) | 85 | 1367 | | | 0.00- 30.00 | 53.03 |
| 70 1,1,2-Trichloroethane | | | | | CAS #: 79-00-5 | | |
| 21.367 | 21.367 (0.932) | 97 | 1346 | 0.05000 | 0.05811 | 70.00- 130.00 | 100.00(T) |
| 0.000 | 1.000 (0.000) | 99 | 0 | | | 0.00- 30.00 | 0.00 |
| 21.335 | 21.335 (0.931) | 83 | 938 | | | 52.76- 112.76 | 69.69 |
| 71 Tetrachloroethene | | | | | CAS #: 127-18-4 | | |
| 21.497 | 21.497 (0.938) | 166 | 1551 | 0.05000 | 0.05769 | 70.00- 130.00 | 100.00 |

| RT | EXP RT (REL RT) | MASS | RESPONSE | AMOUNTS CAL-AMT ( PPBV) | AMOUNTS ON-COL ( PPBV) | TARGET RANGE | RATIO |
|---|---|---|---|---|---|---|---|
| 71 Tetrachloroethene (continued) | | | | | | | |
| 21.497 | 21.497 (0.938) | 129 | 1164 | | | 0.00- 30.00 | 75.05 |
| 21.497 | 21.497 (0.938) | 131 | 1090 | | | 0.00- 30.00 | 70.28 |
| 73 Dibromochloromethane | | | | | CAS #: 124-48-1 | | |
| 22.018 | 22.018 (0.960) | 129 | 1711 | 0.05000 | 0.04342 | 70.00- 130.00 | 100.00(a) |
| 22.018 | 22.018 (0.960) | 127 | 1437 | | | 0.00- 30.00 | 83.99 |
| 74 1,2-Dibromoethane | | | | | CAS #: 106-93-4 | | |
| 22.278 | 22.278 (0.972) | 107 | 1757 | 0.05000 | 0.04945 | 70.00- 130.00 | 100.00(a) |
| 22.278 | 22.278 (0.972) | 109 | 1632 | | | 0.00- 30.00 | 92.89 |
| 84 Bromoform | | | | | CAS #: 75-25-2 | | |
| 24.131 | 24.131 (1.053) | 173 | 1548 | 0.05000 | 0.04543 | 70.00- 130.00 | 100.00(a) |
| 24.131 | 24.131 (1.053) | 171 | 771 | | | 0.00- 30.00 | 49.81 |
| 89 1,1,2,2-Tetrachloroethane | | | | | CAS #: 79-34-5 | | |
| 24.680 | 24.680 (1.076) | 83 | 2571 | 0.05000 | 0.05321 | 70.00- 130.00 | 100.00 |
| 24.680 | 24.680 (1.076) | 85 | 1010 | | | 0.00- 30.00 | 39.28 |
| 101 1,3-Dichlorobenzene | | | | | CAS #: 541-73-1 | | |
| 25.814 | 25.814 (1.126) | 146 | 2169 | 0.05000 | 0.04391 | 70.00- 130.00 | 100.00(a) |
| 25.791 | 25.791 (1.125) | 148 | 1495 | | | 0.00- 30.00 | 68.93 |
| 25.814 | 25.814 (1.126) | 111 | 1597 | | | 0.00- 30.00 | 73.63 |
| 104 1,4-Dichlorobenzene | | | | | CAS #: 106-46-7 | | |
| 25.903 | 25.903 (1.130) | 146 | 2579 | 0.05000 | 0.05218 | 70.00- 130.00 | 100.00 |
| 25.903 | 25.903 (1.130) | 148 | 1530 | | | 0.00- 30.00 | 59.33 |
| 25.903 | 25.903 (1.130) | 111 | 1131 | | | 0.00- 30.00 | 43.85 |
| 112 1,2,4-Trichlorobenzene | | | | | CAS #: 120-82-1 | | |
| 28.167 | 28.167 (1.229) | 180 | 1260 | 0.05000 | 0.04114 | 70.00- 130.00 | 100.00 |
| 28.167 | 28.167 (1.229) | 182 | 1097 | | | 0.00- 30.00 | 87.06 |
| 108 1,2-Dichlorobenzene | | | | | CAS #: 95-50-1 | | |
| 26.352 | 26.352 (1.149) | 146 | 2511 | 0.05000 | 0.05358 | 70.00- 130.00 | 100.00 |
| 26.352 | 26.352 (1.149) | 148 | 1483 | | | 34.07- 94.07 | 59.06 |
| 26.352 | 26.352 (1.149) | 111 | 996 | | | 19.87- 79.87 | 39.67 |

QC Flag Legend

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

Report Date: 13-Mar-2012 09:29

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msde.i
Lab File ID: e030823.d
Lab Smp Id: ICAL
Analysis Type: VOA
Quant Type: ISTD
Operator: cr
Method File: /chem/msde.i/08Mar2012.b/e12l0308a.m
Misc Info: 0.05ppbv (0.05ppbv)

Calibration Date: 08-MAR-2012
Calibration Time: 22:56
Client Smp ID: Level 4
Level: LOW
Sample Type: AIR

| | | AREA LIMIT | | | |
|---|---|---|---|---|---|
| COMPOUND | STANDARD | LOWER | UPPER | SAMPLE | %DIFF |
| 46 Bromochloromethan | 73839 | 44303 | 103375 | 58233 | -21.14 |
| 58 1,4-Difluorobenze | 285440 | 171264 | 399616 | 212955 | -25.39 |
| 75 Chlorobenzene-d5 | 243451 | 146071 | 340831 | 179281 | -26.36 |

| | | RT LIMIT | | | |
|---|---|---|---|---|---|
| COMPOUND | STANDARD | LOWER | UPPER | SAMPLE | %DIFF |
| 46 Bromochloromethan | 16.13 | 15.80 | 16.46 | 16.16 | 0.19 |
| 58 1,4-Difluorobenze | 17.59 | 17.26 | 17.92 | 17.59 | 0.00 |
| 75 Chlorobenzene-d5 | 22.93 | 22.60 | 23.26 | 22.93 | 0.00 |

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Data File: /chem/msde.i/08Mar2012.b/e030823.d

Date : 09-MAR-2012 12:55

Client ID: Level 4

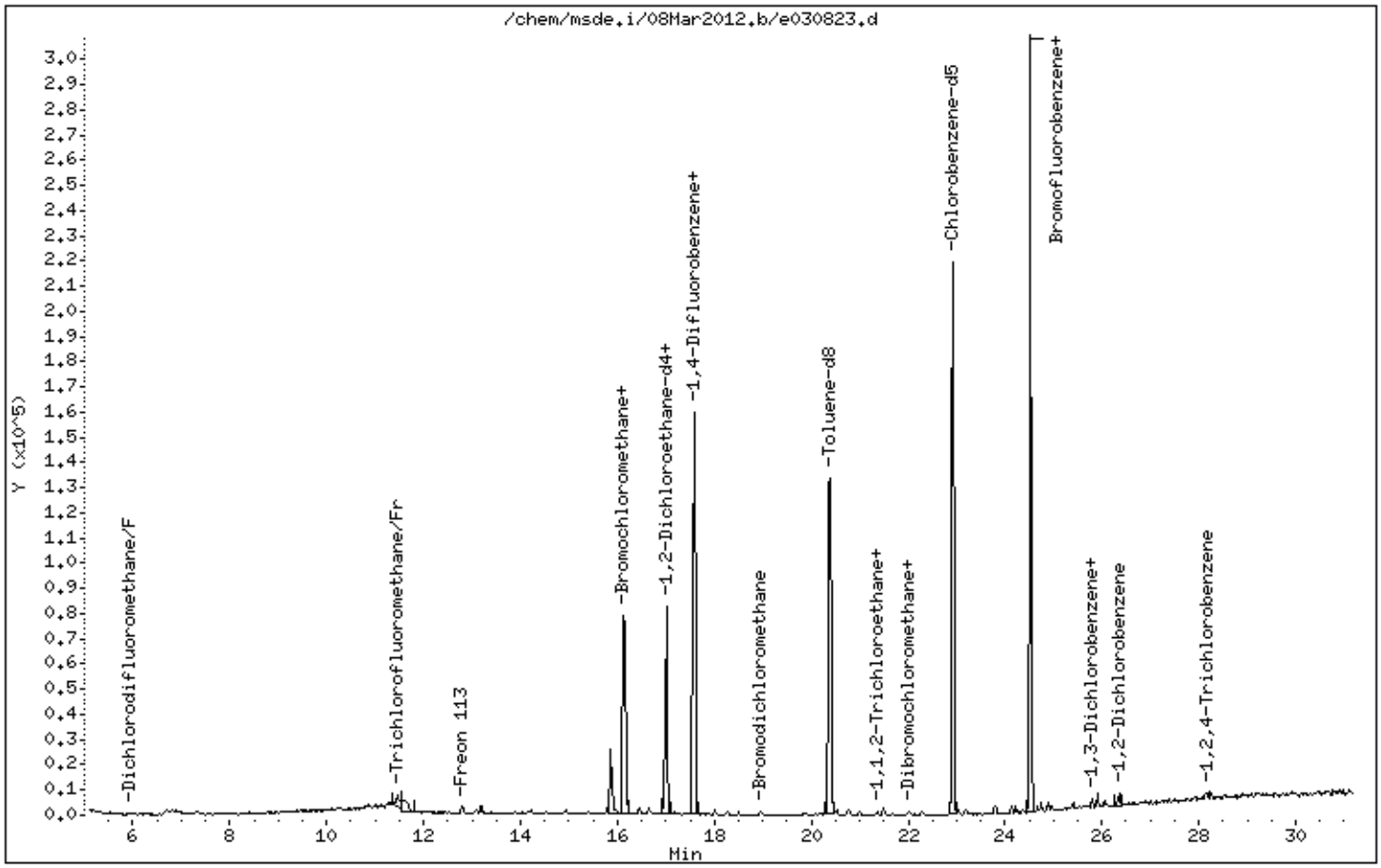
Instrument: msde.i

Sample Info: 250mL #2403-59

Operator: cr

Column phase: RTx-624

Column diameter: 0.32



Air Toxics Ltd.

EPA TO-15/Modified TO14A

Data file : /chem/msde.i/10Mar2012.b/e031002.d
Lab Smp Id: ICAL Client Smp ID: Level 5
Inj Date : 10-MAR-2012 10:33
Operator : cr Inst ID: msde.i
Smp Info : 250mL #2403-8
Misc Info : 0.10ppbv (0.10ppbv) -- AT5
Comment : Low-Level/GC-MS
Method : /chem/msde.i/10Mar2012.b/e12l0308b.m
Meth Date : 10-Mar-2012 13:50 croush Quant Type: ISTD
Cal Date : 10-MAR-2012 10:33 Cal File: e031002.d
Als bottle: 8 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AT5ICAL.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

| Name | Value | Description |
|---|---|---|
| DF | 1.00000 | Dilution Factor |

| | | | | AMOUNTS | | | |
|---|---|---|---|---|---|---|---|
| | | | | CAL-AMT | ON-COL | | |
| RT | EXP RT (REL RT) | MASS | RESPONSE | ( PPBV) | ( PPBV) | TARGET RANGE | RATIO |
| * 46 Bromochloromethane | | | | | CAS #: 74-97-5 | | |
| 16.158 | 16.158 (1.000) | 130 | 60079 | 5.00000 | | 70.00- 130.00 | 100.00 |
| 16.128 | 16.128 (1.000) | 128 | 45744 | | | 0.00- 30.00 | 76.14 |
| 16.128 | 16.128 (1.000) | 49 | 56573 | | | 0.00- 30.00 | 94.16 |
| * 58 1,4-Difluorobenzene | | | | | CAS #: 540-36-3 | | |
| 17.586 | 17.586 (1.000) | 114 | 215796 | 5.00000 | | 70.00- 130.00 | 100.00 |
| 17.586 | 17.586 (1.000) | 88 | 36629 | | | 0.00- 30.00 | 16.97 |
| * 75 Chlorobenzene-d5 | | | | | CAS #: 3114-55-4 | | |
| 22.927 | 22.927 (1.000) | 117 | 181514 | 5.00000 | | 70.00- 130.00 | 100.00 |
| 22.927 | 22.927 (1.000) | 82 | 122620 | | | 0.00- 30.00 | 67.55 |
| 15 Vinyl Bromide | | | | | CAS #: 593-60-2 | | |
| 11.308 | 11.308 (0.700) | 106 | 1999 | 0.10000 | 0.1090 | 70.00- 130.00 | 100.00 |
| 11.308 | 11.308 (0.700) | 108 | 1553 | | | 0.00- 30.00 | 77.69 |

| RT | EXP RT (REL RT) | MASS | RESPONSE | AMOUNTS CAL-AMT ( PPBV) | ON-COL ( PPBV) | TARGET RANGE | RATIO |
|---|---|---|---|---|---|---|---|
| 187 2,3-Dichloropropene | | | | | CAS #: 78-88-6 | | |
| 18.547 | 18.547 (1.148) | 75 | 2614 | 0.10000 | 0.07828 | 70.00- 130.00 | 100.00 |
| 18.519 | 18.519 (1.146) | 77 | 726 | | | 0.00- 30.00 | 27.77 |
| 18.519 | 18.519 (1.146) | 39 | 1138 | | | 0.00- 30.00 | 43.53 |
| 186 1,1-Dichloropropene | | | | | CAS #: 563-58-6 | | |
| 16.682 | 16.682 (1.032) | 110 | 723 | 0.10000 | 0.08649 | 70.00- 130.00 | 100.00 |
| 16.682 | 16.682 (1.032) | 75 | 2347 | | | 0.00- 30.00 | 324.62 |
| 79 1,1,1,2-Tetrachloroethane | | | | | CAS #: 630-20-6 | | |
| 23.072 | 23.072 (1.006) | 131 | 2729 | 0.10000 | 0.09814 | 70.00- 130.00 | 100.00 |
| 23.072 | 23.072 (1.006) | 117 | 1698 | | | 0.00- 30.00 | 62.22 |
| 23.072 | 23.072 (1.006) | 95 | 1241 | | | 0.00- 30.00 | 45.47 |
| 91 1,2,3-Trichloropropane | | | | | CAS #: 96-18-4 | | |
| 24.784 | 24.784 (1.081) | 110 | 1746 | 0.10000 | 0.09796 | 70.00- 130.00 | 100.00 |
| 24.784 | 24.784 (1.081) | 75 | 5251 | | | 0.00- 30.00 | 300.74 |
| 24.784 | 24.784 (1.081) | 61 | 945 | | | 0.00- 30.00 | 54.12 |
| 93 2-Chlorotoluene | | | | | CAS #: 95-49-8 | | |
| 24.938 | 24.938 (1.088) | 126 | 2002 | 0.10000 | 0.1028 | 70.00- 130.00 | 100.00 |
| 24.912 | 24.912 (1.087) | 91 | 7742 | | | 0.00- 30.00 | 386.71 |
| 24.912 | 24.912 (1.087) | 65 | 533 | | | 0.00- 30.00 | 26.62 |
| 96 4-Chlorotoluene | | | | | CAS #: 106-43-4 | | |
| 25.067 | 25.067 (1.093) | 126 | 3090 | 0.10000 | 0.1073 | 70.00- 130.00 | 100.00 |
| 25.067 | 25.067 (1.093) | 91 | 11227 | | | 0.00- 30.00 | 363.33 |
| 24.526 | 24.526 (1.070) | 57 | 4250 | | | 0.00- 30.00 | 137.54 |
| 97 tert-Butylbenzene | | | | | CAS #: 98-06-6 | | |
| 25.343 | 25.343 (1.105) | 119 | 6242 | 0.10000 | 0.09556 | 70.00- 130.00 | 100.00 |
| 25.343 | 25.343 (1.105) | 134 | 1400 | | | 0.00- 30.00 | 22.43 |
| 25.343 | 25.343 (1.105) | 91 | 5466 | | | 0.00- 30.00 | 87.57 |
| 99 sec-Butylbenzene | | | | | CAS #: 135-98-8 | | |
| 25.590 | 25.590 (1.116) | 105 | 11328 | 0.10000 | 0.1091 | 70.00- 130.00 | 100.00 |
| 25.590 | 25.590 (1.116) | 134 | 1665 | | | 0.00- 30.00 | 14.70 |
| 25.590 | 25.590 (1.116) | 91 | 2442 | | | 0.00- 30.00 | 21.56 |
| 100 p-Cymene | | | | | CAS #: 99-87-6 | | |
| 25.724 | 25.724 (1.122) | 119 | 7033 | 0.10000 | 0.08990 | 70.00- 130.00 | 100.00 |
| 25.724 | 25.724 (1.122) | 134 | 1604 | | | 0.00- 30.00 | 22.81 |
| 25.724 | 25.724 (1.122) | 91 | 2993 | | | 0.00- 30.00 | 42.56 |
| 103 1,2,3-trimethylbenzene | | | | | CAS #: 526-73-8 | | |
| 25.903 | 25.903 (1.130) | 120 | 2906 | 0.10000 | 0.09586 | 70.00- 130.00 | 100.00 |

| RT | EXP RT (REL RT) | MASS | RESPONSE | AMOUNTS CAL-AMT ( PPBV) | AMOUNTS ON-COL ( PPBV) | TARGET RANGE | RATIO |
|---|---|---|---|---|---|---|---|
| 103 1,2,3-trimethylbenzene (continued) | | | | | | | |
| 25.903 | 25.903 (1.130) | 105 | 7042 | | | 0.00- 30.00 | 242.33 |
| 25.903 | 25.903 (1.130) | 77 | 1008 | | | 0.00- 30.00 | 34.69 |
| 107 Butylbenzene | | | | | CAS #: 104-51-8 | | |
| 26.195 | 26.195 (1.143) | 134 | 1852 | 0.10000 | 0.1063 | 70.00- 130.00 | 100.00 |
| 26.195 | 26.195 (1.143) | 91 | 7899 | | | 445.46- 505.46 | 426.51 |
| 26.195 | 26.195 (1.143) | 92 | 3653 | | | 0.00- 30.00 | 197.25 |
| 110 1,2-dibromo-3-chloropropane | | | | | CAS #: 96-12-8 | | |
| 27.226 | 27.226 (1.188) | 157 | 1556 | 0.10000 | 0.08374 | 70.00- 130.00 | 100.00 |
| 27.226 | 27.226 (1.188) | 75 | 2423 | | | 0.00- 30.00 | 155.72 |
| 27.226 | 27.226 (1.188) | 155 | 1258 | | | 0.00- 30.00 | 80.85 |
| 86 1,3-Dichloropropane | | | | | CAS #: 142-28-9 | | |
| 21.693 | 21.693 (1.234) | 76 | 3100 | 0.10000 | 0.09599 | 70.00- 130.00 | 100.00 |
| 21.660 | 21.660 (1.232) | 41 | 1775 | | | 30.10- 90.10 | 57.26 |
| 21.693 | 21.693 (1.234) | 78 | 1028 | | | 0.00- 30.00 | 33.16 |
| 185 Bromobenzene | | | | | CAS #: 108-86-1 | | |
| 24.732 | 24.732 (1.079) | 156 | 3259 | 0.10000 | 0.1118 | 70.00- 130.00 | 100.00 |
| 24.732 | 24.732 (1.079) | 158 | 2768 | | | 0.00- 30.00 | 84.93 |
| 24.732 | 24.732 (1.079) | 77 | 7083 | | | 0.00- 30.00 | 217.34 |

Report Date: 10-Mar-2012 13:50

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msde.i
Lab File ID: e031002.d
Lab Smp Id: ICAL
Analysis Type: VOA
Quant Type: ISTD
Operator: cr
Method File: /chem/msde.i/10Mar2012.b/e12l0308b.m
Misc Info: 0.10ppbv (0.10ppbv) -- AT5

Calibration Date: 10-MAR-2012
Calibration Time: 11:52
Client Smp ID: Level 5
Level: LOW
Sample Type: AIR

| | | AREA LIMIT | | | |
|---|---|---|---|---|---|
| COMPOUND | STANDARD | LOWER | UPPER | SAMPLE | %DIFF |
| 46 Bromochloromethan | 53284 | 31970 | 74598 | 60079 | 12.75 |
| 58 1,4-Difluorobenze | 199260 | 119556 | 278964 | 215796 | 8.30 |
| 75 Chlorobenzene-d5 | 174009 | 104405 | 243613 | 181514 | 4.31 |

| | | RT LIMIT | | | |
|---|---|---|---|---|---|
| COMPOUND | STANDARD | LOWER | UPPER | SAMPLE | %DIFF |
| 46 Bromochloromethan | 16.13 | 15.80 | 16.46 | 16.16 | 0.19 |
| 58 1,4-Difluorobenze | 17.59 | 17.26 | 17.92 | 17.59 | 0.00 |
| 75 Chlorobenzene-d5 | 22.93 | 22.60 | 23.26 | 22.93 | 0.00 |

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Data File: /chem/msde.i/10Mar2012.b/e031002.d

Date : 10-MAR-2012 10:33

Client ID: Level 5

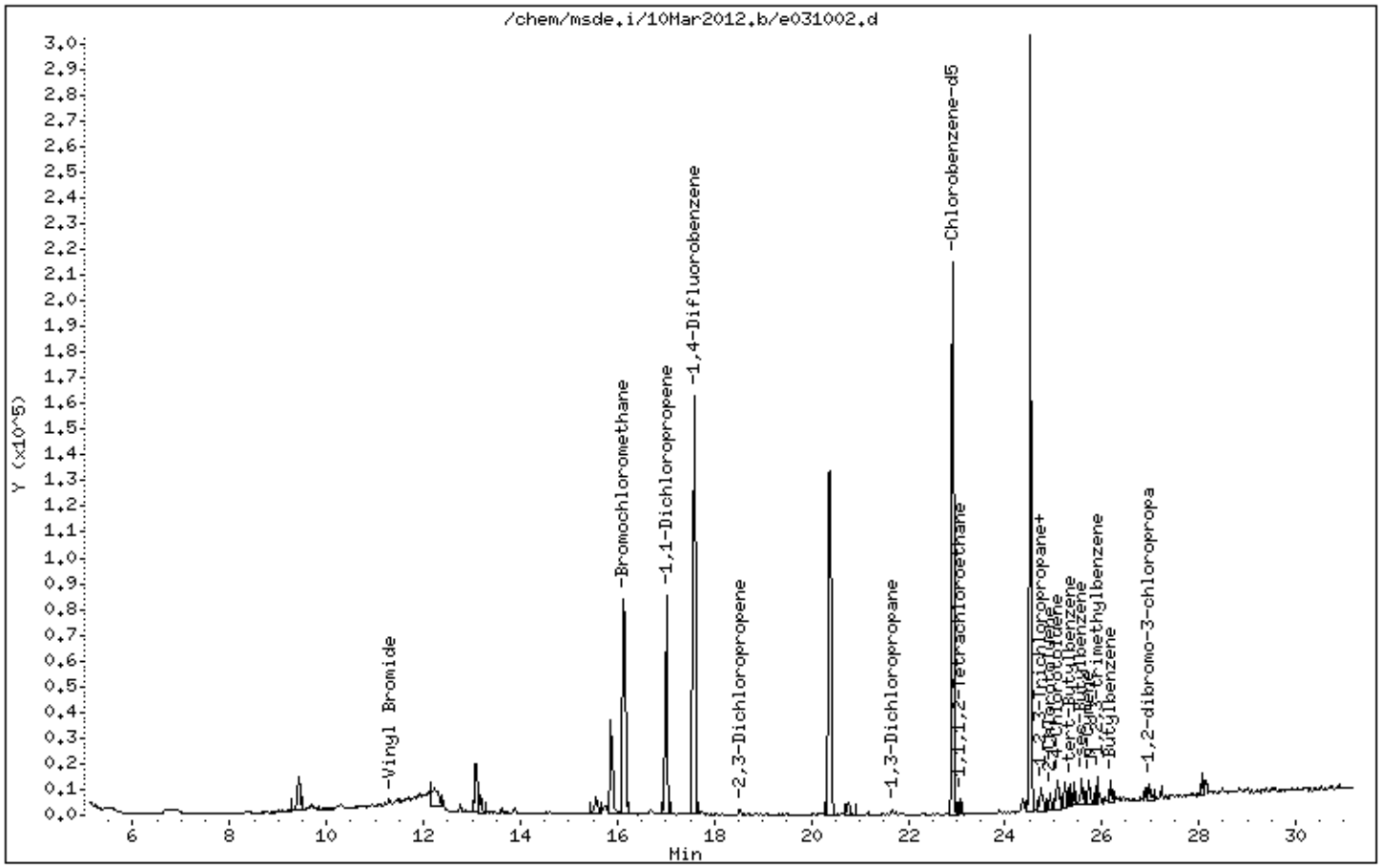
Instrument: msde.i

Sample Info: 250mL #2403-8

Operator: cr

Column phase: RTx-624

Column diameter: 0.32



Air Toxics Ltd.

EPA TO-15/Modified TO14A

Data file : /chem/msde.i/08Mar2012.b/e030811.d
Lab Smp Id: ICAL Client Smp ID: Level 5
Inj Date : 08-MAR-2012 18:33
Operator : srs Inst ID: msde.i
Smp Info : 12.5mL #2403-57
Misc Info : 0.1ppbv (2.0ppbv)
Comment : Low-Level/GC-MS
Method : /chem/msde.i/08Mar2012.b/e12l0308a.m
Meth Date : 13-Mar-2012 09:29 croush Quant Type: ISTD
Cal Date : 08-MAR-2012 18:33 Cal File: e030811.d
Als bottle: 8 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: Level#1.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

| Name | Value | Description |
|---|---|---|
| DF | 1.00000 | Dilution Factor |

| | | | | AMOUNTS | | | | |
|---|---|---|---|---|---|---|---|---|
| | | | | CAL-AMT | ON-COL | | | |
| RT | EXP RT (REL RT) | MASS | RESPONSE | ( PPBV) | ( PPBV) | TARGET RANGE | | RATIO |
| == | ====== ======== | ==== | ======== | ======= | ======= | ========== | | ===== |
| * 46 Bromochloromethane | | | | | | CAS #: 74-97-5 | | |
| 16.128 | 16.128 (1.000) | 130 | 66469 | 5.00000 | | 70.00- 130.00 | | 100.00 |
| 16.128 | 16.128 (1.000) | 128 | 49511 | | | 0.00- 30.00 | | 74.49 |
| 16.128 | 16.128 (1.000) | 49 | 61695 | | | 0.00- 30.00 | | 92.82 |
| * 58 1,4-Difluorobenzene | | | | | | CAS #: 540-36-3 | | |
| 17.586 | 17.586 (1.000) | 114 | 245823 | 5.00000 | | 70.00- 130.00 | | 100.00 |
| 17.586 | 17.586 (1.000) | 88 | 44221 | | | 0.00- 30.00 | | 17.99 |
| * 75 Chlorobenzene-d5 | | | | | | CAS #: 3114-55-4 | | |
| 22.927 | 22.927 (1.000) | 117 | 216549 | 5.00000 | | 70.00- 130.00 | | 100.00 |
| 22.927 | 22.927 (1.000) | 82 | 144630 | | | 0.00- 30.00 | | 66.79 |
| $ 54 1,2-Dichloroethane-d4 | | | | | | CAS #: 17060-07-0 | | |
| 17.013 | 17.013 (1.055) | 65 | 122139 | 5.00000 | 4.931 | 70.00- 130.00 | | 100.00 |
| 17.013 | 17.013 (1.055) | 67 | 59755 | | | 0.00- 30.00 | | 48.92 |

| RT | EXP RT (REL RT) | MASS | RESPONSE | AMOUNTS CAL-AMT ( PPBV) | ON-COL ( PPBV) | TARGET RANGE | RATIO |
|---|---|---|---|---|---|---|---|
| $ 67 Toluene-d8 | | | | | CAS #: 2037-26-5 | | |
| 20.368 | 20.368 (1.158) | 98 | 245765 | 5.00000 | 4.964 | 70.00- 130.00 | 100.00 |
| 20.368 | 20.368 (1.158) | 70 | 30326 | | | 0.00- 30.00 | 12.34 |
| 20.368 | 20.368 (1.158) | 100 | 156326 | | | 33.91- 93.91 | 63.61 |
| $ 87 Bromofluorobenzene | | | | | CAS #: 460-00-4 | | |
| 24.526 | 24.526 (1.070) | 174 | 122965 | 5.00000 | 4.964 | 70.00- 130.00 | 100.00 |
| 24.526 | 24.526 (1.070) | 95 | 196468 | | | 125.57- 185.57 | 159.78 |
| 24.526 | 24.526 (1.070) | 176 | 119728 | | | 64.73- 124.73 | 97.37 |
| 4 Dichlorodifluoromethane/Fr12 | | | | | CAS #: 75-71-8 | | |
| 5.931 | 5.931 (0.368) | 85 | 8726 | 0.10000 | 0.1123 | 70.00- 130.00 | 100.00 |
| 5.955 | 5.955 (0.369) | 87 | 2243 | | | 2.22- 62.22 | 25.70 |
| 6 Freon 114 | | | | | CAS #: 76-14-2 | | |
| 7.329 | 7.329 (0.454) | 135 | 4502 | 0.10000 | 0.1114 | 70.00- 130.00 | 100.00 |
| 7.305 | 7.305 (0.453) | 137 | 623 | | | 0.00- 30.00 | 13.84 |
| 7 Chloromethane | | | | | CAS #: 74-87-3 | | |
| 7.691 | 7.691 (0.477) | 50 | 1067 | 0.10000 | 0.09294 | 70.00- 130.00 | 100.00(Ta) |
| 0.000 | 1.000 (0.000) | 52 | 0 | | | 0.00- 30.00 | 0.00 |
| 10 Vinyl Chloride | | | | | CAS #: 75-01-4 | | |
| 8.526 | 8.526 (0.529) | 62 | 2048 | 0.10000 | 0.1130 | 70.00- 130.00 | 100.00 |
| 8.526 | 8.526 (0.529) | 64 | 348 | | | 2.55- 62.55 | 16.99 |
| 11 1,3-Butadiene | | | | | CAS #: 106-99-0 | | |
| 8.769 | 8.769 (0.544) | 54 | 1193 | 0.10000 | 0.1048 | 70.00- 130.00 | 100.00 |
| 8.769 | 8.769 (0.544) | 39 | 1398 | | | 0.00- 30.00 | 117.18 |
| 12 Bromomethane | | | | | CAS #: 74-83-9 | | |
| 10.272 | 10.272 (0.637) | 94 | 2304 | 0.10000 | 0.1150 | 70.00- 130.00 | 100.00 |
| 10.251 | 10.251 (0.636) | 96 | 2750 | | | 65.25- 125.25 | 119.36 |
| 16 Trichlorofluoromethane/Fr11 | | | | | CAS #: 75-69-4 | | |
| 11.495 | 11.495 (0.713) | 101 | 9669 | 0.10000 | 0.1180 | 70.00- 130.00 | 100.00 |
| 11.495 | 11.495 (0.713) | 103 | 6071 | | | 36.02- 96.02 | 62.79 |
| 19 Freon 113 | | | | | CAS #: 76-13-1 | | |
| 12.801 | 12.801 (0.794) | 151 | 3954 | 0.10000 | 0.1141 | 70.00- 130.00 | 100.00 |
| 12.780 | 12.780 (0.792) | 153 | 2435 | | | 34.27- 94.27 | 61.58 |
| 12.801 | 12.801 (0.794) | 101 | 5245 | | | 0.00- 30.00 | 132.65 |
| 21 1,1-Dichloroethene | | | | | CAS #: 75-35-4 | | |
| 12.821 | 12.821 (0.795) | 98 | 1246 | 0.10000 | 0.1058 | 70.00- 130.00 | 100.00 |
| 12.821 | 12.821 (0.795) | 61 | 3162 | | | 0.00- 30.00 | 253.77 |

| RT | EXP RT (REL RT) | MASS | RESPONSE | AMOUNTS CAL-AMT ( PPBV) | ON-COL ( PPBV) | TARGET RANGE | RATIO |
|---|---|---|---|---|---|---|---|
| 21 1,1-Dichloroethene (continued) | | | | | | | |
| 12.821 | 12.821 (0.795) | 96 | 2247 | | | 0.00- 30.00 | 180.34 |
| 29 Methylene Chloride | | | | | CAS #: 75-09-2 | | |
| 13.885 | 13.885 (0.861) | 84 | 1405 | 0.10000 | 0.1515 | 70.00- 130.00 | 100.00(M) |
| 13.885 | 13.885 (0.861) | 49 | 0 | | | 0.00- 30.00 | 0.00 |
| 13.885 | 13.885 (0.861) | 51 | 0 | | | 0.00- 30.00 | 0.00 |
| 31 MTBE | | | | | CAS #: 1634-04-4 | | |
| 14.187 | 14.187 (0.880) | 73 | 5188 | 0.10000 | 0.08685 | 70.00- 130.00 | 100.00(a) |
| 14.187 | 14.187 (0.880) | 57 | 841 | | | 0.00- 30.00 | 16.21 |
| 14.187 | 14.187 (0.880) | 41 | 991 | | | 0.00- 30.00 | 19.10 |
| 32 trans-1,2-Dichloroethene | | | | | CAS #: 156-60-5 | | |
| 14.242 | 14.242 (0.883) | 98 | 1350 | 0.10000 | 0.1070 | 70.00- 130.00 | 100.00 |
| 14.242 | 14.242 (0.883) | 61 | 2864 | | | 0.00- 30.00 | 212.15 |
| 14.242 | 14.242 (0.883) | 96 | 2092 | | | 0.00- 30.00 | 154.96 |
| 35 Hexane | | | | | CAS #: 110-54-3 | | |
| 14.517 | 14.517 (0.900) | 57 | 1678 | 0.10000 | 0.07748 | 70.00- 130.00 | 100.00(Ta) |
| 14.544 | 14.544 (0.902) | 43 | 922 | | | 0.00- 30.00 | 54.95 |
| 0.000 | 1.000 (0.000) | 86 | 0 | | | 0.00- 30.00 | 0.00 |
| 37 1,1-Dichloroethane | | | | | CAS #: 75-34-3 | | |
| 14.956 | 14.956 (0.927) | 63 | 3587 | 0.10000 | 0.1006 | 70.00- 130.00 | 100.00 |
| 14.956 | 14.956 (0.927) | 65 | 1233 | | | 0.00- 30.00 | 34.37 |
| 41 cis-1,2-Dichloroethene | | | | | CAS #: 156-59-2 | | |
| 15.787 | 15.787 (0.979) | 98 | 1356 | 0.10000 | 0.07147 | 70.00- 130.00 | 100.00(a) |
| 15.787 | 15.787 (0.979) | 61 | 4328 | | | 0.00- 30.00 | 319.17 |
| 15.787 | 15.787 (0.979) | 96 | 3335 | | | 124.52- 184.52 | 245.94 |
| 47 Chloroform | | | | | CAS #: 67-66-3 | | |
| 16.189 | 16.189 (1.004) | 83 | 6249 | 0.10000 | 0.1144 | 70.00- 130.00 | 100.00 |
| 16.189 | 16.189 (1.004) | 85 | 3782 | | | 0.00- 30.00 | 60.52 |
| 49 1,1,1-Trichloroethane | | | | | CAS #: 71-55-6 | | |
| 16.467 | 16.467 (1.021) | 97 | 6637 | 0.10000 | 0.1064 | 70.00- 130.00 | 100.00 |
| 16.467 | 16.467 (1.021) | 99 | 4862 | | | 0.00- 30.00 | 73.26 |
| 48 Cyclohexane | | | | | CAS #: 110-82-7 | | |
| 16.467 | 16.467 (1.021) | 84 | 2663 | 0.10000 | 0.09135 | 70.00- 130.00 | 100.00(a) |
| 16.467 | 16.467 (1.021) | 56 | 1697 | | | 0.00- 30.00 | 63.73 |
| 16.467 | 16.467 (1.021) | 41 | 1004 | | | 0.00- 30.00 | 37.70 |
| 51 Carbon Tetrachloride | | | | | CAS #: 56-23-5 | | |
| 16.652 | 16.652 (1.032) | 119 | 3186 | 0.10000 | 0.06825 | 70.00- 130.00 | 100.00(a) |

| RT | EXP RT (REL RT) | MASS | RESPONSE | AMOUNTS CAL-AMT ( PPBV) | ON-COL ( PPBV) | TARGET RANGE | RATIO |
|---|---|---|---|---|---|---|---|
| 51 Carbon Tetrachloride (continued) | | | | | | | |
| 16.652 | 16.652 (1.032) | 117 | 3006 | | | 0.00- 30.00 | 94.35 |
| 52 2,2,4-Trimethylpentane | | | | | CAS #: 540-84-1 | | |
| 16.926 | 16.926 (1.049) | 56 | 3993 | 0.10000 | 0.1196 | 70.00- 130.00 | 100.00 |
| 16.926 | 16.926 (1.049) | 57 | 9170 | | | 0.00- 30.00 | 229.65 |
| 16.926 | 16.926 (1.049) | 41 | 2846 | | | 0.00- 30.00 | 71.27 |
| 53 Benzene | | | | | CAS #: 71-43-2 | | |
| 17.013 | 17.013 (0.967) | 78 | 7206 | 0.10000 | 0.1143 | 70.00- 130.00 | 100.00 |
| 17.013 | 17.013 (0.967) | 77 | 1874 | | | 0.00- 30.00 | 26.01 |
| 56 1,2-Dichloroethane | | | | | CAS #: 107-06-2 | | |
| 17.130 | 17.130 (0.974) | 62 | 4448 | 0.10000 | 0.1251 | 70.00- 130.00 | 100.00 |
| 17.130 | 17.130 (0.974) | 64 | 1538 | | | 0.00- 30.00 | 34.58 |
| 57 Heptane | | | | | CAS #: 142-82-5 | | |
| 17.159 | 17.159 (0.976) | 57 | 725 | 0.10000 | 0.05562 | 70.00- 130.00 | 100.00(a) |
| 17.159 | 17.159 (0.976) | 100 | 660 | | | 0.00- 30.00 | 91.03 |
| 17.159 | 17.159 (0.976) | 43 | 1921 | | | 0.00- 30.00 | 264.97 |
| 59 Trichloroethene | | | | | CAS #: 79-01-6 | | |
| 18.025 | 18.025 (1.025) | 130 | 2817 | 0.10000 | 0.1011 | 70.00- 130.00 | 100.00 |
| 18.025 | 18.025 (1.025) | 95 | 3136 | | | 0.00- 30.00 | 111.32 |
| 18.025 | 18.025 (1.025) | 97 | 2201 | | | 0.00- 30.00 | 78.13 |
| 61 1,2-Dichloropropane | | | | | CAS #: 78-87-5 | | |
| 18.519 | 18.519 (1.053) | 63 | 2398 | 0.10000 | 0.1237 | 70.00- 130.00 | 100.00 |
| 18.519 | 18.519 (1.053) | 62 | 1332 | | | 0.00- 30.00 | 55.55 |
| 18.519 | 18.519 (1.053) | 41 | 939 | | | 29.06- 89.06 | 39.16 |
| 62 1,4-Dioxane | | | | | CAS #: 123-91-1 | | |
| 18.629 | 18.629 (1.059) | 88 | 950 | 0.10000 | 0.06871 | 70.00- 130.00 | 100.00(Ta) |
| 0.000 | 1.000 (0.000) | 58 | 0 | | | 0.00- 30.00 | 0.00 |
| 0.000 | 1.000 (0.000) | 57 | 0 | | | 0.00- 30.00 | 0.00 |
| 63 Bromodichloromethane | | | | | CAS #: 75-27-4 | | |
| 18.959 | 18.959 (1.078) | 83 | 5323 | 0.10000 | 0.09829 | 70.00- 130.00 | 100.00(a) |
| 18.959 | 18.959 (1.078) | 85 | 3399 | | | 0.00- 30.00 | 63.85 |
| 64 cis-1,3-Dichloropropene | | | | | CAS #: 10061-01-5 | | |
| 19.865 | 19.865 (1.130) | 75 | 3401 | 0.10000 | 0.1014 | 70.00- 130.00 | 100.00 |
| 19.865 | 19.865 (1.130) | 77 | 1317 | | | 0.00- 30.00 | 38.72 |
| 19.865 | 19.865 (1.130) | 39 | 1206 | | | 10.38- 70.38 | 35.46 |
| 65 4-Methyl-2-pentanone | | | | | CAS #: 108-10-1 | | |
| 20.077 | 20.077 (1.142) | 43 | 1531 | 0.10000 | 0.06110 | 70.00- 130.00 | 100.00(Ta) |

| RT | EXP RT (REL RT) | MASS | RESPONSE | AMOUNTS CAL-AMT ( PPBV) | ON-COL ( PPBV) | TARGET RANGE | RATIO |
|---|---|---|---|---|---|---|---|
| 65 4-Methyl-2-pentanone (continued) | | | | | | | |
| 20.077 | 20.077 (1.142) | 58 | 588 | | | 0.00- 30.00 | 38.41 |
| 0.000 | 1.000 (0.000) | 85 | 0 | | | 0.00- 30.00 | 0.00 |
| 68 Toluene | | | | | CAS #: 108-88-3 | | |
| 20.525 | 20.525 (1.167) | 91 | 9139 | 0.10000 | 0.1214 | 70.00- 130.00 | 100.00 |
| 20.502 | 20.502 (1.166) | 92 | 4921 | | | 0.00- 30.00 | 53.85 |
| 69 trans-1,3-Dichloropropene | | | | | CAS #: 10061-02-6 | | |
| 20.995 | 20.995 (0.916) | 75 | 2979 | 0.10000 | 0.06415 | 70.00- 130.00 | 100.00(a) |
| 20.995 | 20.995 (0.916) | 77 | 1255 | | | 0.00- 30.00 | 42.13 |
| 20.995 | 20.995 (0.916) | 39 | 950 | | | 4.84- 64.84 | 31.89 |
| 70 1,1,2-Trichloroethane | | | | | CAS #: 79-00-5 | | |
| 21.335 | 21.335 (0.931) | 97 | 2832 | 0.10000 | 0.1012 | 70.00- 130.00 | 100.00 |
| 21.335 | 21.335 (0.931) | 99 | 1552 | | | 0.00- 30.00 | 54.80 |
| 21.335 | 21.335 (0.931) | 83 | 2338 | | | 52.76- 112.76 | 82.56 |
| 71 Tetrachloroethene | | | | | CAS #: 127-18-4 | | |
| 21.497 | 21.497 (0.938) | 166 | 3043 | 0.10000 | 0.09370 | 70.00- 130.00 | 100.00(a) |
| 21.497 | 21.497 (0.938) | 129 | 2972 | | | 0.00- 30.00 | 97.67 |
| 21.497 | 21.497 (0.938) | 131 | 2818 | | | 0.00- 30.00 | 92.61 |
| 73 Dibromochloromethane | | | | | CAS #: 124-48-1 | | |
| 22.018 | 22.018 (0.960) | 129 | 4465 | 0.10000 | 0.09380 | 70.00- 130.00 | 100.00(a) |
| 22.018 | 22.018 (0.960) | 127 | 3123 | | | 0.00- 30.00 | 69.94 |
| 74 1,2-Dibromoethane | | | | | CAS #: 106-93-4 | | |
| 22.278 | 22.278 (0.972) | 107 | 4196 | 0.10000 | 0.09778 | 70.00- 130.00 | 100.00(a) |
| 22.278 | 22.278 (0.972) | 109 | 3727 | | | 0.00- 30.00 | 88.82 |
| 76 Chlorobenzene | | | | | CAS #: 108-90-7 | | |
| 22.951 | 22.951 (1.001) | 112 | 7512 | 0.10000 | 0.1217 | 70.00- 130.00 | 100.00 |
| 22.951 | 22.951 (1.001) | 114 | 2266 | | | 0.00- 30.00 | 30.17 |
| 22.951 | 22.951 (1.001) | 77 | 7605 | | | 36.24- 96.24 | 101.24 |
| 77 Ethyl Benzene | | | | | CAS #: 100-41-4 | | |
| 23.023 | 23.023 (1.004) | 106 | 3045 | 0.10000 | 0.1010 | 70.00- 130.00 | 100.00 |
| 23.023 | 23.023 (1.004) | 91 | 10390 | | | 0.00- 30.00 | 341.22 |
| 80 m,p-Xylene | | | | | CAS #: 108-38-3 | | |
| 23.192 | 23.192 (1.012) | 106 | 3213 | 0.10000 | 0.08856 | 70.00- 130.00 | 100.00(a) |
| 23.192 | 23.192 (1.012) | 91 | 6783 | | | 0.00- 30.00 | 211.11 |
| 81 o-Xylene | | | | | CAS #: 95-47-6 | | |
| 23.770 | 23.770 (1.037) | 106 | 2913 | 0.10000 | 0.08352 | 70.00- 130.00 | 100.00(a) |

| RT | EXP RT (REL RT) | MASS | RESPONSE | AMOUNTS CAL-AMT ( PPBV) | ON-COL ( PPBV) | TARGET RANGE | RATIO |
|---|---|---|---|---|---|---|---|
| 81 o-Xylene (continued) | | | | | | | |
| 23.770 | 23.770 (1.037) | 91 | 7051 | | | 0.00- 30.00 | 242.05 |
| 83 Styrene | | | | | CAS #: 100-42-5 | | |
| 23.818 | 23.818 (1.039) | 104 | 4549 | 0.10000 | 0.08640 | 70.00- 130.00 | 100.00(a) |
| 23.794 | 23.794 (1.038) | 78 | 2607 | | | 0.00- 30.00 | 57.31 |
| 84 Bromoform | | | | | CAS #: 75-25-2 | | |
| 24.132 | 24.132 (1.053) | 173 | 3514 | 0.10000 | 0.08538 | 70.00- 130.00 | 100.00(a) |
| 24.132 | 24.132 (1.053) | 171 | 2075 | | | 0.00- 30.00 | 59.05 |
| 85 Cumene | | | | | CAS #: 98-82-8 | | |
| 24.228 | 24.228 (1.057) | 105 | 9349 | 0.10000 | 0.08278 | 70.00- 130.00 | 100.00(a) |
| 24.228 | 24.228 (1.057) | 120 | 2194 | | | 0.00- 30.00 | 23.47 |
| 89 1,1,2,2-Tetrachloroethane | | | | | CAS #: 79-34-5 | | |
| 24.680 | 24.680 (1.076) | 83 | 6381 | 0.10000 | 0.1093 | 70.00- 130.00 | 100.00 |
| 24.680 | 24.680 (1.076) | 85 | 3966 | | | 0.00- 30.00 | 62.15 |
| 90 Propylbenzene | | | | | CAS #: 103-65-1 | | |
| 24.758 | 24.758 (1.080) | 91 | 13701 | 0.10000 | 0.09472 | 70.00- 130.00 | 100.00(a) |
| 24.758 | 24.758 (1.080) | 120 | 2654 | | | 0.00- 30.00 | 19.37 |
| 92 4-Ethyltoluene | | | | | CAS #: 622-96-8 | | |
| 24.887 | 24.887 (1.085) | 105 | 11258 | 0.10000 | 0.09064 | 70.00- 130.00 | 100.00(a) |
| 24.887 | 24.887 (1.085) | 120 | 2647 | | | 0.00- 30.00 | 23.51 |
| 94 1,3,5-Trimethylbenzene | | | | | CAS #: 108-67-8 | | |
| 24.938 | 24.938 (1.088) | 105 | 9227 | 0.10000 | 0.08630 | 70.00- 130.00 | 100.00(a) |
| 24.938 | 24.938 (1.088) | 120 | 3946 | | | 0.00- 30.00 | 42.77 |
| 98 1,2,4-Trimethylbenzene | | | | | CAS #: 95-63-6 | | |
| 25.410 | 25.410 (1.108) | 105 | 7651 | 0.10000 | 0.08129 | 70.00- 130.00 | 100.00(a) |
| 25.410 | 25.410 (1.108) | 120 | 3293 | | | 0.00- 30.00 | 43.04 |
| 101 1,3-Dichlorobenzene | | | | | CAS #: 541-73-1 | | |
| 25.791 | 25.791 (1.125) | 146 | 7105 | 0.10000 | 0.1191 | 70.00- 130.00 | 100.00 |
| 25.791 | 25.791 (1.125) | 148 | 3706 | | | 0.00- 30.00 | 52.16 |
| 25.791 | 25.791 (1.125) | 111 | 3319 | | | 0.00- 30.00 | 46.71 |
| 104 1,4-Dichlorobenzene | | | | | CAS #: 106-46-7 | | |
| 25.903 | 25.903 (1.130) | 146 | 6497 | 0.10000 | 0.1088 | 70.00- 130.00 | 100.00 |
| 25.903 | 25.903 (1.130) | 148 | 4143 | | | 0.00- 30.00 | 63.77 |
| 25.903 | 25.903 (1.130) | 111 | 2902 | | | 0.00- 30.00 | 44.67 |
| 105 alpha-chlorotoluene | | | | | CAS #: 100-44-7 | | |
| 26.060 | 26.060 (1.137) | 91 | 8295 | 0.10000 | 0.09123 | 70.00- 130.00 | 100.00(a) |

| RT | EXP RT (REL RT) | MASS | RESPONSE | AMOUNTS CAL-AMT ( PPBV) | ON-COL ( PPBV) | TARGET RANGE | RATIO |
|---|---|---|---|---|---|---|---|
| 105 alpha-chlorotoluene (continued) | | | | | | | |
| 26.060 | 26.060 (1.137) | 126 | 1186 | | | 0.00- 30.00 | 14.30 |
| 108 1,2-Dichlorobenzene | | | | | CAS #: 95-50-1 | | |
| 26.352 | 26.352 (1.149) | 146 | 6216 | 0.10000 | 0.1098 | 70.00- 130.00 | 100.00 |
| 26.352 | 26.352 (1.149) | 148 | 4484 | | | 34.07- 94.07 | 72.14 |
| 26.352 | 26.352 (1.149) | 111 | 3020 | | | 19.87- 79.87 | 48.58 |

QC Flag Legend

T - Target compound detected outside RT window.
a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.

Report Date: 13-Mar-2012 09:29

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msde.i
Lab File ID: e030811.d
Lab Smp Id: ICAL
Analysis Type: VOA
Quant Type: ISTD
Operator: srs
Method File: /chem/msde.i/08Mar2012.b/e12l0308a.m
Misc Info: 0.1ppbv (2.0ppbv)

Calibration Date: 08-MAR-2012
Calibration Time: 22:56
Client Smp ID: Level 5
Level: LOW
Sample Type: AIR

| | | AREA LIMIT | | | |
|---|---|---|---|---|---|
| COMPOUND | STANDARD | LOWER | UPPER | SAMPLE | %DIFF |
| 46 Bromochloromethan | 73839 | 44303 | 103375 | 66469 | -9.98 |
| 58 1,4-Difluorobenze | 285440 | 171264 | 399616 | 245823 | -13.88 |
| 75 Chlorobenzene-d5 | 243451 | 146071 | 340831 | 216549 | -11.05 |

| | | RT LIMIT | | | |
|---|---|---|---|---|---|
| COMPOUND | STANDARD | LOWER | UPPER | SAMPLE | %DIFF |
| 46 Bromochloromethan | 16.13 | 15.80 | 16.46 | 16.13 | 0.00 |
| 58 1,4-Difluorobenze | 17.59 | 17.26 | 17.92 | 17.59 | 0.00 |
| 75 Chlorobenzene-d5 | 22.93 | 22.60 | 23.26 | 22.93 | 0.00 |

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Data File: /chem/msde.i/08Mar2012.b/e030811.d

Date : 08-MAR-2012 18:33

Client ID: Level 5

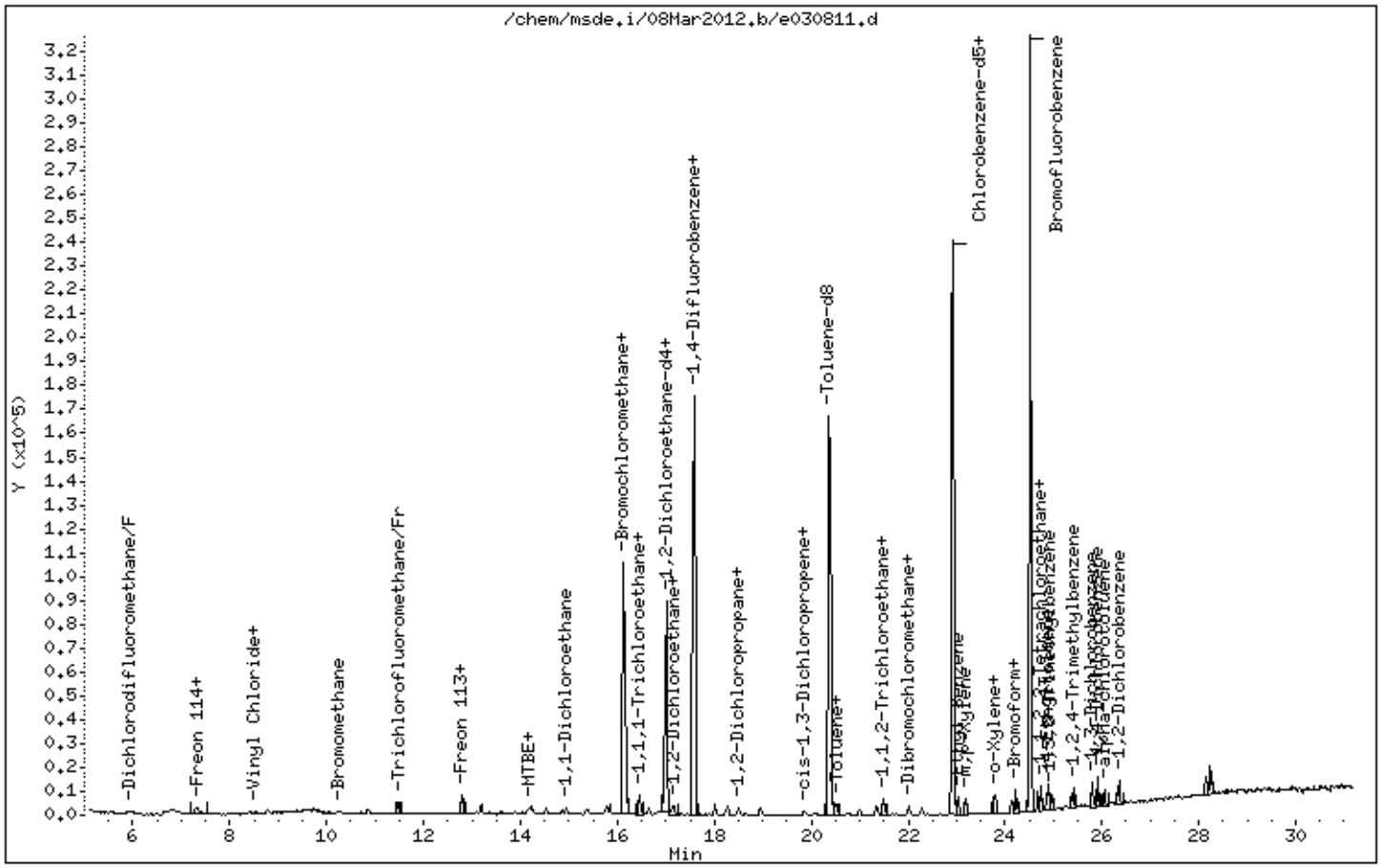
Instrument: msde.i

Sample Info: 12.5mL #2403-57

Operator: srs

Column phase: RTx-624

Column diameter: 0.32



Air Toxics Ltd.

EPA TO-15/Modified TO14A

Data file : /chem/msde.i/16Mar2012.b/e031606.d
Lab Smp Id: ICAL Client Smp ID: Level 6
Inj Date : 16-MAR-2012 10:46
Operator : ll Inst ID: msde.i
Smp Info : 25mL #2403-84
Misc Info : 0.5ppbv (5.0ppbv)
Comment : Low-Level/GC-MS
Method : /chem/msde.i/16Mar2012.b/e12l0308c.m
Meth Date : 17-Mar-2012 10:13 croush Quant Type: ISTD
Cal Date : 16-MAR-2012 10:46 Cal File: e031606.d
Als bottle: 8 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AT2.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

| Name | Value | Description |
|---|---|---|
| DF | 1.00000 | Dilution Factor |

| | | | | AMOUNTS | | | |
|---|---|---|---|---|---|---|---|
| | | | | CAL-AMT | ON-COL | | |
| RT | EXP RT (REL RT) | MASS | RESPONSE | ( PPBV) | ( PPBV) | TARGET RANGE | RATIO |
| == | ====== ======== | ==== | ======== | ======= | ======= | ========== | ===== |
| * 46 Bromochloromethane | | | | | | CAS #: 74-97-5 | |
| 16.127 | 16.127 (1.000) | 130 | 69907 | 5.00000 | | 70.00- 130.00 | 100.00 |
| 16.127 | 16.127 (1.000) | 128 | 54155 | | | 0.00- 30.00 | 77.47 |
| 16.127 | 16.127 (1.000) | 49 | 63671 | | | 0.00- 30.00 | 91.08 |
| * 58 1,4-Difluorobenzene | | | | | | CAS #: 540-36-3 | |
| 17.586 | 17.586 (1.000) | 114 | 269079 | 5.00000 | | 70.00- 130.00 | 100.00 |
| 17.586 | 17.586 (1.000) | 88 | 48186 | | | 0.00- 30.00 | 17.91 |
| * 75 Chlorobenzene-d5 | | | | | | CAS #: 3114-55-4 | |
| 22.927 | 22.927 (1.000) | 117 | 234221 | 5.00000 | | 70.00- 130.00 | 100.00 |
| 22.903 | 22.903 (1.000) | 82 | 222466 | | | 0.00- 30.00 | 94.98 |
| 190 1-Pentene | | | | | | CAS #: 109-67-1 | |
| 11.536 | 11.536 (0.715) | 55 | 7451 | 0.50000 | 0.5244 | 70.00- 130.00 | 100.00 |
| 11.536 | 11.536 (0.715) | 42 | 7132 | | | 0.00- 30.00 | 95.72 |

| RT | EXP RT (REL RT) | MASS | RESPONSE | AMOUNTS CAL-AMT ( PPBV) | ON-COL ( PPBV) | TARGET RANGE | RATIO |
|---|---|---|---|---|---|---|---|
| 27 Methyl Acetate | | | | | CAS #: 79-20-9 | | |
| 13.630 | 13.630 (0.845) | 43 | 13694 | 0.50000 | 0.5455 | 70.00- 130.00 | 100.00 |
| 13.650 | 13.650 (0.846) | 74 | 4717 | | | 0.00- 30.00 | 34.45 |
| 13.630 | 13.630 (0.845) | 59 | 1675 | | | 0.00- 30.00 | 12.23 |
| 191 Cyclopentane | | | | | CAS #: 287-92-3 | | |
| 13.795 | 13.795 (0.855) | 70 | 9239 | 0.50000 | 0.5051 | 70.00- 130.00 | 100.00 |
| 13.795 | 13.795 (0.855) | 55 | 8435 | | | 0.00- 30.00 | 91.30 |
| 28 Acetonitrile | | | | | CAS #: 75-05-8 | | |
| 13.713 | 13.713 (0.850) | 41 | 6376 | 0.50000 | 0.5714 | 70.00- 130.00 | 100.00 |
| 13.713 | 13.713 (0.850) | 40 | 3982 | | | 0.00- 30.00 | 62.45 |
| 13.713 | 13.713 (0.850) | 39 | 1366 | | | 0.00- 30.00 | 21.42 |
| 33 Acrylonitrile | | | | | CAS #: 107-13-1 | | |
| 14.352 | 14.352 (0.890) | 53 | 5984 | 0.50000 | 0.5030 | 70.00- 130.00 | 100.00(M) |
| 14.352 | 14.352 (0.890) | 52 | 4824 | | | 0.00- 30.00 | 80.61 |
| 192 1-Hexene | | | | | CAS #: 592-41-6 | | |
| 14.434 | 14.434 (0.895) | 55 | 5304 | 0.50000 | 0.4718 | 70.00- 130.00 | 100.00 |
| 14.434 | 14.434 (0.895) | 41 | 6895 | | | 0.00- 30.00 | 130.00 |
| 14.434 | 14.434 (0.895) | 84 | 3627 | | | 0.00- 30.00 | 68.38 |
| 39 Chlorprene | | | | | CAS #: 126-99-8 | | |
| 15.011 | 15.011 (0.931) | 53 | 10499 | 0.50000 | 0.4467 | 70.00- 130.00 | 100.00 |
| 15.011 | 15.011 (0.931) | 88 | 7494 | | | 0.00- 30.00 | 71.38 |
| 193 Methyl Acrylate | | | | | CAS #: 96-33-3 | | |
| 15.849 | 15.849 (0.983) | 55 | 18970 | 0.50000 | 0.4948 | 70.00- 130.00 | 100.00 |
| 15.849 | 15.849 (0.983) | 85 | 3572 | | | 0.00- 30.00 | 18.83 |
| 15.849 | 15.849 (0.983) | 58 | 1405 | | | 0.00- 30.00 | 7.41 |
| 194 Ethyl Acrylate | | | | | CAS #: 140-88-5 | | |
| 18.052 | 18.052 (1.119) | 99 | 1698 | 0.50000 | 0.4657 | 70.00- 130.00 | 100.00 |
| 18.052 | 18.052 (1.119) | 45 | 1331 | | | 0.00- 30.00 | 78.39 |
| 18.052 | 18.052 (1.119) | 55 | 16504 | | | 0.00- 30.00 | 971.97 |
| 95 Dibromomethane | | | | | CAS #: 74-95-3 | | |
| 18.739 | 18.739 (1.066) | 174 | 15475 | 0.50000 | 0.5242 | 70.00- 130.00 | 100.00 |
| 18.739 | 18.739 (1.066) | 93 | 19689 | | | 0.00- 30.00 | 127.23 |
| 18.739 | 18.739 (1.066) | 95 | 15353 | | | 0.00- 30.00 | 99.21 |
| 195 trans-1,4-dichloro-2-butene | | | | | CAS #: 110-57-6 | | |
| 24.758 | 24.758 (1.080) | 89 | 6911 | 0.50000 | 0.4684 | 70.00- 130.00 | 100.00 |
| 24.758 | 24.758 (1.080) | 75 | 12217 | | | 0.00- 30.00 | 176.78 |
| 24.758 | 24.758 (1.080) | 53 | 8701 | | | 0.00- 30.00 | 125.90 |

| RT | EXP RT (REL RT) | MASS | RESPONSE | AMOUNTS CAL-AMT ( PPBV) | ON-COL ( PPBV) | TARGET RANGE | RATIO |
|---|---|---|---|---|---|---|---|
| 109 Hexachloroethane | | | | | CAS #: 67-72-1 | | |
| 26.598 | 26.598 (1.160) | 201 | 14912 | 0.50000 | 0.5191 | 70.00- 130.00 | 100.00 |
| 26.598 | 26.598 (1.160) | 117 | 22902 | | | 0.00- 30.00 | 153.58 |
| 26.598 | 26.598 (1.160) | 166 | 13696 | | | 0.00- 30.00 | 91.85 |
| 111 1,3,5-Trichlorobenzene | | | | | CAS #: 108-70-3 | | |
| 27.383 | 27.383 (1.194) | 180 | 20426 | 0.50000 | 0.5026 | 70.00- 130.00 | 100.00 |
| 27.383 | 27.383 (1.194) | 182 | 20467 | | | 0.00- 30.00 | 100.20 |

QC Flag Legend

M - Compound response manually integrated.

Report Date: 17-Mar-2012 10:13

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msde.i
Lab File ID: e031606.d
Lab Smp Id: ICAL
Analysis Type: VOA
Quant Type: ISTD
Operator: ll
Method File: /chem/msde.i/16Mar2012.b/e12l0308c.m
Misc Info: 0.5ppbv (5.0ppbv)

Calibration Date: 16-MAR-2012
Calibration Time: 09:58
Client Smp ID: Level 6
Level: LOW
Sample Type: AIR

| | | AREA LIMIT | | | |
|---|---|---|---|---|---|
| COMPOUND | STANDARD | LOWER | UPPER | SAMPLE | %DIFF |
| 46 Bromochloromethan | 75867 | 45520 | 106214 | 69907 | -7.86 |
| 58 1,4-Difluorobenze | 297952 | 178771 | 417133 | 269079 | -9.69 |
| 75 Chlorobenzene-d5 | 256527 | 153916 | 359138 | 234221 | -8.70 |

| | | RT LIMIT | | | |
|---|---|---|---|---|---|
| COMPOUND | STANDARD | LOWER | UPPER | SAMPLE | %DIFF |
| 46 Bromochloromethan | 16.13 | 15.80 | 16.46 | 16.13 | 0.00 |
| 58 1,4-Difluorobenze | 17.59 | 17.26 | 17.92 | 17.59 | 0.00 |
| 75 Chlorobenzene-d5 | 22.93 | 22.60 | 23.26 | 22.93 | 0.00 |

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Data File: /chem/msde.i/16Mar2012.b/e031606.d

Date : 16-MAR-2012 10:46

Client ID: Level 6

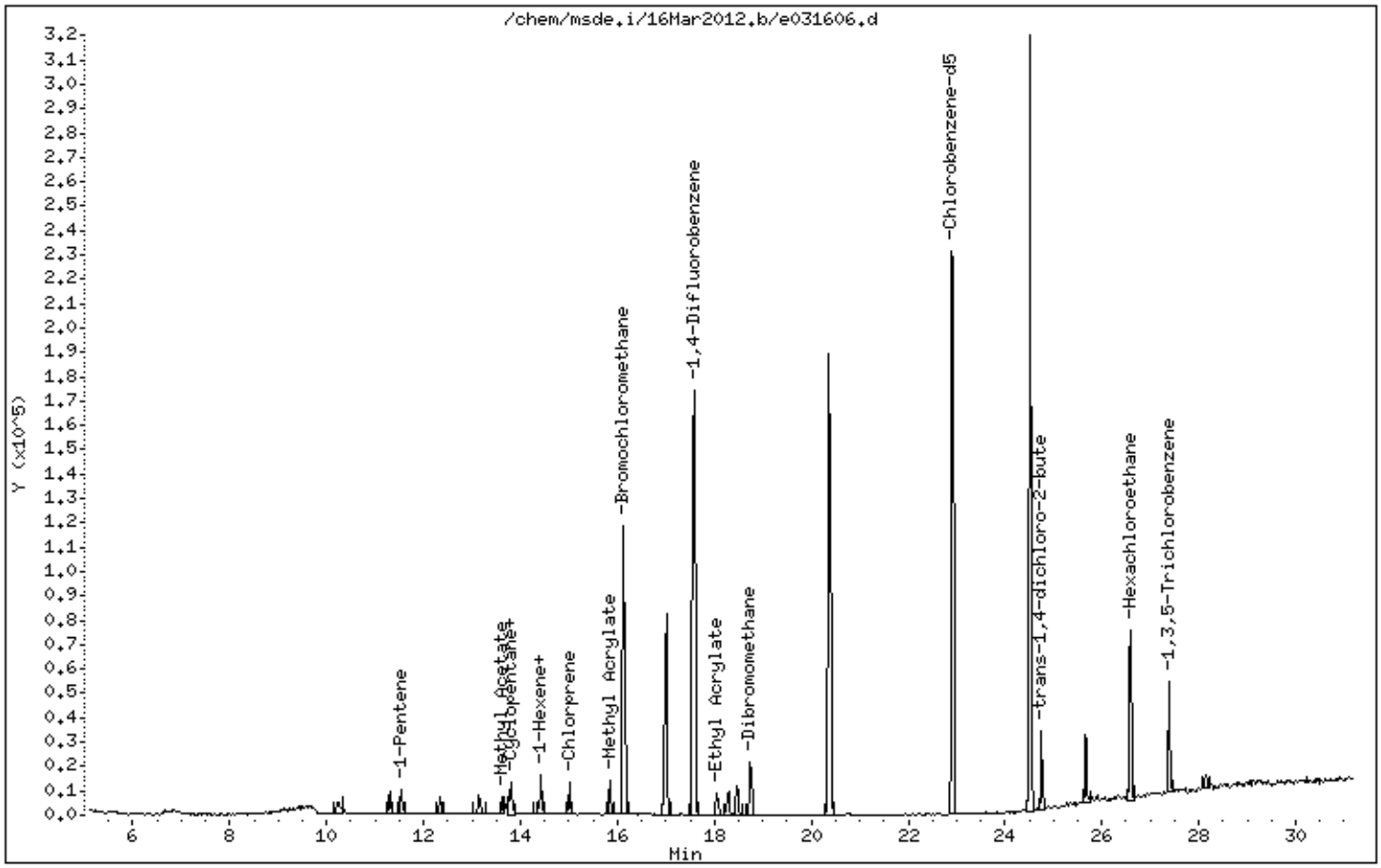
Instrument: msde.i

Sample Info: 25mL #2403-84

Operator: ll

Column phase: RTx-624

Column diameter: 0.32



Air Toxics Ltd.

EPA TO-15/Modified TO14A

Data file : /chem/msde.i/10Mar2012.b/e031012.d
Lab Smp Id: ICAL Client Smp ID: Level 6
Inj Date : 10-MAR-2012 17:49
Operator : LL Inst ID: msde.i
Smp Info : 62.5mL #2370-131
Misc Info : 0.5ppbv (5.0ppbv) -- TVH
Comment : Low-Level/GC-MS
Method : /chem/msde.i/10Mar2012.b/e12l0308b.m
Meth Date : 12-Mar-2012 07:12 croush Quant Type: ISTD
Cal Date : 10-MAR-2012 17:49 Cal File: e031012.d
Als bottle: 4 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: BP.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

| Name | Value | Description |
|---|---|---|
| DF | 1.00000 | Dilution Factor |

| RT | EXP RT (REL RT) | MASS | RESPONSE | AMOUNTS CAL-AMT ( PPBV) | AMOUNTS ON-COL ( PPBV) | TARGET RANGE | RATIO |
|---|---|---|---|---|---|---|---|
| * 46 Bromochloromethane | | | | | CAS #: 74-97-5 | | |
| 16.127 | 16.127 (1.000) | 130 | 46323 | 5.00000 | | 70.00- 130.00 | 100.00 |
| 16.127 | 16.127 (1.000) | 128 | 36623 | | | 0.00- 30.00 | 79.06 |
| 16.127 | 16.127 (1.000) | 49 | 43732 | | | 0.00- 30.00 | 94.41 |
| * 58 1,4-Difluorobenzene | | | | | CAS #: 540-36-3 | | |
| 17.585 | 17.585 (1.000) | 114 | 168692 | 5.00000 | | 70.00- 130.00 | 100.00 |
| 17.585 | 17.585 (1.000) | 88 | 30918 | | | 0.00- 30.00 | 18.33 |
| * 75 Chlorobenzene-d5 | | | | | CAS #: 3114-55-4 | | |
| 22.927 | 22.927 (1.000) | 117 | 147170 | 5.00000 | | 70.00- 130.00 | 100.00 |
| 22.927 | 22.927 (1.000) | 82 | 100340 | | | 0.00- 30.00 | 68.18 |
| 17 Pentane | | | | | CAS #: 109-66-0 | | |
| 11.681 | 11.681 (0.724) | 43 | 4591 | 0.50000 | 0.5183 | 70.00- 130.00 | 100.00 |
| 11.681 | 11.681 (0.724) | 57 | 654 | | | 0.00- 47.76 | 14.25 |
| 11.681 | 11.681 (0.724) | 72 | 956 | | | 0.00- 30.00 | 20.82 |

| RT | EXP RT (REL RT) | MASS | RESPONSE | AMOUNTS CAL-AMT ( PPBV) | ON-COL ( PPBV) | TARGET RANGE | RATIO |
|---|---|---|---|---|---|---|---|
| 66 Octane | | | | | CAS #: 111-65-9 | | |
| 20.412 | 20.412 (1.161) | 57 | 2944 | 0.50000 | 0.4804 | 70.00- 130.00 | 100.00(a) |
| 20.412 | 20.412 (1.161) | 85 | 4516 | | | 0.00- 30.00 | 153.40 |
| 20.412 | 20.412 (1.161) | 43 | 6379 | | | 161.52- 221.52 | 216.68 |
| 78 Nonane | | | | | CAS #: 111-84-2 | | |
| 23.023 | 23.023 (1.004) | 43 | 5413 | 0.50000 | 0.4972 | 70.00- 130.00 | 100.00(a) |
| 23.023 | 23.023 (1.004) | 57 | 5858 | | | 0.00- 30.00 | 108.22 |
| 23.023 | 23.023 (1.004) | 85 | 2662 | | | 0.00- 30.00 | 49.18 |
| 88 Decane | | | | | CAS #: 124-18-5 | | |
| 24.809 | 24.809 (1.082) | 57 | 7098 | 0.50000 | 0.4786 | 70.00- 130.00 | 100.00(Ta) |
| 24.809 | 24.809 (1.082) | 71 | 3285 | | | 0.00- 30.00 | 46.28 |
| 0.000 | 1.000 (0.000) | 142 | 0 | | | 0.00- 30.00 | 0.00 |
| 188 Undecane | | | | | CAS #: 1120-21-4 | | |
| 26.150 | 26.150 (1.141) | 57 | 5766 | 0.50000 | 0.4713 | 70.00- 130.00 | 100.00(a) |
| 26.150 | 26.150 (1.141) | 43 | 4099 | | | 0.00- 30.00 | 71.09 |
| 26.150 | 26.150 (1.141) | 85 | 2219 | | | 0.00- 30.00 | 38.48 |
| 189 Dodecane | | | | | CAS #: 112-40-3 | | |
| 27.293 | 27.293 (1.190) | 85 | 1691 | 0.50000 | 0.4564 | 70.00- 130.00 | 100.00(a) |
| 27.293 | 27.293 (1.190) | 57 | 3504 | | | 0.00- 30.00 | 207.21 |
| 27.293 | 27.293 (1.190) | 43 | 3094 | | | 0.00- 30.00 | 182.97 |

QC Flag Legend

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

Report Date: 12-Mar-2012 07:12

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msde.i
Lab File ID: e031012.d
Lab Smp Id: ICAL
Analysis Type: VOA
Quant Type: ISTD
Operator: LL
Method File: /chem/msde.i/10Mar2012.b/e12l0308b.m
Misc Info: 0.5ppbv (5.0ppbv) -- TVH

Calibration Date: 10-MAR-2012
Calibration Time: 18:30
Client Smp ID: Level 6
Level: LOW
Sample Type: AIR

| | | AREA LIMIT | | | |
|---|---|---|---|---|---|
| COMPOUND | STANDARD | LOWER | UPPER | SAMPLE | %DIFF |
| 46 Bromochloromethan | 47451 | 28471 | 66431 | 46323 | -2.38 |
| 58 1,4-Difluorobenze | 173946 | 104368 | 243524 | 168692 | -3.02 |
| 75 Chlorobenzene-d5 | 149007 | 89404 | 208610 | 147170 | -1.23 |

| | | RT LIMIT | | | |
|---|---|---|---|---|---|
| COMPOUND | STANDARD | LOWER | UPPER | SAMPLE | %DIFF |
| 46 Bromochloromethan | 16.13 | 15.80 | 16.46 | 16.13 | 0.00 |
| 58 1,4-Difluorobenze | 17.59 | 17.26 | 17.92 | 17.59 | 0.00 |
| 75 Chlorobenzene-d5 | 22.93 | 22.60 | 23.26 | 22.93 | 0.00 |

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Data File: /chem/msde.i/10Mar2012.b/e031012.d

Date : 10-MAR-2012 17:49

Client ID: Level 6

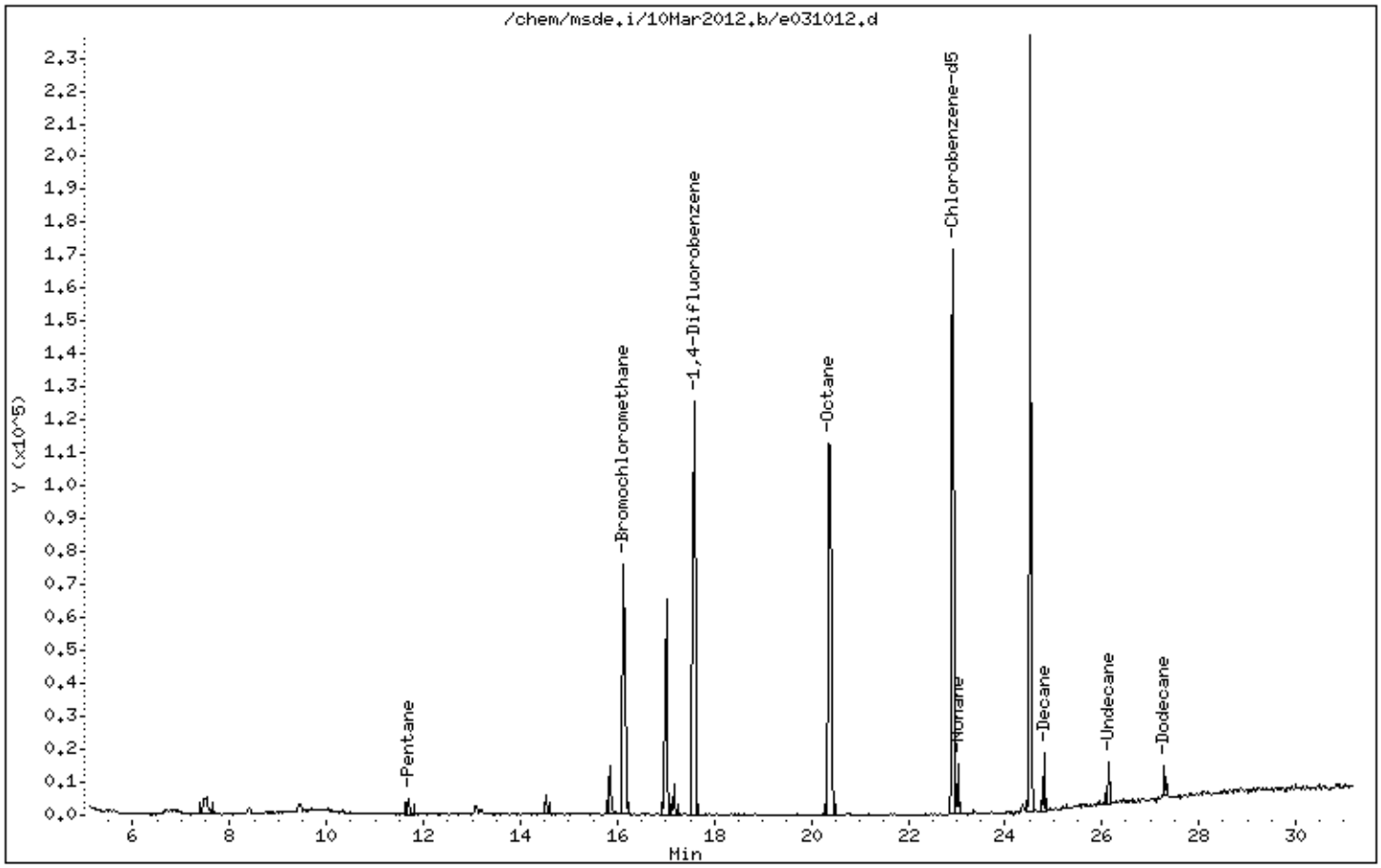
Instrument: msde.i

Sample Info: 62.5mL #2370-131

Operator: LL

Column phase: RTx-624

Column diameter: 0.32



Air Toxics Ltd.

EPA TO-15/Modified TO14A

Data file : /chem/msde.i/10Mar2012.b/e031009.d
Lab Smp Id: ICAL Client Smp ID: level 6
Inj Date : 10-MAR-2012 15:38
Operator : LL Inst ID: msde.i
Smp Info : 25mL #2403-72
Misc Info : 0.5ppbv (5.0ppbv) -- AT3
Comment : Low-Level/GC-MS
Method : /chem/msde.i/10Mar2012.b/e12l0308b.m
Meth Date : 12-Mar-2012 07:09 croush Quant Type: ISTD
Cal Date : 10-MAR-2012 15:38 Cal File: e031009.d
Als bottle: 4 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AT3.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

| Name | Value | Description |
|---|---|---|
| DF | 1.00000 | Dilution Factor |

| RT | EXP RT (REL RT) | MASS | RESPONSE | AMOUNTS CAL-AMT ( PPBV) | AMOUNTS ON-COL ( PPBV) | TARGET RANGE | RATIO |
|---|---|---|---|---|---|---|---|
| * 46 Bromochloromethane | | | | | CAS #: 74-97-5 | | |
| 16.127 | 16.127 (1.000) | 130 | 46976 | 5.00000 | | 70.00- 130.00 | 100.00 |
| 16.127 | 16.127 (1.000) | 128 | 37032 | | | 0.00- 30.00 | 78.83 |
| 16.127 | 16.127 (1.000) | 49 | 45123 | | | 0.00- 30.00 | 96.06 |
| * 58 1,4-Difluorobenzene | | | | | CAS #: 540-36-3 | | |
| 17.586 | 17.586 (1.000) | 114 | 179465 | 5.00000 | | 70.00- 130.00 | 100.00 |
| 17.586 | 17.586 (1.000) | 88 | 32577 | | | 0.00- 30.00 | 18.15 |
| * 75 Chlorobenzene-d5 | | | | | CAS #: 3114-55-4 | | |
| 22.927 | 22.927 (1.000) | 117 | 154578 | 5.00000 | | 70.00- 130.00 | 100.00 |
| 22.927 | 22.927 (1.000) | 82 | 106179 | | | 0.00- 30.00 | 68.69 |
| 50 Thiophene | | | | | CAS #: 110-02-1 | | |
| 17.363 | 17.363 (0.987) | 84 | 16643 | 0.50000 | 0.5734 | 70.00- 130.00 | 100.00(T) |
| 17.363 | 17.363 (0.987) | 58 | 7819 | | | 0.00- 30.00 | 46.98 |
| 0.000 | 1.000 (0.000) | 0 | 0 | | | 0.00- 30.00 | 0.00 |

| RT | EXP RT (REL RT) | MASS | RESPONSE | AMOUNTS CAL-AMT ( PPBV) | ON-COL ( PPBV) | TARGET RANGE | RATIO |
|---|---|---|---|---|---|---|---|
| 24 2-Methylpentane | | | | | CAS #: 107-83-5 | | |
| 13.692 | 13.692 (0.849) | 71 | 5054 | 0.50000 | 0.5202 | 70.00- 130.00 | 100.00 |
| 13.692 | 13.692 (0.849) | 43 | 8138 | | | 0.00- 30.00 | 161.02 |
| 13.692 | 13.692 (0.849) | 42 | 3677 | | | 0.00- 30.00 | 72.75 |
| 45 2,3-Dimethylpentane | | | | | CAS #: 565-59-3 | | |
| 16.405 | 16.405 (1.017) | 71 | 4214 | 0.50000 | 0.4682 | 70.00- 130.00 | 100.00(a) |
| 16.405 | 16.405 (1.017) | 56 | 8608 | | | 0.00- 30.00 | 204.27 |
| 16.405 | 16.405 (1.017) | 43 | 6204 | | | 0.00- 30.00 | 147.22 |
| 102 Indan | | | | | CAS #: 496-11-7 | | |
| 26.150 | 26.150 (1.141) | 117 | 22750 | 0.50000 | 0.4801 | 70.00- 130.00 | 100.00(a) |
| 26.150 | 26.150 (1.141) | 118 | 12316 | | | 0.00- 30.00 | 54.14 |
| 26.150 | 26.150 (1.141) | 91 | 4738 | | | 0.00- 30.00 | 20.83 |
| 106 Indene | | | | | CAS #: 95-13-6 | | |
| 26.419 | 26.419 (1.152) | 115 | 12754 | 0.50000 | 0.4939 | 70.00- 130.00 | 100.00(Ta) |
| 26.419 | 26.419 (1.152) | 116 | 11979 | | | 0.00- 30.00 | 93.92 |
| 0.000 | 1.000 (0.000) | 0 | 0 | | | 0.00- 30.00 | 0.00 |

QC Flag Legend

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

Report Date: 12-Mar-2012 07:09

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msde.i
Lab File ID: e031009.d
Lab Smp Id: ICAL
Analysis Type: VOA
Quant Type: ISTD
Operator: LL
Method File: /chem/msde.i/10Mar2012.b/e12l0308b.m
Misc Info: 0.5ppbv (5.0ppbv) -- AT3

Calibration Date: 10-MAR-2012
Calibration Time: 16:18
Client Smp ID: level 6
Level: LOW
Sample Type: AIR

| | | AREA LIMIT | | | |
|---|---|---|---|---|---|
| COMPOUND | STANDARD | LOWER | UPPER | SAMPLE | %DIFF |
| 46 Bromochloromethan | 46839 | 28103 | 65575 | 46976 | 0.29 |
| 58 1,4-Difluorobenze | 182691 | 109615 | 255767 | 179465 | -1.77 |
| 75 Chlorobenzene-d5 | 151374 | 90824 | 211924 | 154578 | 2.12 |

| | | RT LIMIT | | | |
|---|---|---|---|---|---|
| COMPOUND | STANDARD | LOWER | UPPER | SAMPLE | %DIFF |
| 46 Bromochloromethan | 16.13 | 15.80 | 16.46 | 16.13 | 0.00 |
| 58 1,4-Difluorobenze | 17.59 | 17.26 | 17.92 | 17.59 | 0.00 |
| 75 Chlorobenzene-d5 | 22.93 | 22.60 | 23.26 | 22.93 | 0.00 |

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Data File: /chem/msde.i/10Mar2012.b/e031009.d

Date : 10-MAR-2012 15:38

Client ID: level 6

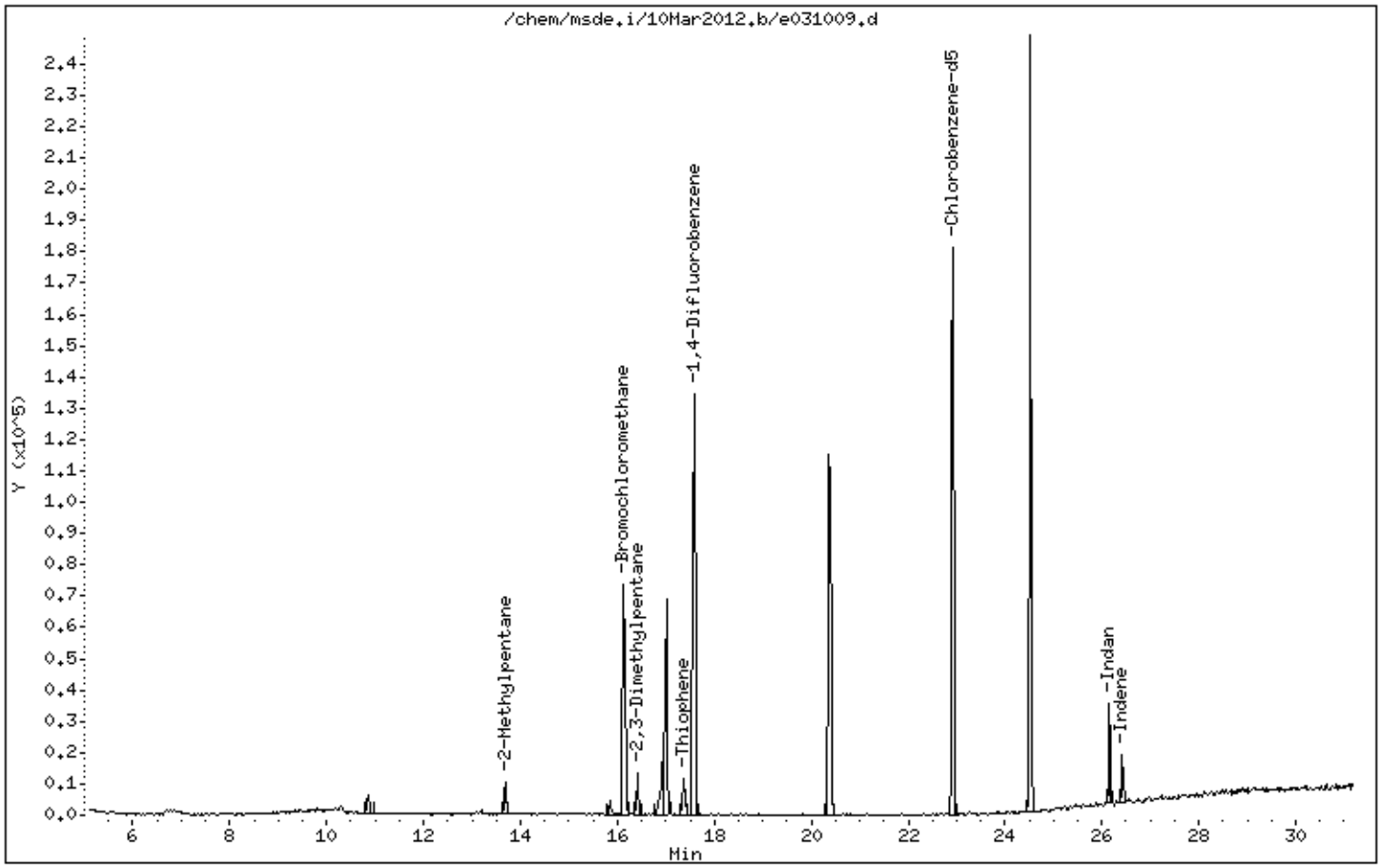
Instrument: msde.i

Sample Info: 25mL #2403-72

Operator: LL

Column phase: RTx-624

Column diameter: 0.32



Air Toxics Ltd.

EPA TO-15/Modified TO14A

Data file : /chem/msde.i/10Mar2012.b/e031003.d
Lab Smp Id: ICAL Client Smp ID: Level 6
Inj Date : 10-MAR-2012 11:13
Operator : cr Inst ID: msde.i
Smp Info : 25mL #2403-8
Misc Info : 0.50ppbv (5.0ppbv) -- AT5
Comment : Low-Level/GC-MS
Method : /chem/msde.i/10Mar2012.b/e12l0308b.m
Meth Date : 10-Mar-2012 13:50 croush Quant Type: ISTD
Cal Date : 10-MAR-2012 11:13 Cal File: e031003.d
Als bottle: 8 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AT5ICAL.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

| Name | Value | Description |
|---|---|---|
| DF | 1.00000 | Dilution Factor |

| RT | EXP RT (REL RT) | MASS | RESPONSE | AMOUNTS CAL-AMT ( PPBV) | AMOUNTS ON-COL ( PPBV) | TARGET RANGE | RATIO |
|---|---|---|---|---|---|---|---|
| * 46 Bromochloromethane | | | | | CAS #: 74-97-5 | | |
| 16.127 | 16.127 (1.000) | 130 | 54091 | 5.00000 | | 70.00- 130.00 | 100.00 |
| 16.127 | 16.127 (1.000) | 128 | 41156 | | | 0.00- 30.00 | 76.09 |
| 16.127 | 16.127 (1.000) | 49 | 48850 | | | 0.00- 30.00 | 90.31 |
| * 58 1,4-Difluorobenzene | | | | | CAS #: 540-36-3 | | |
| 17.586 | 17.586 (1.000) | 114 | 192617 | 5.00000 | | 70.00- 130.00 | 100.00 |
| 17.586 | 17.586 (1.000) | 88 | 34962 | | | 0.00- 30.00 | 18.15 |
| * 75 Chlorobenzene-d5 | | | | | CAS #: 3114-55-4 | | |
| 22.927 | 22.927 (1.000) | 117 | 170884 | 5.00000 | | 70.00- 130.00 | 100.00 |
| 22.927 | 22.927 (1.000) | 82 | 117098 | | | 0.00- 30.00 | 68.52 |
| 15 Vinyl Bromide | | | | | CAS #: 593-60-2 | | |
| 11.308 | 11.308 (0.701) | 106 | 8044 | 0.50000 | 0.4870 | 70.00- 130.00 | 100.00 |
| 11.308 | 11.308 (0.701) | 108 | 8276 | | | 0.00- 30.00 | 102.88 |

| RT | EXP RT (REL RT) | MASS | RESPONSE | AMOUNTS CAL-AMT ( PPBV) | ON-COL ( PPBV) | TARGET RANGE | RATIO |
|---|---|---|---|---|---|---|---|
| 187 2,3-Dichloropropene | | | | | CAS #: 78-88-6 | | |
| 18.519 | 18.519 (1.148) | 75 | 14981 | 0.50000 | 0.4983 | 70.00- 130.00 | 100.00 |
| 18.519 | 18.519 (1.148) | 77 | 4584 | | | 0.00- 30.00 | 30.60 |
| 18.519 | 18.519 (1.148) | 39 | 6347 | | | 0.00- 30.00 | 42.37 |
| 186 1,1-Dichloropropene | | | | | CAS #: 563-58-6 | | |
| 16.682 | 16.682 (1.034) | 110 | 3748 | 0.50000 | 0.4980 | 70.00- 130.00 | 100.00 |
| 16.682 | 16.682 (1.034) | 75 | 12645 | | | 0.00- 30.00 | 337.38 |
| 79 1,1,1,2-Tetrachloroethane | | | | | CAS #: 630-20-6 | | |
| 23.071 | 23.071 (1.006) | 131 | 13793 | 0.50000 | 0.5269 | 70.00- 130.00 | 100.00 |
| 23.071 | 23.071 (1.006) | 117 | 8920 | | | 0.00- 30.00 | 64.67 |
| 23.071 | 23.071 (1.006) | 95 | 7165 | | | 0.00- 30.00 | 51.95 |
| 91 1,2,3-Trichloropropane | | | | | CAS #: 96-18-4 | | |
| 24.783 | 24.783 (1.081) | 110 | 9387 | 0.50000 | 0.5594 | 70.00- 130.00 | 100.00 |
| 24.783 | 24.783 (1.081) | 75 | 26052 | | | 0.00- 30.00 | 277.53 |
| 24.783 | 24.783 (1.081) | 61 | 4866 | | | 0.00- 30.00 | 51.84 |
| 93 2-Chlorotoluene | | | | | CAS #: 95-49-8 | | |
| 24.938 | 24.938 (1.088) | 126 | 9203 | 0.50000 | 0.5019 | 70.00- 130.00 | 100.00 |
| 24.938 | 24.938 (1.088) | 91 | 36114 | | | 0.00- 30.00 | 392.42 |
| 24.912 | 24.912 (1.087) | 65 | 3543 | | | 0.00- 30.00 | 38.50 |
| 96 4-Chlorotoluene | | | | | CAS #: 106-43-4 | | |
| 25.067 | 25.067 (1.093) | 126 | 13109 | 0.50000 | 0.4836 | 70.00- 130.00 | 100.00 |
| 25.067 | 25.067 (1.093) | 91 | 51242 | | | 0.00- 30.00 | 390.89 |
| 25.067 | 25.067 (1.093) | 57 | 14517 | | | 0.00- 30.00 | 110.74 |
| 97 tert-Butylbenzene | | | | | CAS #: 98-06-6 | | |
| 25.343 | 25.343 (1.105) | 119 | 29669 | 0.50000 | 0.4825 | 70.00- 130.00 | 100.00 |
| 25.343 | 25.343 (1.105) | 134 | 6903 | | | 0.00- 30.00 | 23.27 |
| 25.343 | 25.343 (1.105) | 91 | 23942 | | | 0.00- 30.00 | 80.70 |
| 99 sec-Butylbenzene | | | | | CAS #: 135-98-8 | | |
| 25.589 | 25.589 (1.116) | 105 | 46584 | 0.50000 | 0.4765 | 70.00- 130.00 | 100.00 |
| 25.589 | 25.589 (1.116) | 134 | 8212 | | | 0.00- 30.00 | 17.63 |
| 25.589 | 25.589 (1.116) | 91 | 9011 | | | 0.00- 30.00 | 19.34 |
| 100 p-Cymene | | | | | CAS #: 99-87-6 | | |
| 25.724 | 25.724 (1.122) | 119 | 35249 | 0.50000 | 0.4786 | 70.00- 130.00 | 100.00 |
| 25.724 | 25.724 (1.122) | 134 | 8534 | | | 0.00- 30.00 | 24.21 |
| 25.724 | 25.724 (1.122) | 91 | 9756 | | | 0.00- 30.00 | 27.68 |
| 103 1,2,3-trimethylbenzene | | | | | CAS #: 526-73-8 | | |
| 25.903 | 25.903 (1.130) | 120 | 13967 | 0.50000 | 0.4894 | 70.00- 130.00 | 100.00 |

| RT | EXP RT (REL RT) | MASS | RESPONSE | AMOUNTS CAL-AMT ( PPBV) | AMOUNTS ON-COL ( PPBV) | TARGET RANGE | RATIO |
|---|---|---|---|---|---|---|---|
| 103 1,2,3-trimethylbenzene (continued) | | | | | | | |
| 25.903 | 25.903 (1.130) | 105 | 35088 | | | 0.00- 30.00 | 251.22 |
| 25.903 | 25.903 (1.130) | 77 | 4898 | | | 0.00- 30.00 | 35.07 |
| 107 Butylbenzene | | | | | CAS #: 104-51-8 | | |
| 26.195 | 26.195 (1.143) | 134 | 8053 | 0.50000 | 0.4910 | 70.00- 130.00 | 100.00 |
| 26.195 | 26.195 (1.143) | 91 | 35700 | | | 445.46- 505.46 | 443.31 |
| 26.195 | 26.195 (1.143) | 92 | 19549 | | | 0.00- 30.00 | 242.75 |
| 110 1,2-dibromo-3-chloropropane | | | | | CAS #: 96-12-8 | | |
| 27.226 | 27.226 (1.188) | 157 | 7823 | 0.50000 | 0.4472 | 70.00- 130.00 | 100.00 |
| 27.226 | 27.226 (1.188) | 75 | 9210 | | | 0.00- 30.00 | 117.73 |
| 27.226 | 27.226 (1.188) | 155 | 5746 | | | 0.00- 30.00 | 73.45 |
| 86 1,3-Dichloropropane | | | | | CAS #: 142-28-9 | | |
| 21.660 | 21.660 (1.232) | 76 | 15721 | 0.50000 | 0.5454 | 70.00- 130.00 | 100.00 |
| 21.692 | 21.692 (1.234) | 41 | 6943 | | | 30.10- 90.10 | 44.16 |
| 21.692 | 21.692 (1.234) | 78 | 5160 | | | 0.00- 30.00 | 32.82 |
| 185 Bromobenzene | | | | | CAS #: 108-86-1 | | |
| 24.732 | 24.732 (1.079) | 156 | 13859 | 0.50000 | 0.5052 | 70.00- 130.00 | 100.00 |
| 24.732 | 24.732 (1.079) | 158 | 13498 | | | 0.00- 30.00 | 97.40 |
| 24.732 | 24.732 (1.079) | 77 | 34806 | | | 0.00- 30.00 | 251.14 |

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msde.i
Lab File ID: e031003.d
Lab Smp Id: ICAL
Analysis Type: VOA
Quant Type: ISTD
Operator: cr
Method File: /chem/msde.i/10Mar2012.b/e12l0308b.m
Misc Info: 0.50ppbv (5.0ppbv) -- AT5

Calibration Date: 10-MAR-2012
Calibration Time: 11:52
Client Smp ID: Level 6
Level: LOW
Sample Type: AIR

| | | AREA LIMIT | | | |
|---|---|---|---|---|---|
| COMPOUND | STANDARD | LOWER | UPPER | SAMPLE | %DIFF |
| 46 Bromochloromethan | 53284 | 31970 | 74598 | 54091 | 1.51 |
| 58 1,4-Difluorobenze | 199260 | 119556 | 278964 | 192617 | -3.33 |
| 75 Chlorobenzene-d5 | 174009 | 104405 | 243613 | 170884 | -1.80 |

| | | RT LIMIT | | | |
|---|---|---|---|---|---|
| COMPOUND | STANDARD | LOWER | UPPER | SAMPLE | %DIFF |
| 46 Bromochloromethan | 16.13 | 15.80 | 16.46 | 16.13 | 0.00 |
| 58 1,4-Difluorobenze | 17.59 | 17.26 | 17.92 | 17.59 | 0.00 |
| 75 Chlorobenzene-d5 | 22.93 | 22.60 | 23.26 | 22.93 | 0.00 |

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Data File: /chem/msde.i/10Mar2012.b/e031003.d

Date : 10-MAR-2012 11:13

Client ID: Level 6

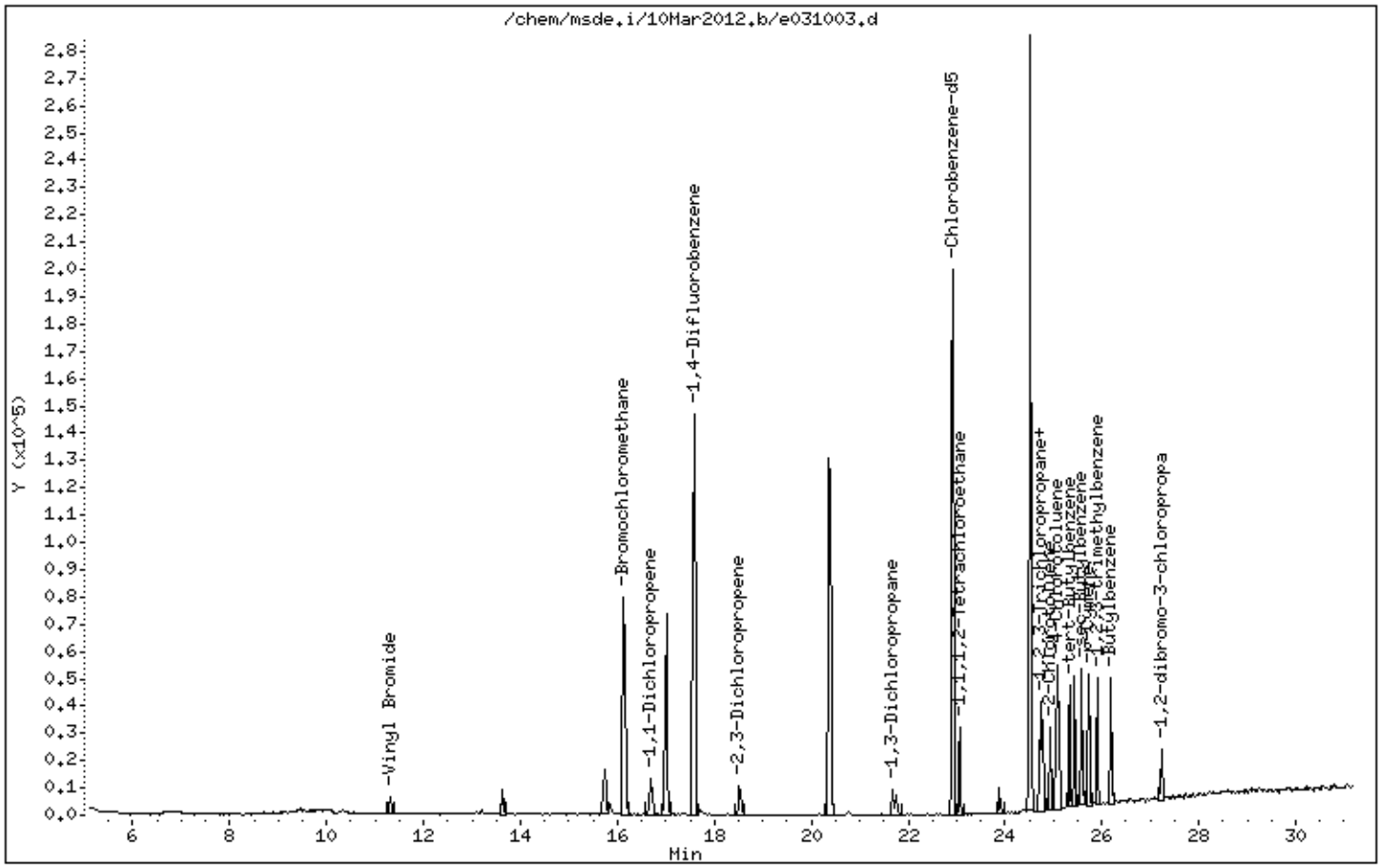
Instrument: msde.i

Sample Info: 25mL #2403-8

Operator: cr

Column phase: RTx-624

Column diameter: 0.32



Air Toxics Ltd.

EPA TO-15/Modified TO14A

Data file : /chem/msde.i/08Mar2012.b/e030812.d
Lab Smp Id: ICAL Client Smp ID: Level 6
Inj Date : 08-MAR-2012 19:17
Operator : srs Inst ID: msde.i
Smp Info : 62.5mL #2403-57
Misc Info : 0.5ppbv (2.0ppbv)
Comment : Low-Level/GC-MS
Method : /chem/msde.i/08Mar2012.b/e12l0308a.m
Meth Date : 13-Mar-2012 09:29 croush Quant Type: ISTD
Cal Date : 08-MAR-2012 19:17 Cal File: e030812.d
Als bottle: 8 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: HILOcrvFULL.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

| Name | Value | Description |
|---|---|---|
| DF | 1.00000 | Dilution Factor |

| | | | | AMOUNTS | | | |
|---|---|---|---|---|---|---|---|
| | | | | CAL-AMT | ON-COL | | |
| RT | EXP RT (REL RT) | MASS | RESPONSE | ( PPBV) | ( PPBV) | TARGET RANGE | RATIO |
| == | ====== ======== | ==== | ======== | ======= | ======= | ========== | ===== |
| * 46 Bromochloromethane | | | | | CAS #: 74-97-5 | | |
| 16.127 | 16.127 (1.000) | 130 | 66193 | 5.00000 | | 70.00- 130.00 | 100.00 |
| 16.127 | 16.127 (1.000) | 128 | 50605 | | | 0.00- 30.00 | 76.45 |
| 16.127 | 16.127 (1.000) | 49 | 65601 | | | 0.00- 30.00 | 99.11 |
| * 58 1,4-Difluorobenzene | | | | | CAS #: 540-36-3 | | |
| 17.585 | 17.585 (1.000) | 114 | 253683 | 5.00000 | | 70.00- 130.00 | 100.00 |
| 17.585 | 17.585 (1.000) | 88 | 45212 | | | 0.00- 30.00 | 17.82 |
| * 75 Chlorobenzene-d5 | | | | | CAS #: 3114-55-4 | | |
| 22.927 | 22.927 (1.000) | 117 | 217044 | 5.00000 | | 70.00- 130.00 | 100.00 |
| 22.927 | 22.927 (1.000) | 82 | 146088 | | | 0.00- 30.00 | 67.31 |
| $ 54 1,2-Dichloroethane-d4 | | | | | CAS #: 17060-07-0 | | |
| 17.013 | 17.013 (1.055) | 65 | 126062 | 5.00000 | 5.110 | 70.00- 130.00 | 100.00 |
| 17.013 | 17.013 (1.055) | 67 | 60028 | | | 0.00- 30.00 | 47.62 |

| RT | EXP RT (REL RT) | MASS | RESPONSE | AMOUNTS CAL-AMT ( PPBV) | ON-COL ( PPBV) | TARGET RANGE | RATIO |
|---|---|---|---|---|---|---|---|
| $ 67 Toluene-d8 | | | | | CAS #: 2037-26-5 | | |
| 20.368 | 20.368 (1.158) | 98 | 254446 | 5.00000 | 4.980 | 70.00- 130.00 | 100.00 |
| 20.368 | 20.368 (1.158) | 70 | 31601 | | | 0.00- 30.00 | 12.42 |
| 20.368 | 20.368 (1.158) | 100 | 161381 | | | 33.91- 93.91 | 63.42 |
| $ 87 Bromofluorobenzene | | | | | CAS #: 460-00-4 | | |
| 24.525 | 24.525 (1.070) | 174 | 126395 | 5.00000 | 5.091 | 70.00- 130.00 | 100.00 |
| 24.525 | 24.525 (1.070) | 95 | 203866 | | | 125.57- 185.57 | 161.29 |
| 24.525 | 24.525 (1.070) | 176 | 122252 | | | 64.73- 124.73 | 96.72 |
| 2 Propylene | | | | | CAS #: 115-07-1 | | |
| 5.425 | 5.425 (0.336) | 41 | 5472 | 0.50000 | 0.5186 | 70.00- 130.00 | 100.00(M) |
| 5.497 | 5.497 (0.341) | 42 | 3191 | | | 0.00- 30.00 | 58.32 |
| 5.473 | 5.473 (0.339) | 39 | 2928 | | | 0.00- 30.00 | 53.51 |
| 4 Dichlorodifluoromethane/Fr12 | | | | | CAS #: 75-71-8 | | |
| 5.955 | 5.955 (0.369) | 85 | 38932 | 0.50000 | 0.5033 | 70.00- 130.00 | 100.00 |
| 5.955 | 5.955 (0.369) | 87 | 8346 | | | 2.22- 62.22 | 21.44 |
| 6 Freon 114 | | | | | CAS #: 76-14-2 | | |
| 7.353 | 7.353 (0.456) | 135 | 20299 | 0.50000 | 0.5044 | 70.00- 130.00 | 100.00 |
| 7.353 | 7.353 (0.456) | 137 | 6551 | | | 0.00- 30.00 | 32.27 |
| 7 Chloromethane | | | | | CAS #: 74-87-3 | | |
| 7.715 | 7.715 (0.478) | 50 | 6268 | 0.50000 | 0.5483 | 70.00- 130.00 | 100.00 |
| 7.715 | 7.715 (0.478) | 52 | 1706 | | | 0.00- 30.00 | 27.22 |
| 9 Butane | | | | | CAS #: 106-97-8 | | |
| 8.404 | 8.404 (0.521) | 58 | 1220 | 0.50000 | 0.3101 | 70.00- 130.00 | 100.00(a) |
| 8.404 | 8.404 (0.521) | 43 | 10978 | | | 0.00- 30.00 | 899.84 |
| 10 Vinyl Chloride | | | | | CAS #: 75-01-4 | | |
| 8.543 | 8.543 (0.530) | 62 | 8598 | 0.50000 | 0.4765 | 70.00- 130.00 | 100.00(a) |
| 8.543 | 8.543 (0.530) | 64 | 2802 | | | 2.55- 62.55 | 32.59 |
| 11 1,3-Butadiene | | | | | CAS #: 106-99-0 | | |
| 8.786 | 8.786 (0.545) | 54 | 5424 | 0.50000 | 0.4783 | 70.00- 130.00 | 100.00(a) |
| 8.786 | 8.786 (0.545) | 39 | 5368 | | | 0.00- 30.00 | 98.97 |
| 12 Bromomethane | | | | | CAS #: 74-83-9 | | |
| 10.272 | 10.272 (0.637) | 94 | 10782 | 0.50000 | 0.5404 | 70.00- 130.00 | 100.00 |
| 10.272 | 10.272 (0.637) | 96 | 10567 | | | 65.25- 125.25 | 98.01 |
| 13 Chloroethane | | | | | CAS #: 75-00-3 | | |
| 10.728 | 10.728 (0.665) | 64 | 5268 | 0.50000 | 0.5479 | 70.00- 130.00 | 100.00 |
| 10.728 | 10.728 (0.665) | 49 | 1043 | | | 0.00- 30.00 | 19.80 |

| RT | EXP RT (REL RT) | MASS | RESPONSE | AMOUNTS CAL-AMT ( PPBV) | ON-COL ( PPBV) | TARGET RANGE | RATIO |
|---|---|---|---|---|---|---|---|
| 13 Chloroethane (continued) | | | | | | | |
| 10.728 | 10.728 (0.665) | 66 | 1689 | | | 0.00- 30.00 | 32.06 |
| 14 Isopentane | | | | | CAS #: 78-78-4 | | |
| 10.852 | 10.852 (0.673) | 57 | 5640 | 0.50000 | 0.4644 | 70.00- 130.00 | 100.00(a) |
| 10.852 | 10.852 (0.673) | 43 | 6385 | | | 0.00- 30.00 | 113.21 |
| 10.873 | 10.873 (0.674) | 42 | 5661 | | | 0.00- 30.00 | 100.37 |
| 16 Trichlorofluoromethane/Fr11 | | | | | CAS #: 75-69-4 | | |
| 11.474 | 11.474 (0.711) | 101 | 39155 | 0.50000 | 0.4800 | 70.00- 130.00 | 100.00(a) |
| 11.474 | 11.474 (0.711) | 103 | 26210 | | | 36.02- 96.02 | 66.94 |
| 18 Ethanol | | | | | CAS #: 64-17-5 | | |
| 12.344 | 12.344 (0.765) | 45 | 1736 | 0.50000 | 0.4076 | 70.00- 130.00 | 100.00(Ta) |
| 0.000 | 1.000 (0.000) | 46 | 0 | | | 0.00- 30.00 | 0.00 |
| 0.000 | 1.000 (0.000) | 43 | 0 | | | 0.00- 30.00 | 0.00 |
| 19 Freon 113 | | | | | CAS #: 76-13-1 | | |
| 12.800 | 12.800 (0.794) | 151 | 17971 | 0.50000 | 0.5210 | 70.00- 130.00 | 100.00 |
| 12.800 | 12.800 (0.794) | 153 | 11113 | | | 34.27- 94.27 | 61.84 |
| 12.800 | 12.800 (0.794) | 101 | 23447 | | | 0.00- 30.00 | 130.47 |
| 21 1,1-Dichloroethene | | | | | CAS #: 75-35-4 | | |
| 12.821 | 12.821 (0.795) | 98 | 5247 | 0.50000 | 0.4473 | 70.00- 130.00 | 100.00(a) |
| 12.821 | 12.821 (0.795) | 61 | 13321 | | | 0.00- 30.00 | 253.88 |
| 12.821 | 12.821 (0.795) | 96 | 8622 | | | 0.00- 30.00 | 164.32 |
| 22 Acetone | | | | | CAS #: 67-64-1 | | |
| 13.070 | 13.070 (0.810) | 58 | 3434 | 0.50000 | 0.4590 | 70.00- 130.00 | 100.00(a) |
| 13.070 | 13.070 (0.810) | 43 | 11474 | | | 0.00- 30.00 | 334.13 |
| 25 2-Propanol | | | | | CAS #: 67-63-0 | | |
| 13.381 | 13.381 (0.830) | 45 | 7873 | 0.50000 | 0.3893 | 70.00- 130.00 | 100.00(Ta) |
| 13.381 | 13.381 (0.830) | 43 | 2665 | | | 0.00- 30.00 | 33.85 |
| 0.000 | 1.000 (0.000) | 59 | 0 | | | 0.00- 30.00 | 0.00 |
| 23 Carbon Disulfide | | | | | CAS #: 75-15-0 | | |
| 13.194 | 13.194 (0.818) | 76 | 26554 | 0.50000 | 0.5395 | 70.00- 130.00 | 100.00 |
| 26 3-Chloroprene | | | | | CAS #: 107-05-1 | | |
| 13.588 | 13.588 (0.843) | 76 | 3062 | 0.50000 | 0.4218 | 70.00- 130.00 | 100.00(a) |
| 13.588 | 13.588 (0.843) | 41 | 4806 | | | 0.00- 30.00 | 156.96 |
| 29 Methylene Chloride | | | | | CAS #: 75-09-2 | | |
| 13.885 | 13.885 (0.861) | 84 | 4789 | 0.50000 | 0.5186 | 70.00- 130.00 | 100.00(T) |
| 0.000 | 1.000 (0.000) | 49 | 0 | | | 0.00- 30.00 | 0.00 |

| RT | EXP RT (REL RT) | MASS | RESPONSE | AMOUNTS CAL-AMT ( PPBV) | ON-COL ( PPBV) | TARGET RANGE | RATIO |
|---|---|---|---|---|---|---|---|
| 29 Methylene Chloride (continued) | | | | | | | |
| 0.000 | 1.000 (0.000) | 51 | 0 | | | 0.00- 30.00 | 0.00 |
| 30 tert-butyl alcohol | | | | | CAS #: 75-65-0 | | |
| 14.022 | 14.022 (0.869) | 59 | 6476 | 0.50000 | 0.3377 | 70.00- 130.00 | 100.00(a) |
| 14.022 | 14.022 (0.869) | 41 | 1515 | | | 0.00- 30.00 | 23.39 |
| 14.050 | 14.050 (0.871) | 57 | 652 | | | 0.00- 30.00 | 10.07 |
| 31 MTBE | | | | | CAS #: 1634-04-4 | | |
| 14.187 | 14.187 (0.880) | 73 | 24869 | 0.50000 | 0.4181 | 70.00- 130.00 | 100.00(a) |
| 14.187 | 14.187 (0.880) | 57 | 3992 | | | 0.00- 30.00 | 16.05 |
| 14.187 | 14.187 (0.880) | 41 | 4734 | | | 0.00- 30.00 | 19.04 |
| 32 trans-1,2-Dichloroethene | | | | | CAS #: 156-60-5 | | |
| 14.242 | 14.242 (0.883) | 98 | 5999 | 0.50000 | 0.4774 | 70.00- 130.00 | 100.00(a) |
| 14.242 | 14.242 (0.883) | 61 | 12316 | | | 0.00- 30.00 | 205.30 |
| 14.242 | 14.242 (0.883) | 96 | 9890 | | | 0.00- 30.00 | 164.86 |
| 35 Hexane | | | | | CAS #: 110-54-3 | | |
| 14.544 | 14.544 (0.902) | 57 | 9693 | 0.50000 | 0.4494 | 70.00- 130.00 | 100.00(a) |
| 14.517 | 14.517 (0.900) | 43 | 5023 | | | 0.00- 30.00 | 51.82 |
| 14.544 | 14.544 (0.902) | 86 | 2047 | | | 0.00- 30.00 | 21.12 |
| 36 Isopropyl ether | | | | | CAS #: 108-20-3 | | |
| 14.873 | 14.873 (0.922) | 45 | 9329 | 0.50000 | 0.3988 | 70.00- 130.00 | 100.00(Ta) |
| 14.873 | 14.873 (0.922) | 87 | 3912 | | | 0.00- 30.00 | 41.93 |
| 0.000 | 1.000 (0.000) | 59 | 0 | | | 0.00- 30.00 | 0.00 |
| 37 1,1-Dichloroethane | | | | | CAS #: 75-34-3 | | |
| 14.956 | 14.956 (0.927) | 63 | 17684 | 0.50000 | 0.4979 | 70.00- 130.00 | 100.00(a) |
| 14.956 | 14.956 (0.927) | 65 | 6153 | | | 0.00- 30.00 | 34.79 |
| 38 Vinyl Acetate | | | | | CAS #: 108-05-4 | | |
| 14.956 | 14.956 (0.927) | 86 | 1820 | 0.50000 | 0.3468 | 70.00- 130.00 | 100.00(a) |
| 14.956 | 14.956 (0.927) | 42 | 1167 | | | 0.00- 30.00 | 64.12 |
| 14.956 | 14.956 (0.927) | 43 | 12437 | | | 0.00- 30.00 | 683.35 |
| 40 Ethyl-tert-butyl ether | | | | | CAS #: 637-92-3 | | |
| 15.368 | 15.368 (0.953) | 59 | 13386 | 0.50000 | 0.4110 | 70.00- 130.00 | 100.00(a) |
| 15.368 | 15.368 (0.953) | 87 | 7256 | | | 0.00- 30.00 | 54.21 |
| 15.368 | 15.368 (0.953) | 41 | 2840 | | | 0.00- 30.00 | 21.22 |
| 42 2-Butanone | | | | | CAS #: 78-93-3 | | |
| 15.766 | 15.766 (0.978) | 72 | 5677 | 0.50000 | 0.4186 | 70.00- 130.00 | 100.00(a) |
| 15.766 | 15.766 (0.978) | 43 | 13991 | | | 0.00- 30.00 | 246.45 |
| 15.787 | 15.787 (0.979) | 57 | 854 | | | 0.00- 30.00 | 15.04 |

| RT | EXP RT (REL RT) | MASS | RESPONSE | AMOUNTS CAL-AMT ( PPBV) | ON-COL ( PPBV) | TARGET RANGE | RATIO |
|---|---|---|---|---|---|---|---|
| 41 cis-1,2-Dichloroethene | | | | | | CAS #: 156-59-2 | |
| 15.787 | 15.787 (0.979) | 98 | 9056 | 0.50000 | 0.4793 | 70.00- 130.00 | 100.00(a) |
| 15.787 | 15.787 (0.979) | 61 | 18335 | | | 0.00- 30.00 | 202.46 |
| 15.787 | 15.787 (0.979) | 96 | 14943 | | | 124.52- 184.52 | 165.01 |
| 44 Tetrahydrofuran | | | | | | CAS #: 109-99-9 | |
| 16.127 | 16.127 (1.000) | 42 | 5453 | 0.50000 | 0.4033 | 70.00- 130.00 | 100.00(a) |
| 16.127 | 16.127 (1.000) | 71 | 3462 | | | 0.00- 30.00 | 63.49 |
| 16.127 | 16.127 (1.000) | 72 | 3808 | | | 0.00- 30.00 | 69.83 |
| 47 Chloroform | | | | | | CAS #: 67-66-3 | |
| 16.189 | 16.189 (1.004) | 83 | 26124 | 0.50000 | 0.4805 | 70.00- 130.00 | 100.00(a) |
| 16.189 | 16.189 (1.004) | 85 | 16903 | | | 0.00- 30.00 | 64.70 |
| 49 1,1,1-Trichloroethane | | | | | | CAS #: 71-55-6 | |
| 16.466 | 16.466 (1.021) | 97 | 30110 | 0.50000 | 0.4846 | 70.00- 130.00 | 100.00(a) |
| 16.466 | 16.466 (1.021) | 99 | 19365 | | | 0.00- 30.00 | 64.31 |
| 48 Cyclohexane | | | | | | CAS #: 110-82-7 | |
| 16.466 | 16.466 (1.021) | 84 | 12662 | 0.50000 | 0.4362 | 70.00- 130.00 | 100.00(a) |
| 16.466 | 16.466 (1.021) | 56 | 9953 | | | 0.00- 30.00 | 78.61 |
| 16.466 | 16.466 (1.021) | 41 | 5816 | | | 0.00- 30.00 | 45.93 |
| 51 Carbon Tetrachloride | | | | | | CAS #: 56-23-5 | |
| 16.651 | 16.651 (1.032) | 119 | 13127 | 0.50000 | 0.2824 | 70.00- 130.00 | 100.00(a) |
| 16.651 | 16.651 (1.032) | 117 | 13737 | | | 0.00- 30.00 | 104.65 |
| 52 2,2,4-Trimethylpentane | | | | | | CAS #: 540-84-1 | |
| 16.925 | 16.925 (1.049) | 56 | 14073 | 0.50000 | 0.4232 | 70.00- 130.00 | 100.00(a) |
| 16.925 | 16.925 (1.049) | 57 | 42226 | | | 0.00- 30.00 | 300.05 |
| 16.925 | 16.925 (1.049) | 41 | 13386 | | | 0.00- 30.00 | 95.12 |
| 53 Benzene | | | | | | CAS #: 71-43-2 | |
| 17.013 | 17.013 (0.967) | 78 | 32400 | 0.50000 | 0.4979 | 70.00- 130.00 | 100.00(a) |
| 17.013 | 17.013 (0.967) | 77 | 7187 | | | 0.00- 30.00 | 22.18 |
| 55 tert-amyl methyl ether | | | | | | CAS #: 994-05-8 | |
| 17.042 | 17.042 (0.969) | 87 | 4002 | 0.50000 | 0.4173 | 70.00- 130.00 | 100.00(a) |
| 17.042 | 17.042 (0.969) | 73 | 16160 | | | 0.00- 30.00 | 403.80 |
| 17.042 | 17.042 (0.969) | 55 | 4751 | | | 0.00- 30.00 | 118.72 |
| 56 1,2-Dichloroethane | | | | | | CAS #: 107-06-2 | |
| 17.129 | 17.129 (0.974) | 62 | 17936 | 0.50000 | 0.4888 | 70.00- 130.00 | 100.00(a) |
| 17.129 | 17.129 (0.974) | 64 | 5494 | | | 0.00- 30.00 | 30.63 |
| 57 Heptane | | | | | | CAS #: 142-82-5 | |
| 17.159 | 17.159 (0.976) | 57 | 6447 | 0.50000 | 0.4793 | 70.00- 130.00 | 100.00(a) |

| RT | EXP RT (REL RT) | MASS | RESPONSE | AMOUNTS CAL-AMT ( PPBV) | ON-COL ( PPBV) | TARGET RANGE | RATIO |
|---|---|---|---|---|---|---|---|
| 57 Heptane (continued) | | | | | | | |
| 17.159 | 17.159 (0.976) | 100 | 3526 | | | 0.00- 30.00 | 54.69 |
| 17.159 | 17.159 (0.976) | 43 | 8952 | | | 0.00- 30.00 | 138.86 |
| 59 Trichloroethene | | | | | CAS #: 79-01-6 | | |
| 18.025 | 18.025 (1.025) | 130 | 12646 | 0.50000 | 0.4400 | 70.00- 130.00 | 100.00(a) |
| 18.025 | 18.025 (1.025) | 95 | 14602 | | | 0.00- 30.00 | 115.47 |
| 17.997 | 17.997 (1.023) | 97 | 9839 | | | 0.00- 30.00 | 77.80 |
| 60 Methylcyclohexane | | | | | CAS #: 108-87-2 | | |
| 18.272 | 18.272 (1.039) | 83 | 16165 | 0.50000 | 0.4354 | 70.00- 130.00 | 100.00(a) |
| 18.272 | 18.272 (1.039) | 55 | 9632 | | | 0.00- 30.00 | 59.59 |
| 18.272 | 18.272 (1.039) | 56 | 3046 | | | 0.00- 30.00 | 18.84 |
| 61 1,2-Dichloropropane | | | | | CAS #: 78-87-5 | | |
| 18.519 | 18.519 (1.053) | 63 | 9300 | 0.50000 | 0.4648 | 70.00- 130.00 | 100.00(a) |
| 18.519 | 18.519 (1.053) | 62 | 6643 | | | 0.00- 30.00 | 71.43 |
| 18.519 | 18.519 (1.053) | 41 | 6008 | | | 29.06- 89.06 | 64.60 |
| 62 1,4-Dioxane | | | | | CAS #: 123-91-1 | | |
| 18.629 | 18.629 (1.059) | 88 | 6347 | 0.50000 | 0.4448 | 70.00- 130.00 | 100.00(Ta) |
| 18.629 | 18.629 (1.059) | 58 | 2754 | | | 0.00- 30.00 | 43.39 |
| 0.000 | 1.000 (0.000) | 57 | 0 | | | 0.00- 30.00 | 0.00 |
| 63 Bromodichloromethane | | | | | CAS #: 75-27-4 | | |
| 18.958 | 18.958 (1.078) | 83 | 24957 | 0.50000 | 0.4465 | 70.00- 130.00 | 100.00(a) |
| 18.958 | 18.958 (1.078) | 85 | 15727 | | | 0.00- 30.00 | 63.02 |
| 64 cis-1,3-Dichloropropene | | | | | CAS #: 10061-01-5 | | |
| 19.865 | 19.865 (1.130) | 75 | 15376 | 0.50000 | 0.4441 | 70.00- 130.00 | 100.00(a) |
| 19.865 | 19.865 (1.130) | 77 | 4776 | | | 0.00- 30.00 | 31.06 |
| 19.865 | 19.865 (1.130) | 39 | 5962 | | | 10.38- 70.38 | 38.77 |
| 65 4-Methyl-2-pentanone | | | | | CAS #: 108-10-1 | | |
| 20.076 | 20.076 (1.142) | 43 | 8729 | 0.50000 | 0.3375 | 70.00- 130.00 | 100.00(a) |
| 20.076 | 20.076 (1.142) | 58 | 4302 | | | 0.00- 30.00 | 49.28 |
| 20.076 | 20.076 (1.142) | 85 | 2508 | | | 0.00- 30.00 | 28.73 |
| 68 Toluene | | | | | CAS #: 108-88-3 | | |
| 20.525 | 20.525 (1.167) | 91 | 36155 | 0.50000 | 0.4656 | 70.00- 130.00 | 100.00(a) |
| 20.525 | 20.525 (1.167) | 92 | 20913 | | | 0.00- 30.00 | 57.84 |
| 69 trans-1,3-Dichloropropene | | | | | CAS #: 10061-02-6 | | |
| 20.995 | 20.995 (0.916) | 75 | 15848 | 0.50000 | 0.3405 | 70.00- 130.00 | 100.00(a) |
| 20.995 | 20.995 (0.916) | 77 | 5030 | | | 0.00- 30.00 | 31.74 |
| 20.995 | 20.995 (0.916) | 39 | 5355 | | | 4.84- 64.84 | 33.79 |

| RT | EXP RT (REL RT) | MASS | RESPONSE | AMOUNTS CAL-AMT ( PPBV) | ON-COL ( PPBV) | TARGET RANGE | RATIO |
|---|---|---|---|---|---|---|---|
| 70 1,1,2-Trichloroethane | | | | | CAS #: 79-00-5 | | |
| 21.335 | 21.335 (0.931) | 97 | 12769 | 0.50000 | 0.4554 | 70.00- 130.00 | 100.00(a) |
| 21.335 | 21.335 (0.931) | 99 | 7696 | | | 0.00- 30.00 | 60.27 |
| 21.335 | 21.335 (0.931) | 83 | 11615 | | | 52.76- 112.76 | 90.96 |
| 71 Tetrachloroethene | | | | | CAS #: 127-18-4 | | |
| 21.497 | 21.497 (0.938) | 166 | 16492 | 0.50000 | 0.5067 | 70.00- 130.00 | 100.00 |
| 21.497 | 21.497 (0.938) | 129 | 13916 | | | 0.00- 30.00 | 84.38 |
| 21.497 | 21.497 (0.938) | 131 | 12732 | | | 0.00- 30.00 | 77.20 |
| 72 2-Hexanone | | | | | CAS #: 591-78-6 | | |
| 21.660 | 21.660 (0.945) | 58 | 5372 | 0.50000 | 0.3027 | 70.00- 130.00 | 100.00(a) |
| 21.660 | 21.660 (0.945) | 43 | 8893 | | | 0.00- 30.00 | 165.54 |
| 21.660 | 21.660 (0.945) | 100 | 1564 | | | 0.00- 30.00 | 29.11 |
| 73 Dibromochloromethane | | | | | CAS #: 124-48-1 | | |
| 22.018 | 22.018 (0.960) | 129 | 19820 | 0.50000 | 0.4154 | 70.00- 130.00 | 100.00(a) |
| 22.018 | 22.018 (0.960) | 127 | 14462 | | | 0.00- 30.00 | 72.97 |
| 74 1,2-Dibromoethane | | | | | CAS #: 106-93-4 | | |
| 22.278 | 22.278 (0.972) | 107 | 19302 | 0.50000 | 0.4488 | 70.00- 130.00 | 100.00(a) |
| 22.278 | 22.278 (0.972) | 109 | 17061 | | | 0.00- 30.00 | 88.39 |
| 76 Chlorobenzene | | | | | CAS #: 108-90-7 | | |
| 22.951 | 22.951 (1.001) | 112 | 30007 | 0.50000 | 0.4851 | 70.00- 130.00 | 100.00(a) |
| 22.951 | 22.951 (1.001) | 114 | 9590 | | | 0.00- 30.00 | 31.96 |
| 22.951 | 22.951 (1.001) | 77 | 22168 | | | 36.24- 96.24 | 73.88 |
| 77 Ethyl Benzene | | | | | CAS #: 100-41-4 | | |
| 23.023 | 23.023 (1.004) | 106 | 13344 | 0.50000 | 0.4415 | 70.00- 130.00 | 100.00(a) |
| 23.023 | 23.023 (1.004) | 91 | 47114 | | | 0.00- 30.00 | 353.07 |
| 80 m,p-Xylene | | | | | CAS #: 108-38-3 | | |
| 23.192 | 23.192 (1.012) | 106 | 15840 | 0.50000 | 0.4356 | 70.00- 130.00 | 100.00(a) |
| 23.192 | 23.192 (1.012) | 91 | 35411 | | | 0.00- 30.00 | 223.55 |
| 81 o-Xylene | | | | | CAS #: 95-47-6 | | |
| 23.770 | 23.770 (1.037) | 106 | 15012 | 0.50000 | 0.4294 | 70.00- 130.00 | 100.00(a) |
| 23.770 | 23.770 (1.037) | 91 | 35755 | | | 0.00- 30.00 | 238.18 |
| 83 Styrene | | | | | CAS #: 100-42-5 | | |
| 23.818 | 23.818 (1.039) | 104 | 19853 | 0.50000 | 0.3762 | 70.00- 130.00 | 100.00(a) |
| 23.794 | 23.794 (1.038) | 78 | 12280 | | | 0.00- 30.00 | 61.85 |
| 84 Bromoform | | | | | CAS #: 75-25-2 | | |
| 24.131 | 24.131 (1.053) | 173 | 15933 | 0.50000 | 0.3863 | 70.00- 130.00 | 100.00(a) |

| RT | EXP RT (REL RT) | MASS | RESPONSE | AMOUNTS CAL-AMT ( PPBV) | ON-COL ( PPBV) | TARGET RANGE | RATIO |
|---|---|---|---|---|---|---|---|
| 84 Bromoform (continued) | | | | | | | |
| 24.131 | 24.131 (1.053) | 171 | 8002 | | | 0.00- 30.00 | 50.22 |
| 85 Cumene | | | | | CAS #: 98-82-8 | | |
| 24.228 | 24.228 (1.057) | 105 | 48800 | 0.50000 | 0.4311 | 70.00- 130.00 | 100.00(a) |
| 24.228 | 24.228 (1.057) | 120 | 10727 | | | 0.00- 30.00 | 21.98 |
| 89 1,1,2,2-Tetrachloroethane | | | | | CAS #: 79-34-5 | | |
| 24.680 | 24.680 (1.076) | 83 | 29637 | 0.50000 | 0.5066 | 70.00- 130.00 | 100.00 |
| 24.680 | 24.680 (1.076) | 85 | 18286 | | | 0.00- 30.00 | 61.70 |
| 90 Propylbenzene | | | | | CAS #: 103-65-1 | | |
| 24.758 | 24.758 (1.080) | 91 | 65600 | 0.50000 | 0.4525 | 70.00- 130.00 | 100.00(a) |
| 24.758 | 24.758 (1.080) | 120 | 12417 | | | 0.00- 30.00 | 18.93 |
| 92 4-Ethyltoluene | | | | | CAS #: 622-96-8 | | |
| 24.886 | 24.886 (1.085) | 105 | 52690 | 0.50000 | 0.4232 | 70.00- 130.00 | 100.00(a) |
| 24.886 | 24.886 (1.085) | 120 | 14922 | | | 0.00- 30.00 | 28.32 |
| 94 1,3,5-Trimethylbenzene | | | | | CAS #: 108-67-8 | | |
| 24.964 | 24.964 (1.089) | 105 | 46070 | 0.50000 | 0.4299 | 70.00- 130.00 | 100.00(a) |
| 24.964 | 24.964 (1.089) | 120 | 19665 | | | 0.00- 30.00 | 42.69 |
| 98 1,2,4-Trimethylbenzene | | | | | CAS #: 95-63-6 | | |
| 25.410 | 25.410 (1.108) | 105 | 37124 | 0.50000 | 0.3935 | 70.00- 130.00 | 100.00(a) |
| 25.410 | 25.410 (1.108) | 120 | 16102 | | | 0.00- 30.00 | 43.37 |
| 101 1,3-Dichlorobenzene | | | | | CAS #: 541-73-1 | | |
| 25.791 | 25.791 (1.125) | 146 | 28016 | 0.50000 | 0.4685 | 70.00- 130.00 | 100.00(a) |
| 25.791 | 25.791 (1.125) | 148 | 18687 | | | 0.00- 30.00 | 66.70 |
| 25.791 | 25.791 (1.125) | 111 | 13720 | | | 0.00- 30.00 | 48.97 |
| 104 1,4-Dichlorobenzene | | | | | CAS #: 106-46-7 | | |
| 25.903 | 25.903 (1.130) | 146 | 28366 | 0.50000 | 0.4741 | 70.00- 130.00 | 100.00(a) |
| 25.903 | 25.903 (1.130) | 148 | 17802 | | | 0.00- 30.00 | 62.76 |
| 25.903 | 25.903 (1.130) | 111 | 12561 | | | 0.00- 30.00 | 44.28 |
| 105 alpha-chlorotoluene | | | | | CAS #: 100-44-7 | | |
| 26.060 | 26.060 (1.137) | 91 | 38005 | 0.50000 | 0.4170 | 70.00- 130.00 | 100.00(a) |
| 26.060 | 26.060 (1.137) | 126 | 6367 | | | 0.00- 30.00 | 16.75 |
| 108 1,2-Dichlorobenzene | | | | | CAS #: 95-50-1 | | |
| 26.352 | 26.352 (1.149) | 146 | 26309 | 0.50000 | 0.4638 | 70.00- 130.00 | 100.00(a) |
| 26.352 | 26.352 (1.149) | 148 | 16554 | | | 34.07- 94.07 | 62.92 |
| 26.352 | 26.352 (1.149) | 111 | 12874 | | | 19.87- 79.87 | 48.93 |

| RT | EXP RT (REL RT) | MASS | RESPONSE | AMOUNTS CAL-AMT ( PPBV) | ON-COL ( PPBV) | TARGET RANGE | RATIO |
|---|---|---|---|---|---|---|---|
| 112 1,2,4-Trichlorobenzene | | | | | CAS #: 120-82-1 | | |
| 28.145 | 28.145 (1.228) | 180 | 16690 | 0.50000 | 0.4501 | 70.00- 130.00 | 100.00(a) |
| 28.145 | 28.145 (1.228) | 182 | 16197 | | | 0.00- 30.00 | 97.05 |
| 113 Hexachlorobutadiene | | | | | CAS #: 87-68-3 | | |
| 28.235 | 28.235 (1.232) | 225 | 16129 | 0.50000 | 0.4868 | 70.00- 130.00 | 100.00(a) |
| 28.235 | 28.235 (1.232) | 223 | 10071 | | | 0.00- 30.00 | 62.44 |
| 114 Naphthalene | | | | | CAS #: 91-20-3 | | |
| 28.504 | 28.504 (1.243) | 128 | 2742 | 0.05000 | 0.03473 | 70.00- 130.00 | 100.00(Ta) |
| 0.000 | 1.000 (0.000) | 127 | 0 | | | 0.00- 30.00 | 0.00 |

QC Flag Legend

T - Target compound detected outside RT window.
a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.

Report Date: 13-Mar-2012 09:29

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msde.i
Lab File ID: e030812.d
Lab Smp Id: ICAL
Analysis Type: VOA
Quant Type: ISTD
Operator: srs
Method File: /chem/msde.i/08Mar2012.b/e12l0308a.m
Misc Info: 0.5ppbv (2.0ppbv)

Calibration Date: 08-MAR-2012
Calibration Time: 22:56
Client Smp ID: Level 6
Level: LOW
Sample Type: AIR

| | | AREA LIMIT | | | |
|---|---|---|---|---|---|
| COMPOUND | STANDARD | LOWER | UPPER | SAMPLE | %DIFF |
| 46 Bromochloromethan | 73839 | 44303 | 103375 | 66193 | -10.35 |
| 58 1,4-Difluorobenze | 285440 | 171264 | 399616 | 253683 | -11.13 |
| 75 Chlorobenzene-d5 | 243451 | 146071 | 340831 | 217044 | -10.85 |

| | | RT LIMIT | | | |
|---|---|---|---|---|---|
| COMPOUND | STANDARD | LOWER | UPPER | SAMPLE | %DIFF |
| 46 Bromochloromethan | 16.13 | 15.80 | 16.46 | 16.13 | 0.00 |
| 58 1,4-Difluorobenze | 17.59 | 17.26 | 17.92 | 17.59 | 0.00 |
| 75 Chlorobenzene-d5 | 22.93 | 22.60 | 23.26 | 22.93 | 0.00 |

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Data File: /chem/msde.i/08Mar2012.b/e030812.d



Date : 08-MAR-2012 19:17

Client ID: Level 6

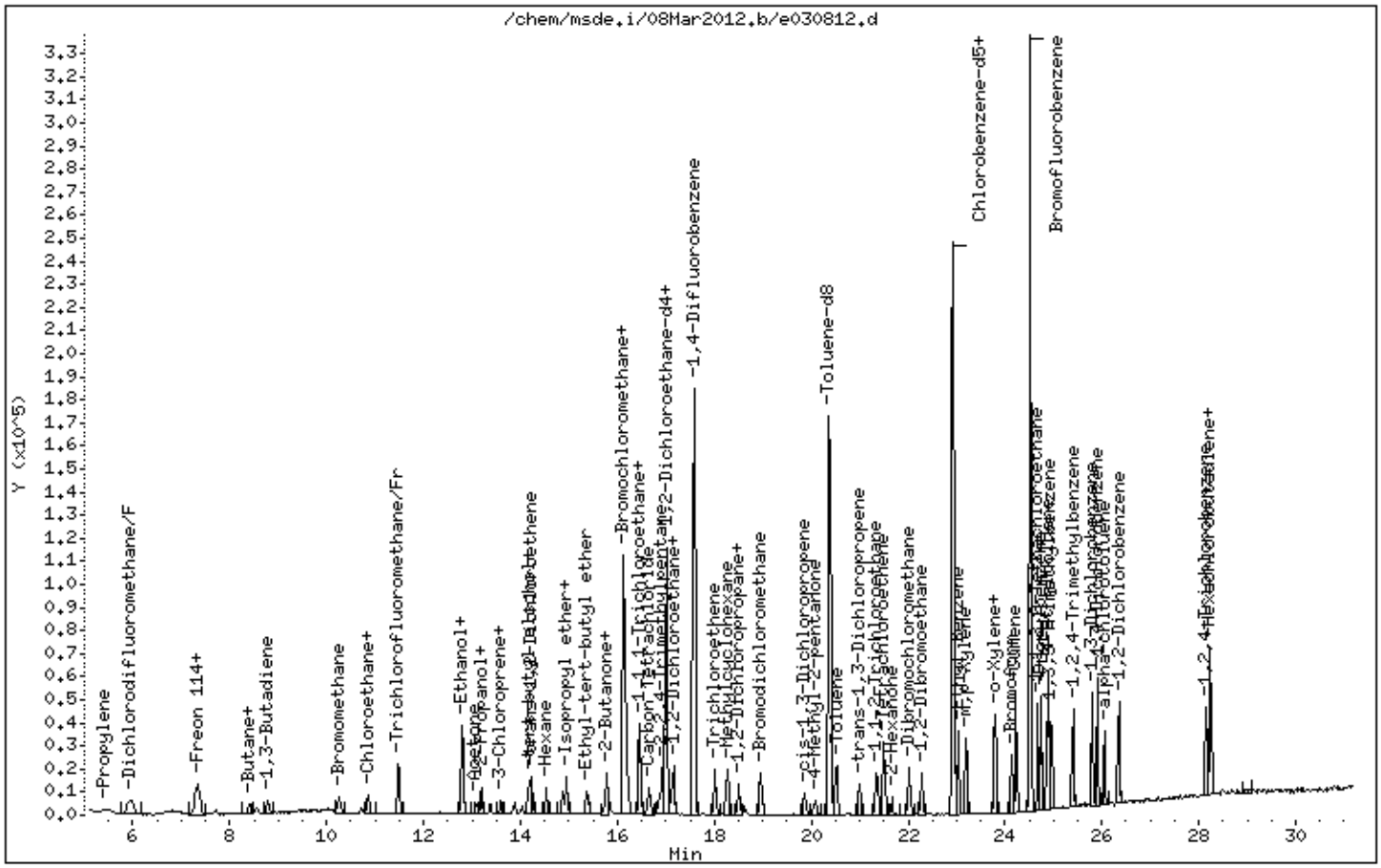
Instrument: msde.i

Sample Info: 62.5mL #2403-57

Operator: srs

Column phase: RTx-624

Column diameter: 0.32



Air Toxics Ltd.

EPA TO-15/Modified TO14A

Data file : /chem/msde.i/16Mar2012.b/e031607.d
Lab Smp Id: ICAL Client Smp ID: Level 7
Inj Date : 16-MAR-2012 11:53
Operator : cr Inst ID: msde.i
Smp Info : 100mL #2403-84
Misc Info : 2.0ppbv (5.0ppbv)
Comment : Low-Level/GC-MS
Method : /chem/msde.i/16Mar2012.b/e12l0308c.m
Meth Date : 17-Mar-2012 10:13 croush Quant Type: ISTD
Cal Date : 16-MAR-2012 11:53 Cal File: e031607.d
Als bottle: 8 Calibration Sample, Level: 7
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AT2.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

| Name | Value | Description |
|---|---|---|
| DF | 1.00000 | Dilution Factor |

| | | | | AMOUNTS | | | | |
|---|---|---|---|---|---|---|---|---|
| | | | | CAL-AMT | ON-COL | | | |
| RT | EXP RT (REL RT) | MASS | RESPONSE | ( PPBV) | ( PPBV) | TARGET RANGE | | RATIO |
| == | ====== ======== | ==== | ======== | ======= | ======= | ========== | | ===== |
| * 46 Bromochloromethane | | | | | | CAS #: 74-97-5 | | |
| 16.128 | 16.128 (1.000) | 130 | 68973 | 5.00000 | | 70.00- 130.00 | | 100.00 |
| 16.128 | 16.128 (1.000) | 128 | 53432 | | | 0.00- 30.00 | | 77.47 |
| 16.128 | 16.128 (1.000) | 49 | 61991 | | | 0.00- 30.00 | | 89.88 |
| * 58 1,4-Difluorobenzene | | | | | | CAS #: 540-36-3 | | |
| 17.586 | 17.586 (1.000) | 114 | 268181 | 5.00000 | | 70.00- 130.00 | | 100.00 |
| 17.586 | 17.586 (1.000) | 88 | 48216 | | | 0.00- 30.00 | | 17.98 |
| * 75 Chlorobenzene-d5 | | | | | | CAS #: 3114-55-4 | | |
| 22.927 | 22.927 (1.000) | 117 | 232195 | 5.00000 | | 70.00- 130.00 | | 100.00 |
| 22.903 | 22.903 (1.000) | 82 | 149451 | | | 0.00- 30.00 | | 64.36 |
| 190 1-Pentene | | | | | | CAS #: 109-67-1 | | |
| 11.536 | 11.536 (0.715) | 55 | 27277 | 2.00000 | 1.946 | 70.00- 130.00 | | 100.00 |
| 11.536 | 11.536 (0.715) | 42 | 28216 | | | 0.00- 30.00 | | 103.44 |

| RT | EXP RT (REL RT) | MASS | RESPONSE | AMOUNTS CAL-AMT ( PPBV) | AMOUNTS ON-COL ( PPBV) | TARGET RANGE | RATIO |
|---|---|---|---|---|---|---|---|
| 27 Methyl Acetate | | | | | CAS #: 79-20-9 | | |
| 13.630 | 13.630 (0.845) | 43 | 47503 | 2.00000 | 1.918 | 70.00- 130.00 | 100.00 |
| 13.630 | 13.630 (0.845) | 74 | 17609 | | | 0.00- 30.00 | 37.07 |
| 13.630 | 13.630 (0.845) | 59 | 5951 | | | 0.00- 30.00 | 12.53 |
| 191 Cyclopentane | | | | | CAS #: 287-92-3 | | |
| 13.796 | 13.796 (0.855) | 70 | 33804 | 2.00000 | 1.873 | 70.00- 130.00 | 100.00 |
| 13.796 | 13.796 (0.855) | 55 | 30786 | | | 0.00- 30.00 | 91.07 |
| 28 Acetonitrile | | | | | CAS #: 75-05-8 | | |
| 13.713 | 13.713 (0.850) | 41 | 21580 | 2.00000 | 1.960 | 70.00- 130.00 | 100.00 |
| 13.713 | 13.713 (0.850) | 40 | 12094 | | | 0.00- 30.00 | 56.04 |
| 13.713 | 13.713 (0.850) | 39 | 4807 | | | 0.00- 30.00 | 22.28 |
| 33 Acrylonitrile | | | | | CAS #: 107-13-1 | | |
| 14.352 | 14.352 (0.890) | 53 | 23812 | 2.00000 | 2.029 | 70.00- 130.00 | 100.00(M) |
| 14.352 | 14.352 (0.890) | 52 | 20151 | | | 0.00- 30.00 | 84.63 |
| 192 1-Hexene | | | | | CAS #: 592-41-6 | | |
| 14.434 | 14.434 (0.895) | 55 | 22711 | 2.00000 | 2.048 | 70.00- 130.00 | 100.00 |
| 14.434 | 14.434 (0.895) | 41 | 30799 | | | 0.00- 30.00 | 135.61 |
| 14.434 | 14.434 (0.895) | 84 | 13275 | | | 0.00- 30.00 | 58.45 |
| 39 Chlorprene | | | | | CAS #: 126-99-8 | | |
| 15.011 | 15.011 (0.931) | 53 | 46768 | 2.00000 | 2.017 | 70.00- 130.00 | 100.00 |
| 15.011 | 15.011 (0.931) | 88 | 29075 | | | 0.00- 30.00 | 62.17 |
| 193 Methyl Acrylate | | | | | CAS #: 96-33-3 | | |
| 15.849 | 15.849 (0.983) | 55 | 73693 | 2.00000 | 1.948 | 70.00- 130.00 | 100.00 |
| 15.849 | 15.849 (0.983) | 85 | 18377 | | | 0.00- 30.00 | 24.94 |
| 15.849 | 15.849 (0.983) | 58 | 5887 | | | 0.00- 30.00 | 7.99 |
| 194 Ethyl Acrylate | | | | | CAS #: 140-88-5 | | |
| 18.052 | 18.052 (1.119) | 99 | 7447 | 2.00000 | 2.070 | 70.00- 130.00 | 100.00 |
| 18.052 | 18.052 (1.119) | 45 | 4805 | | | 0.00- 30.00 | 64.52 |
| 18.052 | 18.052 (1.119) | 55 | 67984 | | | 0.00- 30.00 | 912.90 |
| 95 Dibromomethane | | | | | CAS #: 74-95-3 | | |
| 18.739 | 18.739 (1.066) | 174 | 56678 | 2.00000 | 1.926 | 70.00- 130.00 | 100.00 |
| 18.739 | 18.739 (1.066) | 93 | 68074 | | | 0.00- 30.00 | 120.11 |
| 18.739 | 18.739 (1.066) | 95 | 54892 | | | 0.00- 30.00 | 96.85 |
| 195 trans-1,4-dichloro-2-butene | | | | | CAS #: 110-57-6 | | |
| 24.758 | 24.758 (1.080) | 89 | 27317 | 2.00000 | 1.867 | 70.00- 130.00 | 100.00 |
| 24.758 | 24.758 (1.080) | 75 | 47540 | | | 0.00- 30.00 | 174.03 |
| 24.758 | 24.758 (1.080) | 53 | 35893 | | | 0.00- 30.00 | 131.39 |

| RT | EXP RT (REL RT) | MASS | RESPONSE | AMOUNTS CAL-AMT ( PPBV) | ON-COL ( PPBV) | TARGET RANGE | RATIO |
|---|---|---|---|---|---|---|---|
| 109 Hexachloroethane | | | | | CAS #: 67-72-1 | | |
| 26.598 | 26.598 (1.160) | 201 | 54448 | 2.00000 | 1.912 | 70.00- 130.00 | 100.00 |
| 26.598 | 26.598 (1.160) | 117 | 81529 | | | 0.00- 30.00 | 149.74 |
| 26.598 | 26.598 (1.160) | 166 | 46574 | | | 0.00- 30.00 | 85.54 |
| 111 1,3,5-Trichlorobenzene | | | | | CAS #: 108-70-3 | | |
| 27.383 | 27.383 (1.194) | 180 | 74063 | 2.00000 | 1.838 | 70.00- 130.00 | 100.00 |
| 27.383 | 27.383 (1.194) | 182 | 68967 | | | 0.00- 30.00 | 93.12 |

QC Flag Legend

M - Compound response manually integrated.

Report Date: 17-Mar-2012 10:13

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msde.i
Lab File ID: e031607.d
Lab Smp Id: ICAL
Analysis Type: VOA
Quant Type: ISTD
Operator: cr
Method File: /chem/msde.i/16Mar2012.b/e12l0308c.m
Misc Info: 2.0ppbv (5.0ppbv)

Calibration Date: 16-MAR-2012
Calibration Time: 09:58
Client Smp ID: Level 7
Level: LOW
Sample Type: AIR

| | | AREA LIMIT | | | |
|---|---|---|---|---|---|
| COMPOUND | STANDARD | LOWER | UPPER | SAMPLE | %DIFF |
| 46 Bromochloromethan | 75867 | 45520 | 106214 | 68973 | -9.09 |
| 58 1,4-Difluorobenze | 297952 | 178771 | 417133 | 268181 | -9.99 |
| 75 Chlorobenzene-d5 | 256527 | 153916 | 359138 | 232195 | -9.49 |

| | | RT LIMIT | | | |
|---|---|---|---|---|---|
| COMPOUND | STANDARD | LOWER | UPPER | SAMPLE | %DIFF |
| 46 Bromochloromethan | 16.13 | 15.80 | 16.46 | 16.13 | 0.00 |
| 58 1,4-Difluorobenze | 17.59 | 17.26 | 17.92 | 17.59 | 0.00 |
| 75 Chlorobenzene-d5 | 22.93 | 22.60 | 23.26 | 22.93 | 0.00 |

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Data File: /chem/msde.i/16Mar2012.b/e031607.d

Date : 16-MAR-2012 11:53

Client ID: Level 7

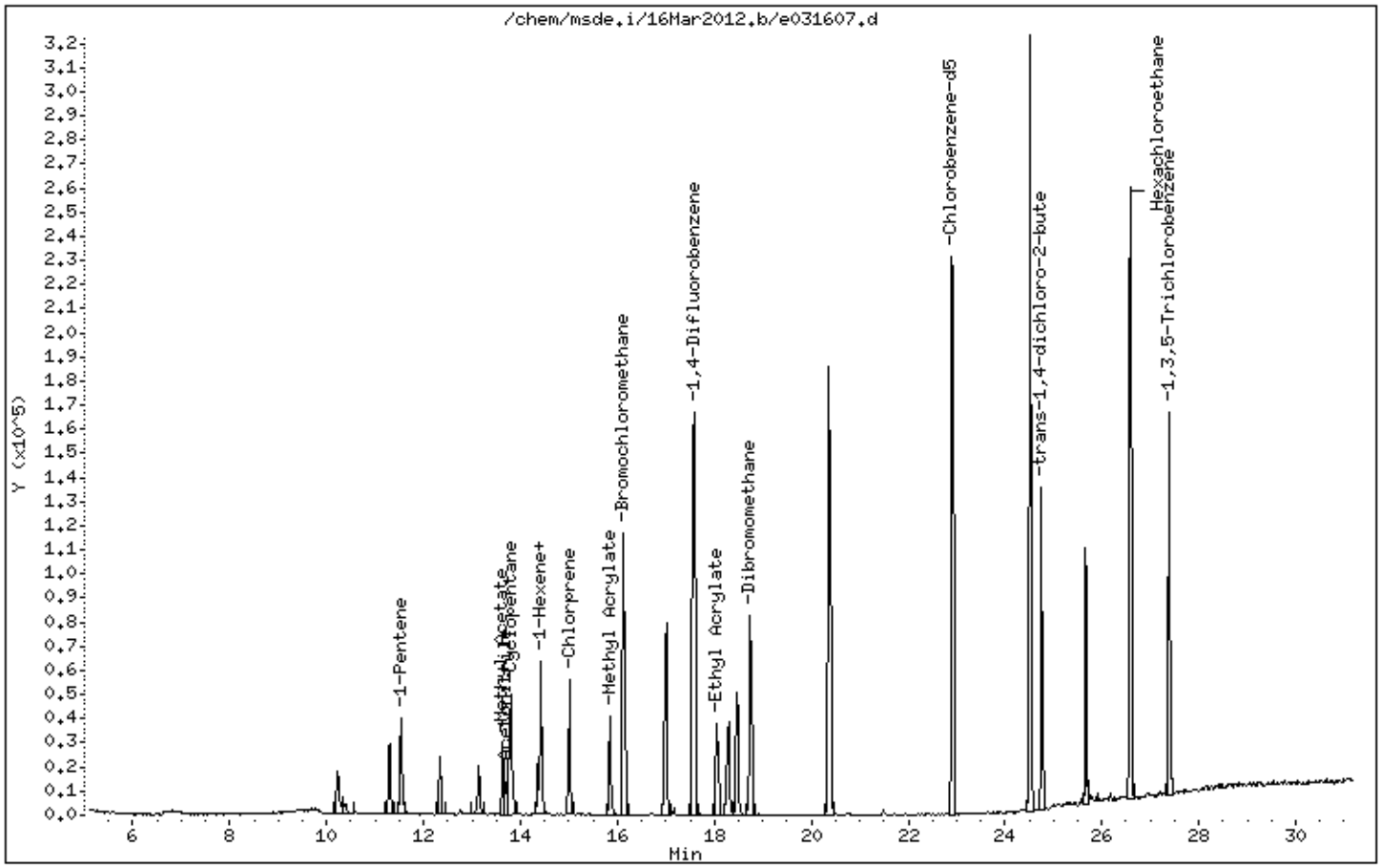
Instrument: msde.i

Sample Info: 100mL #2403-84

Operator: cr

Column phase: RTx-624

Column diameter: 0.32



Air Toxics Ltd.

EPA TO-15/Modified TO14A

Data file : /chem/msde.i/10Mar2012.b/e031014.d
Lab Smp Id: ICAL Client Smp ID: Level 7
Inj Date : 10-MAR-2012 19:22
Operator : LL Inst ID: msde.i
Smp Info : 250mL #2370-131
Misc Info : 2.0ppbv (5.0ppbv) -- TVH
Comment : Low-Level/GC-MS
Method : /chem/msde.i/10Mar2012.b/e12l0308b.m
Meth Date : 12-Mar-2012 07:12 croush Quant Type: ISTD
Cal Date : 10-MAR-2012 19:22 Cal File: e031014.d
Als bottle: 4 Calibration Sample, Level: 7
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: BP.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

| Name | Value | Description |
|---|---|---|
| DF | 1.00000 | Dilution Factor |

| RT | EXP RT (REL RT) | MASS | RESPONSE | AMOUNTS CAL-AMT ( PPBV) | AMOUNTS ON-COL ( PPBV) | TARGET RANGE | RATIO |
|---|---|---|---|---|---|---|---|
| * 46 Bromochloromethane | | | | | CAS #: 74-97-5 | | |
| 16.127 | 16.127 (1.000) | 130 | 50246 | 5.00000 | | 70.00- 130.00 | 100.00 |
| 16.127 | 16.127 (1.000) | 128 | 36660 | | | 0.00- 30.00 | 72.96 |
| 16.127 | 16.127 (1.000) | 49 | 47786 | | | 0.00- 30.00 | 95.10 |
| * 58 1,4-Difluorobenzene | | | | | CAS #: 540-36-3 | | |
| 17.585 | 17.585 (1.000) | 114 | 182154 | 5.00000 | | 70.00- 130.00 | 100.00 |
| 17.585 | 17.585 (1.000) | 88 | 33616 | | | 0.00- 30.00 | 18.45 |
| * 75 Chlorobenzene-d5 | | | | | CAS #: 3114-55-4 | | |
| 22.927 | 22.927 (1.000) | 117 | 152322 | 5.00000 | | 70.00- 130.00 | 100.00 |
| 22.927 | 22.927 (1.000) | 82 | 103075 | | | 0.00- 30.00 | 67.67 |
| 17 Pentane | | | | | CAS #: 109-66-0 | | |
| 11.660 | 11.660 (0.723) | 43 | 18408 | 2.00000 | 1.943 | 70.00- 130.00 | 100.00 |
| 11.681 | 11.681 (0.724) | 57 | 3803 | | | 0.00- 47.76 | 20.66 |
| 11.681 | 11.681 (0.724) | 72 | 3990 | | | 0.00- 30.00 | 21.68 |

| RT | EXP RT (REL RT) | MASS | RESPONSE | AMOUNTS CAL-AMT ( PPBV) | ON-COL ( PPBV) | TARGET RANGE | RATIO |
|---|---|---|---|---|---|---|---|
| 66 Octane | | | | | CAS #: 111-65-9 | | |
| 20.412 | 20.412 (1.161) | 57 | 12728 | 2.00000 | 1.948 | 70.00- 130.00 | 100.00 |
| 20.412 | 20.412 (1.161) | 85 | 22473 | | | 0.00- 30.00 | 176.56 |
| 20.412 | 20.412 (1.161) | 43 | 26250 | | | 161.52- 221.52 | 206.24 |
| 78 Nonane | | | | | CAS #: 111-84-2 | | |
| 23.023 | 23.023 (1.004) | 43 | 24016 | 2.00000 | 2.086 | 70.00- 130.00 | 100.00 |
| 23.023 | 23.023 (1.004) | 57 | 27175 | | | 0.00- 30.00 | 113.15 |
| 23.023 | 23.023 (1.004) | 85 | 15115 | | | 0.00- 30.00 | 62.94 |
| 88 Decane | | | | | CAS #: 124-18-5 | | |
| 24.809 | 24.809 (1.082) | 57 | 36612 | 2.00000 | 2.241 | 70.00- 130.00 | 100.00 |
| 24.809 | 24.809 (1.082) | 71 | 20807 | | | 0.00- 30.00 | 56.83 |
| 24.809 | 24.809 (1.082) | 142 | 3443 | | | 0.00- 30.00 | 9.40 |
| 188 Undecane | | | | | CAS #: 1120-21-4 | | |
| 26.150 | 26.150 (1.141) | 57 | 32249 | 2.00000 | 2.334 | 70.00- 130.00 | 100.00 |
| 26.150 | 26.150 (1.141) | 43 | 22955 | | | 0.00- 30.00 | 71.18 |
| 26.150 | 26.150 (1.141) | 85 | 12909 | | | 0.00- 30.00 | 40.03 |
| 189 Dodecane | | | | | CAS #: 112-40-3 | | |
| 27.293 | 27.293 (1.190) | 85 | 9319 | 2.00000 | 2.267 | 70.00- 130.00 | 100.00 |
| 27.293 | 27.293 (1.190) | 57 | 20398 | | | 0.00- 30.00 | 218.89 |
| 27.293 | 27.293 (1.190) | 43 | 15335 | | | 0.00- 30.00 | 164.56 |

Report Date: 12-Mar-2012 07:12

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msde.i
Lab File ID: e031014.d
Lab Smp Id: ICAL
Analysis Type: VOA
Quant Type: ISTD
Operator: LL
Method File: /chem/msde.i/10Mar2012.b/e12l0308b.m
Misc Info: 2.0ppbv (5.0ppbv) -- TVH

Calibration Date: 10-MAR-2012
Calibration Time: 18:30
Client Smp ID: Level 7
Level: LOW
Sample Type: AIR

| | | AREA LIMIT | | | |
|---|---|---|---|---|---|
| COMPOUND | STANDARD | LOWER | UPPER | SAMPLE | %DIFF |
| 46 Bromochloromethan | 47451 | 28471 | 66431 | 50246 | 5.89 |
| 58 1,4-Difluorobenze | 173946 | 104368 | 243524 | 182154 | 4.72 |
| 75 Chlorobenzene-d5 | 149007 | 89404 | 208610 | 152322 | 2.22 |

| | | RT LIMIT | | | |
|---|---|---|---|---|---|
| COMPOUND | STANDARD | LOWER | UPPER | SAMPLE | %DIFF |
| 46 Bromochloromethan | 16.13 | 15.80 | 16.46 | 16.13 | 0.00 |
| 58 1,4-Difluorobenze | 17.59 | 17.26 | 17.92 | 17.59 | 0.00 |
| 75 Chlorobenzene-d5 | 22.93 | 22.60 | 23.26 | 22.93 | 0.00 |

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Data File: /chem/msde.i/10Mar2012.b/e031014.d

Date : 10-MAR-2012 19:22

Client ID: Level 7

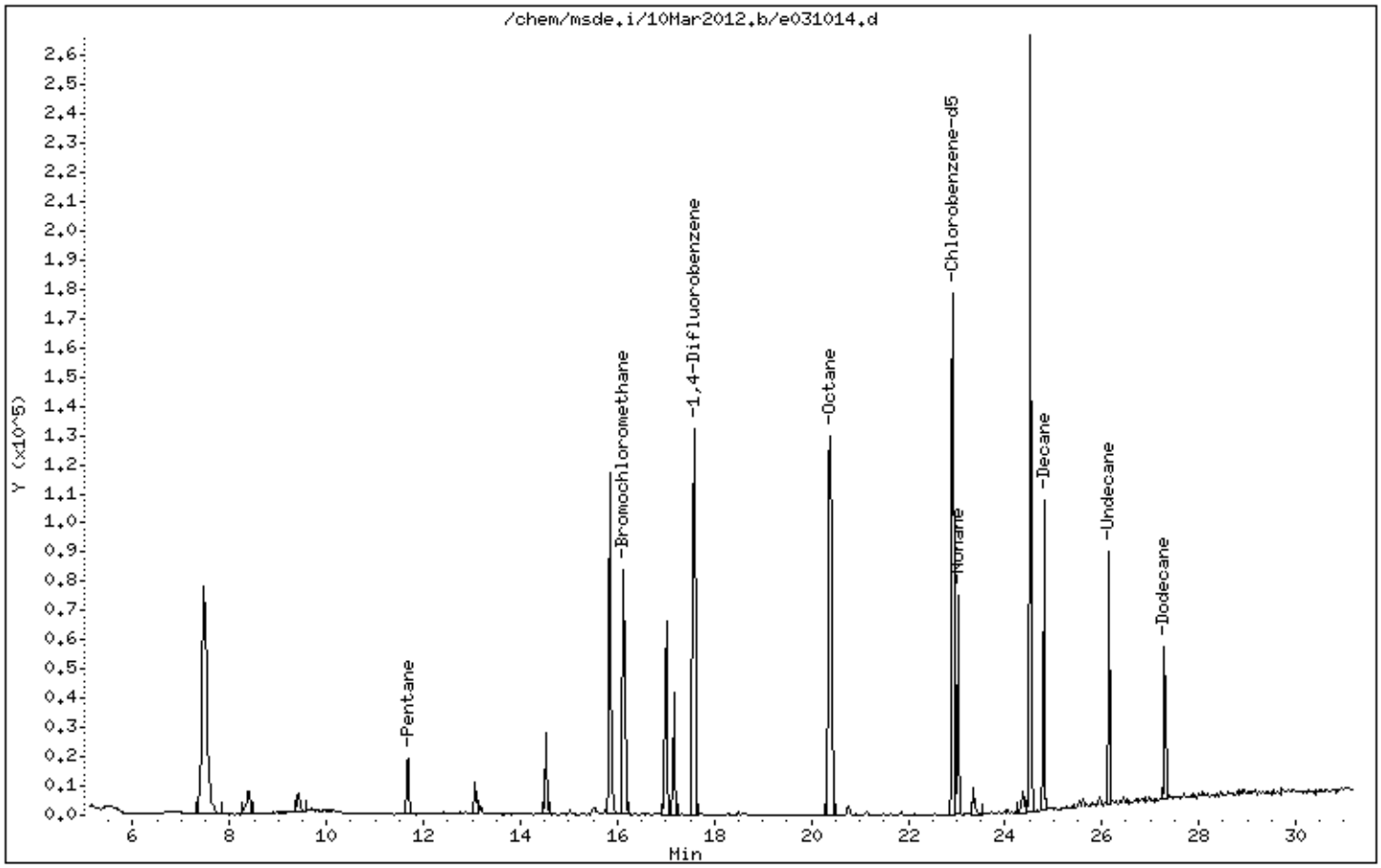
Instrument: msde.i

Sample Info: 250mL #2370-131

Operator: LL

Column phase: RTx-624

Column diameter: 0.32



Air Toxics Ltd.

EPA TO-15/Modified TO14A

Data file : /chem/msde.i/10Mar2012.b/e031005.d
Lab Smp Id: ICAL Client Smp ID: Level 7
Inj Date : 10-MAR-2012 12:34
Operator : cr Inst ID: msde.i
Smp Info : 100mL #2403-8
Misc Info : 2.0ppbv (5.0ppbv) -- AT5
Comment : Low-Level/GC-MS
Method : /chem/msde.i/10Mar2012.b/e12l0308b.m
Meth Date : 10-Mar-2012 13:50 croush Quant Type: ISTD
Cal Date : 10-MAR-2012 12:34 Cal File: e031005.d
Als bottle: 8 Calibration Sample, Level: 7
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AT5ICAL.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

| Name | Value | Description |
|---|---|---|
| DF | 1.00000 | Dilution Factor |

| | | | | AMOUNTS | | | | |
|---|---|---|---|---|---|---|---|---|
| | | | | CAL-AMT | ON-COL | | | |
| RT | EXP RT (REL RT) | MASS | RESPONSE | ( PPBV) | ( PPBV) | TARGET RANGE | | RATIO |
| * 46 Bromochloromethane | | | | | | CAS #: 74-97-5 | | |
| 16.127 | 16.127 (1.000) | 130 | 52583 | 5.00000 | | 70.00- 130.00 | | 100.00 |
| 16.127 | 16.127 (1.000) | 128 | 40771 | | | 0.00- 30.00 | | 77.54 |
| 16.127 | 16.127 (1.000) | 49 | 49774 | | | 0.00- 30.00 | | 94.66 |
| * 58 1,4-Difluorobenzene | | | | | | CAS #: 540-36-3 | | |
| 17.586 | 17.586 (1.000) | 114 | 198695 | 5.00000 | | 70.00- 130.00 | | 100.00 |
| 17.586 | 17.586 (1.000) | 88 | 35121 | | | 0.00- 30.00 | | 17.68 |
| * 75 Chlorobenzene-d5 | | | | | | CAS #: 3114-55-4 | | |
| 22.927 | 22.927 (1.000) | 117 | 173908 | 5.00000 | | 70.00- 130.00 | | 100.00 |
| 22.927 | 22.927 (1.000) | 82 | 118661 | | | 0.00- 30.00 | | 68.23 |
| 15 Vinyl Bromide | | | | | | CAS #: 593-60-2 | | |
| 11.308 | 11.308 (0.701) | 106 | 32115 | 2.00000 | 2.000 | 70.00- 130.00 | | 100.00 |
| 11.308 | 11.308 (0.701) | 108 | 27717 | | | 0.00- 30.00 | | 86.31 |

| RT | EXP RT (REL RT) | MASS | RESPONSE | AMOUNTS CAL-AMT ( PPBV) | ON-COL ( PPBV) | TARGET RANGE | RATIO |
|---|---|---|---|---|---|---|---|
| 187 2,3-Dichloropropene | | | | | CAS #: 78-88-6 | | |
| 18.519 | 18.519 (1.148) | 75 | 62146 | 2.00000 | 2.126 | 70.00- 130.00 | 100.00 |
| 18.519 | 18.519 (1.148) | 77 | 18994 | | | 0.00- 30.00 | 30.56 |
| 18.519 | 18.519 (1.148) | 39 | 25038 | | | 0.00- 30.00 | 40.29 |
| 186 1,1-Dichloropropene | | | | | CAS #: 563-58-6 | | |
| 16.682 | 16.682 (1.034) | 110 | 14777 | 2.00000 | 2.020 | 70.00- 130.00 | 100.00 |
| 16.682 | 16.682 (1.034) | 75 | 47647 | | | 0.00- 30.00 | 322.44 |
| 79 1,1,1,2-Tetrachloroethane | | | | | CAS #: 630-20-6 | | |
| 23.071 | 23.071 (1.006) | 131 | 52512 | 2.00000 | 1.971 | 70.00- 130.00 | 100.00 |
| 23.071 | 23.071 (1.006) | 117 | 30518 | | | 0.00- 30.00 | 58.12 |
| 23.071 | 23.071 (1.006) | 95 | 26055 | | | 0.00- 30.00 | 49.62 |
| 91 1,2,3-Trichloropropane | | | | | CAS #: 96-18-4 | | |
| 24.783 | 24.783 (1.081) | 110 | 32895 | 2.00000 | 1.926 | 70.00- 130.00 | 100.00 |
| 24.783 | 24.783 (1.081) | 75 | 90174 | | | 0.00- 30.00 | 274.13 |
| 24.783 | 24.783 (1.081) | 61 | 18435 | | | 0.00- 30.00 | 56.04 |
| 93 2-Chlorotoluene | | | | | CAS #: 95-49-8 | | |
| 24.938 | 24.938 (1.088) | 126 | 37417 | 2.00000 | 2.005 | 70.00- 130.00 | 100.00 |
| 24.938 | 24.938 (1.088) | 91 | 138214 | | | 0.00- 30.00 | 369.39 |
| 24.912 | 24.912 (1.087) | 65 | 11977 | | | 0.00- 30.00 | 32.01 |
| 96 4-Chlorotoluene | | | | | CAS #: 106-43-4 | | |
| 25.067 | 25.067 (1.093) | 126 | 54427 | 2.00000 | 1.973 | 70.00- 130.00 | 100.00 |
| 25.067 | 25.067 (1.093) | 91 | 194999 | | | 0.00- 30.00 | 358.28 |
| 25.067 | 25.067 (1.093) | 57 | 67286 | | | 0.00- 30.00 | 123.63 |
| 97 tert-Butylbenzene | | | | | CAS #: 98-06-6 | | |
| 25.343 | 25.343 (1.105) | 119 | 126225 | 2.00000 | 2.017 | 70.00- 130.00 | 100.00 |
| 25.343 | 25.343 (1.105) | 134 | 27965 | | | 0.00- 30.00 | 22.15 |
| 25.343 | 25.343 (1.105) | 91 | 105310 | | | 0.00- 30.00 | 83.43 |
| 99 sec-Butylbenzene | | | | | CAS #: 135-98-8 | | |
| 25.589 | 25.589 (1.116) | 105 | 193880 | 2.00000 | 1.949 | 70.00- 130.00 | 100.00 |
| 25.589 | 25.589 (1.116) | 134 | 34928 | | | 0.00- 30.00 | 18.02 |
| 25.589 | 25.589 (1.116) | 91 | 35464 | | | 0.00- 30.00 | 18.29 |
| 100 p-Cymene | | | | | CAS #: 99-87-6 | | |
| 25.724 | 25.724 (1.122) | 119 | 153356 | 2.00000 | 2.046 | 70.00- 130.00 | 100.00 |
| 25.724 | 25.724 (1.122) | 134 | 35105 | | | 0.00- 30.00 | 22.89 |
| 25.724 | 25.724 (1.122) | 91 | 45463 | | | 0.00- 30.00 | 29.65 |
| 103 1,2,3-trimethylbenzene | | | | | CAS #: 526-73-8 | | |
| 25.903 | 25.903 (1.130) | 120 | 59386 | 2.00000 | 2.045 | 70.00- 130.00 | 100.00 |

| RT | EXP RT (REL RT) | MASS | RESPONSE | AMOUNTS CAL-AMT ( PPBV) | ON-COL ( PPBV) | TARGET RANGE | RATIO |
|---|---|---|---|---|---|---|---|
| 103 1,2,3-trimethylbenzene (continued) | | | | | | | |
| 25.903 | 25.903 (1.130) | 105 | 156756 | | | 0.00- 30.00 | 263.96 |
| 25.903 | 25.903 (1.130) | 77 | 21186 | | | 0.00- 30.00 | 35.68 |
| 107 Butylbenzene | | | | | CAS #: 104-51-8 | | |
| 26.195 | 26.195 (1.143) | 134 | 32059 | 2.00000 | 1.921 | 70.00- 130.00 | 100.00 |
| 26.195 | 26.195 (1.143) | 91 | 154878 | | | 445.46- 505.46 | 483.10 |
| 26.195 | 26.195 (1.143) | 92 | 82690 | | | 0.00- 30.00 | 257.93 |
| 110 1,2-dibromo-3-chloropropane | | | | | CAS #: 96-12-8 | | |
| 27.226 | 27.226 (1.188) | 157 | 38405 | 2.00000 | 2.157 | 70.00- 130.00 | 100.00 |
| 27.226 | 27.226 (1.188) | 75 | 46712 | | | 0.00- 30.00 | 121.63 |
| 27.226 | 27.226 (1.188) | 155 | 28589 | | | 0.00- 30.00 | 74.44 |
| 86 1,3-Dichloropropane | | | | | CAS #: 142-28-9 | | |
| 21.692 | 21.692 (1.234) | 76 | 56520 | 2.00000 | 1.901 | 70.00- 130.00 | 100.00 |
| 21.660 | 21.660 (1.232) | 41 | 26822 | | | 30.10- 90.10 | 47.46 |
| 21.692 | 21.692 (1.234) | 78 | 17806 | | | 0.00- 30.00 | 31.50 |
| 185 Bromobenzene | | | | | CAS #: 108-86-1 | | |
| 24.732 | 24.732 (1.079) | 156 | 52149 | 2.00000 | 1.868 | 70.00- 130.00 | 100.00 |
| 24.732 | 24.732 (1.079) | 158 | 51259 | | | 0.00- 30.00 | 98.29 |
| 24.732 | 24.732 (1.079) | 77 | 126744 | | | 0.00- 30.00 | 243.04 |

Report Date: 10-Mar-2012 13:50

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msde.i
Lab File ID: e031005.d
Lab Smp Id: ICAL
Analysis Type: VOA
Quant Type: ISTD
Operator: cr
Method File: /chem/msde.i/10Mar2012.b/e12l0308b.m
Misc Info: 2.0ppbv (5.0ppbv) -- AT5

Calibration Date: 10-MAR-2012
Calibration Time: 11:52
Client Smp ID: Level 7
Level: LOW
Sample Type: AIR

| | | AREA LIMIT | | | |
|---|---|---|---|---|---|
| COMPOUND | STANDARD | LOWER | UPPER | SAMPLE | %DIFF |
| 46 Bromochloromethan | 53284 | 31970 | 74598 | 52583 | -1.32 |
| 58 1,4-Difluorobenze | 199260 | 119556 | 278964 | 198695 | -0.28 |
| 75 Chlorobenzene-d5 | 174009 | 104405 | 243613 | 173908 | -0.06 |

| | | RT LIMIT | | | |
|---|---|---|---|---|---|
| COMPOUND | STANDARD | LOWER | UPPER | SAMPLE | %DIFF |
| 46 Bromochloromethan | 16.13 | 15.80 | 16.46 | 16.13 | 0.00 |
| 58 1,4-Difluorobenze | 17.59 | 17.26 | 17.92 | 17.59 | 0.00 |
| 75 Chlorobenzene-d5 | 22.93 | 22.60 | 23.26 | 22.93 | 0.00 |

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Data File: /chem/msde.i/10Mar2012.b/e031005.d

Date : 10-MAR-2012 12:34

Client ID: Level 7

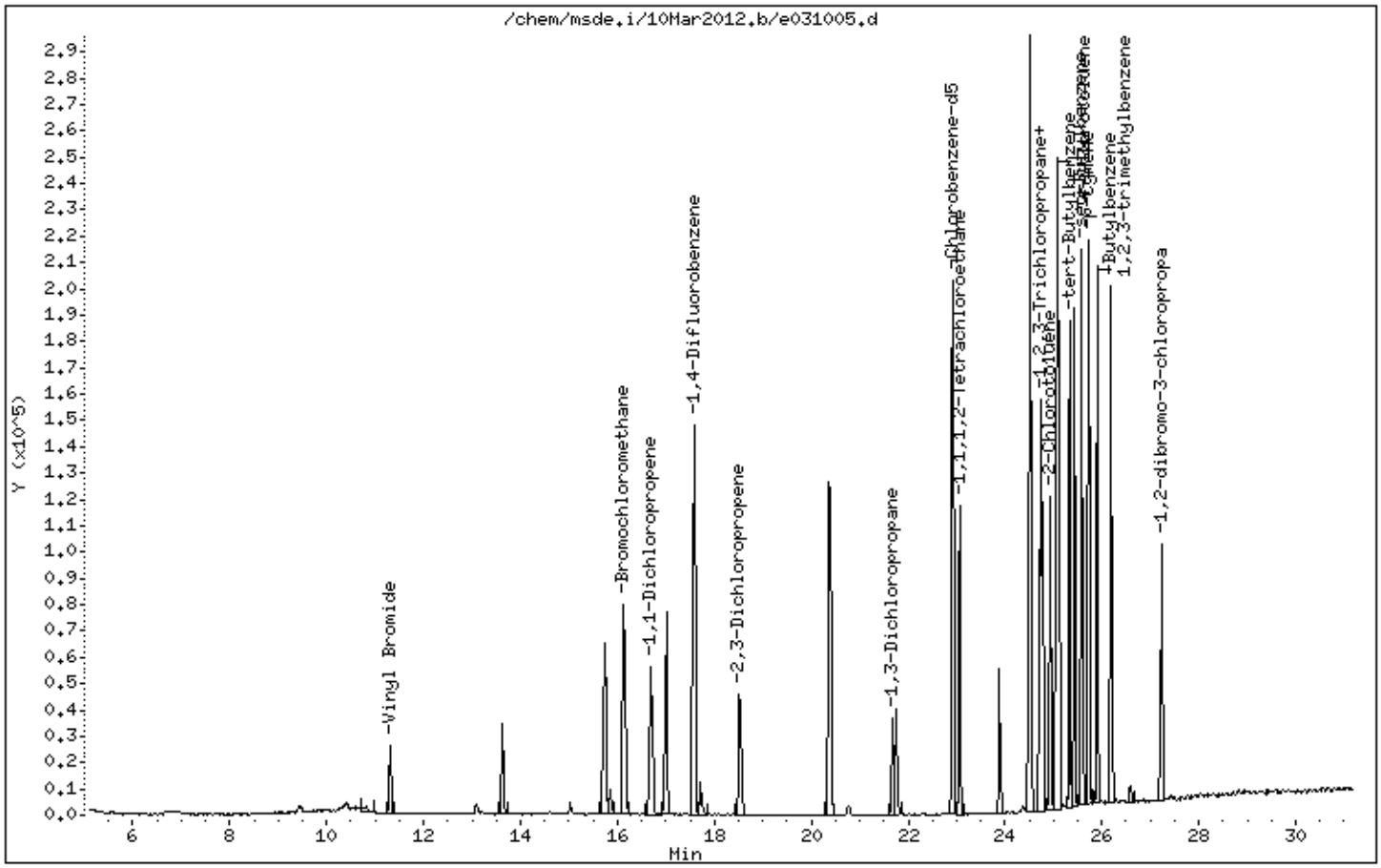
Instrument: msde.i

Sample Info: 100mL #2403-8

Operator: cr

Column phase: RTx-624

Column diameter: 0.32



Air Toxics Ltd.

EPA TO-15/Modified TO14A

Data file : /chem/msde.i/08Mar2012.b/e030813.d
Lab Smp Id: ICAL Client Smp ID: Level 7
Inj Date : 08-MAR-2012 20:22
Operator : srs Inst ID: msde.i
Smp Info : 250mL #2403-57
Misc Info : 2.0ppbv (2.0ppbv)
Comment : Low-Level/GC-MS
Method : /chem/msde.i/08Mar2012.b/e12l0308a.m
Meth Date : 13-Mar-2012 09:29 croush Quant Type: ISTD
Cal Date : 08-MAR-2012 20:22 Cal File: e030813.d
Als bottle: 8 Calibration Sample, Level: 7
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: HILOcrvFULL.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

| Name | Value | Description |
|---|---|---|
| DF | 1.00000 | Dilution Factor |

| | | | | AMOUNTS | | | |
|---|---|---|---|---|---|---|---|
| | | | | CAL-AMT | ON-COL | | |
| RT | EXP RT (REL RT) | MASS | RESPONSE | ( PPBV) | ( PPBV) | TARGET RANGE | RATIO |
| == | ====== ======== | ==== | ======== | ======= | ======= | ========== | ===== |
| * 46 Bromochloromethane | | | | | | CAS #: 74-97-5 | |
| 16.127 | 16.127 (1.000) | 130 | 67721 | 5.00000 | | 70.00- 130.00 | 100.00 |
| 16.127 | 16.127 (1.000) | 128 | 52092 | | | 0.00- 30.00 | 76.92 |
| 16.127 | 16.127 (1.000) | 49 | 72241 | | | 0.00- 30.00 | 106.67 |
| * 58 1,4-Difluorobenzene | | | | | | CAS #: 540-36-3 | |
| 17.585 | 17.585 (1.000) | 114 | 259367 | 5.00000 | | 70.00- 130.00 | 100.00 |
| 17.585 | 17.585 (1.000) | 88 | 46746 | | | 0.00- 30.00 | 18.02 |
| * 75 Chlorobenzene-d5 | | | | | | CAS #: 3114-55-4 | |
| 22.927 | 22.927 (1.000) | 117 | 220923 | 5.00000 | | 70.00- 130.00 | 100.00 |
| 22.927 | 22.927 (1.000) | 82 | 149743 | | | 0.00- 30.00 | 67.78 |
| $ 54 1,2-Dichloroethane-d4 | | | | | | CAS #: 17060-07-0 | |
| 17.013 | 17.013 (1.055) | 65 | 127927 | 5.00000 | 5.069 | 70.00- 130.00 | 100.00 |
| 17.013 | 17.013 (1.055) | 67 | 64391 | | | 0.00- 30.00 | 50.33 |

| RT | EXP RT (REL RT) | MASS | RESPONSE | AMOUNTS CAL-AMT ( PPBV) | ON-COL ( PPBV) | TARGET RANGE | RATIO |
|---|---|---|---|---|---|---|---|
| $ 67 Toluene-d8 | | | | | CAS #: 2037-26-5 | | |
| 20.368 | 20.368 (1.158) | 98 | 261497 | 5.00000 | 5.005 | 70.00- 130.00 | 100.00 |
| 20.368 | 20.368 (1.158) | 70 | 32487 | | | 0.00- 30.00 | 12.42 |
| 20.368 | 20.368 (1.158) | 100 | 168776 | | | 33.91- 93.91 | 64.54 |
| $ 87 Bromofluorobenzene | | | | | CAS #: 460-00-4 | | |
| 24.525 | 24.525 (1.070) | 174 | 130975 | 5.00000 | 5.182 | 70.00- 130.00 | 100.00 |
| 24.525 | 24.525 (1.070) | 95 | 212929 | | | 125.57- 185.57 | 162.57 |
| 24.525 | 24.525 (1.070) | 176 | 129887 | | | 64.73- 124.73 | 99.17 |
| 2 Propylene | | | | | CAS #: 115-07-1 | | |
| 5.521 | 5.521 (0.342) | 41 | 20477 | 2.00000 | 1.897 | 70.00- 130.00 | 100.00 |
| 5.497 | 5.497 (0.341) | 42 | 13222 | | | 0.00- 30.00 | 64.57 |
| 5.497 | 5.497 (0.341) | 39 | 17153 | | | 0.00- 30.00 | 83.77 |
| 4 Dichlorodifluoromethane/Fr12 | | | | | CAS #: 75-71-8 | | |
| 5.979 | 5.979 (0.371) | 85 | 152447 | 2.00000 | 1.926 | 70.00- 130.00 | 100.00 |
| 5.955 | 5.955 (0.369) | 87 | 49795 | | | 2.22- 62.22 | 32.66 |
| 6 Freon 114 | | | | | CAS #: 76-14-2 | | |
| 7.329 | 7.329 (0.454) | 135 | 77548 | 2.00000 | 1.883 | 70.00- 130.00 | 100.00 |
| 7.329 | 7.329 (0.454) | 137 | 24586 | | | 0.00- 30.00 | 31.70 |
| 7 Chloromethane | | | | | CAS #: 74-87-3 | | |
| 7.715 | 7.715 (0.478) | 50 | 23188 | 2.00000 | 1.982 | 70.00- 130.00 | 100.00 |
| 7.715 | 7.715 (0.478) | 52 | 7704 | | | 0.00- 30.00 | 33.22 |
| 9 Butane | | | | | CAS #: 106-97-8 | | |
| 8.422 | 8.422 (0.522) | 58 | 6632 | 2.00000 | 1.648 | 70.00- 130.00 | 100.00 |
| 8.404 | 8.404 (0.521) | 43 | 43602 | | | 0.00- 30.00 | 657.45 |
| 10 Vinyl Chloride | | | | | CAS #: 75-01-4 | | |
| 8.543 | 8.543 (0.530) | 62 | 34262 | 2.00000 | 1.856 | 70.00- 130.00 | 100.00 |
| 8.543 | 8.543 (0.530) | 64 | 10707 | | | 2.55- 62.55 | 31.25 |
| 11 1,3-Butadiene | | | | | CAS #: 106-99-0 | | |
| 8.786 | 8.786 (0.545) | 54 | 20464 | 2.00000 | 1.764 | 70.00- 130.00 | 100.00 |
| 8.786 | 8.786 (0.545) | 39 | 20107 | | | 0.00- 30.00 | 98.26 |
| 12 Bromomethane | | | | | CAS #: 74-83-9 | | |
| 10.251 | 10.251 (0.636) | 94 | 38254 | 2.00000 | 1.874 | 70.00- 130.00 | 100.00 |
| 10.251 | 10.251 (0.636) | 96 | 37001 | | | 65.25- 125.25 | 96.72 |
| 13 Chloroethane | | | | | CAS #: 75-00-3 | | |
| 10.728 | 10.728 (0.665) | 64 | 20834 | 2.00000 | 2.118 | 70.00- 130.00 | 100.00 |
| 10.728 | 10.728 (0.665) | 49 | 4480 | | | 0.00- 30.00 | 21.50 |

| RT | EXP RT (REL RT) | MASS | RESPONSE | AMOUNTS CAL-AMT ( PPBV) | ON-COL ( PPBV) | TARGET RANGE | RATIO |
|---|---|---|---|---|---|---|---|
| 13 Chloroethane (continued) | | | | | | | |
| 10.728 | 10.728 (0.665) | 66 | 6850 | | | 0.00- 30.00 | 32.88 |
| 14 Isopentane | | | | | CAS #: 78-78-4 | | |
| 10.852 | 10.852 (0.673) | 57 | 24489 | 2.00000 | 1.971 | 70.00- 130.00 | 100.00 |
| 10.852 | 10.852 (0.673) | 43 | 28652 | | | 0.00- 30.00 | 117.00 |
| 10.852 | 10.852 (0.673) | 42 | 24787 | | | 0.00- 30.00 | 101.22 |
| 16 Trichlorofluoromethane/Fr11 | | | | | CAS #: 75-69-4 | | |
| 11.474 | 11.474 (0.711) | 101 | 158597 | 2.00000 | 1.900 | 70.00- 130.00 | 100.00 |
| 11.474 | 11.474 (0.711) | 103 | 102772 | | | 36.02- 96.02 | 64.80 |
| 18 Ethanol | | | | | CAS #: 64-17-5 | | |
| 12.344 | 12.344 (0.765) | 45 | 7828 | 2.00000 | 1.796 | 70.00- 130.00 | 100.00 |
| 12.344 | 12.344 (0.765) | 46 | 2733 | | | 0.00- 30.00 | 34.91 |
| 12.344 | 12.344 (0.765) | 43 | 2065 | | | 0.00- 30.00 | 26.38 |
| 19 Freon 113 | | | | | CAS #: 76-13-1 | | |
| 12.800 | 12.800 (0.794) | 151 | 68154 | 2.00000 | 1.931 | 70.00- 130.00 | 100.00 |
| 12.800 | 12.800 (0.794) | 153 | 42515 | | | 34.27- 94.27 | 62.38 |
| 12.800 | 12.800 (0.794) | 101 | 92272 | | | 0.00- 30.00 | 135.39 |
| 21 1,1-Dichloroethene | | | | | CAS #: 75-35-4 | | |
| 12.821 | 12.821 (0.795) | 98 | 21682 | 2.00000 | 1.807 | 70.00- 130.00 | 100.00 |
| 12.821 | 12.821 (0.795) | 61 | 56788 | | | 0.00- 30.00 | 261.91 |
| 12.821 | 12.821 (0.795) | 96 | 35173 | | | 0.00- 30.00 | 162.22 |
| 22 Acetone | | | | | CAS #: 67-64-1 | | |
| 13.070 | 13.070 (0.810) | 58 | 15027 | 2.00000 | 1.963 | 70.00- 130.00 | 100.00 |
| 13.070 | 13.070 (0.810) | 43 | 48535 | | | 0.00- 30.00 | 322.99 |
| 25 2-Propanol | | | | | CAS #: 67-63-0 | | |
| 13.381 | 13.381 (0.830) | 45 | 35178 | 2.00000 | 1.700 | 70.00- 130.00 | 100.00 |
| 13.381 | 13.381 (0.830) | 43 | 12022 | | | 0.00- 30.00 | 34.17 |
| 13.381 | 13.381 (0.830) | 59 | 1262 | | | 0.00- 30.00 | 3.59 |
| 23 Carbon Disulfide | | | | | CAS #: 75-15-0 | | |
| 13.194 | 13.194 (0.818) | 76 | 99737 | 2.00000 | 1.980 | 70.00- 130.00 | 100.00 |
| 26 3-Chloroprene | | | | | CAS #: 107-05-1 | | |
| 13.588 | 13.588 (0.843) | 76 | 13015 | 2.00000 | 1.752 | 70.00- 130.00 | 100.00 |
| 13.588 | 13.588 (0.843) | 41 | 21825 | | | 0.00- 30.00 | 167.69 |
| 29 Methylene Chloride | | | | | CAS #: 75-09-2 | | |
| 13.885 | 13.885 (0.861) | 84 | 16988 | 2.00000 | 1.798 | 70.00- 130.00 | 100.00 |
| 13.885 | 13.885 (0.861) | 49 | 13048 | | | 0.00- 30.00 | 76.81 |

| RT | EXP RT (REL RT) | MASS | RESPONSE | AMOUNTS CAL-AMT ( PPBV) | ON-COL ( PPBV) | TARGET RANGE | RATIO |
|---|---|---|---|---|---|---|---|
| 29 Methylene Chloride (continued) | | | | | | | |
| 14.187 | 14.187 (0.880) | 51 | 1322 | | | 0.00- 30.00 | 7.78 |
| 30 tert-butyl alcohol | | | | | CAS #: 75-65-0 | | |
| 14.022 | 14.022 (0.869) | 59 | 33574 | 2.00000 | 1.711 | 70.00- 130.00 | 100.00 |
| 14.022 | 14.022 (0.869) | 41 | 8274 | | | 0.00- 30.00 | 24.64 |
| 14.022 | 14.022 (0.869) | 57 | 3556 | | | 0.00- 30.00 | 10.59 |
| 31 MTBE | | | | | CAS #: 1634-04-4 | | |
| 14.187 | 14.187 (0.880) | 73 | 112422 | 2.00000 | 1.847 | 70.00- 130.00 | 100.00 |
| 14.187 | 14.187 (0.880) | 57 | 19151 | | | 0.00- 30.00 | 17.03 |
| 14.187 | 14.187 (0.880) | 41 | 20037 | | | 0.00- 30.00 | 17.82 |
| 32 trans-1,2-Dichloroethene | | | | | CAS #: 156-60-5 | | |
| 14.242 | 14.242 (0.883) | 98 | 23723 | 2.00000 | 1.845 | 70.00- 130.00 | 100.00 |
| 14.242 | 14.242 (0.883) | 61 | 49639 | | | 0.00- 30.00 | 209.24 |
| 14.242 | 14.242 (0.883) | 96 | 38952 | | | 0.00- 30.00 | 164.20 |
| 35 Hexane | | | | | CAS #: 110-54-3 | | |
| 14.544 | 14.544 (0.902) | 57 | 41697 | 2.00000 | 1.890 | 70.00- 130.00 | 100.00 |
| 14.544 | 14.544 (0.902) | 43 | 22094 | | | 0.00- 30.00 | 52.99 |
| 14.544 | 14.544 (0.902) | 86 | 10428 | | | 0.00- 30.00 | 25.01 |
| 36 Isopropyl ether | | | | | CAS #: 108-20-3 | | |
| 14.873 | 14.873 (0.922) | 45 | 40909 | 2.00000 | 1.710 | 70.00- 130.00 | 100.00 |
| 14.873 | 14.873 (0.922) | 87 | 20106 | | | 0.00- 30.00 | 49.15 |
| 14.873 | 14.873 (0.922) | 59 | 7166 | | | 0.00- 30.00 | 17.52 |
| 37 1,1-Dichloroethane | | | | | CAS #: 75-34-3 | | |
| 14.956 | 14.956 (0.927) | 63 | 72978 | 2.00000 | 2.008 | 70.00- 130.00 | 100.00 |
| 14.956 | 14.956 (0.927) | 65 | 24381 | | | 0.00- 30.00 | 33.41 |
| 38 Vinyl Acetate | | | | | CAS #: 108-05-4 | | |
| 14.956 | 14.956 (0.927) | 86 | 9666 | 2.00000 | 1.800 | 70.00- 130.00 | 100.00 |
| 14.956 | 14.956 (0.927) | 42 | 7264 | | | 0.00- 30.00 | 75.15 |
| 14.956 | 14.956 (0.927) | 43 | 64244 | | | 0.00- 30.00 | 664.64 |
| 40 Ethyl-tert-butyl ether | | | | | CAS #: 637-92-3 | | |
| 15.368 | 15.368 (0.953) | 59 | 55690 | 2.00000 | 1.671 | 70.00- 130.00 | 100.00 |
| 15.368 | 15.368 (0.953) | 87 | 27554 | | | 0.00- 30.00 | 49.48 |
| 15.368 | 15.368 (0.953) | 41 | 11705 | | | 0.00- 30.00 | 21.02 |
| 42 2-Butanone | | | | | CAS #: 78-93-3 | | |
| 15.766 | 15.766 (0.978) | 72 | 23955 | 2.00000 | 1.726 | 70.00- 130.00 | 100.00 |
| 15.766 | 15.766 (0.978) | 43 | 68685 | | | 0.00- 30.00 | 286.73 |
| 15.766 | 15.766 (0.978) | 57 | 6492 | | | 0.00- 30.00 | 27.10 |

| RT | EXP RT (REL RT) | MASS | RESPONSE | AMOUNTS CAL-AMT ( PPBV) | ON-COL ( PPBV) | TARGET RANGE | RATIO |
|---|---|---|---|---|---|---|---|
| 41 cis-1,2-Dichloroethene | | | | | CAS #: 156-59-2 | | |
| 15.787 | 15.787 (0.979) | 98 | 38533 | 2.00000 | 1.993 | 70.00- 130.00 | 100.00 |
| 15.787 | 15.787 (0.979) | 61 | 70804 | | | 0.00- 30.00 | 183.75 |
| 15.787 | 15.787 (0.979) | 96 | 61011 | | | 124.52- 184.52 | 158.33 |
| 44 Tetrahydrofuran | | | | | CAS #: 109-99-9 | | |
| 16.127 | 16.127 (1.000) | 42 | 25371 | 2.00000 | 1.834 | 70.00- 130.00 | 100.00 |
| 16.127 | 16.127 (1.000) | 71 | 16724 | | | 0.00- 30.00 | 65.92 |
| 16.127 | 16.127 (1.000) | 72 | 18516 | | | 0.00- 30.00 | 72.98 |
| 47 Chloroform | | | | | CAS #: 67-66-3 | | |
| 16.189 | 16.189 (1.004) | 83 | 107167 | 2.00000 | 1.927 | 70.00- 130.00 | 100.00 |
| 16.189 | 16.189 (1.004) | 85 | 67610 | | | 0.00- 30.00 | 63.09 |
| 49 1,1,1-Trichloroethane | | | | | CAS #: 71-55-6 | | |
| 16.466 | 16.466 (1.021) | 97 | 119128 | 2.00000 | 1.874 | 70.00- 130.00 | 100.00 |
| 16.466 | 16.466 (1.021) | 99 | 75199 | | | 0.00- 30.00 | 63.12 |
| 48 Cyclohexane | | | | | CAS #: 110-82-7 | | |
| 16.466 | 16.466 (1.021) | 84 | 55898 | 2.00000 | 1.882 | 70.00- 130.00 | 100.00 |
| 16.466 | 16.466 (1.021) | 56 | 42814 | | | 0.00- 30.00 | 76.59 |
| 16.466 | 16.466 (1.021) | 41 | 22987 | | | 0.00- 30.00 | 41.12 |
| 51 Carbon Tetrachloride | | | | | CAS #: 56-23-5 | | |
| 16.651 | 16.651 (1.032) | 119 | 51822 | 2.00000 | 1.090 | 70.00- 130.00 | 100.00 |
| 16.651 | 16.651 (1.032) | 117 | 50845 | | | 0.00- 30.00 | 98.11 |
| 52 2,2,4-Trimethylpentane | | | | | CAS #: 540-84-1 | | |
| 16.925 | 16.925 (1.049) | 56 | 61627 | 2.00000 | 1.811 | 70.00- 130.00 | 100.00 |
| 16.925 | 16.925 (1.049) | 57 | 187495 | | | 0.00- 30.00 | 304.24 |
| 16.925 | 16.925 (1.049) | 41 | 57381 | | | 0.00- 30.00 | 93.11 |
| 53 Benzene | | | | | CAS #: 71-43-2 | | |
| 17.013 | 17.013 (0.967) | 78 | 127797 | 2.00000 | 1.921 | 70.00- 130.00 | 100.00 |
| 17.013 | 17.013 (0.967) | 77 | 29745 | | | 0.00- 30.00 | 23.28 |
| 55 tert-amyl methyl ether | | | | | CAS #: 994-05-8 | | |
| 17.042 | 17.042 (0.969) | 87 | 17511 | 2.00000 | 1.786 | 70.00- 130.00 | 100.00 |
| 17.042 | 17.042 (0.969) | 73 | 72451 | | | 0.00- 30.00 | 413.75 |
| 17.042 | 17.042 (0.969) | 55 | 18646 | | | 0.00- 30.00 | 106.48 |
| 56 1,2-Dichloroethane | | | | | CAS #: 107-06-2 | | |
| 17.129 | 17.129 (0.974) | 62 | 71522 | 2.00000 | 1.906 | 70.00- 130.00 | 100.00 |
| 17.129 | 17.129 (0.974) | 64 | 22968 | | | 0.00- 30.00 | 32.11 |
| 57 Heptane | | | | | CAS #: 142-82-5 | | |
| 17.159 | 17.159 (0.976) | 57 | 28488 | 2.00000 | 2.072 | 70.00- 130.00 | 100.00 |

| RT | EXP RT (REL RT) | MASS | RESPONSE | AMOUNTS CAL-AMT ( PPBV) | ON-COL ( PPBV) | TARGET RANGE | RATIO |
|---|---|---|---|---|---|---|---|
| 57 Heptane (continued) | | | | | | | |
| 17.159 | 17.159 (0.976) | 100 | 18018 | | | 0.00- 30.00 | 63.25 |
| 17.159 | 17.159 (0.976) | 43 | 42336 | | | 0.00- 30.00 | 148.61 |
| 59 Trichloroethene | | | | | CAS #: 79-01-6 | | |
| 18.025 | 18.025 (1.025) | 130 | 50304 | 2.00000 | 1.712 | 70.00- 130.00 | 100.00 |
| 18.025 | 18.025 (1.025) | 95 | 58074 | | | 0.00- 30.00 | 115.45 |
| 18.025 | 18.025 (1.025) | 97 | 38681 | | | 0.00- 30.00 | 76.89 |
| 60 Methylcyclohexane | | | | | CAS #: 108-87-2 | | |
| 18.272 | 18.272 (1.039) | 83 | 65100 | 2.00000 | 1.715 | 70.00- 130.00 | 100.00 |
| 18.272 | 18.272 (1.039) | 55 | 41741 | | | 0.00- 30.00 | 64.12 |
| 18.272 | 18.272 (1.039) | 56 | 12497 | | | 0.00- 30.00 | 19.20 |
| 61 1,2-Dichloropropane | | | | | CAS #: 78-87-5 | | |
| 18.519 | 18.519 (1.053) | 63 | 36233 | 2.00000 | 1.771 | 70.00- 130.00 | 100.00 |
| 18.519 | 18.519 (1.053) | 62 | 25998 | | | 0.00- 30.00 | 71.75 |
| 18.519 | 18.519 (1.053) | 41 | 22376 | | | 29.06- 89.06 | 61.76 |
| 62 1,4-Dioxane | | | | | CAS #: 123-91-1 | | |
| 18.629 | 18.629 (1.059) | 88 | 27675 | 2.00000 | 1.897 | 70.00- 130.00 | 100.00 |
| 18.629 | 18.629 (1.059) | 58 | 16394 | | | 0.00- 30.00 | 59.24 |
| 18.629 | 18.629 (1.059) | 57 | 4929 | | | 0.00- 30.00 | 17.81 |
| 63 Bromodichloromethane | | | | | CAS #: 75-27-4 | | |
| 18.958 | 18.958 (1.078) | 83 | 105680 | 2.00000 | 1.849 | 70.00- 130.00 | 100.00 |
| 18.958 | 18.958 (1.078) | 85 | 64501 | | | 0.00- 30.00 | 61.03 |
| 64 cis-1,3-Dichloropropene | | | | | CAS #: 10061-01-5 | | |
| 19.865 | 19.865 (1.130) | 75 | 64273 | 2.00000 | 1.816 | 70.00- 130.00 | 100.00 |
| 19.865 | 19.865 (1.130) | 77 | 19755 | | | 0.00- 30.00 | 30.74 |
| 19.865 | 19.865 (1.130) | 39 | 25009 | | | 10.38- 70.38 | 38.91 |
| 65 4-Methyl-2-pentanone | | | | | CAS #: 108-10-1 | | |
| 20.076 | 20.076 (1.142) | 43 | 46314 | 2.00000 | 1.752 | 70.00- 130.00 | 100.00 |
| 20.076 | 20.076 (1.142) | 58 | 22362 | | | 0.00- 30.00 | 48.28 |
| 20.076 | 20.076 (1.142) | 85 | 13427 | | | 0.00- 30.00 | 28.99 |
| 68 Toluene | | | | | CAS #: 108-88-3 | | |
| 20.524 | 20.524 (1.167) | 91 | 146030 | 2.00000 | 1.839 | 70.00- 130.00 | 100.00 |
| 20.524 | 20.524 (1.167) | 92 | 88091 | | | 0.00- 30.00 | 60.32 |
| 69 trans-1,3-Dichloropropene | | | | | CAS #: 10061-02-6 | | |
| 20.995 | 20.995 (0.916) | 75 | 91101 | 2.00000 | 1.923 | 70.00- 130.00 | 100.00 |
| 20.995 | 20.995 (0.916) | 77 | 20826 | | | 0.00- 30.00 | 22.86 |
| 20.995 | 20.995 (0.916) | 39 | 23843 | | | 4.84- 64.84 | 26.17 |

| | | | | AMOUNTS | | | |
|---|---|---|---|---|---|---|---|
| | | | | CAL-AMT | ON-COL | | |
| RT | EXP RT (REL RT) | MASS | RESPONSE | ( PPBV) | ( PPBV) | TARGET RANGE | RATIO |
| == | ====== ======== | ==== | ======== | ======= | ======= | ========== | ===== |
| 70 1,1,2-Trichloroethane | | | | | CAS #: 79-00-5 | | |
| 21.335 | 21.335 (0.931) | 97 | 53338 | 2.00000 | 1.869 | 70.00- 130.00 | 100.00 |
| 21.335 | 21.335 (0.931) | 99 | 31706 | | | 0.00- 30.00 | 59.44 |
| 21.335 | 21.335 (0.931) | 83 | 43309 | | | 52.76- 112.76 | 81.20 |
| 71 Tetrachloroethene | | | | | CAS #: 127-18-4 | | |
| 21.497 | 21.497 (0.938) | 166 | 62324 | 2.00000 | 1.881 | 70.00- 130.00 | 100.00 |
| 21.497 | 21.497 (0.938) | 129 | 53898 | | | 0.00- 30.00 | 86.48 |
| 21.497 | 21.497 (0.938) | 131 | 52068 | | | 0.00- 30.00 | 83.54 |
| 72 2-Hexanone | | | | | CAS #: 591-78-6 | | |
| 21.660 | 21.660 (0.945) | 58 | 29412 | 2.00000 | 1.628 | 70.00- 130.00 | 100.00 |
| 21.660 | 21.660 (0.945) | 43 | 47031 | | | 0.00- 30.00 | 159.90 |
| 21.660 | 21.660 (0.945) | 100 | 7752 | | | 0.00- 30.00 | 26.36 |
| 73 Dibromochloromethane | | | | | CAS #: 124-48-1 | | |
| 22.017 | 22.017 (0.960) | 129 | 85099 | 2.00000 | 1.752 | 70.00- 130.00 | 100.00 |
| 22.017 | 22.017 (0.960) | 127 | 66635 | | | 0.00- 30.00 | 78.30 |
| 74 1,2-Dibromoethane | | | | | CAS #: 106-93-4 | | |
| 22.278 | 22.278 (0.972) | 107 | 82302 | 2.00000 | 1.880 | 70.00- 130.00 | 100.00 |
| 22.278 | 22.278 (0.972) | 109 | 73369 | | | 0.00- 30.00 | 89.15 |
| 76 Chlorobenzene | | | | | CAS #: 108-90-7 | | |
| 22.975 | 22.975 (1.002) | 112 | 118198 | 2.00000 | 1.877 | 70.00- 130.00 | 100.00 |
| 22.975 | 22.975 (1.002) | 114 | 38140 | | | 0.00- 30.00 | 32.27 |
| 22.951 | 22.951 (1.001) | 77 | 80758 | | | 36.24- 96.24 | 68.32 |
| 77 Ethyl Benzene | | | | | CAS #: 100-41-4 | | |
| 23.047 | 23.047 (1.005) | 106 | 59151 | 2.00000 | 1.923 | 70.00- 130.00 | 100.00 |
| 23.023 | 23.023 (1.004) | 91 | 206752 | | | 0.00- 30.00 | 349.53 |
| 80 m,p-Xylene | | | | | CAS #: 108-38-3 | | |
| 23.192 | 23.192 (1.012) | 106 | 72295 | 2.00000 | 1.953 | 70.00- 130.00 | 100.00 |
| 23.192 | 23.192 (1.012) | 91 | 159412 | | | 0.00- 30.00 | 220.50 |
| 81 o-Xylene | | | | | CAS #: 95-47-6 | | |
| 23.770 | 23.770 (1.037) | 106 | 68598 | 2.00000 | 1.928 | 70.00- 130.00 | 100.00 |
| 23.770 | 23.770 (1.037) | 91 | 160986 | | | 0.00- 30.00 | 234.68 |
| 83 Styrene | | | | | CAS #: 100-42-5 | | |
| 23.818 | 23.818 (1.039) | 104 | 103270 | 2.00000 | 1.923 | 70.00- 130.00 | 100.00 |
| 23.794 | 23.794 (1.038) | 78 | 61997 | | | 0.00- 30.00 | 60.03 |
| 84 Bromoform | | | | | CAS #: 75-25-2 | | |
| 24.131 | 24.131 (1.053) | 173 | 70579 | 2.00000 | 1.681 | 70.00- 130.00 | 100.00 |

| RT | EXP RT (REL RT) | MASS | RESPONSE | AMOUNTS CAL-AMT ( PPBV) | ON-COL ( PPBV) | TARGET RANGE | RATIO |
|---|---|---|---|---|---|---|---|
| 84 Bromoform (continued) | | | | | | | |
| 24.131 | 24.131 (1.053) | 171 | 36638 | | | 0.00- 30.00 | 51.91 |
| 85 Cumene | | | | | CAS #: 98-82-8 | | |
| 24.228 | 24.228 (1.057) | 105 | 227400 | 2.00000 | 1.974 | 70.00- 130.00 | 100.00 |
| 24.228 | 24.228 (1.057) | 120 | 57683 | | | 0.00- 30.00 | 25.37 |
| 89 1,1,2,2-Tetrachloroethane | | | | | CAS #: 79-34-5 | | |
| 24.680 | 24.680 (1.076) | 83 | 114418 | 2.00000 | 1.922 | 70.00- 130.00 | 100.00 |
| 24.680 | 24.680 (1.076) | 85 | 72537 | | | 0.00- 30.00 | 63.40 |
| 90 Propylbenzene | | | | | CAS #: 103-65-1 | | |
| 24.758 | 24.758 (1.080) | 91 | 281720 | 2.00000 | 1.909 | 70.00- 130.00 | 100.00 |
| 24.758 | 24.758 (1.080) | 120 | 55375 | | | 0.00- 30.00 | 19.66 |
| 92 4-Ethyltoluene | | | | | CAS #: 622-96-8 | | |
| 24.886 | 24.886 (1.085) | 105 | 243336 | 2.00000 | 1.920 | 70.00- 130.00 | 100.00 |
| 24.886 | 24.886 (1.085) | 120 | 64854 | | | 0.00- 30.00 | 26.65 |
| 94 1,3,5-Trimethylbenzene | | | | | CAS #: 108-67-8 | | |
| 24.964 | 24.964 (1.089) | 105 | 212572 | 2.00000 | 1.949 | 70.00- 130.00 | 100.00 |
| 24.964 | 24.964 (1.089) | 120 | 89205 | | | 0.00- 30.00 | 41.96 |
| 98 1,2,4-Trimethylbenzene | | | | | CAS #: 95-63-6 | | |
| 25.410 | 25.410 (1.108) | 105 | 177396 | 2.00000 | 1.847 | 70.00- 130.00 | 100.00 |
| 25.410 | 25.410 (1.108) | 120 | 72124 | | | 0.00- 30.00 | 40.66 |
| 101 1,3-Dichlorobenzene | | | | | CAS #: 541-73-1 | | |
| 25.791 | 25.791 (1.125) | 146 | 115217 | 2.00000 | 1.893 | 70.00- 130.00 | 100.00 |
| 25.791 | 25.791 (1.125) | 148 | 75383 | | | 0.00- 30.00 | 65.43 |
| 25.791 | 25.791 (1.125) | 111 | 56533 | | | 0.00- 30.00 | 49.07 |
| 104 1,4-Dichlorobenzene | | | | | CAS #: 106-46-7 | | |
| 25.903 | 25.903 (1.130) | 146 | 110433 | 2.00000 | 1.813 | 70.00- 130.00 | 100.00 |
| 25.903 | 25.903 (1.130) | 148 | 73828 | | | 0.00- 30.00 | 66.85 |
| 25.903 | 25.903 (1.130) | 111 | 53847 | | | 0.00- 30.00 | 48.76 |
| 105 alpha-chlorotoluene | | | | | CAS #: 100-44-7 | | |
| 26.060 | 26.060 (1.137) | 91 | 168745 | 2.00000 | 1.819 | 70.00- 130.00 | 100.00 |
| 26.060 | 26.060 (1.137) | 126 | 28489 | | | 0.00- 30.00 | 16.88 |
| 108 1,2-Dichlorobenzene | | | | | CAS #: 95-50-1 | | |
| 26.352 | 26.352 (1.149) | 146 | 107298 | 2.00000 | 1.858 | 70.00- 130.00 | 100.00 |
| 26.352 | 26.352 (1.149) | 148 | 68129 | | | 34.07- 94.07 | 63.50 |
| 26.352 | 26.352 (1.149) | 111 | 52064 | | | 19.87- 79.87 | 48.52 |

| RT | EXP RT (REL RT) | MASS | RESPONSE | AMOUNTS CAL-AMT ( PPBV) | ON-COL ( PPBV) | TARGET RANGE | RATIO |
|---|---|---|---|---|---|---|---|
| 112 1,2,4-Trichlorobenzene | | | | | CAS #: 120-82-1 | | |
| 28.145 | 28.145 (1.228) | 180 | 70394 | 2.00000 | 1.865 | 70.00- 130.00 | 100.00 |
| 28.145 | 28.145 (1.228) | 182 | 68755 | | | 0.00- 30.00 | 97.67 |
| 113 Hexachlorobutadiene | | | | | CAS #: 87-68-3 | | |
| 28.235 | 28.235 (1.232) | 225 | 65800 | 2.00000 | 1.951 | 70.00- 130.00 | 100.00 |
| 28.235 | 28.235 (1.232) | 223 | 41179 | | | 0.00- 30.00 | 62.58 |
| 114 Naphthalene | | | | | CAS #: 91-20-3 | | |
| 28.504 | 28.504 (1.243) | 128 | 12519 | 0.20000 | 0.1558 | 70.00- 130.00 | 100.00(a) |
| 28.504 | 28.504 (1.243) | 127 | 1623 | | | 0.00- 30.00 | 12.96 |

QC Flag Legend

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

Report Date: 13-Mar-2012 09:29

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msde.i
Lab File ID: e030813.d
Lab Smp Id: ICAL
Analysis Type: VOA
Quant Type: ISTD
Operator: srs
Method File: /chem/msde.i/08Mar2012.b/e12l0308a.m
Misc Info: 2.0ppbv (2.0ppbv)

Calibration Date: 08-MAR-2012
Calibration Time: 22:56
Client Smp ID: Level 7
Level: LOW
Sample Type: AIR

| | | AREA LIMIT | | | |
|---|---|---|---|---|---|
| COMPOUND | STANDARD | LOWER | UPPER | SAMPLE | %DIFF |
| 46 Bromochloromethan | 73839 | 44303 | 103375 | 67721 | -8.29 |
| 58 1,4-Difluorobenze | 285440 | 171264 | 399616 | 259367 | -9.13 |
| 75 Chlorobenzene-d5 | 243451 | 146071 | 340831 | 220923 | -9.25 |

| | | RT LIMIT | | | |
|---|---|---|---|---|---|
| COMPOUND | STANDARD | LOWER | UPPER | SAMPLE | %DIFF |
| 46 Bromochloromethan | 16.13 | 15.80 | 16.46 | 16.13 | 0.00 |
| 58 1,4-Difluorobenze | 17.59 | 17.26 | 17.92 | 17.59 | 0.00 |
| 75 Chlorobenzene-d5 | 22.93 | 22.60 | 23.26 | 22.93 | 0.00 |

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Data File: /chem/msde.i/08Mar2012.b/e030813.d

Date : 08-MAR-2012 20:22

Client ID: Level 7

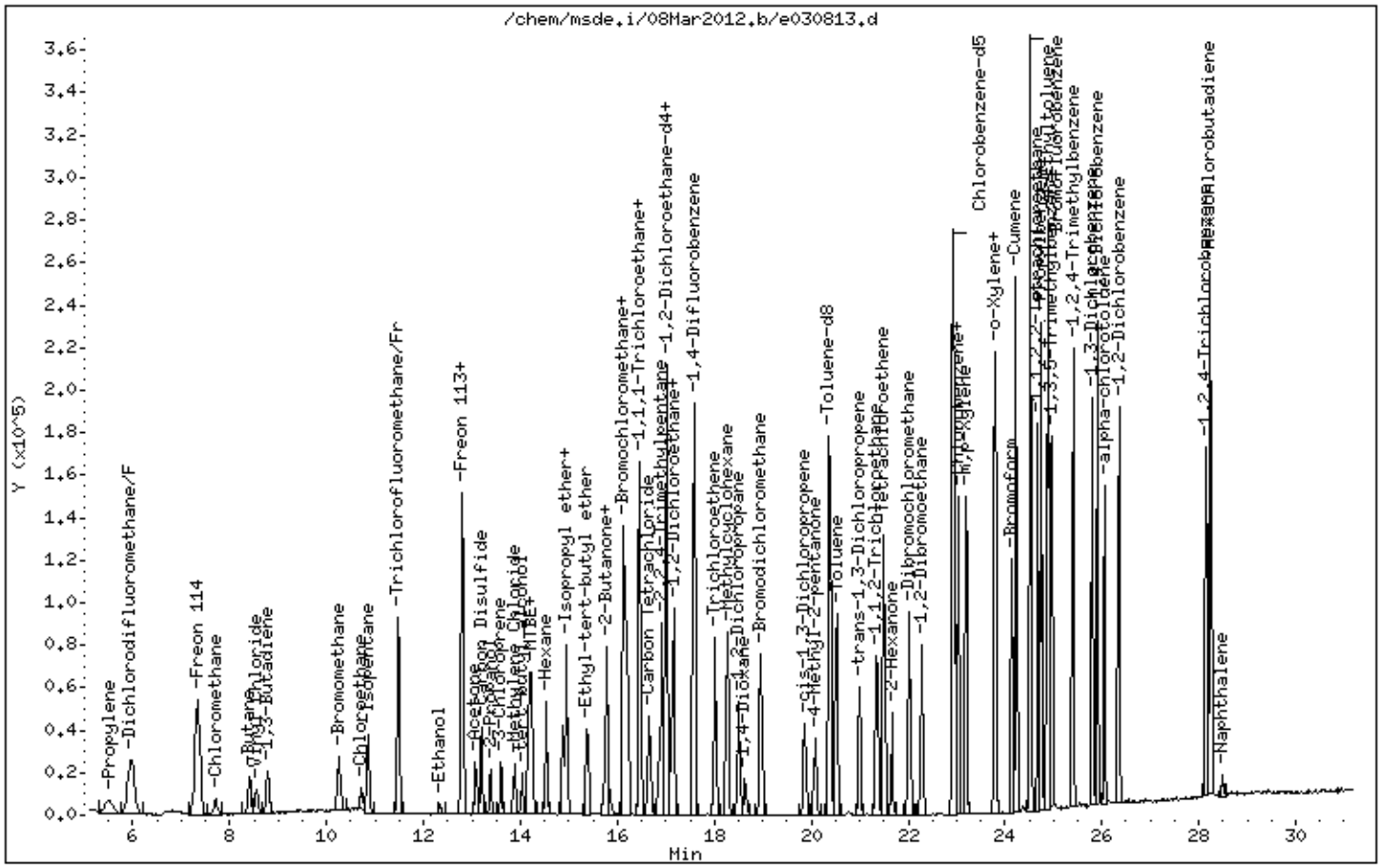
Instrument: msde.i

Sample Info: 250mL #2403-57

Operator: srs

Column phase: RTx-624

Column diameter: 0.32



Air Toxics Ltd.

EPA TO-15/Modified TO14A

Data file : /chem/msde.i/15Mar2012.b/e031524.d
Lab Smp Id: ICAL Client Smp ID: Level 8
Inj Date : 16-MAR-2012 00:25
Operator : sac Inst ID: msde.i
Smp Info : 250mL #2403-84
Misc Info : 2.0ppbv (5.0ppbv) -- AT2
Comment : Low-Level/GC-MS
Method : /chem/msde.i/15Mar2012.b/e12l0308c.m
Meth Date : 17-Mar-2012 10:10 croush Quant Type: ISTD
Cal Date : 16-MAR-2012 00:25 Cal File: e031524.d
Als bottle: 8 Calibration Sample, Level: 8
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AT2.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

| Name | Value | Description |
|---|---|---|
| DF | 1.00000 | Dilution Factor |

| | | | | AMOUNTS | | | |
|---|---|---|---|---|---|---|---|
| | | | | CAL-AMT | ON-COL | | |
| RT | EXP RT (REL RT) | MASS | RESPONSE | ( PPBV) | ( PPBV) | TARGET RANGE | RATIO |
| == | ====== ======== | ==== | ======== | ======= | ======= | ========== | ===== |
| * 46 Bromochloromethane | | | | | | CAS #: 74-97-5 | |
| 16.128 | 16.128 (1.000) | 130 | 61731 | 5.00000 | | 70.00- 130.00 | 100.00 |
| 16.128 | 16.128 (1.000) | 128 | 46545 | | | 0.00- 30.00 | 75.40 |
| 16.128 | 16.128 (1.000) | 49 | 57780 | | | 0.00- 30.00 | 93.60 |
| * 58 1,4-Difluorobenzene | | | | | | CAS #: 540-36-3 | |
| 17.586 | 17.586 (1.000) | 114 | 238714 | 5.00000 | | 70.00- 130.00 | 100.00 |
| 17.586 | 17.586 (1.000) | 88 | 44088 | | | 0.00- 30.00 | 18.47 |
| * 75 Chlorobenzene-d5 | | | | | | CAS #: 3114-55-4 | |
| 22.927 | 22.927 (1.000) | 117 | 200206 | 5.00000 | | 70.00- 130.00 | 100.00 |
| 22.903 | 22.903 (1.000) | 82 | 133661 | | | 0.00- 30.00 | 66.76 |
| 190 1-Pentene | | | | | | CAS #: 109-67-1 | |
| 11.536 | 11.536 (0.715) | 55 | 62770 | 5.00000 | 5.039 | 70.00- 130.00 | 100.00 |
| 11.536 | 11.536 (0.715) | 42 | 64266 | | | 0.00- 30.00 | 102.38 |

| RT | EXP RT (REL RT) | MASS | RESPONSE | AMOUNTS CAL-AMT ( PPBV) | AMOUNTS ON-COL ( PPBV) | TARGET RANGE | RATIO |
|---|---|---|---|---|---|---|---|
| 27 Methyl Acetate | | | | | CAS #: 79-20-9 | | |
| 13.630 | 13.630 (0.845) | 43 | 107964 | 5.00000 | 4.952 | 70.00- 130.00 | 100.00 |
| 13.630 | 13.630 (0.845) | 74 | 39951 | | | 0.00- 30.00 | 37.00 |
| 13.630 | 13.630 (0.845) | 59 | 14398 | | | 0.00- 30.00 | 13.34 |
| 191 Cyclopentane | | | | | CAS #: 287-92-3 | | |
| 13.796 | 13.796 (0.855) | 70 | 78395 | 5.00000 | 4.770 | 70.00- 130.00 | 100.00 |
| 13.796 | 13.796 (0.855) | 55 | 73220 | | | 0.00- 30.00 | 93.40 |
| 28 Acetonitrile | | | | | CAS #: 75-05-8 | | |
| 13.713 | 13.713 (0.850) | 41 | 47607 | 5.00000 | 5.037 | 70.00- 130.00 | 100.00 |
| 13.713 | 13.713 (0.850) | 40 | 23199 | | | 0.00- 30.00 | 48.73 |
| 13.713 | 13.713 (0.850) | 39 | 12488 | | | 0.00- 30.00 | 26.23 |
| 33 Acrylonitrile | | | | | CAS #: 107-13-1 | | |
| 14.352 | 14.352 (0.890) | 53 | 50837 | 5.00000 | 4.873 | 70.00- 130.00 | 100.00(M) |
| 14.352 | 14.352 (0.890) | 52 | 41775 | | | 0.00- 30.00 | 82.17 |
| 192 1-Hexene | | | | | CAS #: 592-41-6 | | |
| 14.434 | 14.434 (0.895) | 55 | 53941 | 5.00000 | 5.376 | 70.00- 130.00 | 100.00 |
| 14.434 | 14.434 (0.895) | 41 | 69113 | | | 0.00- 30.00 | 128.13 |
| 14.434 | 14.434 (0.895) | 84 | 33331 | | | 0.00- 30.00 | 61.79 |
| 39 Chlorprene | | | | | CAS #: 126-99-8 | | |
| 15.011 | 15.011 (0.931) | 53 | 113562 | 5.00000 | 5.299 | 70.00- 130.00 | 100.00 |
| 15.011 | 15.011 (0.931) | 88 | 70106 | | | 0.00- 30.00 | 61.73 |
| 193 Methyl Acrylate | | | | | CAS #: 96-33-3 | | |
| 15.849 | 15.849 (0.983) | 55 | 178028 | 5.00000 | 5.195 | 70.00- 130.00 | 100.00 |
| 15.849 | 15.849 (0.983) | 85 | 43961 | | | 0.00- 30.00 | 24.69 |
| 15.849 | 15.849 (0.983) | 58 | 14469 | | | 0.00- 30.00 | 8.13 |
| 194 Ethyl Acrylate | | | | | CAS #: 140-88-5 | | |
| 18.052 | 18.052 (1.119) | 99 | 17934 | 5.00000 | 5.509 | 70.00- 130.00 | 100.00 |
| 18.052 | 18.052 (1.119) | 45 | 13019 | | | 0.00- 30.00 | 72.59 |
| 18.052 | 18.052 (1.119) | 55 | 164014 | | | 0.00- 30.00 | 914.54 |
| 95 Dibromomethane | | | | | CAS #: 74-95-3 | | |
| 18.739 | 18.739 (1.066) | 174 | 129048 | 5.00000 | 4.946 | 70.00- 130.00 | 100.00 |
| 18.739 | 18.739 (1.066) | 93 | 156400 | | | 0.00- 30.00 | 121.20 |
| 18.739 | 18.739 (1.066) | 95 | 125595 | | | 0.00- 30.00 | 97.32 |
| 195 trans-1,4-dichloro-2-butene | | | | | CAS #: 110-57-6 | | |
| 24.758 | 24.758 (1.080) | 89 | 67963 | 5.00000 | 5.166 | 70.00- 130.00 | 100.00 |
| 24.758 | 24.758 (1.080) | 75 | 115010 | | | 0.00- 30.00 | 169.22 |
| 24.758 | 24.758 (1.080) | 53 | 88713 | | | 0.00- 30.00 | 130.53 |

| RT | EXP RT (REL RT) | MASS | RESPONSE | AMOUNTS CAL-AMT ( PPBV) | ON-COL ( PPBV) | TARGET RANGE | RATIO |
|---|---|---|---|---|---|---|---|
| 109 Hexachloroethane | | | | | CAS #: 67-72-1 | | |
| 26.598 | 26.598 (1.160) | 201 | 122194 | 5.00000 | 4.966 | 70.00- 130.00 | 100.00 |
| 26.598 | 26.598 (1.160) | 117 | 194952 | | | 0.00- 30.00 | 159.54 |
| 26.598 | 26.598 (1.160) | 166 | 106890 | | | 0.00- 30.00 | 87.48 |
| 111 1,3,5-Trichlorobenzene | | | | | CAS #: 108-70-3 | | |
| 27.383 | 27.383 (1.194) | 180 | 173799 | 5.00000 | 4.880 | 70.00- 130.00 | 100.00 |
| 27.383 | 27.383 (1.194) | 182 | 164755 | | | 0.00- 30.00 | 94.80 |

QC Flag Legend

M - Compound response manually integrated.

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msde.i
Lab File ID: e031524.d
Lab Smp Id: ICAL
Analysis Type: VOA
Quant Type: ISTD
Operator: sac
Method File: /chem/msde.i/15Mar2012.b/e12l0308c.m
Misc Info: 2.0ppbv (5.0ppbv) -- AT2

Calibration Date: 15-MAR-2012
Calibration Time: 07:46
Client Smp ID: Level 8
Level: LOW
Sample Type: AIR

| | | AREA LIMIT | | | |
|---|---|---|---|---|---|
| COMPOUND | STANDARD | LOWER | UPPER | SAMPLE | %DIFF |
| 46 Bromochloromethan | 74222 | 44533 | 103911 | 61731 | -16.83 |
| 58 1,4-Difluorobenze | 274748 | 164849 | 384647 | 238714 | -13.12 |
| 75 Chlorobenzene-d5 | 232389 | 139433 | 325345 | 200206 | -13.85 |

| | | RT LIMIT | | | |
|---|---|---|---|---|---|
| COMPOUND | STANDARD | LOWER | UPPER | SAMPLE | %DIFF |
| 46 Bromochloromethan | 16.13 | 15.80 | 16.46 | 16.13 | 0.00 |
| 58 1,4-Difluorobenze | 17.59 | 17.26 | 17.92 | 17.59 | 0.00 |
| 75 Chlorobenzene-d5 | 22.93 | 22.60 | 23.26 | 22.93 | 0.00 |

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Data File: /chem/msde.i/15Mar2012.b/e031524.d



Date : 16-MAR-2012 00:25

Client ID: Level 8

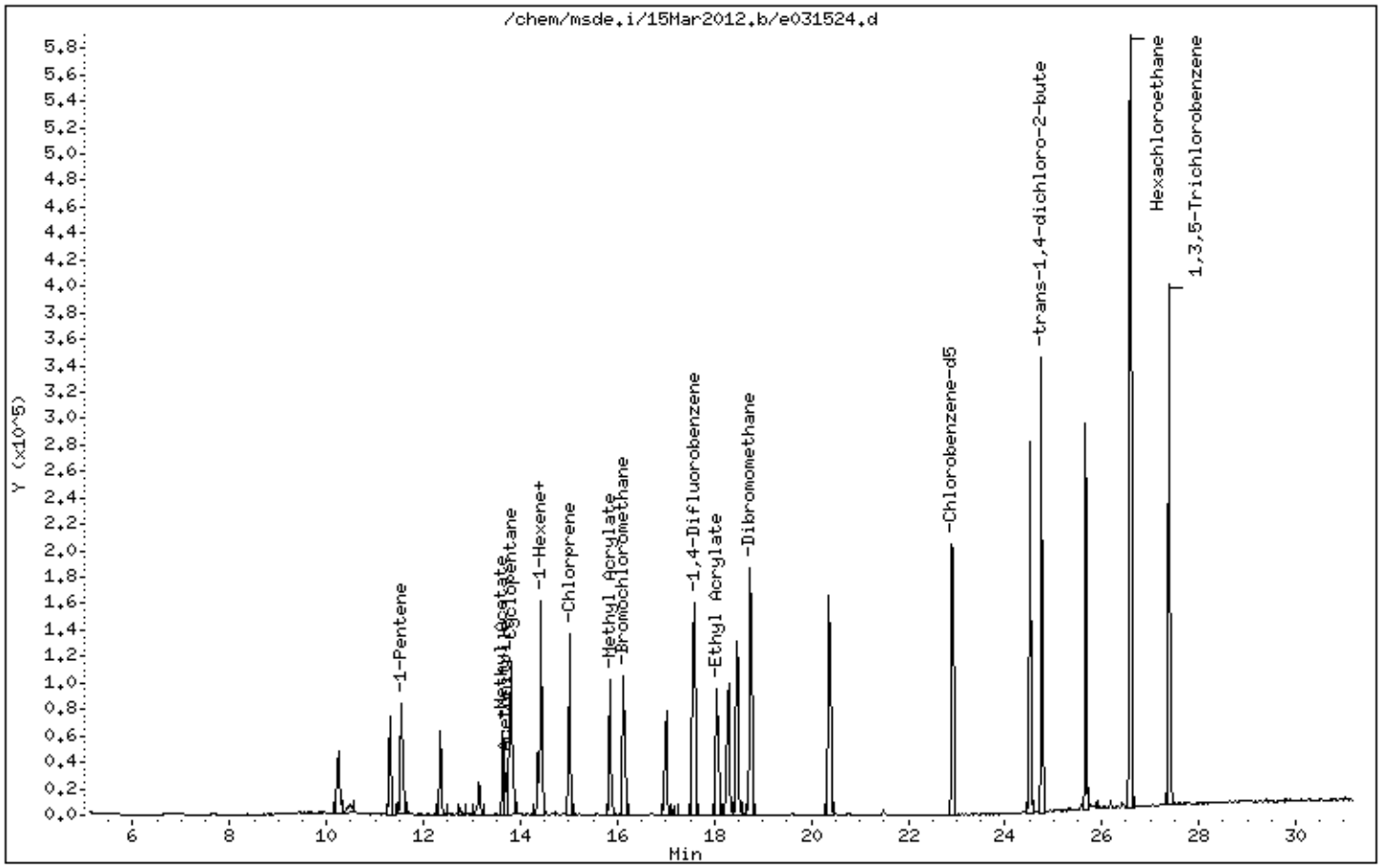
Instrument: msde.i

Sample Info: 250mL #2403-84

Operator: sac

Column phase: RTx-624

Column diameter: 0.32



Air Toxics Ltd.

EPA TO-15/Modified TO14A

Data file : /chem/msde.i/10Mar2012.b/e031011.d
Lab Smp Id: ICAL Client Smp ID: Level 8
Inj Date : 10-MAR-2012 17:04
Operator : LL Inst ID: msde.i
Smp Info : 250mL #2403-72
Misc Info : 5.0ppbv (5.0ppbv) -- AT3
Comment : Low-Level/GC-MS
Method : /chem/msde.i/10Mar2012.b/e12l0308b.m
Meth Date : 12-Mar-2012 07:09 croush Quant Type: ISTD
Cal Date : 10-MAR-2012 17:04 Cal File: e031011.d
Als bottle: 4 Calibration Sample, Level: 8
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AT3.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

| Name | Value | Description |
|---|---|---|
| DF | 1.00000 | Dilution Factor |

| RT | EXP RT (REL RT) | MASS | RESPONSE | AMOUNTS CAL-AMT ( PPBV) | AMOUNTS ON-COL ( PPBV) | TARGET RANGE | RATIO |
|---|---|---|---|---|---|---|---|
| * 46 Bromochloromethane | | | | | CAS #: 74-97-5 | | |
| 16.127 | 16.127 (1.000) | 130 | 47390 | 5.00000 | | 70.00- 130.00 | 100.00 |
| 16.127 | 16.127 (1.000) | 128 | 36967 | | | 0.00- 30.00 | 78.01 |
| 16.127 | 16.127 (1.000) | 49 | 45421 | | | 0.00- 30.00 | 95.85 |
| * 58 1,4-Difluorobenzene | | | | | CAS #: 540-36-3 | | |
| 17.585 | 17.585 (1.000) | 114 | 182401 | 5.00000 | | 70.00- 130.00 | 100.00 |
| 17.585 | 17.585 (1.000) | 88 | 34607 | | | 0.00- 30.00 | 18.97 |
| * 75 Chlorobenzene-d5 | | | | | CAS #: 3114-55-4 | | |
| 22.927 | 22.927 (1.000) | 117 | 148182 | 5.00000 | | 70.00- 130.00 | 100.00 |
| 22.927 | 22.927 (1.000) | 82 | 101021 | | | 0.00- 30.00 | 68.17 |
| 50 Thiophene | | | | | CAS #: 110-02-1 | | |
| 17.362 | 17.362 (0.987) | 84 | 136345 | 5.00000 | 4.622 | 70.00- 130.00 | 100.00(T) |
| 17.362 | 17.362 (0.987) | 58 | 69687 | | | 0.00- 30.00 | 51.11 |
| 0.000 | 1.000 (0.000) | 0 | 0 | | | 0.00- 30.00 | 0.00 |

| RT | EXP RT (REL RT) | MASS | RESPONSE | AMOUNTS CAL-AMT ( PPBV) | ON-COL ( PPBV) | TARGET RANGE | RATIO |
|---|---|---|---|---|---|---|---|
| 24 2-Methylpentane | | | | | CAS #: 107-83-5 | | |
| 13.692 | 13.692 (0.849) | 71 | 50502 | 5.00000 | 5.152 | 70.00- 130.00 | 100.00 |
| 13.692 | 13.692 (0.849) | 43 | 77545 | | | 0.00- 30.00 | 153.55 |
| 13.692 | 13.692 (0.849) | 42 | 40800 | | | 0.00- 30.00 | 80.79 |
| 45 2,3-Dimethylpentane | | | | | CAS #: 565-59-3 | | |
| 16.405 | 16.405 (1.017) | 71 | 49358 | 5.00000 | 5.436 | 70.00- 130.00 | 100.00 |
| 16.405 | 16.405 (1.017) | 56 | 96735 | | | 0.00- 30.00 | 195.99 |
| 16.405 | 16.405 (1.017) | 43 | 60232 | | | 0.00- 30.00 | 122.03 |
| 102 Indan | | | | | CAS #: 496-11-7 | | |
| 26.150 | 26.150 (1.141) | 117 | 249514 | 5.00000 | 5.492 | 70.00- 130.00 | 100.00 |
| 26.150 | 26.150 (1.141) | 118 | 140649 | | | 0.00- 30.00 | 56.37 |
| 26.150 | 26.150 (1.141) | 91 | 51391 | | | 0.00- 30.00 | 20.60 |
| 106 Indene | | | | | CAS #: 95-13-6 | | |
| 26.419 | 26.419 (1.152) | 115 | 132695 | 5.00000 | 5.360 | 70.00- 130.00 | 100.00(T) |
| 26.419 | 26.419 (1.152) | 116 | 124262 | | | 0.00- 30.00 | 93.64 |
| 0.000 | 1.000 (0.000) | 0 | 0 | | | 0.00- 30.00 | 0.00 |

QC Flag Legend

T - Target compound detected outside RT window.

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msde.i
Lab File ID: e031011.d
Lab Smp Id: ICAL
Analysis Type: VOA
Quant Type: ISTD
Operator: LL
Method File: /chem/msde.i/10Mar2012.b/e12l0308b.m
Misc Info: 5.0ppbv (5.0ppbv) -- AT3

Calibration Date: 10-MAR-2012
Calibration Time: 16:18
Client Smp ID: Level 8
Level: LOW
Sample Type: AIR

| | | AREA LIMIT | | | |
|---|---|---|---|---|---|
| COMPOUND | STANDARD | LOWER | UPPER | SAMPLE | %DIFF |
| 46 Bromochloromethan | 46839 | 28103 | 65575 | 47390 | 1.18 |
| 58 1,4-Difluorobenze | 182691 | 109615 | 255767 | 182401 | -0.16 |
| 75 Chlorobenzene-d5 | 151374 | 90824 | 211924 | 148182 | -2.11 |

| | | RT LIMIT | | | |
|---|---|---|---|---|---|
| COMPOUND | STANDARD | LOWER | UPPER | SAMPLE | %DIFF |
| 46 Bromochloromethan | 16.13 | 15.80 | 16.46 | 16.13 | 0.00 |
| 58 1,4-Difluorobenze | 17.59 | 17.26 | 17.92 | 17.59 | 0.00 |
| 75 Chlorobenzene-d5 | 22.93 | 22.60 | 23.26 | 22.93 | 0.00 |

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Data File: /chem/msde.i/10Mar2012.b/e031011.d

Date : 10-MAR-2012 17:04

Client ID: Level 8

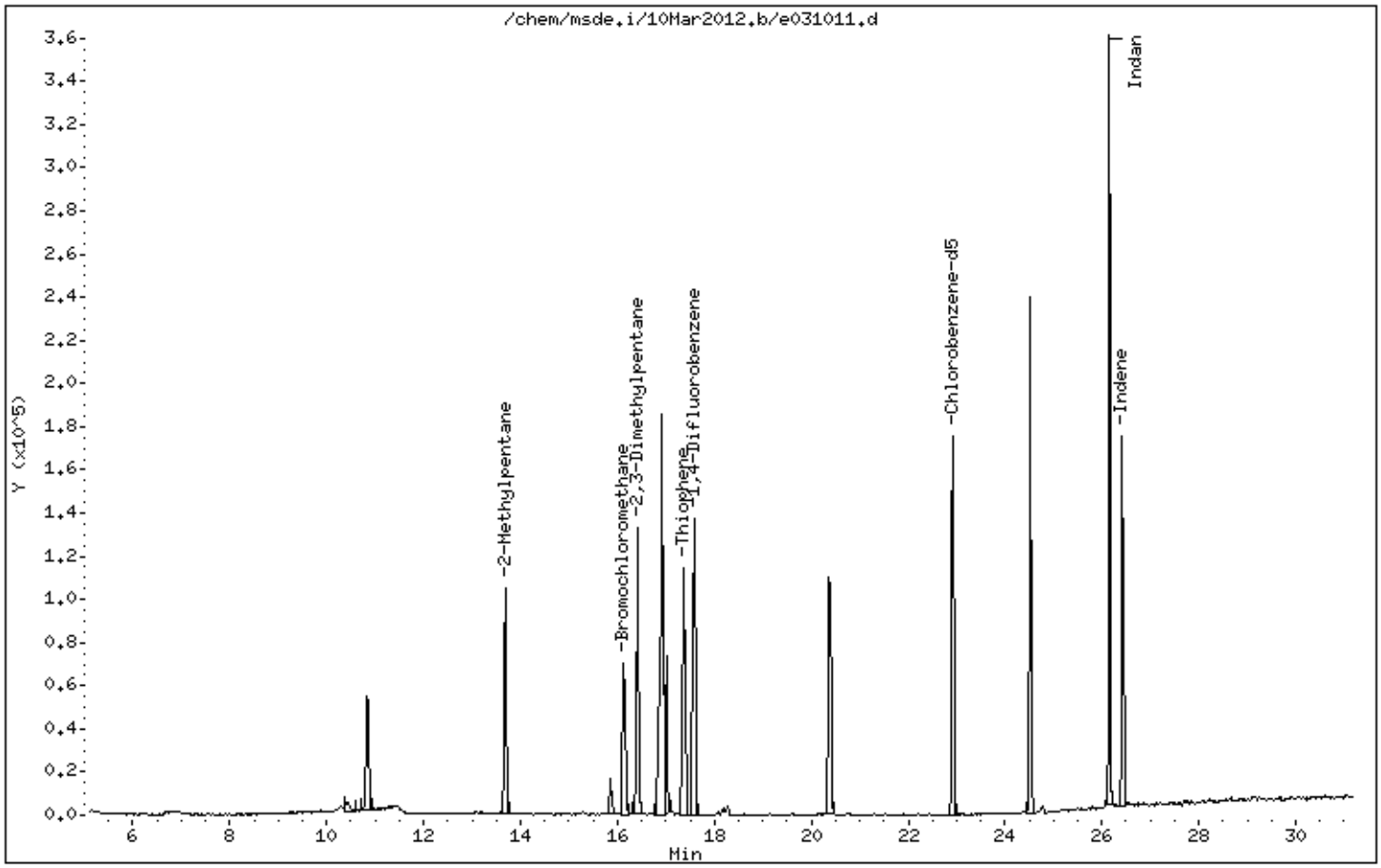
Instrument: msde.i

Sample Info: 250mL #2403-72

Operator: LL

Column phase: RTx-624

Column diameter: 0.32



Air Toxics Ltd.

EPA TO-15/Modified TO14A

Data file : /chem/msde.i/10Mar2012.b/e031006.d
Lab Smp Id: ICAL Client Smp ID: Level 8
Inj Date : 10-MAR-2012 13:23
Operator : cr Inst ID: msde.i
Smp Info : 250mL #2403-8
Misc Info : 5.0ppbv (5.0ppbv) -- AT5
Comment : Low-Level/GC-MS
Method : /chem/msde.i/10Mar2012.b/e12l0308b.m
Meth Date : 10-Mar-2012 13:50 croush Quant Type: ISTD
Cal Date : 10-MAR-2012 13:23 Cal File: e031006.d
Als bottle: 8 Calibration Sample, Level: 8
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AT5ICAL.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

| Name | Value | Description |
|---|---|---|
| DF | 1.00000 | Dilution Factor |

| | | | | AMOUNTS | | | | |
|---|---|---|---|---|---|---|---|---|
| | | | | CAL-AMT | ON-COL | | | |
| RT | EXP RT (REL RT) | MASS | RESPONSE | ( PPBV) | ( PPBV) | TARGET RANGE | | RATIO |
| == | ====== ======== | ==== | ======== | ======= | ======= | ========== | | ===== |
| * 46 Bromochloromethane | | | | | | CAS #: 74-97-5 | | |
| 16.128 | 16.128 (1.000) | 130 | 55563 | 5.00000 | | 70.00- 130.00 | | 100.00 |
| 16.128 | 16.128 (1.000) | 128 | 45023 | | | 0.00- 30.00 | | 81.03 |
| 16.128 | 16.128 (1.000) | 49 | 53699 | | | 0.00- 30.00 | | 96.65 |
| * 58 1,4-Difluorobenzene | | | | | | CAS #: 540-36-3 | | |
| 17.586 | 17.586 (1.000) | 114 | 209426 | 5.00000 | | 70.00- 130.00 | | 100.00 |
| 17.586 | 17.586 (1.000) | 88 | 36882 | | | 0.00- 30.00 | | 17.61 |
| * 75 Chlorobenzene-d5 | | | | | | CAS #: 3114-55-4 | | |
| 22.927 | 22.927 (1.000) | 117 | 181945 | 5.00000 | | 70.00- 130.00 | | 100.00 |
| 22.927 | 22.927 (1.000) | 82 | 120937 | | | 0.00- 30.00 | | 66.47 |
| 15 Vinyl Bromide | | | | | | CAS #: 593-60-2 | | |
| 11.308 | 11.308 (0.701) | 106 | 82753 | 5.00000 | 4.877 | 70.00- 130.00 | | 100.00 |
| 11.308 | 11.308 (0.701) | 108 | 72998 | | | 0.00- 30.00 | | 88.21 |

| RT | EXP RT (REL RT) | MASS | RESPONSE | AMOUNTS CAL-AMT ( PPBV) | ON-COL ( PPBV) | TARGET RANGE | RATIO |
|---|---|---|---|---|---|---|---|
| 187 2,3-Dichloropropene | | | | | CAS #: 78-88-6 | | |
| 18.519 | 18.519 (1.148) | 75 | 175859 | 5.00000 | 5.694 | 70.00- 130.00 | 100.00 |
| 18.519 | 18.519 (1.148) | 77 | 53919 | | | 0.00- 30.00 | 30.66 |
| 18.519 | 18.519 (1.148) | 39 | 71653 | | | 0.00- 30.00 | 40.74 |
| 186 1,1-Dichloropropene | | | | | CAS #: 563-58-6 | | |
| 16.682 | 16.682 (1.034) | 110 | 40673 | 5.00000 | 5.261 | 70.00- 130.00 | 100.00 |
| 16.682 | 16.682 (1.034) | 75 | 133563 | | | 0.00- 30.00 | 328.38 |
| 79 1,1,1,2-Tetrachloroethane | | | | | CAS #: 630-20-6 | | |
| 23.071 | 23.071 (1.006) | 131 | 137838 | 5.00000 | 4.945 | 70.00- 130.00 | 100.00 |
| 23.071 | 23.071 (1.006) | 117 | 79982 | | | 0.00- 30.00 | 58.03 |
| 23.071 | 23.071 (1.006) | 95 | 67208 | | | 0.00- 30.00 | 48.76 |
| 91 1,2,3-Trichloropropane | | | | | CAS #: 96-18-4 | | |
| 24.783 | 24.783 (1.081) | 110 | 83736 | 5.00000 | 4.687 | 70.00- 130.00 | 100.00 |
| 24.783 | 24.783 (1.081) | 75 | 233160 | | | 0.00- 30.00 | 278.45 |
| 24.783 | 24.783 (1.081) | 61 | 47356 | | | 0.00- 30.00 | 56.55 |
| 93 2-Chlorotoluene | | | | | CAS #: 95-49-8 | | |
| 24.938 | 24.938 (1.088) | 126 | 101506 | 5.00000 | 5.199 | 70.00- 130.00 | 100.00 |
| 24.938 | 24.938 (1.088) | 91 | 378218 | | | 0.00- 30.00 | 372.61 |
| 24.912 | 24.912 (1.087) | 65 | 35150 | | | 0.00- 30.00 | 34.63 |
| 96 4-Chlorotoluene | | | | | CAS #: 106-43-4 | | |
| 25.067 | 25.067 (1.093) | 126 | 148109 | 5.00000 | 5.132 | 70.00- 130.00 | 100.00 |
| 25.067 | 25.067 (1.093) | 91 | 514694 | | | 0.00- 30.00 | 347.51 |
| 25.067 | 25.067 (1.093) | 57 | 192960 | | | 0.00- 30.00 | 130.28 |
| 97 tert-Butylbenzene | | | | | CAS #: 98-06-6 | | |
| 25.343 | 25.343 (1.105) | 119 | 351748 | 5.00000 | 5.372 | 70.00- 130.00 | 100.00 |
| 25.343 | 25.343 (1.105) | 134 | 77128 | | | 0.00- 30.00 | 21.93 |
| 25.343 | 25.343 (1.105) | 91 | 283572 | | | 0.00- 30.00 | 80.62 |
| 99 sec-Butylbenzene | | | | | CAS #: 135-98-8 | | |
| 25.590 | 25.590 (1.116) | 105 | 539244 | 5.00000 | 5.180 | 70.00- 130.00 | 100.00 |
| 25.590 | 25.590 (1.116) | 134 | 92943 | | | 0.00- 30.00 | 17.24 |
| 25.590 | 25.590 (1.116) | 91 | 98725 | | | 0.00- 30.00 | 18.31 |
| 100 p-Cymene | | | | | CAS #: 99-87-6 | | |
| 25.724 | 25.724 (1.122) | 119 | 433072 | 5.00000 | 5.522 | 70.00- 130.00 | 100.00 |
| 25.724 | 25.724 (1.122) | 134 | 100151 | | | 0.00- 30.00 | 23.13 |
| 25.724 | 25.724 (1.122) | 91 | 124248 | | | 0.00- 30.00 | 28.69 |
| 103 1,2,3-trimethylbenzene | | | | | CAS #: 526-73-8 | | |
| 25.903 | 25.903 (1.130) | 120 | 162625 | 5.00000 | 5.352 | 70.00- 130.00 | 100.00 |

| RT | EXP RT (REL RT) | MASS | RESPONSE | AMOUNTS CAL-AMT ( PPBV) | ON-COL ( PPBV) | TARGET RANGE | RATIO |
|---|---|---|---|---|---|---|---|
| 103 1,2,3-trimethylbenzene (continued) | | | | | | | |
| 25.903 | 25.903 (1.130) | 105 | 436426 | | | 0.00- 30.00 | 268.36 |
| 25.903 | 25.903 (1.130) | 77 | 57083 | | | 0.00- 30.00 | 35.10 |
| 107 Butylbenzene | | | | | CAS #: 104-51-8 | | |
| 26.195 | 26.195 (1.143) | 134 | 91276 | 5.00000 | 5.227 | 70.00- 130.00 | 100.00 |
| 26.195 | 26.195 (1.143) | 91 | 426423 | | | 445.46- 505.46 | 467.18 |
| 26.195 | 26.195 (1.143) | 92 | 233863 | | | 0.00- 30.00 | 256.22 |
| 110 1,2-dibromo-3-chloropropane | | | | | CAS #: 96-12-8 | | |
| 27.248 | 27.248 (1.188) | 157 | 109017 | 5.00000 | 5.853 | 70.00- 130.00 | 100.00 |
| 27.226 | 27.226 (1.188) | 75 | 131375 | | | 0.00- 30.00 | 120.51 |
| 27.248 | 27.248 (1.188) | 155 | 83307 | | | 0.00- 30.00 | 76.42 |
| 86 1,3-Dichloropropane | | | | | CAS #: 142-28-9 | | |
| 21.693 | 21.693 (1.234) | 76 | 153042 | 5.00000 | 4.883 | 70.00- 130.00 | 100.00 |
| 21.660 | 21.660 (1.232) | 41 | 92675 | | | 30.10- 90.10 | 60.56 |
| 21.693 | 21.693 (1.234) | 78 | 48637 | | | 0.00- 30.00 | 31.78 |
| 185 Bromobenzene | | | | | CAS #: 108-86-1 | | |
| 24.732 | 24.732 (1.079) | 156 | 136714 | 5.00000 | 4.680 | 70.00- 130.00 | 100.00 |
| 24.732 | 24.732 (1.079) | 158 | 130748 | | | 0.00- 30.00 | 95.64 |
| 24.732 | 24.732 (1.079) | 77 | 323548 | | | 0.00- 30.00 | 236.66 |

Report Date: 10-Mar-2012 13:51

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msde.i
Lab File ID: e031006.d
Lab Smp Id: ICAL
Analysis Type: VOA
Quant Type: ISTD
Operator: cr
Method File: /chem/msde.i/10Mar2012.b/e12l0308b.m
Misc Info: 5.0ppbv (5.0ppbv) -- AT5

Calibration Date: 10-MAR-2012
Calibration Time: 11:52
Client Smp ID: Level 8
Level: LOW
Sample Type: AIR

| | | AREA LIMIT | | | |
|---|---|---|---|---|---|
| COMPOUND | STANDARD | LOWER | UPPER | SAMPLE | %DIFF |
| 46 Bromochloromethan | 53284 | 31970 | 74598 | 55563 | 4.28 |
| 58 1,4-Difluorobenze | 199260 | 119556 | 278964 | 209426 | 5.10 |
| 75 Chlorobenzene-d5 | 174009 | 104405 | 243613 | 181945 | 4.56 |

| | | RT LIMIT | | | |
|---|---|---|---|---|---|
| COMPOUND | STANDARD | LOWER | UPPER | SAMPLE | %DIFF |
| 46 Bromochloromethan | 16.13 | 15.80 | 16.46 | 16.13 | 0.00 |
| 58 1,4-Difluorobenze | 17.59 | 17.26 | 17.92 | 17.59 | 0.00 |
| 75 Chlorobenzene-d5 | 22.93 | 22.60 | 23.26 | 22.93 | 0.00 |

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Data File: /chem/msde.i/10Mar2012.b/e031006.d

Date : 10-MAR-2012 13:23

Client ID: Level 8

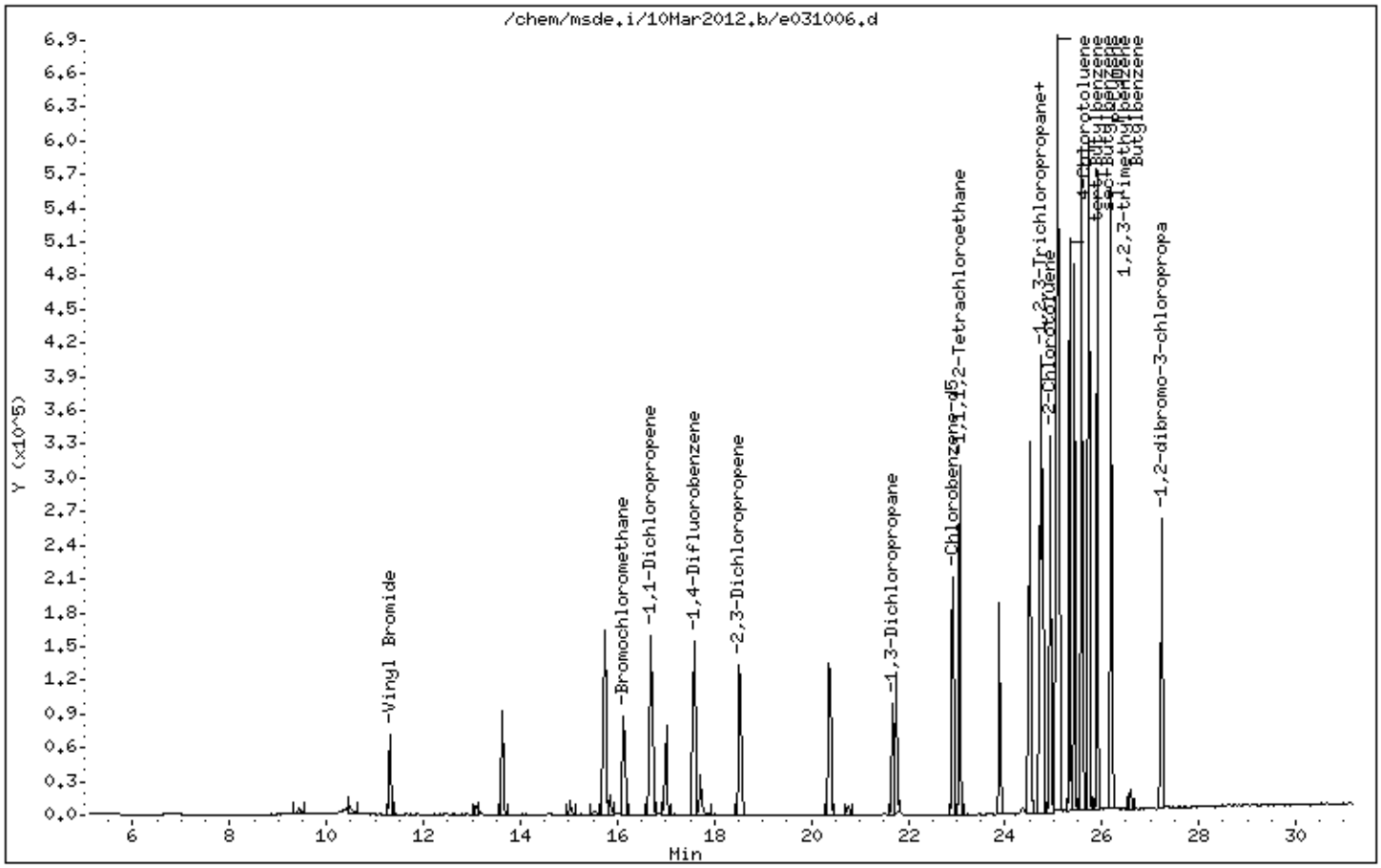
Instrument: msde.i

Sample Info: 250mL #2403-8

Operator: cr

Column phase: RTx-624

Column diameter: 0.32



Air Toxics Ltd.

EPA TO-15/Modified TO14A

Data file : /chem/msde.i/08Mar2012.b/e030814.d
Lab Smp Id: ICAL Client Smp ID: Level 8
Inj Date : 08-MAR-2012 21:02
Operator : srs Inst ID: msde.i
Smp Info : 25mL #2370-176
Misc Info : 5.0ppbv (50ppbv)
Comment : Low-Level/GC-MS
Method : /chem/msde.i/08Mar2012.b/e12l0308a.m
Meth Date : 13-Mar-2012 09:29 croush Quant Type: ISTD
Cal Date : 08-MAR-2012 21:02 Cal File: e030814.d
Als bottle: 8 Calibration Sample, Level: 8
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: HILOcrvFULL.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

| Name | Value | Description |
|---|---|---|
| DF | 1.00000 | Dilution Factor |

| | | | | AMOUNTS | | | |
|---|---|---|---|---|---|---|---|
| | | | | CAL-AMT | ON-COL | | |
| RT | EXP RT (REL RT) | MASS | RESPONSE | ( PPBV) | ( PPBV) | TARGET RANGE | RATIO |
| == | ====== ======== | ==== | ======== | ======= | ======= | ========== | ===== |
| * 46 Bromochloromethane | | | | | CAS #: 74-97-5 | | |
| 16.128 | 16.128 (1.000) | 130 | 68940 | 5.00000 | | 70.00- 130.00 | 100.00 |
| 16.128 | 16.128 (1.000) | 128 | 53262 | | | 0.00- 30.00 | 77.26 |
| 16.128 | 16.128 (1.000) | 49 | 86609 | | | 0.00- 30.00 | 125.63 |
| * 58 1,4-Difluorobenzene | | | | | CAS #: 540-36-3 | | |
| 17.586 | 17.586 (1.000) | 114 | 268720 | 5.00000 | | 70.00- 130.00 | 100.00 |
| 17.586 | 17.586 (1.000) | 88 | 48169 | | | 0.00- 30.00 | 17.93 |
| * 75 Chlorobenzene-d5 | | | | | CAS #: 3114-55-4 | | |
| 22.927 | 22.927 (1.000) | 117 | 235411 | 5.00000 | | 70.00- 130.00 | 100.00 |
| 22.927 | 22.927 (1.000) | 82 | 154863 | | | 0.00- 30.00 | 65.78 |
| $ 54 1,2-Dichloroethane-d4 | | | | | CAS #: 17060-07-0 | | |
| 17.013 | 17.013 (1.055) | 65 | 127900 | 5.00000 | 4.978 | 70.00- 130.00 | 100.00 |
| 17.013 | 17.013 (1.055) | 67 | 65601 | | | 0.00- 30.00 | 51.29 |

| RT | EXP RT (REL RT) | MASS | RESPONSE | AMOUNTS CAL-AMT ( PPBV) | ON-COL ( PPBV) | TARGET RANGE | RATIO |
|---|---|---|---|---|---|---|---|
| $ 67 Toluene-d8 | | | | | CAS #: 2037-26-5 | | |
| 20.368 | 20.368 (1.158) | 98 | 278733 | 5.00000 | 5.150 | 70.00- 130.00 | 100.00 |
| 20.368 | 20.368 (1.158) | 70 | 34162 | | | 0.00- 30.00 | 12.26 |
| 20.368 | 20.368 (1.158) | 100 | 175398 | | | 33.91- 93.91 | 62.93 |
| $ 87 Bromofluorobenzene | | | | | CAS #: 460-00-4 | | |
| 24.526 | 24.526 (1.070) | 174 | 136697 | 5.00000 | 5.076 | 70.00- 130.00 | 100.00 |
| 24.526 | 24.526 (1.070) | 95 | 219437 | | | 125.57- 185.57 | 160.53 |
| 24.526 | 24.526 (1.070) | 176 | 132098 | | | 64.73- 124.73 | 96.64 |
| 2 Propylene | | | | | CAS #: 115-07-1 | | |
| 5.449 | 5.449 (0.338) | 41 | 57207 | 5.00000 | 5.206 | 70.00- 130.00 | 100.00 |
| 5.473 | 5.473 (0.339) | 42 | 36549 | | | 0.00- 30.00 | 63.89 |
| 5.449 | 5.449 (0.338) | 39 | 46151 | | | 0.00- 30.00 | 80.67 |
| 4 Dichlorodifluoromethane/Fr12 | | | | | CAS #: 75-71-8 | | |
| 5.931 | 5.931 (0.368) | 85 | 422584 | 5.00000 | 5.245 | 70.00- 130.00 | 100.00 |
| 5.955 | 5.955 (0.369) | 87 | 138187 | | | 2.22- 62.22 | 32.70 |
| 6 Freon 114 | | | | | CAS #: 76-14-2 | | |
| 7.329 | 7.329 (0.454) | 135 | 217693 | 5.00000 | 5.194 | 70.00- 130.00 | 100.00 |
| 7.329 | 7.329 (0.454) | 137 | 69022 | | | 0.00- 30.00 | 31.71 |
| 7 Chloromethane | | | | | CAS #: 74-87-3 | | |
| 7.691 | 7.691 (0.477) | 50 | 63021 | 5.00000 | 5.293 | 70.00- 130.00 | 100.00 |
| 7.691 | 7.691 (0.477) | 52 | 21162 | | | 0.00- 30.00 | 33.58 |
| 9 Butane | | | | | CAS #: 106-97-8 | | |
| 8.422 | 8.422 (0.522) | 58 | 23897 | 5.00000 | 5.832 | 70.00- 130.00 | 100.00 |
| 8.404 | 8.404 (0.521) | 43 | 124132 | | | 0.00- 30.00 | 519.45 |
| 10 Vinyl Chloride | | | | | CAS #: 75-01-4 | | |
| 8.543 | 8.543 (0.530) | 62 | 99024 | 5.00000 | 5.269 | 70.00- 130.00 | 100.00 |
| 8.543 | 8.543 (0.530) | 64 | 32421 | | | 2.55- 62.55 | 32.74 |
| 11 1,3-Butadiene | | | | | CAS #: 106-99-0 | | |
| 8.786 | 8.786 (0.545) | 54 | 61747 | 5.00000 | 5.228 | 70.00- 130.00 | 100.00 |
| 8.786 | 8.786 (0.545) | 39 | 55978 | | | 0.00- 30.00 | 90.66 |
| 12 Bromomethane | | | | | CAS #: 74-83-9 | | |
| 10.272 | 10.272 (0.637) | 94 | 116142 | 5.00000 | 5.589 | 70.00- 130.00 | 100.00 |
| 10.272 | 10.272 (0.637) | 96 | 109977 | | | 65.25- 125.25 | 94.69 |
| 13 Chloroethane | | | | | CAS #: 75-00-3 | | |
| 10.728 | 10.728 (0.665) | 64 | 54639 | 5.00000 | 5.456 | 70.00- 130.00 | 100.00 |
| 10.728 | 10.728 (0.665) | 49 | 11746 | | | 0.00- 30.00 | 21.50 |

| RT | EXP RT (REL RT) | MASS | RESPONSE | AMOUNTS CAL-AMT ( PPBV) | ON-COL ( PPBV) | TARGET RANGE | RATIO |
|---|---|---|---|---|---|---|---|
| 13 Chloroethane (continued) | | | | | | | |
| 10.728 | 10.728 (0.665) | 66 | 18785 | | | 0.00- 30.00 | 34.38 |
| 14 Isopentane | | | | | CAS #: 78-78-4 | | |
| 10.852 | 10.852 (0.673) | 57 | 67039 | 5.00000 | 5.300 | 70.00- 130.00 | 100.00 |
| 10.852 | 10.852 (0.673) | 43 | 75815 | | | 0.00- 30.00 | 113.09 |
| 10.852 | 10.852 (0.673) | 42 | 65400 | | | 0.00- 30.00 | 97.56 |
| 16 Trichlorofluoromethane/Fr11 | | | | | CAS #: 75-69-4 | | |
| 11.474 | 11.474 (0.711) | 101 | 438777 | 5.00000 | 5.164 | 70.00- 130.00 | 100.00 |
| 11.474 | 11.474 (0.711) | 103 | 284645 | | | 36.02- 96.02 | 64.87 |
| 18 Ethanol | | | | | CAS #: 64-17-5 | | |
| 12.324 | 12.324 (0.764) | 45 | 22341 | 5.00000 | 5.037 | 70.00- 130.00 | 100.00 |
| 12.324 | 12.324 (0.764) | 46 | 9262 | | | 0.00- 30.00 | 41.46 |
| 12.324 | 12.324 (0.764) | 43 | 6955 | | | 0.00- 30.00 | 31.13 |
| 19 Freon 113 | | | | | CAS #: 76-13-1 | | |
| 12.801 | 12.801 (0.794) | 151 | 186750 | 5.00000 | 5.198 | 70.00- 130.00 | 100.00 |
| 12.801 | 12.801 (0.794) | 153 | 121371 | | | 34.27- 94.27 | 64.99 |
| 12.801 | 12.801 (0.794) | 101 | 263082 | | | 0.00- 30.00 | 140.87 |
| 21 1,1-Dichloroethene | | | | | CAS #: 75-35-4 | | |
| 12.821 | 12.821 (0.795) | 98 | 67305 | 5.00000 | 5.509 | 70.00- 130.00 | 100.00 |
| 12.821 | 12.821 (0.795) | 61 | 166600 | | | 0.00- 30.00 | 247.53 |
| 12.821 | 12.821 (0.795) | 96 | 102248 | | | 0.00- 30.00 | 151.92 |
| 22 Acetone | | | | | CAS #: 67-64-1 | | |
| 13.070 | 13.070 (0.810) | 58 | 41617 | 5.00000 | 5.341 | 70.00- 130.00 | 100.00 |
| 13.070 | 13.070 (0.810) | 43 | 133866 | | | 0.00- 30.00 | 321.66 |
| 25 2-Propanol | | | | | CAS #: 67-63-0 | | |
| 13.360 | 13.360 (0.828) | 45 | 111817 | 5.00000 | 5.308 | 70.00- 130.00 | 100.00 |
| 13.360 | 13.360 (0.828) | 43 | 34177 | | | 0.00- 30.00 | 30.57 |
| 13.360 | 13.360 (0.828) | 59 | 5274 | | | 0.00- 30.00 | 4.72 |
| 23 Carbon Disulfide | | | | | CAS #: 75-15-0 | | |
| 13.194 | 13.194 (0.818) | 76 | 269365 | 5.00000 | 5.254 | 70.00- 130.00 | 100.00 |
| 26 3-Chloroprene | | | | | CAS #: 107-05-1 | | |
| 13.588 | 13.588 (0.843) | 76 | 41193 | 5.00000 | 5.448 | 70.00- 130.00 | 100.00 |
| 13.588 | 13.588 (0.843) | 41 | 67029 | | | 0.00- 30.00 | 162.72 |
| 29 Methylene Chloride | | | | | CAS #: 75-09-2 | | |
| 13.885 | 13.885 (0.861) | 84 | 46003 | 5.00000 | 4.783 | 70.00- 130.00 | 100.00 |
| 13.885 | 13.885 (0.861) | 49 | 35893 | | | 0.00- 30.00 | 78.02 |

| RT | EXP RT (REL RT) | MASS | RESPONSE | AMOUNTS CAL-AMT ( PPBV) | ON-COL ( PPBV) | TARGET RANGE | RATIO |
|---|---|---|---|---|---|---|---|
| 29 Methylene Chloride (continued) | | | | | | | |
| 13.885 | 13.885 (0.861) | 51 | 11873 | | | 0.00- 30.00 | 25.81 |
| 30 tert-butyl alcohol | | | | | CAS #: 75-65-0 | | |
| 14.022 | 14.022 (0.869) | 59 | 111752 | 5.00000 | 5.596 | 70.00- 130.00 | 100.00 |
| 14.022 | 14.022 (0.869) | 41 | 25505 | | | 0.00- 30.00 | 22.82 |
| 14.022 | 14.022 (0.869) | 57 | 11894 | | | 0.00- 30.00 | 10.64 |
| 31 MTBE | | | | | CAS #: 1634-04-4 | | |
| 14.187 | 14.187 (0.880) | 73 | 354700 | 5.00000 | 5.725 | 70.00- 130.00 | 100.00 |
| 14.187 | 14.187 (0.880) | 57 | 56203 | | | 0.00- 30.00 | 15.85 |
| 14.187 | 14.187 (0.880) | 41 | 56907 | | | 0.00- 30.00 | 16.04 |
| 32 trans-1,2-Dichloroethene | | | | | CAS #: 156-60-5 | | |
| 14.242 | 14.242 (0.883) | 98 | 71291 | 5.00000 | 5.447 | 70.00- 130.00 | 100.00 |
| 14.242 | 14.242 (0.883) | 61 | 146304 | | | 0.00- 30.00 | 205.22 |
| 14.242 | 14.242 (0.883) | 96 | 110554 | | | 0.00- 30.00 | 155.07 |
| 35 Hexane | | | | | CAS #: 110-54-3 | | |
| 14.544 | 14.544 (0.902) | 57 | 129390 | 5.00000 | 5.760 | 70.00- 130.00 | 100.00 |
| 14.544 | 14.544 (0.902) | 43 | 68737 | | | 0.00- 30.00 | 53.12 |
| 14.544 | 14.544 (0.902) | 86 | 31057 | | | 0.00- 30.00 | 24.00 |
| 36 Isopropyl ether | | | | | CAS #: 108-20-3 | | |
| 14.874 | 14.874 (0.922) | 45 | 137988 | 5.00000 | 5.664 | 70.00- 130.00 | 100.00 |
| 14.874 | 14.874 (0.922) | 87 | 61626 | | | 0.00- 30.00 | 44.66 |
| 14.874 | 14.874 (0.922) | 59 | 19817 | | | 0.00- 30.00 | 14.36 |
| 37 1,1-Dichloroethane | | | | | CAS #: 75-34-3 | | |
| 14.956 | 14.956 (0.927) | 63 | 200524 | 5.00000 | 5.421 | 70.00- 130.00 | 100.00 |
| 14.956 | 14.956 (0.927) | 65 | 64621 | | | 0.00- 30.00 | 32.23 |
| 38 Vinyl Acetate | | | | | CAS #: 108-05-4 | | |
| 14.956 | 14.956 (0.927) | 86 | 31206 | 5.00000 | 5.710 | 70.00- 130.00 | 100.00 |
| 14.956 | 14.956 (0.927) | 42 | 22546 | | | 0.00- 30.00 | 72.25 |
| 14.956 | 14.956 (0.927) | 43 | 204743 | | | 0.00- 30.00 | 656.10 |
| 40 Ethyl-tert-butyl ether | | | | | CAS #: 637-92-3 | | |
| 15.368 | 15.368 (0.953) | 59 | 188810 | 5.00000 | 5.566 | 70.00- 130.00 | 100.00 |
| 15.368 | 15.368 (0.953) | 87 | 94092 | | | 0.00- 30.00 | 49.83 |
| 15.368 | 15.368 (0.953) | 41 | 33010 | | | 0.00- 30.00 | 17.48 |
| 42 2-Butanone | | | | | CAS #: 78-93-3 | | |
| 15.766 | 15.766 (0.978) | 72 | 76177 | 5.00000 | 5.393 | 70.00- 130.00 | 100.00 |
| 15.766 | 15.766 (0.978) | 43 | 185742 | | | 0.00- 30.00 | 243.83 |
| 15.766 | 15.766 (0.978) | 57 | 20630 | | | 0.00- 30.00 | 27.08 |

| RT | EXP RT (REL RT) | MASS | RESPONSE | AMOUNTS CAL-AMT ( PPBV) | ON-COL ( PPBV) | TARGET RANGE | RATIO |
|---|---|---|---|---|---|---|---|
| 41 cis-1,2-Dichloroethene | | | | | CAS #: 156-59-2 | | |
| 15.787 | 15.787 (0.979) | 98 | 113864 | 5.00000 | 5.786 | 70.00- 130.00 | 100.00 |
| 15.787 | 15.787 (0.979) | 61 | 218008 | | | 0.00- 30.00 | 191.46 |
| 15.787 | 15.787 (0.979) | 96 | 177515 | | | 124.52- 184.52 | 155.90 |
| 44 Tetrahydrofuran | | | | | CAS #: 109-99-9 | | |
| 16.128 | 16.128 (1.000) | 42 | 78471 | 5.00000 | 5.573 | 70.00- 130.00 | 100.00 |
| 16.128 | 16.128 (1.000) | 71 | 51618 | | | 0.00- 30.00 | 65.78 |
| 16.128 | 16.128 (1.000) | 72 | 57672 | | | 0.00- 30.00 | 73.49 |
| 47 Chloroform | | | | | CAS #: 67-66-3 | | |
| 16.189 | 16.189 (1.004) | 83 | 306595 | 5.00000 | 5.414 | 70.00- 130.00 | 100.00 |
| 16.189 | 16.189 (1.004) | 85 | 195660 | | | 0.00- 30.00 | 63.82 |
| 49 1,1,1-Trichloroethane | | | | | CAS #: 71-55-6 | | |
| 16.467 | 16.467 (1.021) | 97 | 349030 | 5.00000 | 5.394 | 70.00- 130.00 | 100.00 |
| 16.467 | 16.467 (1.021) | 99 | 226748 | | | 0.00- 30.00 | 64.97 |
| 48 Cyclohexane | | | | | CAS #: 110-82-7 | | |
| 16.467 | 16.467 (1.021) | 84 | 174099 | 5.00000 | 5.758 | 70.00- 130.00 | 100.00 |
| 16.467 | 16.467 (1.021) | 56 | 145156 | | | 0.00- 30.00 | 83.38 |
| 16.467 | 16.467 (1.021) | 41 | 71637 | | | 0.00- 30.00 | 41.15 |
| 51 Carbon Tetrachloride | | | | | CAS #: 56-23-5 | | |
| 16.652 | 16.652 (1.032) | 119 | 336220 | 5.00000 | 6.944 | 70.00- 130.00 | 100.00 |
| 16.652 | 16.652 (1.032) | 117 | 352597 | | | 0.00- 30.00 | 104.87 |
| 52 2,2,4-Trimethylpentane | | | | | CAS #: 540-84-1 | | |
| 16.926 | 16.926 (1.049) | 56 | 193173 | 5.00000 | 5.577 | 70.00- 130.00 | 100.00 |
| 16.926 | 16.926 (1.049) | 57 | 591136 | | | 0.00- 30.00 | 306.01 |
| 16.926 | 16.926 (1.049) | 41 | 177687 | | | 0.00- 30.00 | 91.98 |
| 53 Benzene | | | | | CAS #: 71-43-2 | | |
| 17.013 | 17.013 (0.967) | 78 | 374438 | 5.00000 | 5.432 | 70.00- 130.00 | 100.00 |
| 17.013 | 17.013 (0.967) | 77 | 89359 | | | 0.00- 30.00 | 23.86 |
| 55 tert-amyl methyl ether | | | | | CAS #: 994-05-8 | | |
| 17.042 | 17.042 (0.969) | 87 | 57468 | 5.00000 | 5.656 | 70.00- 130.00 | 100.00 |
| 17.042 | 17.042 (0.969) | 73 | 225966 | | | 0.00- 30.00 | 393.20 |
| 17.042 | 17.042 (0.969) | 55 | 57052 | | | 0.00- 30.00 | 99.28 |
| 56 1,2-Dichloroethane | | | | | CAS #: 107-06-2 | | |
| 17.130 | 17.130 (0.974) | 62 | 208682 | 5.00000 | 5.369 | 70.00- 130.00 | 100.00 |
| 17.130 | 17.130 (0.974) | 64 | 68877 | | | 0.00- 30.00 | 33.01 |
| 57 Heptane | | | | | CAS #: 142-82-5 | | |
| 17.159 | 17.159 (0.976) | 57 | 89757 | 5.00000 | 6.300 | 70.00- 130.00 | 100.00 |

| RT | EXP RT (REL RT) | MASS | RESPONSE | AMOUNTS CAL-AMT ( PPBV) | ON-COL ( PPBV) | TARGET RANGE | RATIO |
|---|---|---|---|---|---|---|---|
| 57 Heptane (continued) | | | | | | | |
| 17.159 | 17.159 (0.976) | 100 | 53041 | | | 0.00- 30.00 | 59.09 |
| 17.159 | 17.159 (0.976) | 43 | 134546 | | | 0.00- 30.00 | 149.90 |
| 59 Trichloroethene | | | | | CAS #: 79-01-6 | | |
| 18.025 | 18.025 (1.025) | 130 | 158588 | 5.00000 | 5.209 | 70.00- 130.00 | 100.00 |
| 18.025 | 18.025 (1.025) | 95 | 181142 | | | 0.00- 30.00 | 114.22 |
| 18.025 | 18.025 (1.025) | 97 | 116929 | | | 0.00- 30.00 | 73.73 |
| 60 Methylcyclohexane | | | | | CAS #: 108-87-2 | | |
| 18.272 | 18.272 (1.039) | 83 | 226605 | 5.00000 | 5.762 | 70.00- 130.00 | 100.00 |
| 18.272 | 18.272 (1.039) | 55 | 140093 | | | 0.00- 30.00 | 61.82 |
| 18.272 | 18.272 (1.039) | 56 | 40828 | | | 0.00- 30.00 | 18.02 |
| 61 1,2-Dichloropropane | | | | | CAS #: 78-87-5 | | |
| 18.519 | 18.519 (1.053) | 63 | 113552 | 5.00000 | 5.358 | 70.00- 130.00 | 100.00 |
| 18.519 | 18.519 (1.053) | 62 | 80055 | | | 0.00- 30.00 | 70.50 |
| 18.519 | 18.519 (1.053) | 41 | 68164 | | | 29.06- 89.06 | 60.03 |
| 62 1,4-Dioxane | | | | | CAS #: 123-91-1 | | |
| 18.629 | 18.629 (1.059) | 88 | 87489 | 5.00000 | 5.788 | 70.00- 130.00 | 100.00 |
| 18.629 | 18.629 (1.059) | 58 | 50695 | | | 0.00- 30.00 | 57.94 |
| 18.629 | 18.629 (1.059) | 57 | 16437 | | | 0.00- 30.00 | 18.79 |
| 63 Bromodichloromethane | | | | | CAS #: 75-27-4 | | |
| 18.959 | 18.959 (1.078) | 83 | 328132 | 5.00000 | 5.542 | 70.00- 130.00 | 100.00 |
| 18.959 | 18.959 (1.078) | 85 | 206836 | | | 0.00- 30.00 | 63.03 |
| 64 cis-1,3-Dichloropropene | | | | | CAS #: 10061-01-5 | | |
| 19.865 | 19.865 (1.130) | 75 | 193306 | 5.00000 | 5.271 | 70.00- 130.00 | 100.00 |
| 19.865 | 19.865 (1.130) | 77 | 59611 | | | 0.00- 30.00 | 30.84 |
| 19.865 | 19.865 (1.130) | 39 | 77432 | | | 10.38- 70.38 | 40.06 |
| 65 4-Methyl-2-pentanone | | | | | CAS #: 108-10-1 | | |
| 20.076 | 20.076 (1.142) | 43 | 168657 | 5.00000 | 6.157 | 70.00- 130.00 | 100.00 |
| 20.076 | 20.076 (1.142) | 58 | 80321 | | | 0.00- 30.00 | 47.62 |
| 20.076 | 20.076 (1.142) | 85 | 46777 | | | 0.00- 30.00 | 27.73 |
| 68 Toluene | | | | | CAS #: 108-88-3 | | |
| 20.525 | 20.525 (1.167) | 91 | 450975 | 5.00000 | 5.482 | 70.00- 130.00 | 100.00 |
| 20.525 | 20.525 (1.167) | 92 | 263789 | | | 0.00- 30.00 | 58.49 |
| 69 trans-1,3-Dichloropropene | | | | | CAS #: 10061-02-6 | | |
| 20.995 | 20.995 (0.916) | 75 | 299837 | 5.00000 | 5.939 | 70.00- 130.00 | 100.00 |
| 20.995 | 20.995 (0.916) | 77 | 71624 | | | 0.00- 30.00 | 23.89 |
| 20.995 | 20.995 (0.916) | 39 | 103887 | | | 4.84- 64.84 | 34.65 |

| RT | EXP RT (REL RT) | MASS | RESPONSE | AMOUNTS CAL-AMT ( PPBV) | ON-COL ( PPBV) | TARGET RANGE | RATIO |
|---|---|---|---|---|---|---|---|
| 70 1,1,2-Trichloroethane | | | | | CAS #: 79-00-5 | | |
| 21.335 | 21.335 (0.931) | 97 | 158742 | 5.00000 | 5.219 | 70.00- 130.00 | 100.00 |
| 21.335 | 21.335 (0.931) | 99 | 98082 | | | 0.00- 30.00 | 61.79 |
| 21.335 | 21.335 (0.931) | 83 | 137617 | | | 52.76- 112.76 | 86.69 |
| 71 Tetrachloroethene | | | | | CAS #: 127-18-4 | | |
| 21.497 | 21.497 (0.938) | 166 | 185312 | 5.00000 | 5.249 | 70.00- 130.00 | 100.00 |
| 21.497 | 21.497 (0.938) | 129 | 162843 | | | 0.00- 30.00 | 87.88 |
| 21.497 | 21.497 (0.938) | 131 | 156526 | | | 0.00- 30.00 | 84.47 |
| 72 2-Hexanone | | | | | CAS #: 591-78-6 | | |
| 21.660 | 21.660 (0.945) | 58 | 108704 | 5.00000 | 5.647 | 70.00- 130.00 | 100.00 |
| 21.660 | 21.660 (0.945) | 43 | 166980 | | | 0.00- 30.00 | 153.61 |
| 21.660 | 21.660 (0.945) | 100 | 28992 | | | 0.00- 30.00 | 26.67 |
| 73 Dibromochloromethane | | | | | CAS #: 124-48-1 | | |
| 22.018 | 22.018 (0.960) | 129 | 294166 | 5.00000 | 5.684 | 70.00- 130.00 | 100.00 |
| 22.018 | 22.018 (0.960) | 127 | 226443 | | | 0.00- 30.00 | 76.98 |
| 74 1,2-Dibromoethane | | | | | CAS #: 106-93-4 | | |
| 22.278 | 22.278 (0.972) | 107 | 254333 | 5.00000 | 5.452 | 70.00- 130.00 | 100.00 |
| 22.278 | 22.278 (0.972) | 109 | 225303 | | | 0.00- 30.00 | 88.59 |
| 76 Chlorobenzene | | | | | CAS #: 108-90-7 | | |
| 22.951 | 22.951 (1.001) | 112 | 351957 | 5.00000 | 5.246 | 70.00- 130.00 | 100.00 |
| 22.951 | 22.951 (1.001) | 114 | 113671 | | | 0.00- 30.00 | 32.30 |
| 22.951 | 22.951 (1.001) | 77 | 240614 | | | 36.24- 96.24 | 68.36 |
| 77 Ethyl Benzene | | | | | CAS #: 100-41-4 | | |
| 23.023 | 23.023 (1.004) | 106 | 187942 | 5.00000 | 5.734 | 70.00- 130.00 | 100.00 |
| 23.023 | 23.023 (1.004) | 91 | 659922 | | | 0.00- 30.00 | 351.13 |
| 80 m,p-Xylene | | | | | CAS #: 108-38-3 | | |
| 23.192 | 23.192 (1.012) | 106 | 235040 | 5.00000 | 5.959 | 70.00- 130.00 | 100.00 |
| 23.192 | 23.192 (1.012) | 91 | 522797 | | | 0.00- 30.00 | 222.43 |
| 81 o-Xylene | | | | | CAS #: 95-47-6 | | |
| 23.770 | 23.770 (1.037) | 106 | 226714 | 5.00000 | 5.979 | 70.00- 130.00 | 100.00 |
| 23.770 | 23.770 (1.037) | 91 | 534389 | | | 0.00- 30.00 | 235.71 |
| 83 Styrene | | | | | CAS #: 100-42-5 | | |
| 23.818 | 23.818 (1.039) | 104 | 343895 | 5.00000 | 6.008 | 70.00- 130.00 | 100.00 |
| 23.794 | 23.794 (1.038) | 78 | 207260 | | | 0.00- 30.00 | 60.27 |
| 84 Bromoform | | | | | CAS #: 75-25-2 | | |
| 24.132 | 24.132 (1.053) | 173 | 260610 | 5.00000 | 5.825 | 70.00- 130.00 | 100.00 |

| RT | EXP RT (REL RT) | MASS | RESPONSE | AMOUNTS CAL-AMT ( PPBV) | ON-COL ( PPBV) | TARGET RANGE | RATIO |
|---|---|---|---|---|---|---|---|
| 84 Bromoform (continued) | | | | | | | |
| 24.132 | 24.132 (1.053) | 171 | 136167 | | | 0.00- 30.00 | 52.25 |
| 85 Cumene | | | | | CAS #: 98-82-8 | | |
| 24.228 | 24.228 (1.057) | 105 | 739731 | 5.00000 | 6.025 | 70.00- 130.00 | 100.00 |
| 24.228 | 24.228 (1.057) | 120 | 175438 | | | 0.00- 30.00 | 23.72 |
| 89 1,1,2,2-Tetrachloroethane | | | | | CAS #: 79-34-5 | | |
| 24.680 | 24.680 (1.076) | 83 | 332319 | 5.00000 | 5.238 | 70.00- 130.00 | 100.00 |
| 24.680 | 24.680 (1.076) | 85 | 206353 | | | 0.00- 30.00 | 62.09 |
| 90 Propylbenzene | | | | | CAS #: 103-65-1 | | |
| 24.758 | 24.758 (1.080) | 91 | 902059 | 5.00000 | 5.736 | 70.00- 130.00 | 100.00 |
| 24.758 | 24.758 (1.080) | 120 | 186803 | | | 0.00- 30.00 | 20.71 |
| 92 4-Ethyltoluene | | | | | CAS #: 622-96-8 | | |
| 24.887 | 24.887 (1.085) | 105 | 783479 | 5.00000 | 5.802 | 70.00- 130.00 | 100.00 |
| 24.887 | 24.887 (1.085) | 120 | 210690 | | | 0.00- 30.00 | 26.89 |
| 94 1,3,5-Trimethylbenzene | | | | | CAS #: 108-67-8 | | |
| 24.938 | 24.938 (1.088) | 105 | 666982 | 5.00000 | 5.739 | 70.00- 130.00 | 100.00 |
| 24.938 | 24.938 (1.088) | 120 | 287773 | | | 0.00- 30.00 | 43.15 |
| 98 1,2,4-Trimethylbenzene | | | | | CAS #: 95-63-6 | | |
| 25.410 | 25.410 (1.108) | 105 | 609563 | 5.00000 | 5.958 | 70.00- 130.00 | 100.00 |
| 25.410 | 25.410 (1.108) | 120 | 248256 | | | 0.00- 30.00 | 40.73 |
| 101 1,3-Dichlorobenzene | | | | | CAS #: 541-73-1 | | |
| 25.791 | 25.791 (1.125) | 146 | 359276 | 5.00000 | 5.539 | 70.00- 130.00 | 100.00 |
| 25.791 | 25.791 (1.125) | 148 | 230987 | | | 0.00- 30.00 | 64.29 |
| 25.791 | 25.791 (1.125) | 111 | 173847 | | | 0.00- 30.00 | 48.39 |
| 104 1,4-Dichlorobenzene | | | | | CAS #: 106-46-7 | | |
| 25.903 | 25.903 (1.130) | 146 | 360632 | 5.00000 | 5.557 | 70.00- 130.00 | 100.00 |
| 25.903 | 25.903 (1.130) | 148 | 227834 | | | 0.00- 30.00 | 63.18 |
| 25.903 | 25.903 (1.130) | 111 | 164255 | | | 0.00- 30.00 | 45.55 |
| 105 alpha-chlorotoluene | | | | | CAS #: 100-44-7 | | |
| 26.060 | 26.060 (1.137) | 91 | 578621 | 5.00000 | 5.854 | 70.00- 130.00 | 100.00 |
| 26.060 | 26.060 (1.137) | 126 | 95450 | | | 0.00- 30.00 | 16.50 |
| 108 1,2-Dichlorobenzene | | | | | CAS #: 95-50-1 | | |
| 26.352 | 26.352 (1.149) | 146 | 336310 | 5.00000 | 5.466 | 70.00- 130.00 | 100.00 |
| 26.352 | 26.352 (1.149) | 148 | 210715 | | | 34.07- 94.07 | 62.65 |
| 26.352 | 26.352 (1.149) | 111 | 166810 | | | 19.87- 79.87 | 49.60 |

| RT | EXP RT (REL RT) | MASS | RESPONSE | AMOUNTS CAL-AMT ( PPBV) | ON-COL ( PPBV) | TARGET RANGE | RATIO |
|---|---|---|---|---|---|---|---|
| 112 1,2,4-Trichlorobenzene | | | | | CAS #: 120-82-1 | | |
| 28.145 | 28.145 (1.228) | 180 | 209863 | 5.00000 | 5.218 | 70.00- 130.00 | 100.00 |
| 28.145 | 28.145 (1.228) | 182 | 198620 | | | 0.00- 30.00 | 94.64 |
| 113 Hexachlorobutadiene | | | | | CAS #: 87-68-3 | | |
| 28.235 | 28.235 (1.232) | 225 | 184079 | 5.00000 | 5.122 | 70.00- 130.00 | 100.00 |
| 28.235 | 28.235 (1.232) | 223 | 118195 | | | 0.00- 30.00 | 64.21 |
| 114 Naphthalene | | | | | CAS #: 91-20-3 | | |
| 28.504 | 28.504 (1.243) | 128 | 43349 | 0.50000 | 0.5062 | 70.00- 130.00 | 100.00 |
| 28.504 | 28.504 (1.243) | 127 | 5969 | | | 0.00- 30.00 | 13.77 |

Report Date: 13-Mar-2012 09:29

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msde.i
Lab File ID: e030814.d
Lab Smp Id: ICAL
Analysis Type: VOA
Quant Type: ISTD
Operator: srs
Method File: /chem/msde.i/08Mar2012.b/e12l0308a.m
Misc Info: 5.0ppbv (50ppbv)

Calibration Date: 08-MAR-2012
Calibration Time: 22:56
Client Smp ID: Level 8
Level: LOW
Sample Type: AIR

| | | AREA LIMIT | | | |
|---|---|---|---|---|---|
| COMPOUND | STANDARD | LOWER | UPPER | SAMPLE | %DIFF |
| 46 Bromochloromethan | 73839 | 44303 | 103375 | 68940 | -6.63 |
| 58 1,4-Difluorobenze | 285440 | 171264 | 399616 | 268720 | -5.86 |
| 75 Chlorobenzene-d5 | 243451 | 146071 | 340831 | 235411 | -3.30 |

| | | RT LIMIT | | | |
|---|---|---|---|---|---|
| COMPOUND | STANDARD | LOWER | UPPER | SAMPLE | %DIFF |
| 46 Bromochloromethan | 16.13 | 15.80 | 16.46 | 16.13 | 0.00 |
| 58 1,4-Difluorobenze | 17.59 | 17.26 | 17.92 | 17.59 | 0.00 |
| 75 Chlorobenzene-d5 | 22.93 | 22.60 | 23.26 | 22.93 | 0.00 |

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Data File: /chem/msde.i/08Mar2012.b/e030814.d

Date : 08-MAR-2012 21:02

Client ID: Level 8

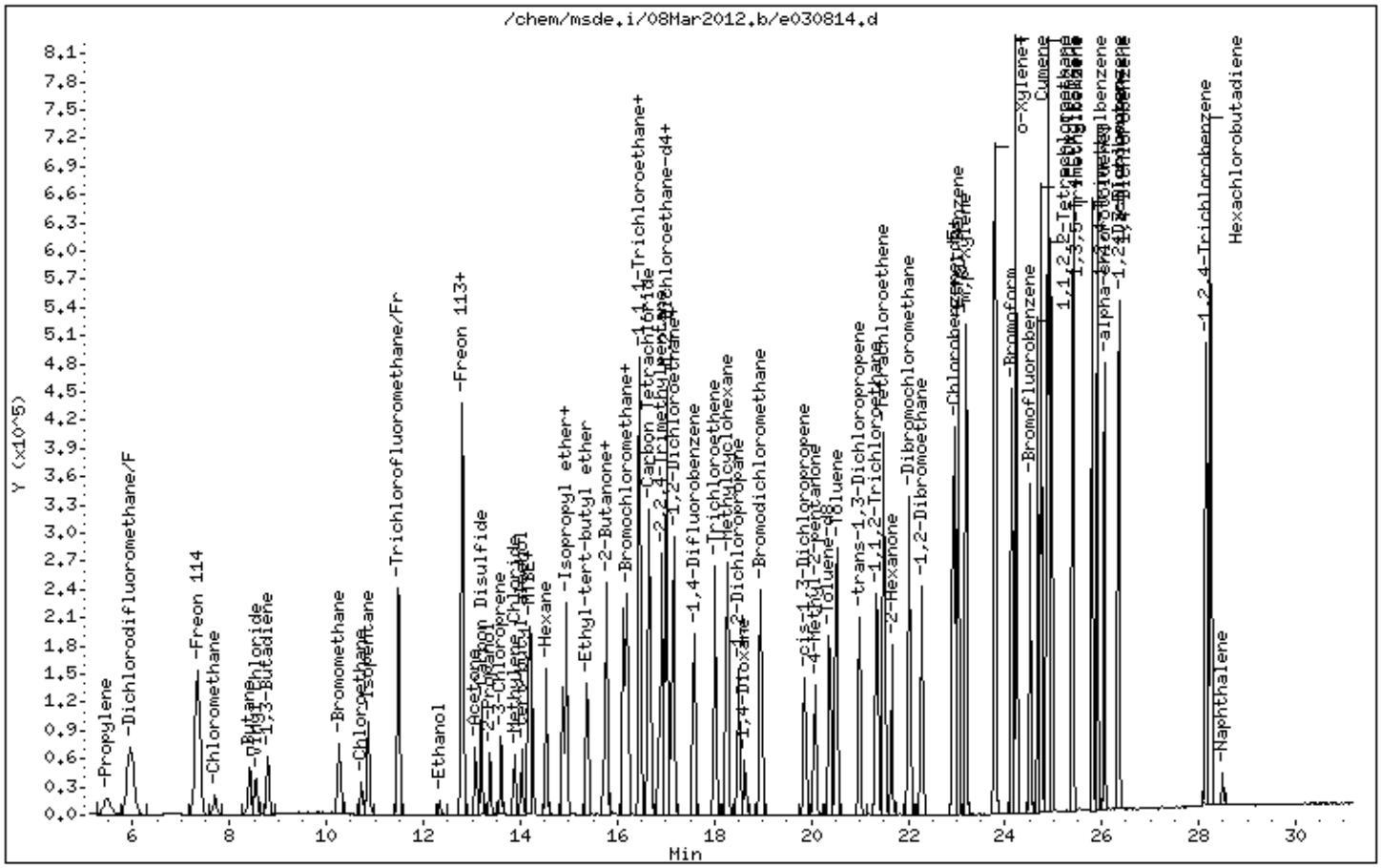
Instrument: msde.i

Sample Info: 25mL #2370-176

Operator: srs

Column phase: RTx-624

Column diameter: 0.32



Air Toxics Ltd.

EPA TO-15/Modified TO14A

Data file : /chem/msde.i/08Mar2012.b/e030815.d
Lab Smp Id: ICAL Client Smp ID: Level 9
Inj Date : 08-MAR-2012 22:56
Operator : srs Inst ID: msde.i
Smp Info : 50mL #2370-176
Misc Info : 10ppbv (50ppbv)
Comment : Low-Level/GC-MS
Method : /chem/msde.i/08Mar2012.b/e12l0308a.m
Meth Date : 13-Mar-2012 09:29 croush Quant Type: ISTD
Cal Date : 08-MAR-2012 22:56 Cal File: e030815.d
Als bottle: 8 Calibration Sample, Level: 9
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: HILOcrvFULL.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

| Name | Value | Description |
|---|---|---|
| DF | 1.00000 | Dilution Factor |

| | | | | AMOUNTS | | | |
|---|---|---|---|---|---|---|---|
| | | | | CAL-AMT | ON-COL | | |
| RT | EXP RT (REL RT) | MASS | RESPONSE | ( PPBV) | ( PPBV) | TARGET RANGE | RATIO |
| == | ====== ======== | ==== | ======== | ======= | ======= | ========== | ===== |
| * 46 Bromochloromethane | | | | | CAS #: 74-97-5 | | |
| 16.128 | 16.128 (1.000) | 130 | 73839 | 5.00000 | | 80.00- 120.00 | 100.00 |
| 16.128 | 16.128 (1.000) | 128 | 56219 | | | 46.14- 106.14 | 76.14 |
| 16.128 | 16.128 (1.000) | 49 | 110133 | | | 119.15- 179.15 | 149.15 |
| * 58 1,4-Difluorobenzene | | | | | CAS #: 540-36-3 | | |
| 17.586 | 17.586 (1.000) | 114 | 285440 | 5.00000 | | 80.00- 120.00 | 100.00 |
| 17.586 | 17.586 (1.000) | 88 | 49963 | | | 0.00- 47.50 | 17.50 |
| * 75 Chlorobenzene-d5 | | | | | CAS #: 3114-55-4 | | |
| 22.927 | 22.927 (1.000) | 117 | 243451 | 5.00000 | | 80.00- 120.00 | 100.00 |
| 22.927 | 22.927 (1.000) | 82 | 157538 | | | 34.71- 94.71 | 64.71 |
| $ 54 1,2-Dichloroethane-d4 | | | | | CAS #: 17060-07-0 | | |
| 17.013 | 17.013 (1.055) | 65 | 135412 | 5.00000 | 4.921 | 80.00- 120.00 | 100.00 |
| 17.013 | 17.013 (1.055) | 67 | 71307 | | | 22.66- 82.66 | 52.66 |

| RT | EXP RT (REL RT) | MASS | RESPONSE | AMOUNTS CAL-AMT ( PPBV) | ON-COL ( PPBV) | TARGET RANGE | RATIO |
|---|---|---|---|---|---|---|---|
| $ 67 Toluene-d8 | | | | | CAS #: 2037-26-5 | | |
| 20.368 | 20.368 (1.158) | 98 | 291907 | 5.00000 | 5.077 | 80.00- 120.00 | 100.00 |
| 20.368 | 20.368 (1.158) | 70 | 35701 | | | 0.00- 42.23 | 12.23 |
| 20.368 | 20.368 (1.158) | 100 | 186562 | | | 33.91- 93.91 | 63.91 |
| $ 87 Bromofluorobenzene | | | | | CAS #: 460-00-4 | | |
| 24.526 | 24.526 (1.070) | 174 | 142712 | 5.00000 | 5.124 | 80.00- 120.00 | 100.00 |
| 24.526 | 24.526 (1.070) | 95 | 222019 | | | 125.57- 185.57 | 155.57 |
| 24.526 | 24.526 (1.070) | 176 | 135191 | | | 64.73- 124.73 | 94.73 |
| 2 Propylene | | | | | CAS #: 115-07-1 | | |
| 5.497 | 5.497 (0.341) | 41 | 120803 | 10.0000 | 10.264 | 80.00- 120.00 | 100.00 |
| 5.473 | 5.473 (0.339) | 42 | 77955 | | | 34.53- 94.53 | 64.53 |
| 5.497 | 5.497 (0.341) | 39 | 101237 | | | 53.80- 113.80 | 83.80 |
| 4 Dichlorodifluoromethane/Fr12 | | | | | CAS #: 75-71-8 | | |
| 5.955 | 5.955 (0.369) | 85 | 858789 | 10.0000 | 9.953 | 80.00- 120.00 | 100.00 |
| 5.955 | 5.955 (0.369) | 87 | 276718 | | | 2.22- 62.22 | 32.22 |
| 6 Freon 114 | | | | | CAS #: 76-14-2 | | |
| 7.329 | 7.329 (0.454) | 135 | 447488 | 10.0000 | 9.968 | 80.00- 120.00 | 100.00 |
| 7.329 | 7.329 (0.454) | 137 | 145023 | | | 2.41- 62.41 | 32.41 |
| 7 Chloromethane | | | | | CAS #: 74-87-3 | | |
| 7.691 | 7.691 (0.477) | 50 | 131137 | 10.0000 | 10.283 | 80.00- 120.00 | 100.00 |
| 7.715 | 7.715 (0.478) | 52 | 43994 | | | 3.55- 63.55 | 33.55 |
| 9 Butane | | | | | CAS #: 106-97-8 | | |
| 8.404 | 8.404 (0.521) | 58 | 51794 | 10.0000 | 11.801 | 80.00- 120.00 | 100.00 |
| 8.404 | 8.404 (0.521) | 43 | 264301 | | | 480.29- 540.29 | 510.29 |
| 10 Vinyl Chloride | | | | | CAS #: 75-01-4 | | |
| 8.543 | 8.543 (0.530) | 62 | 202653 | 10.0000 | 10.068 | 80.00- 120.00 | 100.00 |
| 8.543 | 8.543 (0.530) | 64 | 65961 | | | 2.55- 62.55 | 32.55 |
| 11 1,3-Butadiene | | | | | CAS #: 106-99-0 | | |
| 8.786 | 8.786 (0.545) | 54 | 130175 | 10.0000 | 10.290 | 80.00- 120.00 | 100.00 |
| 8.786 | 8.786 (0.545) | 39 | 120082 | | | 62.25- 122.25 | 92.25 |
| 12 Bromomethane | | | | | CAS #: 74-83-9 | | |
| 10.251 | 10.251 (0.636) | 94 | 222010 | 10.0000 | 9.976 | 80.00- 120.00 | 100.00 |
| 10.251 | 10.251 (0.636) | 96 | 211474 | | | 65.25- 125.25 | 95.25 |
| 13 Chloroethane | | | | | CAS #: 75-00-3 | | |
| 10.728 | 10.728 (0.665) | 64 | 109186 | 10.0000 | 10.180 | 80.00- 120.00 | 100.00 |
| 10.728 | 10.728 (0.665) | 49 | 23751 | | | 0.00- 51.75 | 21.75 |

| RT | EXP RT (REL RT) | MASS | RESPONSE | AMOUNTS CAL-AMT ( PPBV) | ON-COL ( PPBV) | TARGET RANGE | RATIO |
|---|---|---|---|---|---|---|---|
| 13 Chloroethane (continued) | | | | | | | |
| 10.728 | 10.728 (0.665) | 66 | 37158 | | | 4.03- 64.03 | 34.03 |
| 14 Isopentane | | | | | CAS #: 78-78-4 | | |
| 10.852 | 10.852 (0.673) | 57 | 136532 | 10.0000 | 10.079 | 80.00- 120.00 | 100.00 |
| 10.852 | 10.852 (0.673) | 43 | 156333 | | | 84.50- 144.50 | 114.50 |
| 10.852 | 10.852 (0.673) | 42 | 134513 | | | 68.52- 128.52 | 98.52 |
| 16 Trichlorofluoromethane/Fr11 | | | | | CAS #: 75-69-4 | | |
| 11.474 | 11.474 (0.711) | 101 | 863936 | 10.0000 | 9.494 | 80.00- 120.00 | 100.00 |
| 11.474 | 11.474 (0.711) | 103 | 570366 | | | 36.02- 96.02 | 66.02 |
| 18 Ethanol | | | | | CAS #: 64-17-5 | | |
| 12.324 | 12.324 (0.764) | 45 | 48118 | 10.0000 | 10.128 | 80.00- 120.00 | 100.00 |
| 12.324 | 12.324 (0.764) | 46 | 19837 | | | 11.23- 71.23 | 41.23 |
| 12.324 | 12.324 (0.764) | 43 | 14329 | | | 0.00- 59.78 | 29.78 |
| 19 Freon 113 | | | | | CAS #: 76-13-1 | | |
| 12.801 | 12.801 (0.794) | 151 | 378054 | 10.0000 | 9.825 | 80.00- 120.00 | 100.00 |
| 12.801 | 12.801 (0.794) | 153 | 242958 | | | 34.27- 94.27 | 64.27 |
| 12.801 | 12.801 (0.794) | 101 | 515333 | | | 106.31- 166.31 | 136.31 |
| 21 1,1-Dichloroethene | | | | | CAS #: 75-35-4 | | |
| 12.821 | 12.821 (0.795) | 98 | 135007 | 10.0000 | 10.317 | 80.00- 120.00 | 100.00 |
| 12.821 | 12.821 (0.795) | 61 | 339312 | | | 221.33- 281.33 | 251.33 |
| 12.821 | 12.821 (0.795) | 96 | 211847 | | | 126.92- 186.92 | 156.92 |
| 22 Acetone | | | | | CAS #: 67-64-1 | | |
| 13.070 | 13.070 (0.810) | 58 | 85334 | 10.0000 | 10.226 | 80.00- 120.00 | 100.00 |
| 13.070 | 13.070 (0.810) | 43 | 274505 | | | 291.68- 351.68 | 321.68 |
| 25 2-Propanol | | | | | CAS #: 67-63-0 | | |
| 13.360 | 13.360 (0.828) | 45 | 242476 | 10.0000 | 10.748 | 80.00- 120.00 | 100.00 |
| 13.360 | 13.360 (0.828) | 43 | 66141 | | | 0.00- 57.28 | 27.28 |
| 13.360 | 13.360 (0.828) | 59 | 11312 | | | 0.00- 34.67 | 4.67 |
| 23 Carbon Disulfide | | | | | CAS #: 75-15-0 | | |
| 13.194 | 13.194 (0.818) | 76 | 540364 | 10.0000 | 9.841 | 80.00- 120.00 | 100.00 |
| 26 3-Chloroprene | | | | | CAS #: 107-05-1 | | |
| 13.588 | 13.588 (0.843) | 76 | 86588 | 10.0000 | 10.692 | 80.00- 120.00 | 100.00 |
| 13.588 | 13.588 (0.843) | 41 | 143366 | | | 135.57- 195.57 | 165.57 |
| 29 Methylene Chloride | | | | | CAS #: 75-09-2 | | |
| 13.885 | 13.885 (0.861) | 84 | 89234 | 10.0000 | 8.663 | 80.00- 120.00 | 100.00 |
| 13.885 | 13.885 (0.861) | 49 | 72300 | | | 51.02- 111.02 | 81.02 |

| RT | EXP RT (REL RT) | MASS | RESPONSE | AMOUNTS CAL-AMT ( PPBV) | ON-COL ( PPBV) | TARGET RANGE | RATIO |
|---|---|---|---|---|---|---|---|
| 29 Methylene Chloride (continued) | | | | | | | |
| 13.885 | 13.885 (0.861) | 51 | 23055 | | | 0.00- 55.84 | 25.84 |
| 30 tert-butyl alcohol | | | | | CAS #: 75-65-0 | | |
| 14.023 | 14.023 (0.869) | 59 | 233491 | 10.0000 | 10.915 | 80.00- 120.00 | 100.00 |
| 14.023 | 14.023 (0.869) | 41 | 50866 | | | 0.00- 51.78 | 21.78 |
| 14.023 | 14.023 (0.869) | 57 | 24712 | | | 0.00- 40.58 | 10.58 |
| 31 MTBE | | | | | CAS #: 1634-04-4 | | |
| 14.187 | 14.187 (0.880) | 73 | 729786 | 10.0000 | 10.998 | 80.00- 120.00 | 100.00 |
| 14.187 | 14.187 (0.880) | 57 | 120512 | | | 0.00- 46.51 | 16.51 |
| 14.187 | 14.187 (0.880) | 41 | 110700 | | | 0.00- 45.17 | 15.17 |
| 32 trans-1,2-Dichloroethene | | | | | CAS #: 156-60-5 | | |
| 14.242 | 14.242 (0.883) | 98 | 144591 | 10.0000 | 10.315 | 80.00- 120.00 | 100.00 |
| 14.242 | 14.242 (0.883) | 61 | 291596 | | | 171.67- 231.67 | 201.67 |
| 14.242 | 14.242 (0.883) | 96 | 219039 | | | 121.49- 181.49 | 151.49 |
| 35 Hexane | | | | | CAS #: 110-54-3 | | |
| 14.544 | 14.544 (0.902) | 57 | 268267 | 10.0000 | 11.150 | 80.00- 120.00 | 100.00 |
| 14.544 | 14.544 (0.902) | 43 | 140533 | | | 22.39- 82.39 | 52.39 |
| 14.544 | 14.544 (0.902) | 86 | 65924 | | | 0.00- 54.57 | 24.57 |
| 36 Isopropyl ether | | | | | CAS #: 108-20-3 | | |
| 14.874 | 14.874 (0.922) | 45 | 283156 | 10.0000 | 10.852 | 80.00- 120.00 | 100.00 |
| 14.874 | 14.874 (0.922) | 87 | 130457 | | | 16.07- 76.07 | 46.07 |
| 14.874 | 14.874 (0.922) | 59 | 41809 | | | 0.00- 44.77 | 14.77 |
| 37 1,1-Dichloroethane | | | | | CAS #: 75-34-3 | | |
| 14.956 | 14.956 (0.927) | 63 | 405855 | 10.0000 | 10.243 | 80.00- 120.00 | 100.00 |
| 14.956 | 14.956 (0.927) | 65 | 130140 | | | 2.07- 62.07 | 32.07 |
| 38 Vinyl Acetate | | | | | CAS #: 108-05-4 | | |
| 14.956 | 14.956 (0.927) | 86 | 65132 | 10.0000 | 11.127 | 80.00- 120.00 | 100.00 |
| 14.956 | 14.956 (0.927) | 42 | 43374 | | | 36.59- 96.59 | 66.59 |
| 14.956 | 14.956 (0.927) | 43 | 437163 | | | 641.20- 701.20 | 671.20 |
| 40 Ethyl-tert-butyl ether | | | | | CAS #: 637-92-3 | | |
| 15.368 | 15.368 (0.953) | 59 | 395604 | 10.0000 | 10.888 | 80.00- 120.00 | 100.00 |
| 15.368 | 15.368 (0.953) | 87 | 199849 | | | 20.52- 80.52 | 50.52 |
| 15.368 | 15.368 (0.953) | 41 | 67459 | | | 0.00- 47.05 | 17.05 |
| 42 2-Butanone | | | | | CAS #: 78-93-3 | | |
| 15.766 | 15.766 (0.978) | 72 | 165422 | 10.0000 | 10.934 | 80.00- 120.00 | 100.00 |
| 15.766 | 15.766 (0.978) | 43 | 431201 | | | 230.67- 290.67 | 260.67 |
| 15.766 | 15.766 (0.978) | 57 | 41182 | | | 0.00- 54.90 | 24.90 |

| RT | EXP RT (REL RT) | MASS | RESPONSE | AMOUNTS CAL-AMT ( PPBV) | ON-COL ( PPBV) | TARGET RANGE | RATIO |
|---|---|---|---|---|---|---|---|
| 41 cis-1,2-Dichloroethene | | | | | CAS #: 156-59-2 | | |
| 15.787 | 15.787 (0.979) | 98 | 232928 | 10.0000 | 11.052 | 80.00- 120.00 | 100.00 |
| 15.787 | 15.787 (0.979) | 61 | 437072 | | | 157.64- 217.64 | 187.64 |
| 15.787 | 15.787 (0.979) | 96 | 359921 | | | 124.52- 184.52 | 154.52 |
| 44 Tetrahydrofuran | | | | | CAS #: 109-99-9 | | |
| 16.128 | 16.128 (1.000) | 42 | 161426 | 10.0000 | 10.703 | 80.00- 120.00 | 100.00 |
| 16.128 | 16.128 (1.000) | 71 | 109752 | | | 37.99- 97.99 | 67.99 |
| 16.128 | 16.128 (1.000) | 72 | 118823 | | | 43.61- 103.61 | 73.61 |
| 47 Chloroform | | | | | CAS #: 67-66-3 | | |
| 16.189 | 16.189 (1.004) | 83 | 602215 | 10.0000 | 9.929 | 80.00- 120.00 | 100.00 |
| 16.189 | 16.189 (1.004) | 85 | 384606 | | | 33.87- 93.87 | 63.87 |
| 49 1,1,1-Trichloroethane | | | | | CAS #: 71-55-6 | | |
| 16.467 | 16.467 (1.021) | 97 | 700538 | 10.0000 | 10.108 | 80.00- 120.00 | 100.00 |
| 16.467 | 16.467 (1.021) | 99 | 446419 | | | 33.73- 93.73 | 63.73 |
| 48 Cyclohexane | | | | | CAS #: 110-82-7 | | |
| 16.467 | 16.467 (1.021) | 84 | 352244 | 10.0000 | 10.877 | 80.00- 120.00 | 100.00 |
| 16.467 | 16.467 (1.021) | 56 | 282925 | | | 50.32- 110.32 | 80.32 |
| 16.467 | 16.467 (1.021) | 41 | 142854 | | | 10.56- 70.56 | 40.56 |
| 51 Carbon Tetrachloride | | | | | CAS #: 56-23-5 | | |
| 16.652 | 16.652 (1.032) | 119 | 666027 | 10.0000 | 12.844 | 80.00- 120.00 | 100.00 |
| 16.652 | 16.652 (1.032) | 117 | 702806 | | | 75.52- 135.52 | 105.52 |
| 52 2,2,4-Trimethylpentane | | | | | CAS #: 540-84-1 | | |
| 16.926 | 16.926 (1.049) | 56 | 378332 | 10.0000 | 10.198 | 80.00- 120.00 | 100.00 |
| 16.926 | 16.926 (1.049) | 57 | 1167482 | | | 278.59- 338.59 | 308.59 |
| 16.926 | 16.926 (1.049) | 41 | 346666 | | | 61.63- 121.63 | 91.63 |
| 53 Benzene | | | | | CAS #: 71-43-2 | | |
| 17.013 | 17.013 (0.967) | 78 | 735607 | 10.0000 | 10.046 | 80.00- 120.00 | 100.00 |
| 17.013 | 17.013 (0.967) | 77 | 173162 | | | 0.00- 53.54 | 23.54 |
| 55 tert-amyl methyl ether | | | | | CAS #: 994-05-8 | | |
| 17.042 | 17.042 (0.969) | 87 | 116758 | 10.0000 | 10.819 | 80.00- 120.00 | 100.00 |
| 17.042 | 17.042 (0.969) | 73 | 455555 | | | 360.17- 420.17 | 390.17 |
| 17.042 | 17.042 (0.969) | 55 | 110311 | | | 64.48- 124.48 | 94.48 |
| 56 1,2-Dichloroethane | | | | | CAS #: 107-06-2 | | |
| 17.130 | 17.130 (0.974) | 62 | 403807 | 10.0000 | 9.780 | 80.00- 120.00 | 100.00 |
| 17.130 | 17.130 (0.974) | 64 | 135121 | | | 3.46- 63.46 | 33.46 |
| 57 Heptane | | | | | CAS #: 142-82-5 | | |
| 17.159 | 17.159 (0.976) | 57 | 168967 | 10.0000 | 11.164 | 80.00- 120.00 | 100.00 |

| RT | EXP RT (REL RT) | MASS | RESPONSE | AMOUNTS CAL-AMT ( PPBV) | ON-COL ( PPBV) | TARGET RANGE | RATIO |
|---|---|---|---|---|---|---|---|
| 57 Heptane (continued) | | | | | | | |
| 17.159 | 17.159 (0.976) | 100 | 103986 | | | 31.54- 91.54 | 61.54 |
| 17.159 | 17.159 (0.976) | 43 | 261906 | | | 125.00- 185.00 | 155.00 |
| 59 Trichloroethene | | | | | CAS #: 79-01-6 | | |
| 18.025 | 18.025 (1.025) | 130 | 319673 | 10.0000 | 9.885 | 80.00- 120.00 | 100.00 |
| 18.025 | 18.025 (1.025) | 95 | 358631 | | | 82.19- 142.19 | 112.19 |
| 18.025 | 18.025 (1.025) | 97 | 235190 | | | 43.57- 103.57 | 73.57 |
| 60 Methylcyclohexane | | | | | CAS #: 108-87-2 | | |
| 18.272 | 18.272 (1.039) | 83 | 453787 | 10.0000 | 10.863 | 80.00- 120.00 | 100.00 |
| 18.272 | 18.272 (1.039) | 55 | 279190 | | | 31.52- 91.52 | 61.52 |
| 18.272 | 18.272 (1.039) | 56 | 85402 | | | 0.00- 48.82 | 18.82 |
| 61 1,2-Dichloropropane | | | | | CAS #: 78-87-5 | | |
| 18.519 | 18.519 (1.053) | 63 | 222346 | 10.0000 | 9.877 | 80.00- 120.00 | 100.00 |
| 18.519 | 18.519 (1.053) | 62 | 158427 | | | 41.25- 101.25 | 71.25 |
| 18.519 | 18.519 (1.053) | 41 | 131308 | | | 29.06- 89.06 | 59.06 |
| 62 1,4-Dioxane | | | | | CAS #: 123-91-1 | | |
| 18.629 | 18.629 (1.059) | 88 | 183207 | 10.0000 | 11.412 | 80.00- 120.00 | 100.00 |
| 18.629 | 18.629 (1.059) | 58 | 102479 | | | 25.94- 85.94 | 55.94 |
| 18.629 | 18.629 (1.059) | 57 | 34348 | | | 0.00- 48.75 | 18.75 |
| 63 Bromodichloromethane | | | | | CAS #: 75-27-4 | | |
| 18.959 | 18.959 (1.078) | 83 | 657751 | 10.0000 | 10.459 | 80.00- 120.00 | 100.00 |
| 18.959 | 18.959 (1.078) | 85 | 406973 | | | 31.87- 91.87 | 61.87 |
| 64 cis-1,3-Dichloropropene | | | | | CAS #: 10061-01-5 | | |
| 19.865 | 19.865 (1.130) | 75 | 411438 | 10.0000 | 10.561 | 80.00- 120.00 | 100.00 |
| 19.865 | 19.865 (1.130) | 77 | 127527 | | | 1.00- 61.00 | 31.00 |
| 19.865 | 19.865 (1.130) | 39 | 166142 | | | 10.38- 70.38 | 40.38 |
| 65 4-Methyl-2-pentanone | | | | | CAS #: 108-10-1 | | |
| 20.077 | 20.077 (1.142) | 43 | 353172 | 10.0000 | 12.138 | 80.00- 120.00 | 100.00 |
| 20.077 | 20.077 (1.142) | 58 | 172315 | | | 18.79- 78.79 | 48.79 |
| 20.077 | 20.077 (1.142) | 85 | 100222 | | | 0.00- 58.38 | 28.38 |
| 68 Toluene | | | | | CAS #: 108-88-3 | | |
| 20.525 | 20.525 (1.167) | 91 | 878430 | 10.0000 | 10.054 | 80.00- 120.00 | 100.00 |
| 20.525 | 20.525 (1.167) | 92 | 518421 | | | 29.02- 89.02 | 59.02 |
| 69 trans-1,3-Dichloropropene | | | | | CAS #: 10061-02-6 | | |
| 20.995 | 20.995 (0.916) | 75 | 614516 | 10.0000 | 11.771 | 80.00- 120.00 | 100.00 |
| 20.995 | 20.995 (0.916) | 77 | 193227 | | | 1.44- 61.44 | 31.44 |
| 20.995 | 20.995 (0.916) | 39 | 214099 | | | 4.84- 64.84 | 34.84 |

| RT | EXP RT (REL RT) | MASS | RESPONSE | AMOUNTS CAL-AMT ( PPBV) | ON-COL ( PPBV) | TARGET RANGE | RATIO |
|---|---|---|---|---|---|---|---|
| 70 1,1,2-Trichloroethane | | | | | CAS #: 79-00-5 | | |
| 21.335 | 21.335 (0.931) | 97 | 319979 | 10.0000 | 10.173 | 80.00- 120.00 | 100.00 |
| 21.335 | 21.335 (0.931) | 99 | 195230 | | | 31.01- 91.01 | 61.01 |
| 21.335 | 21.335 (0.931) | 83 | 264819 | | | 52.76- 112.76 | 82.76 |
| 71 Tetrachloroethene | | | | | CAS #: 127-18-4 | | |
| 21.498 | 21.498 (0.938) | 166 | 362926 | 10.0000 | 9.940 | 80.00- 120.00 | 100.00 |
| 21.498 | 21.498 (0.938) | 129 | 326052 | | | 59.84- 119.84 | 89.84 |
| 21.498 | 21.498 (0.938) | 131 | 307381 | | | 54.70- 114.70 | 84.70 |
| 72 2-Hexanone | | | | | CAS #: 591-78-6 | | |
| 21.660 | 21.660 (0.945) | 58 | 225132 | 10.0000 | 11.309 | 80.00- 120.00 | 100.00 |
| 21.660 | 21.660 (0.945) | 43 | 349878 | | | 125.41- 185.41 | 155.41 |
| 21.660 | 21.660 (0.945) | 100 | 65521 | | | 0.00- 59.10 | 29.10 |
| 73 Dibromochloromethane | | | | | CAS #: 124-48-1 | | |
| 22.018 | 22.018 (0.960) | 129 | 602031 | 10.0000 | 11.249 | 80.00- 120.00 | 100.00 |
| 22.018 | 22.018 (0.960) | 127 | 463984 | | | 47.07- 107.07 | 77.07 |
| 74 1,2-Dibromoethane | | | | | CAS #: 106-93-4 | | |
| 22.278 | 22.278 (0.972) | 107 | 509404 | 10.0000 | 10.559 | 80.00- 120.00 | 100.00 |
| 22.278 | 22.278 (0.972) | 109 | 452938 | | | 58.92- 118.92 | 88.92 |
| 76 Chlorobenzene | | | | | CAS #: 108-90-7 | | |
| 22.951 | 22.951 (1.001) | 112 | 686603 | 10.0000 | 9.896 | 80.00- 120.00 | 100.00 |
| 22.951 | 22.951 (1.001) | 114 | 222297 | | | 2.38- 62.38 | 32.38 |
| 22.951 | 22.951 (1.001) | 77 | 454787 | | | 36.24- 96.24 | 66.24 |
| 77 Ethyl Benzene | | | | | CAS #: 100-41-4 | | |
| 23.023 | 23.023 (1.004) | 106 | 361744 | 10.0000 | 10.672 | 80.00- 120.00 | 100.00 |
| 23.023 | 23.023 (1.004) | 91 | 1255885 | | | 317.18- 377.18 | 347.18 |
| 80 m,p-Xylene | | | | | CAS #: 108-38-3 | | |
| 23.192 | 23.192 (1.012) | 106 | 445353 | 10.0000 | 10.919 | 80.00- 120.00 | 100.00 |
| 23.192 | 23.192 (1.012) | 91 | 1017184 | | | 198.40- 258.40 | 228.40 |
| 81 o-Xylene | | | | | CAS #: 95-47-6 | | |
| 23.770 | 23.770 (1.037) | 106 | 445788 | 10.0000 | 11.369 | 80.00- 120.00 | 100.00 |
| 23.770 | 23.770 (1.037) | 91 | 1045431 | | | 204.51- 264.51 | 234.51 |
| 83 Styrene | | | | | CAS #: 100-42-5 | | |
| 23.818 | 23.818 (1.039) | 104 | 682979 | 10.0000 | 11.539 | 80.00- 120.00 | 100.00 |
| 23.794 | 23.794 (1.038) | 78 | 414099 | | | 30.63- 90.63 | 60.63 |
| 84 Bromoform | | | | | CAS #: 75-25-2 | | |
| 24.132 | 24.132 (1.053) | 173 | 538957 | 10.0000 | 11.649 | 80.00- 120.00 | 100.00 |

| RT | EXP RT (REL RT) | MASS | RESPONSE | AMOUNTS CAL-AMT ( PPBV) | AMOUNTS ON-COL ( PPBV) | TARGET RANGE | RATIO |
|---|---|---|---|---|---|---|---|
| 84 Bromoform (continued) | | | | | | | |
| 24.132 | 24.132 (1.053) | 171 | 281005 | | | 22.14- 82.14 | 52.14 |
| 85 Cumene | | | | | CAS #: 98-82-8 | | |
| 24.228 | 24.228 (1.057) | 105 | 1443759 | 10.0000 | 11.372 | 80.00- 120.00 | 100.00 |
| 24.228 | 24.228 (1.057) | 120 | 340175 | | | 0.00- 53.56 | 23.56 |
| 89 1,1,2,2-Tetrachloroethane | | | | | CAS #: 79-34-5 | | |
| 24.680 | 24.680 (1.076) | 83 | 651389 | 10.0000 | 9.927 | 80.00- 120.00 | 100.00 |
| 24.680 | 24.680 (1.076) | 85 | 405647 | | | 32.27- 92.27 | 62.27 |
| 90 Propylbenzene | | | | | CAS #: 103-65-1 | | |
| 24.758 | 24.758 (1.080) | 91 | 1755865 | 10.0000 | 10.797 | 80.00- 120.00 | 100.00 |
| 24.758 | 24.758 (1.080) | 120 | 355821 | | | 0.00- 50.26 | 20.26 |
| 92 4-Ethyltoluene | | | | | CAS #: 622-96-8 | | |
| 24.887 | 24.887 (1.085) | 105 | 1537934 | 10.0000 | 11.014 | 80.00- 120.00 | 100.00 |
| 24.887 | 24.887 (1.085) | 120 | 416229 | | | 0.00- 57.06 | 27.06 |
| 94 1,3,5-Trimethylbenzene | | | | | CAS #: 108-67-8 | | |
| 24.964 | 24.964 (1.089) | 105 | 1315812 | 10.0000 | 10.947 | 80.00- 120.00 | 100.00 |
| 24.964 | 24.964 (1.089) | 120 | 559650 | | | 12.53- 72.53 | 42.53 |
| 98 1,2,4-Trimethylbenzene | | | | | CAS #: 95-63-6 | | |
| 25.410 | 25.410 (1.108) | 105 | 1217340 | 10.0000 | 11.505 | 80.00- 120.00 | 100.00 |
| 25.410 | 25.410 (1.108) | 120 | 494984 | | | 10.66- 70.66 | 40.66 |
| 101 1,3-Dichlorobenzene | | | | | CAS #: 541-73-1 | | |
| 25.791 | 25.791 (1.125) | 146 | 700657 | 10.0000 | 10.446 | 80.00- 120.00 | 100.00 |
| 25.791 | 25.791 (1.125) | 148 | 447454 | | | 33.86- 93.86 | 63.86 |
| 25.791 | 25.791 (1.125) | 111 | 334619 | | | 17.76- 77.76 | 47.76 |
| 104 1,4-Dichlorobenzene | | | | | CAS #: 106-46-7 | | |
| 25.903 | 25.903 (1.130) | 146 | 692477 | 10.0000 | 10.318 | 80.00- 120.00 | 100.00 |
| 25.903 | 25.903 (1.130) | 148 | 440627 | | | 33.63- 93.63 | 63.63 |
| 25.903 | 25.903 (1.130) | 111 | 316446 | | | 15.70- 75.70 | 45.70 |
| 105 alpha-chlorotoluene | | | | | CAS #: 100-44-7 | | |
| 26.060 | 26.060 (1.137) | 91 | 1151322 | 10.0000 | 11.263 | 80.00- 120.00 | 100.00 |
| 26.060 | 26.060 (1.137) | 126 | 197443 | | | 0.00- 47.15 | 17.15 |
| 108 1,2-Dichlorobenzene | | | | | CAS #: 95-50-1 | | |
| 26.352 | 26.352 (1.149) | 146 | 650693 | 10.0000 | 10.226 | 80.00- 120.00 | 100.00 |
| 26.352 | 26.352 (1.149) | 148 | 416928 | | | 34.07- 94.07 | 64.07 |
| 26.352 | 26.352 (1.149) | 111 | 324485 | | | 19.87- 79.87 | 49.87 |

| | | | | AMOUNTS CAL-AMT ( PPBV) | ON-COL ( PPBV) | TARGET RANGE | RATIO |
|---|---|---|---|---|---|---|---|
| RT | EXP RT (REL RT) | MASS | RESPONSE | | | | |
| 112 1,2,4-Trichlorobenzene | | | | | CAS #: 120-82-1 | | |
| 28.145 | 28.145 (1.228) | 180 | 463816 | 10.0000 | 11.151 | 80.00- 120.00 | 100.00 |
| 28.145 | 28.145 (1.228) | 182 | 438997 | | | 64.65- 124.65 | 94.65 |
| 113 Hexachlorobutadiene | | | | | CAS #: 87-68-3 | | |
| 28.235 | 28.235 (1.232) | 225 | 387658 | 10.0000 | 10.432 | 80.00- 120.00 | 100.00 |
| 28.235 | 28.235 (1.232) | 223 | 246827 | | | 33.67- 93.67 | 63.67 |
| 114 Naphthalene | | | | | CAS #: 91-20-3 | | |
| 28.504 | 28.504 (1.243) | 128 | 98061 | 1.00000 | 1.107 | 80.00- 120.00 | 100.00 |
| 28.504 | 28.504 (1.243) | 127 | 13119 | | | 0.00- 43.38 | 13.38 |

Report Date: 13-Mar-2012 09:29

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msde.i
Lab File ID: e030815.d
Lab Smp Id: ICAL
Analysis Type: VOA
Quant Type: ISTD
Operator: srs
Method File: /chem/msde.i/08Mar2012.b/e12l0308a.m
Misc Info: 10ppbv (50ppbv)

Calibration Date: 08-MAR-2012
Calibration Time: 22:56
Client Smp ID: Level 9
Level: LOW
Sample Type: AIR

| | | AREA LIMIT | | | |
|---|---|---|---|---|---|
| COMPOUND | STANDARD | LOWER | UPPER | SAMPLE | %DIFF |
| 46 Bromochloromethan | 73839 | 44303 | 103375 | 73839 | 0.00 |
| 58 1,4-Difluorobenze | 285440 | 171264 | 399616 | 285440 | 0.00 |
| 75 Chlorobenzene-d5 | 243451 | 146071 | 340831 | 243451 | 0.00 |

| | | RT LIMIT | | | |
|---|---|---|---|---|---|
| COMPOUND | STANDARD | LOWER | UPPER | SAMPLE | %DIFF |
| 46 Bromochloromethan | 16.13 | 15.80 | 16.46 | 16.13 | 0.00 |
| 58 1,4-Difluorobenze | 17.59 | 17.26 | 17.92 | 17.59 | 0.00 |
| 75 Chlorobenzene-d5 | 22.93 | 22.60 | 23.26 | 22.93 | 0.00 |

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Data File: /chem/msde.i/08Mar2012.b/e030815.d



Date : 08-MAR-2012 22:56

Client ID: Level 9

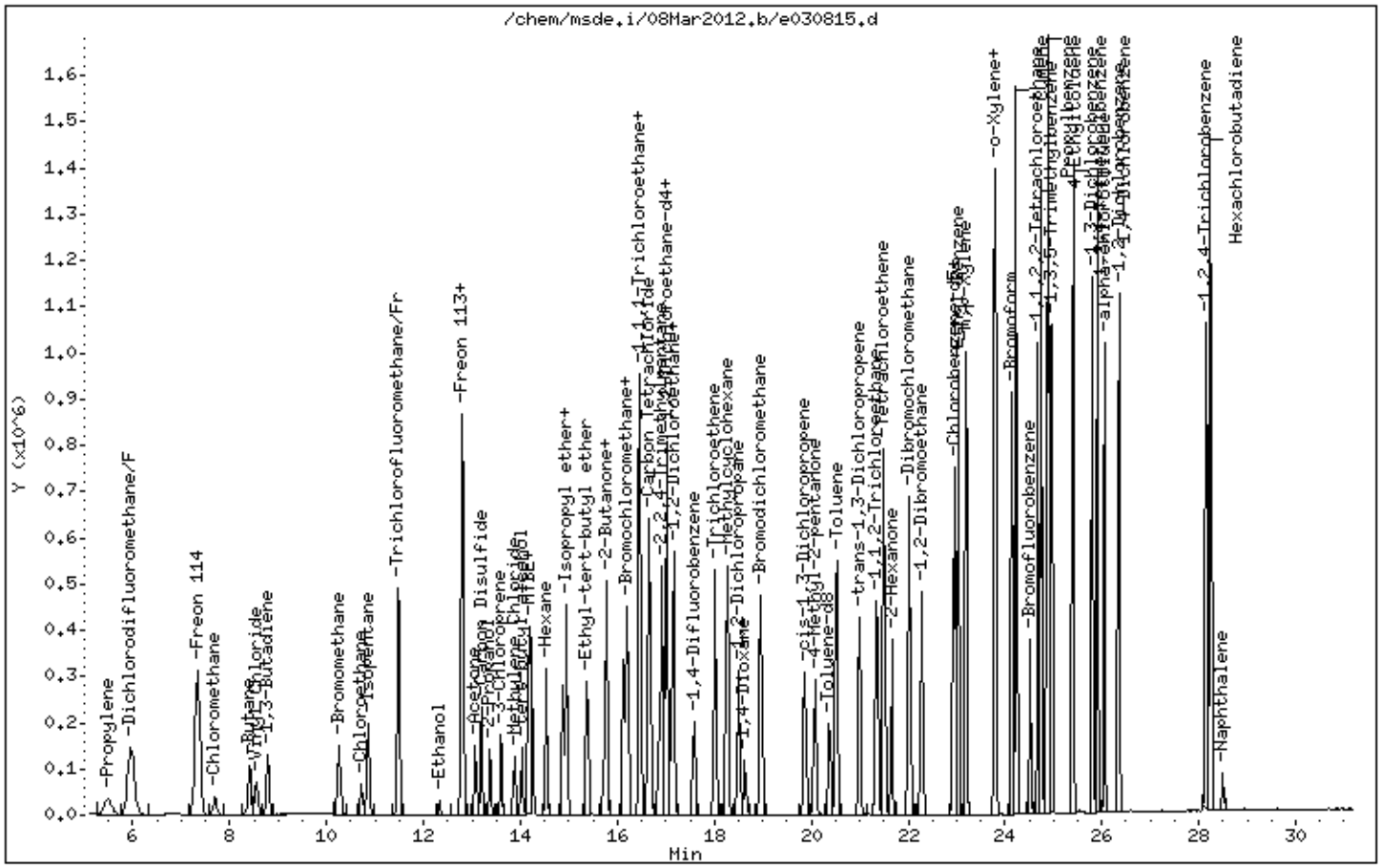
Instrument: msde.i

Sample Info: 50mL #2370-176

Operator: srs

Column phase: RTx-624

Column diameter: 0.32



Air Toxics Ltd.

EPA TO-15/Modified TO14A

Data file : /chem/msde.i/08Mar2012.b/e030816.d
Lab Smp Id: ICAL Client Smp ID: Level 10
Inj Date : 08-MAR-2012 23:48
Operator : ea Inst ID: msde.i
Smp Info : 100mL #2370-176
Misc Info : 20ppbv (50ppbv)
Comment : Low-Level/GC-MS
Method : /chem/msde.i/08Mar2012.b/e12l0308a.m
Meth Date : 13-Mar-2012 09:29 croush Quant Type: ISTD
Cal Date : 08-MAR-2012 23:48 Cal File: e030816.d
Als bottle: 8 Calibration Sample, Level: 10
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: HILOcrvFULL.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

| Name | Value | Description |
|---|---|---|
| DF | 1.00000 | Dilution Factor |

| | | | | AMOUNTS | | | | |
|---|---|---|---|---|---|---|---|---|
| | | | | CAL-AMT | ON-COL | | | |
| RT | EXP RT (REL RT) | MASS | RESPONSE | ( PPBV) | ( PPBV) | TARGET RANGE | | RATIO |
| == | ====== ======== | ==== | ======== | ======= | ======= | ========== | | ===== |
| * 46 Bromochloromethane | | | | | | CAS #: 74-97-5 | | |
| 16.127 | 16.127 (1.000) | 130 | 72955 | 5.00000 | | 70.00- 130.00 | | 100.00 |
| 16.127 | 16.127 (1.000) | 128 | 56658 | | | 0.00- 30.00 | | 77.66 |
| 16.189 | 16.189 (1.000) | 49 | 137527 | | | 0.00- 30.00 | | 188.51 |
| * 58 1,4-Difluorobenzene | | | | | | CAS #: 540-36-3 | | |
| 17.585 | 17.585 (1.000) | 114 | 287228 | 5.00000 | | 70.00- 130.00 | | 100.00 |
| 17.585 | 17.585 (1.000) | 88 | 50141 | | | 0.00- 30.00 | | 17.46 |
| * 75 Chlorobenzene-d5 | | | | | | CAS #: 3114-55-4 | | |
| 22.927 | 22.927 (1.000) | 117 | 243139 | 5.00000 | | 70.00- 130.00 | | 100.00 |
| 22.927 | 22.927 (1.000) | 82 | 160042 | | | 0.00- 30.00 | | 65.82 |
| $ 54 1,2-Dichloroethane-d4 | | | | | | CAS #: 17060-07-0 | | |
| 17.013 | 17.013 (1.055) | 65 | 134735 | 5.00000 | 4.956 | 70.00- 130.00 | | 100.00 |
| 17.013 | 17.013 (1.055) | 67 | 72427 | | | 0.00- 30.00 | | 53.76 |

| RT | EXP RT (REL RT) | MASS | RESPONSE | AMOUNTS CAL-AMT ( PPBV) | ON-COL ( PPBV) | TARGET RANGE | RATIO |
|---|---|---|---|---|---|---|---|
| $ 67 Toluene-d8 | | | | | CAS #: 2037-26-5 | | |
| 20.368 | 20.368 (1.158) | 98 | 296022 | 5.00000 | 5.117 | 70.00- 130.00 | 100.00 |
| 20.368 | 20.368 (1.158) | 70 | 34679 | | | 0.00- 30.00 | 11.72 |
| 20.368 | 20.368 (1.158) | 100 | 187842 | | | 33.91- 93.91 | 63.46 |
| $ 87 Bromofluorobenzene | | | | | CAS #: 460-00-4 | | |
| 24.525 | 24.525 (1.070) | 174 | 136465 | 5.00000 | 4.906 | 70.00- 130.00 | 100.00 |
| 24.525 | 24.525 (1.070) | 95 | 217596 | | | 125.57- 185.57 | 159.45 |
| 24.525 | 24.525 (1.070) | 176 | 133734 | | | 64.73- 124.73 | 98.00 |
| 2 Propylene | | | | | CAS #: 115-07-1 | | |
| 5.473 | 5.473 (0.339) | 41 | 221077 | 20.0000 | 19.010 | 70.00- 130.00 | 100.00 |
| 5.497 | 5.497 (0.341) | 42 | 143656 | | | 0.00- 30.00 | 64.98 |
| 5.473 | 5.473 (0.339) | 39 | 185529 | | | 0.00- 30.00 | 83.92 |
| 4 Dichlorodifluoromethane/Fr12 | | | | | CAS #: 75-71-8 | | |
| 5.955 | 5.955 (0.369) | 85 | 1606311 | 20.0000 | 18.841 | 70.00- 130.00 | 100.00 |
| 5.955 | 5.955 (0.369) | 87 | 523850 | | | 2.22- 62.22 | 32.61 |
| 6 Freon 114 | | | | | CAS #: 76-14-2 | | |
| 7.329 | 7.329 (0.454) | 135 | 847897 | 20.0000 | 19.116 | 70.00- 130.00 | 100.00 |
| 7.329 | 7.329 (0.454) | 137 | 270158 | | | 0.00- 30.00 | 31.86 |
| 7 Chloromethane | | | | | CAS #: 74-87-3 | | |
| 7.691 | 7.691 (0.477) | 50 | 243741 | 20.0000 | 19.344 | 70.00- 130.00 | 100.00 |
| 7.691 | 7.691 (0.477) | 52 | 81325 | | | 0.00- 30.00 | 33.37 |
| 9 Butane | | | | | CAS #: 106-97-8 | | |
| 8.404 | 8.404 (0.521) | 58 | 98149 | 20.0000 | 22.634 | 70.00- 130.00 | 100.00(A) |
| 8.404 | 8.404 (0.521) | 43 | 520525 | | | 0.00- 30.00 | 530.34 |
| 10 Vinyl Chloride | | | | | CAS #: 75-01-4 | | |
| 8.543 | 8.543 (0.530) | 62 | 396643 | 20.0000 | 19.944 | 70.00- 130.00 | 100.00 |
| 8.543 | 8.543 (0.530) | 64 | 127495 | | | 2.55- 62.55 | 32.14 |
| 11 1,3-Butadiene | | | | | CAS #: 106-99-0 | | |
| 8.786 | 8.786 (0.545) | 54 | 258357 | 20.0000 | 20.669 | 70.00- 130.00 | 100.00(A) |
| 8.786 | 8.786 (0.545) | 39 | 233980 | | | 0.00- 30.00 | 90.56 |
| 12 Bromomethane | | | | | CAS #: 74-83-9 | | |
| 10.251 | 10.251 (0.636) | 94 | 389990 | 20.0000 | 17.736 | 70.00- 130.00 | 100.00 |
| 10.251 | 10.251 (0.636) | 96 | 411657 | | | 65.25- 125.25 | 105.56 |
| 13 Chloroethane | | | | | CAS #: 75-00-3 | | |
| 10.728 | 10.728 (0.665) | 64 | 189945 | 20.0000 | 17.925 | 70.00- 130.00 | 100.00 |
| 10.728 | 10.728 (0.665) | 49 | 42567 | | | 0.00- 30.00 | 22.41 |

| RT | EXP RT (REL RT) | MASS | RESPONSE | AMOUNTS CAL-AMT ( PPBV) | AMOUNTS ON-COL ( PPBV) | TARGET RANGE | RATIO |
|---|---|---|---|---|---|---|---|
| 13 Chloroethane (continued) | | | | | | | |
| 10.728 | 10.728 (0.665) | 66 | 64338 | | | 0.00- 30.00 | 33.87 |
| 14 Isopentane | | | | | CAS #: 78-78-4 | | |
| 10.852 | 10.852 (0.673) | 57 | 272973 | 20.0000 | 20.395 | 70.00- 130.00 | 100.00(A) |
| 10.852 | 10.852 (0.673) | 43 | 308202 | | | 0.00- 30.00 | 112.91 |
| 10.852 | 10.852 (0.673) | 42 | 259605 | | | 0.00- 30.00 | 95.10 |
| 16 Trichlorofluoromethane/Fr11 | | | | | CAS #: 75-69-4 | | |
| 11.474 | 11.474 (0.711) | 101 | 1639184 | 20.0000 | 18.232 | 70.00- 130.00 | 100.00 |
| 11.474 | 11.474 (0.711) | 103 | 1064693 | | | 36.02- 96.02 | 64.95 |
| 18 Ethanol | | | | | CAS #: 64-17-5 | | |
| 12.324 | 12.324 (0.764) | 45 | 98604 | 20.0000 | 21.007 | 70.00- 130.00 | 100.00(A) |
| 12.344 | 12.344 (0.765) | 46 | 38957 | | | 0.00- 30.00 | 39.51 |
| 12.324 | 12.324 (0.764) | 43 | 26154 | | | 0.00- 30.00 | 26.52 |
| 19 Freon 113 | | | | | CAS #: 76-13-1 | | |
| 12.800 | 12.800 (0.794) | 151 | 711080 | 20.0000 | 18.703 | 70.00- 130.00 | 100.00 |
| 12.800 | 12.800 (0.794) | 153 | 459057 | | | 34.27- 94.27 | 64.56 |
| 12.800 | 12.800 (0.794) | 101 | 982135 | | | 0.00- 30.00 | 138.12 |
| 21 1,1-Dichloroethene | | | | | CAS #: 75-35-4 | | |
| 12.821 | 12.821 (0.795) | 98 | 260803 | 20.0000 | 20.172 | 70.00- 130.00 | 100.00(A) |
| 12.821 | 12.821 (0.795) | 61 | 658743 | | | 0.00- 30.00 | 252.58 |
| 12.821 | 12.821 (0.795) | 96 | 408688 | | | 0.00- 30.00 | 156.70 |
| 22 Acetone | | | | | CAS #: 67-64-1 | | |
| 13.070 | 13.070 (0.810) | 58 | 168500 | 20.0000 | 20.436 | 70.00- 130.00 | 100.00(A) |
| 13.070 | 13.070 (0.810) | 43 | 531013 | | | 0.00- 30.00 | 315.14 |
| 25 2-Propanol | | | | | CAS #: 67-63-0 | | |
| 13.381 | 13.381 (0.830) | 45 | 494419 | 20.0000 | 22.181 | 70.00- 130.00 | 100.00(A) |
| 13.381 | 13.381 (0.830) | 43 | 122107 | | | 0.00- 30.00 | 24.70 |
| 13.381 | 13.381 (0.830) | 59 | 23553 | | | 0.00- 30.00 | 4.76 |
| 23 Carbon Disulfide | | | | | CAS #: 75-15-0 | | |
| 13.194 | 13.194 (0.818) | 76 | 1036787 | 20.0000 | 19.111 | 70.00- 130.00 | 100.00 |
| 26 3-Chloroprene | | | | | CAS #: 107-05-1 | | |
| 13.588 | 13.588 (0.843) | 76 | 171774 | 20.0000 | 21.467 | 70.00- 130.00 | 100.00(A) |
| 13.588 | 13.588 (0.843) | 41 | 280913 | | | 0.00- 30.00 | 163.54 |
| 29 Methylene Chloride | | | | | CAS #: 75-09-2 | | |
| 13.885 | 13.885 (0.861) | 84 | 178201 | 20.0000 | 17.509 | 70.00- 130.00 | 100.00 |
| 13.885 | 13.885 (0.861) | 49 | 141990 | | | 0.00- 30.00 | 79.68 |

| RT | EXP RT (REL RT) | MASS | RESPONSE | AMOUNTS CAL-AMT ( PPBV) | ON-COL ( PPBV) | TARGET RANGE | RATIO |
|---|---|---|---|---|---|---|---|
| 29 Methylene Chloride (continued) | | | | | | | |
| 13.885 | 13.885 (0.861) | 51 | 45229 | | | 0.00- 30.00 | 25.38 |
| 30 tert-butyl alcohol | | | | | CAS #: 75-65-0 | | |
| 14.022 | 14.022 (0.869) | 59 | 472094 | 20.0000 | 22.337 | 70.00- 130.00 | 100.00(A) |
| 14.022 | 14.022 (0.869) | 41 | 98762 | | | 0.00- 30.00 | 20.92 |
| 14.022 | 14.022 (0.869) | 57 | 51115 | | | 0.00- 30.00 | 10.83 |
| 31 MTBE | | | | | CAS #: 1634-04-4 | | |
| 14.187 | 14.187 (0.880) | 73 | 1416825 | 20.0000 | 21.611 | 70.00- 130.00 | 100.00(A) |
| 14.187 | 14.187 (0.880) | 57 | 231400 | | | 0.00- 30.00 | 16.33 |
| 14.187 | 14.187 (0.880) | 41 | 205970 | | | 0.00- 30.00 | 14.54 |
| 32 trans-1,2-Dichloroethene | | | | | CAS #: 156-60-5 | | |
| 14.242 | 14.242 (0.883) | 98 | 272256 | 20.0000 | 19.658 | 70.00- 130.00 | 100.00 |
| 14.242 | 14.242 (0.883) | 61 | 565587 | | | 0.00- 30.00 | 207.74 |
| 14.242 | 14.242 (0.883) | 96 | 424870 | | | 0.00- 30.00 | 156.06 |
| 35 Hexane | | | | | CAS #: 110-54-3 | | |
| 14.544 | 14.544 (0.902) | 57 | 516810 | 20.0000 | 21.741 | 70.00- 130.00 | 100.00(A) |
| 14.544 | 14.544 (0.902) | 43 | 264893 | | | 0.00- 30.00 | 51.26 |
| 14.544 | 14.544 (0.902) | 86 | 127752 | | | 0.00- 30.00 | 24.72 |
| 36 Isopropyl ether | | | | | CAS #: 108-20-3 | | |
| 14.873 | 14.873 (0.922) | 45 | 562487 | 20.0000 | 21.820 | 70.00- 130.00 | 100.00(A) |
| 14.873 | 14.873 (0.922) | 87 | 260118 | | | 0.00- 30.00 | 46.24 |
| 14.873 | 14.873 (0.922) | 59 | 85466 | | | 0.00- 30.00 | 15.19 |
| 37 1,1-Dichloroethane | | | | | CAS #: 75-34-3 | | |
| 14.956 | 14.956 (0.927) | 63 | 768775 | 20.0000 | 19.638 | 70.00- 130.00 | 100.00 |
| 14.956 | 14.956 (0.927) | 65 | 246674 | | | 0.00- 30.00 | 32.09 |
| 38 Vinyl Acetate | | | | | CAS #: 108-05-4 | | |
| 14.956 | 14.956 (0.927) | 86 | 127045 | 20.0000 | 21.967 | 70.00- 130.00 | 100.00(A) |
| 14.956 | 14.956 (0.927) | 42 | 88438 | | | 0.00- 30.00 | 69.61 |
| 14.956 | 14.956 (0.927) | 43 | 846639 | | | 0.00- 30.00 | 666.41 |
| 40 Ethyl-tert-butyl ether | | | | | CAS #: 637-92-3 | | |
| 15.368 | 15.368 (0.953) | 59 | 778362 | 20.0000 | 21.681 | 70.00- 130.00 | 100.00(A) |
| 15.368 | 15.368 (0.953) | 87 | 396866 | | | 0.00- 30.00 | 50.99 |
| 15.368 | 15.368 (0.953) | 41 | 126971 | | | 0.00- 30.00 | 16.31 |
| 42 2-Butanone | | | | | CAS #: 78-93-3 | | |
| 15.766 | 15.766 (0.978) | 72 | 325230 | 20.0000 | 21.758 | 70.00- 130.00 | 100.00(A) |
| 15.766 | 15.766 (0.978) | 43 | 822164 | | | 0.00- 30.00 | 252.79 |
| 15.766 | 15.766 (0.978) | 57 | 79633 | | | 0.00- 30.00 | 24.49 |

| RT | EXP RT (REL RT) | MASS | RESPONSE | AMOUNTS CAL-AMT ( PPBV) | ON-COL ( PPBV) | TARGET RANGE | RATIO |
|---|---|---|---|---|---|---|---|
| 41 cis-1,2-Dichloroethene | | | | | CAS #: 156-59-2 | | |
| 15.787 | 15.787 (0.979) | 98 | 441463 | 20.0000 | 21.200 | 70.00- 130.00 | 100.00(A) |
| 15.787 | 15.787 (0.979) | 61 | 827413 | | | 0.00- 30.00 | 187.43 |
| 15.787 | 15.787 (0.979) | 96 | 684504 | | | 124.52- 184.52 | 155.05 |
| 44 Tetrahydrofuran | | | | | CAS #: 109-99-9 | | |
| 16.127 | 16.127 (1.000) | 42 | 316443 | 20.0000 | 21.236 | 70.00- 130.00 | 100.00(A) |
| 16.127 | 16.127 (1.000) | 71 | 208473 | | | 0.00- 30.00 | 65.88 |
| 16.127 | 16.127 (1.000) | 72 | 231214 | | | 0.00- 30.00 | 73.07 |
| 47 Chloroform | | | | | CAS #: 67-66-3 | | |
| 16.189 | 16.189 (1.004) | 83 | 1147855 | 20.0000 | 19.155 | 70.00- 130.00 | 100.00 |
| 16.189 | 16.189 (1.004) | 85 | 731924 | | | 0.00- 30.00 | 63.76 |
| 49 1,1,1-Trichloroethane | | | | | CAS #: 71-55-6 | | |
| 16.466 | 16.466 (1.021) | 97 | 1324995 | 20.0000 | 19.350 | 70.00- 130.00 | 100.00 |
| 16.466 | 16.466 (1.021) | 99 | 850528 | | | 0.00- 30.00 | 64.19 |
| 48 Cyclohexane | | | | | CAS #: 110-82-7 | | |
| 16.466 | 16.466 (1.021) | 84 | 671516 | 20.0000 | 20.987 | 70.00- 130.00 | 100.00(A) |
| 16.466 | 16.466 (1.021) | 56 | 546801 | | | 0.00- 30.00 | 81.43 |
| 16.466 | 16.466 (1.021) | 41 | 281054 | | | 0.00- 30.00 | 41.85 |
| 51 Carbon Tetrachloride | | | | | CAS #: 56-23-5 | | |
| 16.651 | 16.651 (1.032) | 119 | 1296053 | 20.0000 | 25.296 | 70.00- 130.00 | 100.00(A) |
| 16.651 | 16.651 (1.032) | 117 | 1333245 | | | 0.00- 30.00 | 102.87 |
| 52 2,2,4-Trimethylpentane | | | | | CAS #: 540-84-1 | | |
| 16.925 | 16.925 (1.049) | 56 | 725629 | 20.0000 | 19.797 | 70.00- 130.00 | 100.00 |
| 16.925 | 16.925 (1.049) | 57 | 2299879 | | | 0.00- 30.00 | 316.95 |
| 16.925 | 16.925 (1.049) | 41 | 669670 | | | 0.00- 30.00 | 92.29 |
| 53 Benzene | | | | | CAS #: 71-43-2 | | |
| 17.013 | 17.013 (0.967) | 78 | 1384944 | 20.0000 | 18.797 | 70.00- 130.00 | 100.00 |
| 17.013 | 17.013 (0.967) | 77 | 324688 | | | 0.00- 30.00 | 23.44 |
| 55 tert-amyl methyl ether | | | | | CAS #: 994-05-8 | | |
| 17.042 | 17.042 (0.969) | 87 | 231806 | 20.0000 | 21.346 | 70.00- 130.00 | 100.00(A) |
| 17.042 | 17.042 (0.969) | 73 | 903302 | | | 0.00- 30.00 | 389.68 |
| 17.042 | 17.042 (0.969) | 55 | 205279 | | | 0.00- 30.00 | 88.56 |
| 56 1,2-Dichloroethane | | | | | CAS #: 107-06-2 | | |
| 17.129 | 17.129 (0.974) | 62 | 766949 | 20.0000 | 18.460 | 70.00- 130.00 | 100.00 |
| 17.129 | 17.129 (0.974) | 64 | 250036 | | | 0.00- 30.00 | 32.60 |
| 57 Heptane | | | | | CAS #: 142-82-5 | | |
| 17.158 | 17.158 (0.976) | 57 | 330090 | 20.0000 | 21.675 | 70.00- 130.00 | 100.00(A) |

| RT | EXP RT (REL RT) | MASS | RESPONSE | AMOUNTS CAL-AMT ( PPBV) | ON-COL ( PPBV) | TARGET RANGE | RATIO |
|---|---|---|---|---|---|---|---|
| 57 Heptane (continued) | | | | | | | |
| 17.158 | 17.158 (0.976) | 100 | 200510 | | | 0.00- 30.00 | 60.74 |
| 17.158 | 17.158 (0.976) | 43 | 501371 | | | 0.00- 30.00 | 151.89 |
| 59 Trichloroethene | | | | | CAS #: 79-01-6 | | |
| 18.025 | 18.025 (1.025) | 130 | 623210 | 20.0000 | 19.152 | 70.00- 130.00 | 100.00 |
| 18.025 | 18.025 (1.025) | 95 | 698392 | | | 0.00- 30.00 | 112.06 |
| 18.025 | 18.025 (1.025) | 97 | 458874 | | | 0.00- 30.00 | 73.63 |
| 60 Methylcyclohexane | | | | | CAS #: 108-87-2 | | |
| 18.272 | 18.272 (1.039) | 83 | 885145 | 20.0000 | 21.057 | 70.00- 130.00 | 100.00(A) |
| 18.272 | 18.272 (1.039) | 55 | 542855 | | | 0.00- 30.00 | 61.33 |
| 18.272 | 18.272 (1.039) | 56 | 163098 | | | 0.00- 30.00 | 18.43 |
| 61 1,2-Dichloropropane | | | | | CAS #: 78-87-5 | | |
| 18.519 | 18.519 (1.053) | 63 | 443452 | 20.0000 | 19.576 | 70.00- 130.00 | 100.00 |
| 18.519 | 18.519 (1.053) | 62 | 309669 | | | 0.00- 30.00 | 69.83 |
| 18.519 | 18.519 (1.053) | 41 | 253496 | | | 29.06- 89.06 | 57.16 |
| 62 1,4-Dioxane | | | | | CAS #: 123-91-1 | | |
| 18.629 | 18.629 (1.059) | 88 | 356187 | 20.0000 | 22.048 | 70.00- 130.00 | 100.00(A) |
| 18.629 | 18.629 (1.059) | 58 | 203302 | | | 0.00- 30.00 | 57.08 |
| 18.629 | 18.629 (1.059) | 57 | 66232 | | | 0.00- 30.00 | 18.59 |
| 63 Bromodichloromethane | | | | | CAS #: 75-27-4 | | |
| 18.958 | 18.958 (1.078) | 83 | 1265294 | 20.0000 | 19.995 | 70.00- 130.00 | 100.00 |
| 18.958 | 18.958 (1.078) | 85 | 795610 | | | 0.00- 30.00 | 62.88 |
| 64 cis-1,3-Dichloropropene | | | | | CAS #: 10061-01-5 | | |
| 19.864 | 19.864 (1.130) | 75 | 835997 | 20.0000 | 21.325 | 70.00- 130.00 | 100.00(A) |
| 19.864 | 19.864 (1.130) | 77 | 262312 | | | 0.00- 30.00 | 31.38 |
| 19.864 | 19.864 (1.130) | 39 | 330008 | | | 10.38- 70.38 | 39.47 |
| 65 4-Methyl-2-pentanone | | | | | CAS #: 108-10-1 | | |
| 20.076 | 20.076 (1.142) | 43 | 719022 | 20.0000 | 24.557 | 70.00- 130.00 | 100.00(A) |
| 20.076 | 20.076 (1.142) | 58 | 345155 | | | 0.00- 30.00 | 48.00 |
| 20.076 | 20.076 (1.142) | 85 | 208785 | | | 0.00- 30.00 | 29.04 |
| 68 Toluene | | | | | CAS #: 108-88-3 | | |
| 20.524 | 20.524 (1.167) | 91 | 1692178 | 20.0000 | 19.246 | 70.00- 130.00 | 100.00 |
| 20.524 | 20.524 (1.167) | 92 | 1005074 | | | 0.00- 30.00 | 59.40 |
| 69 trans-1,3-Dichloropropene | | | | | CAS #: 10061-02-6 | | |
| 20.995 | 20.995 (0.916) | 75 | 1242620 | 20.0000 | 23.832 | 70.00- 130.00 | 100.00(A) |
| 20.995 | 20.995 (0.916) | 77 | 387606 | | | 0.00- 30.00 | 31.19 |
| 20.995 | 20.995 (0.916) | 39 | 325558 | | | 4.84- 64.84 | 26.20 |

| RT | EXP RT (REL RT) | MASS | RESPONSE | AMOUNTS CAL-AMT ( PPBV) | ON-COL ( PPBV) | TARGET RANGE | RATIO |
|---|---|---|---|---|---|---|---|
| 70 1,1,2-Trichloroethane | | | | | CAS #: 79-00-5 | | |
| 21.335 | 21.335 (0.931) | 97 | 613887 | 20.0000 | 19.542 | 70.00- 130.00 | 100.00 |
| 21.335 | 21.335 (0.931) | 99 | 387797 | | | 0.00- 30.00 | 63.17 |
| 21.335 | 21.335 (0.931) | 83 | 520108 | | | 52.76- 112.76 | 84.72 |
| 71 Tetrachloroethene | | | | | CAS #: 127-18-4 | | |
| 21.497 | 21.497 (0.938) | 166 | 710292 | 20.0000 | 19.480 | 70.00- 130.00 | 100.00 |
| 21.497 | 21.497 (0.938) | 129 | 620078 | | | 0.00- 30.00 | 87.30 |
| 21.497 | 21.497 (0.938) | 131 | 595909 | | | 0.00- 30.00 | 83.90 |
| 72 2-Hexanone | | | | | CAS #: 591-78-6 | | |
| 21.660 | 21.660 (0.945) | 58 | 465931 | 20.0000 | 23.436 | 70.00- 130.00 | 100.00(A) |
| 21.660 | 21.660 (0.945) | 43 | 717397 | | | 0.00- 30.00 | 153.97 |
| 21.660 | 21.660 (0.945) | 100 | 133346 | | | 0.00- 30.00 | 28.62 |
| 73 Dibromochloromethane | | | | | CAS #: 124-48-1 | | |
| 22.017 | 22.017 (0.960) | 129 | 1198410 | 20.0000 | 22.422 | 70.00- 130.00 | 100.00(A) |
| 22.017 | 22.017 (0.960) | 127 | 925647 | | | 0.00- 30.00 | 77.24 |
| 74 1,2-Dibromoethane | | | | | CAS #: 106-93-4 | | |
| 22.278 | 22.278 (0.972) | 107 | 1005032 | 20.0000 | 20.859 | 70.00- 130.00 | 100.00(A) |
| 22.278 | 22.278 (0.972) | 109 | 899780 | | | 0.00- 30.00 | 89.53 |
| 76 Chlorobenzene | | | | | CAS #: 108-90-7 | | |
| 22.951 | 22.951 (1.001) | 112 | 1306167 | 20.0000 | 18.850 | 70.00- 130.00 | 100.00 |
| 22.951 | 22.951 (1.001) | 114 | 422280 | | | 0.00- 30.00 | 32.33 |
| 22.951 | 22.951 (1.001) | 77 | 853149 | | | 36.24- 96.24 | 65.32 |
| 77 Ethyl Benzene | | | | | CAS #: 100-41-4 | | |
| 23.023 | 23.023 (1.004) | 106 | 679458 | 20.0000 | 20.070 | 70.00- 130.00 | 100.00(A) |
| 23.023 | 23.023 (1.004) | 91 | 2346830 | | | 0.00- 30.00 | 345.40 |
| 80 m,p-Xylene | | | | | CAS #: 108-38-3 | | |
| 23.192 | 23.192 (1.012) | 106 | 853478 | 20.0000 | 20.952 | 70.00- 130.00 | 100.00(A) |
| 23.192 | 23.192 (1.012) | 91 | 1901622 | | | 0.00- 30.00 | 222.81 |
| 81 o-Xylene | | | | | CAS #: 95-47-6 | | |
| 23.770 | 23.770 (1.037) | 106 | 834573 | 20.0000 | 21.311 | 70.00- 130.00 | 100.00(A) |
| 23.770 | 23.770 (1.037) | 91 | 1985567 | | | 0.00- 30.00 | 237.91 |
| 83 Styrene | | | | | CAS #: 100-42-5 | | |
| 23.818 | 23.818 (1.039) | 104 | 1300460 | 20.0000 | 21.999 | 70.00- 130.00 | 100.00(A) |
| 23.794 | 23.794 (1.038) | 78 | 769354 | | | 0.00- 30.00 | 59.16 |
| 84 Bromoform | | | | | CAS #: 75-25-2 | | |
| 24.131 | 24.131 (1.053) | 173 | 1073434 | 20.0000 | 23.230 | 70.00- 130.00 | 100.00(A) |

| RT | EXP RT (REL RT) | MASS | RESPONSE | AMOUNTS CAL-AMT ( PPBV) | ON-COL ( PPBV) | TARGET RANGE | RATIO |
|---|---|---|---|---|---|---|---|
| 84 Bromoform (continued) | | | | | | | |
| 24.131 | 24.131 (1.053) | 171 | 554254 | | | 0.00- 30.00 | 51.63 |
| 85 Cumene | | | | | CAS #: 98-82-8 | | |
| 24.228 | 24.228 (1.057) | 105 | 2684664 | 20.0000 | 21.173 | 70.00- 130.00 | 100.00(A) |
| 24.228 | 24.228 (1.057) | 120 | 642530 | | | 0.00- 30.00 | 23.93 |
| 89 1,1,2,2-Tetrachloroethane | | | | | CAS #: 79-34-5 | | |
| 24.680 | 24.680 (1.076) | 83 | 1243177 | 20.0000 | 18.971 | 70.00- 130.00 | 100.00 |
| 24.680 | 24.680 (1.076) | 85 | 783757 | | | 0.00- 30.00 | 63.04 |
| 90 Propylbenzene | | | | | CAS #: 103-65-1 | | |
| 24.757 | 24.757 (1.080) | 91 | 3379053 | 20.0000 | 20.805 | 70.00- 130.00 | 100.00(A) |
| 24.757 | 24.757 (1.080) | 120 | 686465 | | | 0.00- 30.00 | 20.32 |
| 92 4-Ethyltoluene | | | | | CAS #: 622-96-8 | | |
| 24.886 | 24.886 (1.085) | 105 | 2951854 | 20.0000 | 21.166 | 70.00- 130.00 | 100.00(A) |
| 24.886 | 24.886 (1.085) | 120 | 790606 | | | 0.00- 30.00 | 26.78 |
| 94 1,3,5-Trimethylbenzene | | | | | CAS #: 108-67-8 | | |
| 24.964 | 24.964 (1.089) | 105 | 2542075 | 20.0000 | 21.177 | 70.00- 130.00 | 100.00(A) |
| 24.964 | 24.964 (1.089) | 120 | 1091561 | | | 0.00- 30.00 | 42.94 |
| 98 1,2,4-Trimethylbenzene | | | | | CAS #: 95-63-6 | | |
| 25.410 | 25.410 (1.108) | 105 | 2360881 | 20.0000 | 22.341 | 70.00- 130.00 | 100.00(A) |
| 25.410 | 25.410 (1.108) | 120 | 955748 | | | 0.00- 30.00 | 40.48 |
| 101 1,3-Dichlorobenzene | | | | | CAS #: 541-73-1 | | |
| 25.791 | 25.791 (1.125) | 146 | 1336093 | 20.0000 | 19.946 | 70.00- 130.00 | 100.00 |
| 25.791 | 25.791 (1.125) | 148 | 847776 | | | 0.00- 30.00 | 63.45 |
| 25.791 | 25.791 (1.125) | 111 | 636763 | | | 0.00- 30.00 | 47.66 |
| 104 1,4-Dichlorobenzene | | | | | CAS #: 106-46-7 | | |
| 25.903 | 25.903 (1.130) | 146 | 1319447 | 20.0000 | 19.686 | 70.00- 130.00 | 100.00 |
| 25.903 | 25.903 (1.130) | 148 | 841488 | | | 0.00- 30.00 | 63.78 |
| 25.903 | 25.903 (1.130) | 111 | 615041 | | | 0.00- 30.00 | 46.61 |
| 105 alpha-chlorotoluene | | | | | CAS #: 100-44-7 | | |
| 26.060 | 26.060 (1.137) | 91 | 2222687 | 20.0000 | 21.772 | 70.00- 130.00 | 100.00(A) |
| 26.060 | 26.060 (1.137) | 126 | 382990 | | | 0.00- 30.00 | 17.23 |
| 108 1,2-Dichlorobenzene | | | | | CAS #: 95-50-1 | | |
| 26.352 | 26.352 (1.149) | 146 | 1243639 | 20.0000 | 19.569 | 70.00- 130.00 | 100.00 |
| 26.352 | 26.352 (1.149) | 148 | 785407 | | | 34.07- 94.07 | 63.15 |
| 26.352 | 26.352 (1.149) | 111 | 613743 | | | 19.87- 79.87 | 49.35 |

| RT | EXP RT (REL RT) | MASS | RESPONSE | AMOUNTS CAL-AMT ( PPBV) | ON-COL ( PPBV) | TARGET RANGE | RATIO |
|---|---|---|---|---|---|---|---|
| 112 1,2,4-Trichlorobenzene | | | | | CAS #: 120-82-1 | | |
| 28.145 | 28.145 (1.228) | 180 | 929501 | 20.0000 | 22.376 | 70.00- 130.00 | 100.00(A) |
| 28.145 | 28.145 (1.228) | 182 | 882341 | | | 0.00- 30.00 | 94.93 |
| 113 Hexachlorobutadiene | | | | | CAS #: 87-68-3 | | |
| 28.235 | 28.235 (1.232) | 225 | 755921 | 20.0000 | 20.367 | 70.00- 130.00 | 100.00(A) |
| 28.235 | 28.235 (1.232) | 223 | 481659 | | | 0.00- 30.00 | 63.72 |
| 114 Naphthalene | | | | | CAS #: 91-20-3 | | |
| 28.504 | 28.504 (1.243) | 128 | 211591 | 2.00000 | 2.392 | 70.00- 130.00 | 100.00 |
| 28.504 | 28.504 (1.243) | 127 | 27993 | | | 0.00- 30.00 | 13.23 |

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msde.i
Lab File ID: e030816.d
Lab Smp Id: ICAL
Analysis Type: VOA
Quant Type: ISTD
Operator: ea
Method File: /chem/msde.i/08Mar2012.b/e12l0308a.m
Misc Info: 20ppbv (50ppbv)

Calibration Date: 08-MAR-2012
Calibration Time: 22:56
Client Smp ID: Level 10
Level: LOW
Sample Type: AIR

| | | AREA LIMIT | | | |
|---|---|---|---|---|---|
| COMPOUND | STANDARD | LOWER | UPPER | SAMPLE | %DIFF |
| 46 Bromochloromethan | 73839 | 44303 | 103375 | 72955 | -1.20 |
| 58 1,4-Difluorobenze | 285440 | 171264 | 399616 | 287228 | 0.63 |
| 75 Chlorobenzene-d5 | 243451 | 146071 | 340831 | 243139 | -0.13 |

| | | RT LIMIT | | | |
|---|---|---|---|---|---|
| COMPOUND | STANDARD | LOWER | UPPER | SAMPLE | %DIFF |
| 46 Bromochloromethan | 16.13 | 15.80 | 16.46 | 16.13 | 0.00 |
| 58 1,4-Difluorobenze | 17.59 | 17.26 | 17.92 | 17.59 | 0.00 |
| 75 Chlorobenzene-d5 | 22.93 | 22.60 | 23.26 | 22.93 | 0.00 |

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Data File: /chem/msde.i/08Mar2012.b/e030816.d



Date : 08-MAR-2012 23:48

Client ID: Level 10

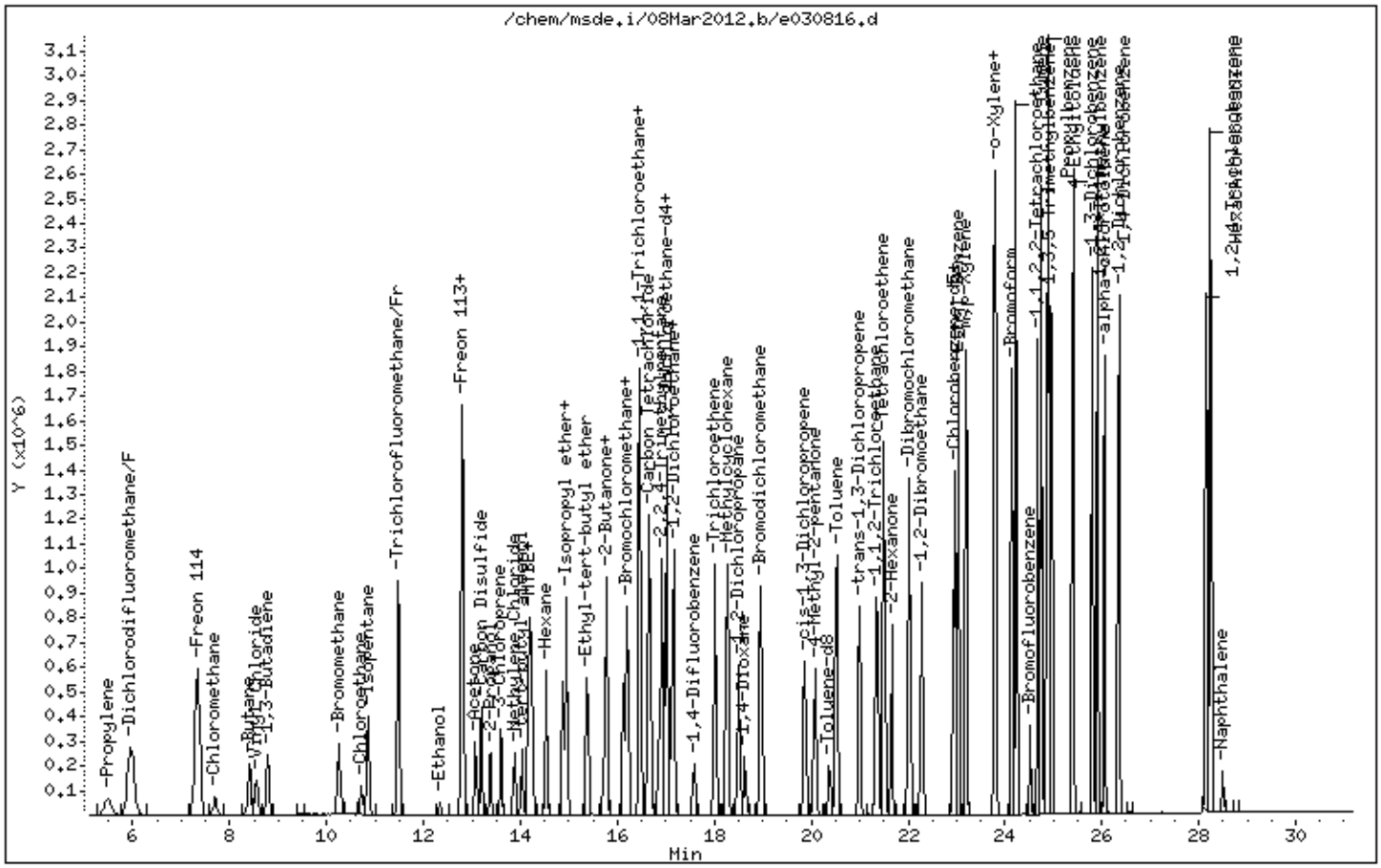
Instrument: msde.i

Sample Info: 100mL #2370-176

Operator: ea

Column phase: RTx-624

Column diameter: 0.32



Air Toxics Ltd.

EPA TO-15/Modified TO14A

Data file : /chem/msde.i/15Mar2012.b/e031522.d
Lab Smp Id: ICAL Client Smp ID: Level 11
Inj Date : 15-MAR-2012 23:05
Operator : sac Inst ID: msde.i
Smp Info : 62.5mL #2403-84
Misc Info : 0.5ppbv (5.0ppbv) -- AT2
Comment : Low-Level/GC-MS
Method : /chem/msde.i/15Mar2012.b/e12l0308c.m
Meth Date : 17-Mar-2012 10:10 croush Quant Type: ISTD
Cal Date : 15-MAR-2012 23:05 Cal File: e031522.d
Als bottle: 8 Calibration Sample, Level: 11
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AT2.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

| Name | Value | Description |
|---|---|---|
| DF | 1.00000 | Dilution Factor |

| RT | EXP RT (REL RT) | MASS | RESPONSE | AMOUNTS CAL-AMT ( PPBV) | AMOUNTS ON-COL ( PPBV) | TARGET RANGE | RATIO |
|---|---|---|---|---|---|---|---|
| * 46 Bromochloromethane | | | | | CAS #: 74-97-5 | | |
| 16.128 | 16.128 (1.000) | 130 | 63961 | 5.00000 | | 70.00- 130.00 | 100.00 |
| 16.128 | 16.128 (1.000) | 128 | 48348 | | | 0.00- 30.00 | 75.59 |
| 16.128 | 16.128 (1.000) | 49 | 56630 | | | 0.00- 30.00 | 88.54 |
| * 58 1,4-Difluorobenzene | | | | | CAS #: 540-36-3 | | |
| 17.586 | 17.586 (1.000) | 114 | 241843 | 5.00000 | | 70.00- 130.00 | 100.00 |
| 17.586 | 17.586 (1.000) | 88 | 42648 | | | 0.00- 30.00 | 17.63 |
| * 75 Chlorobenzene-d5 | | | | | CAS #: 3114-55-4 | | |
| 22.927 | 22.927 (1.000) | 117 | 211468 | 5.00000 | | 70.00- 130.00 | 100.00 |
| 22.903 | 22.903 (1.000) | 82 | 138059 | | | 0.00- 30.00 | 65.29 |
| 190 1-Pentene | | | | | CAS #: 109-67-1 | | |
| 11.536 | 11.536 (0.715) | 55 | 16292 | 1.25000 | 1.262 | 70.00- 130.00 | 100.00 |
| 11.536 | 11.536 (0.715) | 42 | 15267 | | | 0.00- 30.00 | 93.71 |

| RT | EXP RT (REL RT) | MASS | RESPONSE | AMOUNTS CAL-AMT ( PPBV) | ON-COL ( PPBV) | TARGET RANGE | RATIO |
|---|---|---|---|---|---|---|---|
| 27 Methyl Acetate | | | | | CAS #: 79-20-9 | | |
| 13.630 | 13.630 (0.845) | 43 | 28281 | 1.25000 | 1.252 | 70.00- 130.00 | 100.00 |
| 13.630 | 13.630 (0.845) | 74 | 10138 | | | 0.00- 30.00 | 35.85 |
| 13.630 | 13.630 (0.845) | 59 | 3689 | | | 0.00- 30.00 | 13.04 |
| 191 Cyclopentane | | | | | CAS #: 287-92-3 | | |
| 13.796 | 13.796 (0.855) | 70 | 20921 | 1.25000 | 1.228 | 70.00- 130.00 | 100.00 |
| 13.796 | 13.796 (0.855) | 55 | 18657 | | | 0.00- 30.00 | 89.18 |
| 28 Acetonitrile | | | | | CAS #: 75-05-8 | | |
| 13.713 | 13.713 (0.850) | 41 | 12628 | 1.25000 | 1.290 | 70.00- 130.00 | 100.00 |
| 13.713 | 13.713 (0.850) | 40 | 7211 | | | 0.00- 30.00 | 57.10 |
| 13.713 | 13.713 (0.850) | 39 | 2342 | | | 0.00- 30.00 | 18.55 |
| 33 Acrylonitrile | | | | | CAS #: 107-13-1 | | |
| 14.352 | 14.352 (0.890) | 53 | 13123 | 1.25000 | 1.214 | 70.00- 130.00 | 100.00(M) |
| 14.352 | 14.352 (0.890) | 52 | 10429 | | | 0.00- 30.00 | 79.47 |
| 192 1-Hexene | | | | | CAS #: 592-41-6 | | |
| 14.434 | 14.434 (0.895) | 55 | 12395 | 1.25000 | 1.192 | 70.00- 130.00 | 100.00 |
| 14.434 | 14.434 (0.895) | 41 | 16126 | | | 0.00- 30.00 | 130.10 |
| 14.434 | 14.434 (0.895) | 84 | 7555 | | | 0.00- 30.00 | 60.95 |
| 39 Chlorprene | | | | | CAS #: 126-99-8 | | |
| 15.011 | 15.011 (0.931) | 53 | 26735 | 1.25000 | 1.204 | 70.00- 130.00 | 100.00 |
| 15.011 | 15.011 (0.931) | 88 | 16236 | | | 0.00- 30.00 | 60.73 |
| 193 Methyl Acrylate | | | | | CAS #: 96-33-3 | | |
| 15.849 | 15.849 (0.983) | 55 | 41506 | 1.25000 | 1.169 | 70.00- 130.00 | 100.00 |
| 15.849 | 15.849 (0.983) | 85 | 7083 | | | 0.00- 30.00 | 17.07 |
| 15.849 | 15.849 (0.983) | 58 | 3133 | | | 0.00- 30.00 | 7.55 |
| 194 Ethyl Acrylate | | | | | CAS #: 140-88-5 | | |
| 18.052 | 18.052 (1.119) | 99 | 4044 | 1.25000 | 1.199 | 70.00- 130.00 | 100.00 |
| 18.052 | 18.052 (1.119) | 45 | 2975 | | | 0.00- 30.00 | 73.57 |
| 18.052 | 18.052 (1.119) | 55 | 36927 | | | 0.00- 30.00 | 913.13 |
| 95 Dibromomethane | | | | | CAS #: 74-95-3 | | |
| 18.739 | 18.739 (1.066) | 174 | 33839 | 1.25000 | 1.280 | 70.00- 130.00 | 100.00 |
| 18.739 | 18.739 (1.066) | 93 | 42131 | | | 0.00- 30.00 | 124.50 |
| 18.739 | 18.739 (1.066) | 95 | 32854 | | | 0.00- 30.00 | 97.09 |
| 195 trans-1,4-dichloro-2-butene | | | | | CAS #: 110-57-6 | | |
| 24.758 | 24.758 (1.080) | 89 | 16853 | 1.25000 | 1.213 | 70.00- 130.00 | 100.00 |
| 24.758 | 24.758 (1.080) | 75 | 28079 | | | 0.00- 30.00 | 166.61 |
| 24.758 | 24.758 (1.080) | 53 | 21779 | | | 0.00- 30.00 | 129.23 |

| RT | EXP RT (REL RT) | MASS | RESPONSE | AMOUNTS CAL-AMT ( PPBV) | ON-COL ( PPBV) | TARGET RANGE | RATIO |
|---|---|---|---|---|---|---|---|
| 109 Hexachloroethane | | | | | CAS #: 67-72-1 | | |
| 26.598 | 26.598 (1.160) | 201 | 33452 | 1.25000 | 1.287 | 70.00- 130.00 | 100.00 |
| 26.598 | 26.598 (1.160) | 117 | 48690 | | | 0.00- 30.00 | 145.55 |
| 26.598 | 26.598 (1.160) | 166 | 31130 | | | 0.00- 30.00 | 93.06 |
| 111 1,3,5-Trichlorobenzene | | | | | CAS #: 108-70-3 | | |
| 27.383 | 27.383 (1.194) | 180 | 49157 | 1.25000 | 1.307 | 70.00- 130.00 | 100.00 |
| 27.383 | 27.383 (1.194) | 182 | 46991 | | | 0.00- 30.00 | 95.59 |

QC Flag Legend

M - Compound response manually integrated.

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msde.i
Lab File ID: e031522.d
Lab Smp Id: ICAL
Analysis Type: VOA
Quant Type: ISTD
Operator: sac
Method File: /chem/msde.i/15Mar2012.b/e12l0308c.m
Misc Info: 0.5ppbv (5.0ppbv) -- AT2

Calibration Date: 15-MAR-2012
Calibration Time: 07:46
Client Smp ID: Level 11
Level: LOW
Sample Type: AIR

| | | AREA LIMIT | | | |
|---|---|---|---|---|---|
| COMPOUND | STANDARD | LOWER | UPPER | SAMPLE | %DIFF |
| 46 Bromochloromethan | 74222 | 44533 | 103911 | 63961 | -13.82 |
| 58 1,4-Difluorobenze | 274748 | 164849 | 384647 | 241843 | -11.98 |
| 75 Chlorobenzene-d5 | 232389 | 139433 | 325345 | 211468 | -9.00 |

| | | RT LIMIT | | | |
|---|---|---|---|---|---|
| COMPOUND | STANDARD | LOWER | UPPER | SAMPLE | %DIFF |
| 46 Bromochloromethan | 16.13 | 15.80 | 16.46 | 16.13 | 0.00 |
| 58 1,4-Difluorobenze | 17.59 | 17.26 | 17.92 | 17.59 | 0.00 |
| 75 Chlorobenzene-d5 | 22.93 | 22.60 | 23.26 | 22.93 | 0.00 |

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Data File: /chem/msde.i/15Mar2012.b/e031522.d

Date : 15-MAR-2012 23:05

Client ID: Level 11

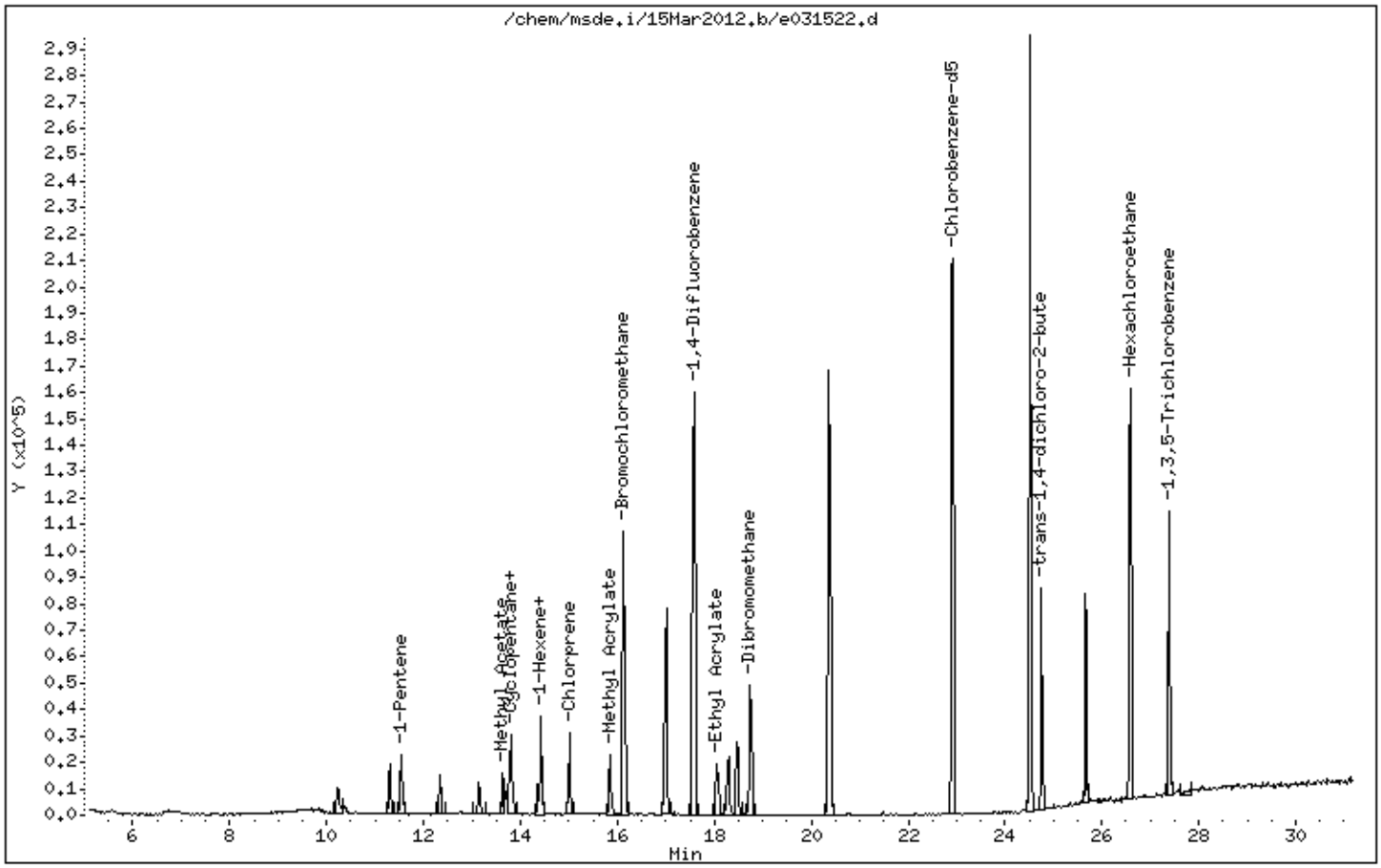
Instrument: msde.i

Sample Info: 62.5mL #2403-84

Operator: sac

Column phase: RTx-624

Column diameter: 0.32



Air Toxics Ltd.

EPA TO-15/Modified TO14A

Data file : /chem/msde.i/10Mar2012.b/e031013.d
Lab Smp Id: ICAL Client Smp ID: Level 11
Inj Date : 10-MAR-2012 18:30
Operator : LL Inst ID: msde.i
Smp Info : 125mL #2370-131
Misc Info : 1.0ppbv (5.0ppbv) -- TVH
Comment : Low-Level/GC-MS
Method : /chem/msde.i/10Mar2012.b/e12l0308b.m
Meth Date : 12-Mar-2012 07:12 croush Quant Type: ISTD
Cal Date : 10-MAR-2012 18:30 Cal File: e031013.d
Als bottle: 4 Calibration Sample, Level: 11
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: BP.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

| Name | Value | Description |
|---|---|---|
| DF | 1.00000 | Dilution Factor |

| RT | EXP RT (REL RT) | MASS | RESPONSE | AMOUNTS CAL-AMT ( PPBV) | AMOUNTS ON-COL ( PPBV) | TARGET RANGE | RATIO |
|---|---|---|---|---|---|---|---|
| * 46 Bromochloromethane | | | | | CAS #: 74-97-5 | | |
| 16.127 | 16.127 (1.000) | 130 | 47451 | 5.00000 | | 80.00- 120.00 | 100.00 |
| 16.127 | 16.127 (1.000) | 128 | 36991 | | | 0.00- 30.00 | 77.96 |
| 16.127 | 16.127 (1.000) | 49 | 46368 | | | 0.00- 30.00 | 97.72 |
| * 58 1,4-Difluorobenzene | | | | | CAS #: 540-36-3 | | |
| 17.585 | 17.585 (1.000) | 114 | 173946 | 5.00000 | | 80.00- 120.00 | 100.00 |
| 17.585 | 17.585 (1.000) | 88 | 31426 | | | 0.00- 30.00 | 18.07 |
| * 75 Chlorobenzene-d5 | | | | | CAS #: 3114-55-4 | | |
| 22.927 | 22.927 (1.000) | 117 | 149007 | 5.00000 | | 80.00- 120.00 | 100.00 |
| 22.927 | 22.927 (1.000) | 82 | 101787 | | | 0.00- 30.00 | 68.31 |
| 17 Pentane | | | | | CAS #: 109-66-0 | | |
| 11.681 | 11.681 (0.724) | 43 | 8740 | 1.00000 | 0.9633 | 80.00- 120.00 | 100.00 |
| 11.681 | 11.681 (0.724) | 57 | 1552 | | | 0.00- 47.76 | 17.76 |
| 11.702 | 11.702 (0.726) | 72 | 1776 | | | 0.00- 30.00 | 20.32 |

| RT | EXP RT (REL RT) | MASS | RESPONSE | AMOUNTS CAL-AMT ( PPBV) | ON-COL ( PPBV) | TARGET RANGE | RATIO |
|---|---|---|---|---|---|---|---|
| 66 Octane | | | | | CAS #: 111-65-9 | | |
| 20.412 | 20.412 (1.161) | 57 | 6567 | 1.00000 | 1.039 | 80.00- 120.00 | 100.00 |
| 20.412 | 20.412 (1.161) | 85 | 9926 | | | 0.00- 30.00 | 151.15 |
| 20.412 | 20.412 (1.161) | 43 | 12577 | | | 161.52- 221.52 | 191.52 |
| 78 Nonane | | | | | CAS #: 111-84-2 | | |
| 23.023 | 23.023 (1.004) | 43 | 11086 | 1.00000 | 1.006 | 80.00- 120.00 | 100.00 |
| 23.023 | 23.023 (1.004) | 57 | 12074 | | | 0.00- 30.00 | 108.91 |
| 23.023 | 23.023 (1.004) | 85 | 6360 | | | 0.00- 30.00 | 57.37 |
| 88 Decane | | | | | CAS #: 124-18-5 | | |
| 24.809 | 24.809 (1.082) | 57 | 15660 | 1.00000 | 1.043 | 80.00- 120.00 | 100.00(T) |
| 24.809 | 24.809 (1.082) | 71 | 7204 | | | 0.00- 30.00 | 46.00 |
| 0.000 | 1.000 (0.000) | 142 | 0 | | | 0.00- 30.00 | 0.00 |
| 188 Undecane | | | | | CAS #: 1120-21-4 | | |
| 26.150 | 26.150 (1.141) | 57 | 13096 | 1.00000 | 1.057 | 80.00- 120.00 | 100.00 |
| 26.150 | 26.150 (1.141) | 43 | 8804 | | | 0.00- 30.00 | 67.23 |
| 26.150 | 26.150 (1.141) | 85 | 5405 | | | 0.00- 30.00 | 41.27 |
| 189 Dodecane | | | | | CAS #: 112-40-3 | | |
| 27.293 | 27.293 (1.190) | 85 | 4079 | 1.00000 | 1.087 | 80.00- 120.00 | 100.00 |
| 27.293 | 27.293 (1.190) | 57 | 8777 | | | 0.00- 30.00 | 215.18 |
| 27.293 | 27.293 (1.190) | 43 | 6396 | | | 0.00- 30.00 | 156.80 |

QC Flag Legend

T - Target compound detected outside RT window.

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msde.i
Lab File ID: e031013.d
Lab Smp Id: ICAL
Analysis Type: VOA
Quant Type: ISTD
Operator: LL
Method File: /chem/msde.i/10Mar2012.b/e12l0308b.m
Misc Info: 1.0ppbv (5.0ppbv) -- TVH

Calibration Date: 10-MAR-2012
Calibration Time: 18:30
Client Smp ID: Level 11
Level: LOW
Sample Type: AIR

| | | AREA LIMIT | | | |
|---|---|---|---|---|---|
| COMPOUND | STANDARD | LOWER | UPPER | SAMPLE | %DIFF |
| 46 Bromochloromethan | 47451 | 28471 | 66431 | 47451 | 0.00 |
| 58 1,4-Difluorobenze | 173946 | 104368 | 243524 | 173946 | 0.00 |
| 75 Chlorobenzene-d5 | 149007 | 89404 | 208610 | 149007 | 0.00 |

| | | RT LIMIT | | | |
|---|---|---|---|---|---|
| COMPOUND | STANDARD | LOWER | UPPER | SAMPLE | %DIFF |
| 46 Bromochloromethan | 16.13 | 15.80 | 16.46 | 16.13 | 0.00 |
| 58 1,4-Difluorobenze | 17.59 | 17.26 | 17.92 | 17.59 | 0.00 |
| 75 Chlorobenzene-d5 | 22.93 | 22.60 | 23.26 | 22.93 | 0.00 |

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Data File: /chem/msde.i/10Mar2012.b/e031013.d



Date : 10-MAR-2012 18:30

Client ID: Level 11

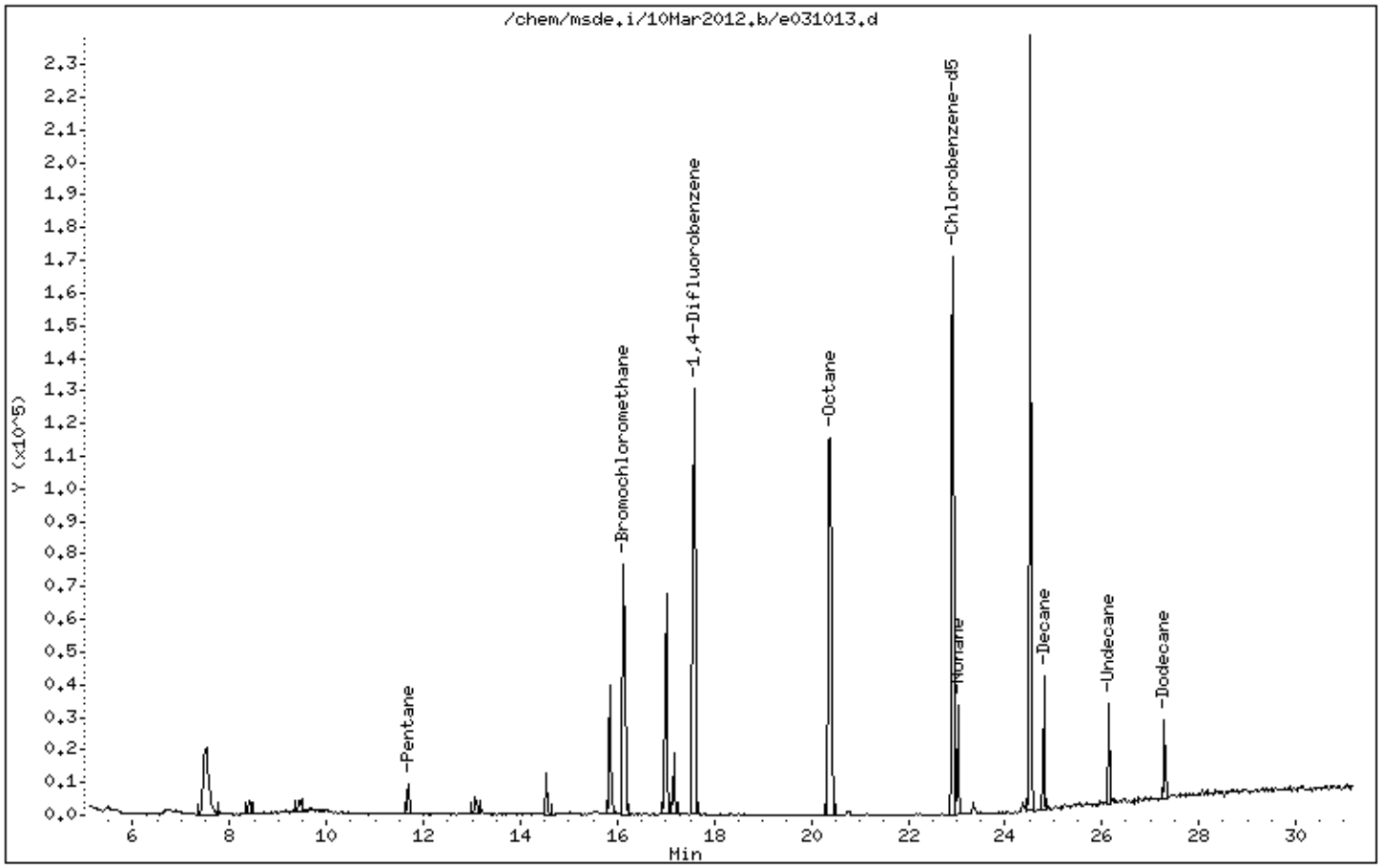
Instrument: msde.i

Sample Info: 125mL #2370-131

Operator: LL

Column phase: RTx-624

Column diameter: 0.32



Air Toxics Ltd.

EPA TO-15/Modified TO14A

Data file : /chem/msde.i/10Mar2012.b/e031010.d
Lab Smp Id: ICAL Client Smp ID: Level 11
Inj Date : 10-MAR-2012 16:18
Operator : LL Inst ID: msde.i
Smp Info : 75mL #2403-72
Misc Info : 1.5ppbv (5.0ppbv) -- AT3
Comment : Low-Level/GC-MS
Method : /chem/msde.i/10Mar2012.b/e12l0308b.m
Meth Date : 12-Mar-2012 07:09 croush Quant Type: ISTD
Cal Date : 10-MAR-2012 16:18 Cal File: e031010.d
Als bottle: 4 Calibration Sample, Level: 11
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AT3.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

| Name | Value | Description |
|---|---|---|
| DF | 1.00000 | Dilution Factor |

| RT | EXP RT (REL RT) | MASS | RESPONSE | AMOUNTS CAL-AMT ( PPBV) | AMOUNTS ON-COL ( PPBV) | TARGET RANGE | RATIO |
|---|---|---|---|---|---|---|---|
| * 46 Bromochloromethane | | | | | CAS #: 74-97-5 | | |
| 16.127 | 16.127 (1.000) | 130 | 46839 | 5.00000 | | 80.00- 120.00 | 100.00 |
| 16.127 | 16.127 (1.000) | 128 | 35920 | | | 0.00- 30.00 | 76.69 |
| 16.127 | 16.127 (1.000) | 49 | 46205 | | | 0.00- 30.00 | 98.65 |
| * 58 1,4-Difluorobenzene | | | | | CAS #: 540-36-3 | | |
| 17.586 | 17.586 (1.000) | 114 | 182691 | 5.00000 | | 80.00- 120.00 | 100.00 |
| 17.586 | 17.586 (1.000) | 88 | 32561 | | | 0.00- 30.00 | 17.82 |
| * 75 Chlorobenzene-d5 | | | | | CAS #: 3114-55-4 | | |
| 22.927 | 22.927 (1.000) | 117 | 151374 | 5.00000 | | 80.00- 120.00 | 100.00 |
| 22.927 | 22.927 (1.000) | 82 | 102155 | | | 0.00- 30.00 | 67.49 |
| 50 Thiophene | | | | | CAS #: 110-02-1 | | |
| 17.363 | 17.363 (0.987) | 84 | 41169 | 1.50000 | 1.393 | 80.00- 120.00 | 100.00(T) |
| 17.363 | 17.363 (0.987) | 58 | 20966 | | | 0.00- 30.00 | 50.93 |
| 0.000 | 1.000 (0.000) | 0 | 0 | | | 0.00- 30.00 | 0.00 |

| RT | EXP RT (REL RT) | MASS | RESPONSE | AMOUNTS CAL-AMT ( PPBV) | ON-COL ( PPBV) | TARGET RANGE | RATIO |
|---|---|---|---|---|---|---|---|
| 24 2-Methylpentane | | | | | CAS #: 107-83-5 | | |
| 13.692 | 13.692 (0.849) | 71 | 13502 | 1.50000 | 1.394 | 80.00- 120.00 | 100.00 |
| 13.692 | 13.692 (0.849) | 43 | 21505 | | | 0.00- 30.00 | 159.27 |
| 13.692 | 13.692 (0.849) | 42 | 11158 | | | 0.00- 30.00 | 82.64 |
| 45 2,3-Dimethylpentane | | | | | CAS #: 565-59-3 | | |
| 16.405 | 16.405 (1.017) | 71 | 13143 | 1.50000 | 1.464 | 80.00- 120.00 | 100.00 |
| 16.405 | 16.405 (1.017) | 56 | 27335 | | | 0.00- 30.00 | 207.98 |
| 16.405 | 16.405 (1.017) | 43 | 16243 | | | 0.00- 30.00 | 123.59 |
| 102 Indan | | | | | CAS #: 496-11-7 | | |
| 26.150 | 26.150 (1.141) | 117 | 65527 | 1.50000 | 1.412 | 80.00- 120.00 | 100.00 |
| 26.150 | 26.150 (1.141) | 118 | 37499 | | | 0.00- 30.00 | 57.23 |
| 26.150 | 26.150 (1.141) | 91 | 13093 | | | 0.00- 30.00 | 19.98 |
| 106 Indene | | | | | CAS #: 95-13-6 | | |
| 26.419 | 26.419 (1.152) | 115 | 35669 | 1.50000 | 1.410 | 80.00- 120.00 | 100.00(T) |
| 26.419 | 26.419 (1.152) | 116 | 33790 | | | 0.00- 30.00 | 94.73 |
| 0.000 | 1.000 (0.000) | 0 | 0 | | | 0.00- 30.00 | 0.00 |

QC Flag Legend

T - Target compound detected outside RT window.

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msde.i
Lab File ID: e031010.d
Lab Smp Id: ICAL
Analysis Type: VOA
Quant Type: ISTD
Operator: LL
Method File: /chem/msde.i/10Mar2012.b/e12l0308b.m
Misc Info: 1.5ppbv (5.0ppbv) -- AT3

Calibration Date: 10-MAR-2012
Calibration Time: 16:18
Client Smp ID: Level 11
Level: LOW
Sample Type: AIR

| | | AREA LIMIT | | | |
|---|---|---|---|---|---|
| COMPOUND | STANDARD | LOWER | UPPER | SAMPLE | %DIFF |
| 46 Bromochloromethan | 46839 | 28103 | 65575 | 46839 | 0.00 |
| 58 1,4-Difluorobenze | 182691 | 109615 | 255767 | 182691 | 0.00 |
| 75 Chlorobenzene-d5 | 151374 | 90824 | 211924 | 151374 | 0.00 |

| | | RT LIMIT | | | |
|---|---|---|---|---|---|
| COMPOUND | STANDARD | LOWER | UPPER | SAMPLE | %DIFF |
| 46 Bromochloromethan | 16.13 | 15.80 | 16.46 | 16.13 | 0.00 |
| 58 1,4-Difluorobenze | 17.59 | 17.26 | 17.92 | 17.59 | 0.00 |
| 75 Chlorobenzene-d5 | 22.93 | 22.60 | 23.26 | 22.93 | 0.00 |

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Data File: /chem/msde.i/10Mar2012.b/e031010.d

Date : 10-MAR-2012 16:18

Client ID: Level 11

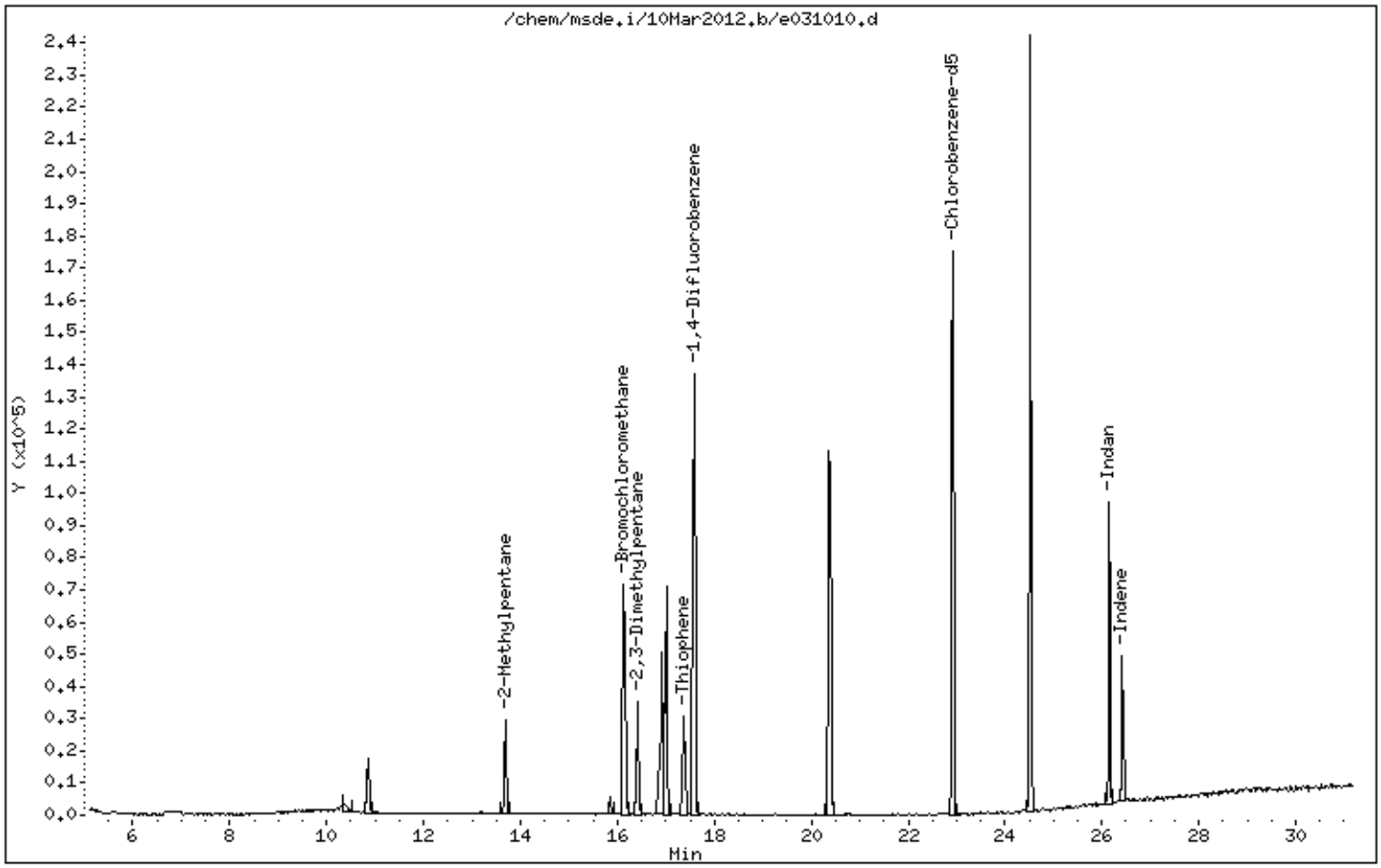
Instrument: msde.i

Sample Info: 75mL #2403-72

Operator: LL

Column phase: RTx-624

Column diameter: 0.32



Air Toxics Ltd.

EPA TO-15/Modified TO14A

Data file : /chem/msde.i/10Mar2012.b/e031004.d
Lab Smp Id: ICAL Client Smp ID: Level 11
Inj Date : 10-MAR-2012 11:52
Operator : cr Inst ID: msde.i
Smp Info : 50mL #2403-8
Misc Info : 1.0ppbv (5.0ppbv) -- AT5
Comment : Low-Level/GC-MS
Method : /chem/msde.i/10Mar2012.b/e12l0308b.m
Meth Date : 10-Mar-2012 13:50 croush Quant Type: ISTD
Cal Date : 10-MAR-2012 11:52 Cal File: e031004.d
Als bottle: 8 Calibration Sample, Level: 11
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AT5ICAL.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

| Name | Value | Description |
|---|---|---|
| DF | 1.00000 | Dilution Factor |

| | | | | AMOUNTS | | | |
|---|---|---|---|---|---|---|---|
| | | | | CAL-AMT | ON-COL | | |
| RT | EXP RT (REL RT) | MASS | RESPONSE | ( PPBV) | ( PPBV) | TARGET RANGE | RATIO |
| * 46 Bromochloromethane | | | | | CAS #: 74-97-5 | | |
| 16.127 | 16.127 (1.000) | 130 | 53284 | 5.00000 | | 80.00- 120.00 | 100.00 |
| 16.127 | 16.127 (1.000) | 128 | 43057 | | | 0.00- 30.00 | 80.81 |
| 16.127 | 16.127 (1.000) | 49 | 49436 | | | 0.00- 30.00 | 92.78 |
| * 58 1,4-Difluorobenzene | | | | | CAS #: 540-36-3 | | |
| 17.585 | 17.585 (1.000) | 114 | 199260 | 5.00000 | | 80.00- 120.00 | 100.00 |
| 17.585 | 17.585 (1.000) | 88 | 36007 | | | 0.00- 30.00 | 18.07 |
| * 75 Chlorobenzene-d5 | | | | | CAS #: 3114-55-4 | | |
| 22.927 | 22.927 (1.000) | 117 | 174009 | 5.00000 | | 80.00- 120.00 | 100.00 |
| 22.927 | 22.927 (1.000) | 82 | 117842 | | | 0.00- 30.00 | 67.72 |
| 15 Vinyl Bromide | | | | | CAS #: 593-60-2 | | |
| 11.308 | 11.308 (0.701) | 106 | 15634 | 1.00000 | 0.9608 | 80.00- 120.00 | 100.00 |
| 11.308 | 11.308 (0.701) | 108 | 14126 | | | 0.00- 30.00 | 90.35 |

| RT | EXP RT (REL RT) | MASS | RESPONSE | AMOUNTS CAL-AMT ( PPBV) | ON-COL ( PPBV) | TARGET RANGE | RATIO |
|---|---|---|---|---|---|---|---|
| 187 2,3-Dichloropropene | | | | | CAS #: 78-88-6 | | |
| 18.519 | 18.519 (1.148) | 75 | 30167 | 1.00000 | 1.018 | 80.00- 120.00 | 100.00 |
| 18.519 | 18.519 (1.148) | 77 | 9185 | | | 0.00- 30.00 | 30.45 |
| 18.519 | 18.519 (1.148) | 39 | 12131 | | | 0.00- 30.00 | 40.21 |
| 186 1,1-Dichloropropene | | | | | CAS #: 563-58-6 | | |
| 16.682 | 16.682 (1.034) | 110 | 7984 | 1.00000 | 1.077 | 80.00- 120.00 | 100.00 |
| 16.682 | 16.682 (1.034) | 75 | 22988 | | | 0.00- 30.00 | 287.93 |
| 79 1,1,1,2-Tetrachloroethane | | | | | CAS #: 630-20-6 | | |
| 23.071 | 23.071 (1.006) | 131 | 26402 | 1.00000 | 0.9904 | 80.00- 120.00 | 100.00 |
| 23.071 | 23.071 (1.006) | 117 | 15566 | | | 0.00- 30.00 | 58.96 |
| 23.071 | 23.071 (1.006) | 95 | 13043 | | | 0.00- 30.00 | 49.40 |
| 91 1,2,3-Trichloropropane | | | | | CAS #: 96-18-4 | | |
| 24.783 | 24.783 (1.081) | 110 | 17107 | 1.00000 | 1.001 | 80.00- 120.00 | 100.00 |
| 24.783 | 24.783 (1.081) | 75 | 46725 | | | 0.00- 30.00 | 273.13 |
| 24.783 | 24.783 (1.081) | 61 | 8606 | | | 0.00- 30.00 | 50.31 |
| 93 2-Chlorotoluene | | | | | CAS #: 95-49-8 | | |
| 24.938 | 24.938 (1.088) | 126 | 17293 | 1.00000 | 0.9261 | 80.00- 120.00 | 100.00 |
| 24.938 | 24.938 (1.088) | 91 | 67162 | | | 0.00- 30.00 | 388.38 |
| 24.912 | 24.912 (1.087) | 65 | 6629 | | | 0.00- 30.00 | 38.33 |
| 96 4-Chlorotoluene | | | | | CAS #: 106-43-4 | | |
| 25.067 | 25.067 (1.093) | 126 | 26122 | 1.00000 | 0.9464 | 80.00- 120.00 | 100.00 |
| 25.067 | 25.067 (1.093) | 91 | 100256 | | | 0.00- 30.00 | 383.80 |
| 25.067 | 25.067 (1.093) | 57 | 33246 | | | 0.00- 30.00 | 127.27 |
| 97 tert-Butylbenzene | | | | | CAS #: 98-06-6 | | |
| 25.343 | 25.343 (1.105) | 119 | 62386 | 1.00000 | 0.9963 | 80.00- 120.00 | 100.00 |
| 25.343 | 25.343 (1.105) | 134 | 13705 | | | 0.00- 30.00 | 21.97 |
| 25.343 | 25.343 (1.105) | 91 | 51202 | | | 0.00- 30.00 | 82.07 |
| 99 sec-Butylbenzene | | | | | CAS #: 135-98-8 | | |
| 25.589 | 25.589 (1.116) | 105 | 94139 | 1.00000 | 0.9456 | 80.00- 120.00 | 100.00 |
| 25.589 | 25.589 (1.116) | 134 | 16300 | | | 0.00- 30.00 | 17.31 |
| 25.589 | 25.589 (1.116) | 91 | 17631 | | | 0.00- 30.00 | 18.73 |
| 100 p-Cymene | | | | | CAS #: 99-87-6 | | |
| 25.724 | 25.724 (1.122) | 119 | 76225 | 1.00000 | 1.016 | 80.00- 120.00 | 100.00 |
| 25.724 | 25.724 (1.122) | 134 | 16889 | | | 0.00- 30.00 | 22.16 |
| 25.724 | 25.724 (1.122) | 91 | 21883 | | | 0.00- 30.00 | 28.71 |
| 103 1,2,3-trimethylbenzene | | | | | CAS #: 526-73-8 | | |
| 25.903 | 25.903 (1.130) | 120 | 28185 | 1.00000 | 0.9698 | 80.00- 120.00 | 100.00 |

| RT | EXP RT (REL RT) | MASS | RESPONSE | AMOUNTS CAL-AMT ( PPBV) | ON-COL ( PPBV) | TARGET RANGE | RATIO |
|---|---|---|---|---|---|---|---|
| 103 1,2,3-trimethylbenzene (continued) | | | | | | | |
| 25.903 | 25.903 (1.130) | 105 | 75516 | | | 0.00- 30.00 | 267.93 |
| 25.903 | 25.903 (1.130) | 77 | 10252 | | | 0.00- 30.00 | 36.37 |
| 107 Butylbenzene | | | | | CAS #: 104-51-8 | | |
| 26.195 | 26.195 (1.143) | 134 | 15846 | 1.00000 | 0.9489 | 80.00- 120.00 | 100.00 |
| 26.195 | 26.195 (1.143) | 91 | 75342 | | | 445.46- 505.46 | 475.46 |
| 26.195 | 26.195 (1.143) | 92 | 38975 | | | 0.00- 30.00 | 245.96 |
| 110 1,2-dibromo-3-chloropropane | | | | | CAS #: 96-12-8 | | |
| 27.226 | 27.226 (1.188) | 157 | 18154 | 1.00000 | 1.019 | 80.00- 120.00 | 100.00 |
| 27.226 | 27.226 (1.188) | 75 | 22930 | | | 0.00- 30.00 | 126.31 |
| 27.226 | 27.226 (1.188) | 155 | 14280 | | | 0.00- 30.00 | 78.66 |
| 86 1,3-Dichloropropane | | | | | CAS #: 142-28-9 | | |
| 21.692 | 21.692 (1.234) | 76 | 30489 | 1.00000 | 1.022 | 80.00- 120.00 | 100.00 |
| 21.660 | 21.660 (1.232) | 41 | 18325 | | | 30.10- 90.10 | 60.10 |
| 21.660 | 21.660 (1.232) | 78 | 8373 | | | 0.00- 30.00 | 27.46 |
| 185 Bromobenzene | | | | | CAS #: 108-86-1 | | |
| 24.732 | 24.732 (1.079) | 156 | 27971 | 1.00000 | 1.001 | 80.00- 120.00 | 100.00 |
| 24.732 | 24.732 (1.079) | 158 | 26437 | | | 0.00- 30.00 | 94.52 |
| 24.732 | 24.732 (1.079) | 77 | 65104 | | | 0.00- 30.00 | 232.76 |

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msde.i
Lab File ID: e031004.d
Lab Smp Id: ICAL
Analysis Type: VOA
Quant Type: ISTD
Operator: cr
Method File: /chem/msde.i/10Mar2012.b/e12l0308b.m
Misc Info: 1.0ppbv (5.0ppbv) -- AT5

Calibration Date: 10-MAR-2012
Calibration Time: 11:52
Client Smp ID: Level 11
Level: LOW
Sample Type: AIR

| | | AREA LIMIT | | | |
|---|---|---|---|---|---|
| COMPOUND | STANDARD | LOWER | UPPER | SAMPLE | %DIFF |
| 46 Bromochloromethan | 53284 | 31970 | 74598 | 53284 | 0.00 |
| 58 1,4-Difluorobenze | 199260 | 119556 | 278964 | 199260 | 0.00 |
| 75 Chlorobenzene-d5 | 174009 | 104405 | 243613 | 174009 | 0.00 |

| | | RT LIMIT | | | |
|---|---|---|---|---|---|
| COMPOUND | STANDARD | LOWER | UPPER | SAMPLE | %DIFF |
| 46 Bromochloromethan | 16.13 | 15.80 | 16.46 | 16.13 | 0.00 |
| 58 1,4-Difluorobenze | 17.59 | 17.26 | 17.92 | 17.59 | 0.00 |
| 75 Chlorobenzene-d5 | 22.93 | 22.60 | 23.26 | 22.93 | 0.00 |

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Data File: /chem/msde.i/10Mar2012.b/e031004.d

Date : 10-MAR-2012 11:52

Client ID: Level 11

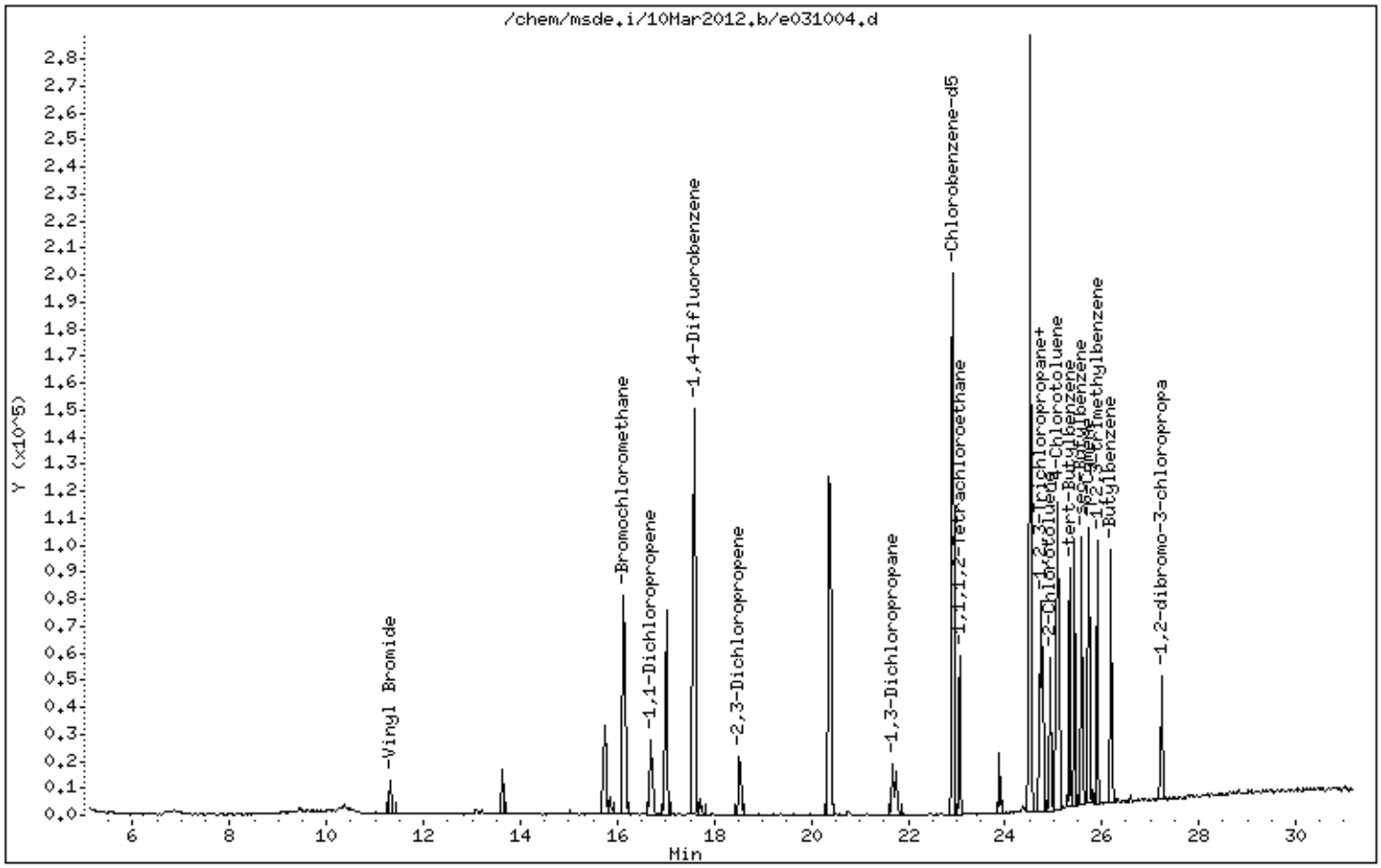
Instrument: msde.i

Sample Info: 50mL #2403-8

Operator: cr

Column phase: RTx-624

Column diameter: 0.32



Air Toxics Ltd.

EPA TO-15/Modified TO14A

Data file : /chem/msde.i/08Mar2012.b/e030817.d
Lab Smp Id: ICAL Client Smp ID: Level 11
Inj Date : 09-MAR-2012 08:10
Operator : cr Inst ID: msde.i
Smp Info : 200mL #2370-176
Misc Info : 40ppbv (50ppbv)
Comment : Low-Level/GC-MS
Method : /chem/msde.i/08Mar2012.b/e12l0308a.m
Meth Date : 13-Mar-2012 09:29 croush Quant Type: ISTD
Cal Date : 09-MAR-2012 08:10 Cal File: e030817.d
Als bottle: 8 Calibration Sample, Level: 11
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: HILOcrvFULL.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

| Name | Value | Description |
|---|---|---|
| DF | 1.00000 | Dilution Factor |

| | | | | AMOUNTS | | | |
|---|---|---|---|---|---|---|---|
| | | | | CAL-AMT | ON-COL | | |
| RT | EXP RT (REL RT) | MASS | RESPONSE | ( PPBV) | ( PPBV) | TARGET RANGE | RATIO |
| * 46 Bromochloromethane | | | | | | CAS #: 74-97-5 | |
| 16.127 | 16.127 (1.000) | 130 | 79966 | 5.00000 | | 70.00- 130.00 | 100.00 |
| 16.127 | 16.127 (1.000) | 128 | 65132 | | | 0.00- 30.00 | 81.45 |
| 16.189 | 16.189 (1.000) | 49 | 224282 | | | 0.00- 30.00 | 280.47 |
| * 58 1,4-Difluorobenzene | | | | | | CAS #: 540-36-3 | |
| 17.585 | 17.585 (1.000) | 114 | 316766 | 5.00000 | | 70.00- 130.00 | 100.00 |
| 17.585 | 17.585 (1.000) | 88 | 56810 | | | 0.00- 30.00 | 17.93 |
| * 75 Chlorobenzene-d5 | | | | | | CAS #: 3114-55-4 | |
| 22.927 | 22.927 (1.000) | 117 | 260123 | 5.00000 | | 70.00- 130.00 | 100.00 |
| 22.927 | 22.927 (1.000) | 82 | 170972 | | | 0.00- 30.00 | 65.73 |
| $ 54 1,2-Dichloroethane-d4 | | | | | | CAS #: 17060-07-0 | |
| 17.013 | 17.013 (1.055) | 65 | 148200 | 5.00000 | 4.973 | 70.00- 130.00 | 100.00 |
| 17.013 | 17.013 (1.055) | 67 | 86418 | | | 0.00- 30.00 | 58.31 |

| RT | EXP RT (REL RT) | MASS | RESPONSE | AMOUNTS CAL-AMT ( PPBV) | ON-COL ( PPBV) | TARGET RANGE | RATIO |
|---|---|---|---|---|---|---|---|
| $ 67 Toluene-d8 | | | | | | CAS #: 2037-26-5 | |
| 20.368 | 20.368 (1.158) | 98 | 314203 | 5.00000 | 4.924 | 70.00- 130.00 | 100.00 |
| 20.368 | 20.368 (1.158) | 70 | 36631 | | | 0.00- 30.00 | 11.66 |
| 20.368 | 20.368 (1.158) | 100 | 204055 | | | 33.91- 93.91 | 64.94 |
| $ 87 Bromofluorobenzene | | | | | | CAS #: 460-00-4 | |
| 24.525 | 24.525 (1.070) | 174 | 138548 | 5.00000 | 4.656 | 70.00- 130.00 | 100.00 |
| 24.525 | 24.525 (1.070) | 95 | 218448 | | | 125.57- 185.57 | 157.67 |
| 24.525 | 24.525 (1.070) | 176 | 132188 | | | 64.73- 124.73 | 95.41 |
| 2 Propylene | | | | | | CAS #: 115-07-1 | |
| 5.521 | 5.521 (0.342) | 41 | 507984 | 40.0000 | 39.852 | 70.00- 130.00 | 100.00(A) |
| 5.521 | 5.521 (0.342) | 42 | 332282 | | | 0.00- 30.00 | 65.41 |
| 5.497 | 5.497 (0.341) | 39 | 418781 | | | 0.00- 30.00 | 82.44 |
| 4 Dichlorodifluoromethane/Fr12 | | | | | | CAS #: 75-71-8 | |
| 5.955 | 5.955 (0.369) | 85 | 3392499 | 40.0000 | 36.304 | 70.00- 130.00 | 100.00(A) |
| 5.979 | 5.979 (0.371) | 87 | 1103725 | | | 2.22- 62.22 | 32.53 |
| 6 Freon 114 | | | | | | CAS #: 76-14-2 | |
| 7.329 | 7.329 (0.454) | 135 | 1836317 | 40.0000 | 37.770 | 70.00- 130.00 | 100.00(A) |
| 7.329 | 7.329 (0.454) | 137 | 588333 | | | 0.00- 30.00 | 32.04 |
| 7 Chloromethane | | | | | | CAS #: 74-87-3 | |
| 7.715 | 7.715 (0.478) | 50 | 513001 | 40.0000 | 37.144 | 70.00- 130.00 | 100.00(A) |
| 7.715 | 7.715 (0.478) | 52 | 172328 | | | 0.00- 30.00 | 33.59 |
| 9 Butane | | | | | | CAS #: 106-97-8 | |
| 8.404 | 8.404 (0.521) | 58 | 204918 | 40.0000 | 43.113 | 70.00- 130.00 | 100.00(A) |
| 8.404 | 8.404 (0.521) | 43 | 1074168 | | | 0.00- 30.00 | 524.19 |
| 10 Vinyl Chloride | | | | | | CAS #: 75-01-4 | |
| 8.543 | 8.543 (0.530) | 62 | 811653 | 40.0000 | 37.234 | 70.00- 130.00 | 100.00(A) |
| 8.543 | 8.543 (0.530) | 64 | 263585 | | | 2.55- 62.55 | 32.48 |
| 11 1,3-Butadiene | | | | | | CAS #: 106-99-0 | |
| 8.769 | 8.769 (0.544) | 54 | 551367 | 40.0000 | 40.244 | 70.00- 130.00 | 100.00(A) |
| 8.769 | 8.769 (0.544) | 39 | 497725 | | | 0.00- 30.00 | 90.27 |
| 12 Bromomethane | | | | | | CAS #: 74-83-9 | |
| 10.251 | 10.251 (0.636) | 94 | 799979 | 40.0000 | 33.191 | 70.00- 130.00 | 100.00(A) |
| 10.251 | 10.251 (0.636) | 96 | 771279 | | | 65.25- 125.25 | 96.41 |
| 13 Chloroethane | | | | | | CAS #: 75-00-3 | |
| 10.728 | 10.728 (0.665) | 64 | 390084 | 40.0000 | 33.584 | 70.00- 130.00 | 100.00(A) |
| 10.728 | 10.728 (0.665) | 49 | 88077 | | | 0.00- 30.00 | 22.58 |

| RT | EXP RT (REL RT) | MASS | RESPONSE | AMOUNTS CAL-AMT ( PPBV) | AMOUNTS ON-COL ( PPBV) | TARGET RANGE | RATIO |
|---|---|---|---|---|---|---|---|
| 13 Chloroethane (continued) | | | | | | | |
| 10.728 | 10.728 (0.665) | 66 | 132773 | | | 0.00- 30.00 | 34.04 |
| 14 Isopentane | | | | | CAS #: 78-78-4 | | |
| 10.852 | 10.852 (0.673) | 57 | 585549 | 40.0000 | 39.913 | 70.00- 130.00 | 100.00(A) |
| 10.852 | 10.852 (0.673) | 43 | 656736 | | | 0.00- 30.00 | 112.16 |
| 10.852 | 10.852 (0.673) | 42 | 560576 | | | 0.00- 30.00 | 95.74 |
| 16 Trichlorofluoromethane/Fr11 | | | | | CAS #: 75-69-4 | | |
| 11.474 | 11.474 (0.711) | 101 | 3446688 | 40.0000 | 34.975 | 70.00- 130.00 | 100.00(A) |
| 11.474 | 11.474 (0.711) | 103 | 2233861 | | | 36.02- 96.02 | 64.81 |
| 18 Ethanol | | | | | CAS #: 64-17-5 | | |
| 12.344 | 12.344 (0.765) | 45 | 250241 | 40.0000 | 48.638 | 70.00- 130.00 | 100.00(A) |
| 12.344 | 12.344 (0.765) | 46 | 88851 | | | 0.00- 30.00 | 35.51 |
| 12.324 | 12.324 (0.764) | 43 | 55920 | | | 0.00- 30.00 | 22.35 |
| 19 Freon 113 | | | | | CAS #: 76-13-1 | | |
| 12.800 | 12.800 (0.794) | 151 | 1516571 | 40.0000 | 36.392 | 70.00- 130.00 | 100.00(A) |
| 12.800 | 12.800 (0.794) | 153 | 970432 | | | 34.27- 94.27 | 63.99 |
| 12.780 | 12.780 (0.792) | 101 | 2055277 | | | 0.00- 30.00 | 135.52 |
| 21 1,1-Dichloroethene | | | | | CAS #: 75-35-4 | | |
| 12.821 | 12.821 (0.795) | 98 | 568135 | 40.0000 | 40.090 | 70.00- 130.00 | 100.00(A) |
| 12.821 | 12.821 (0.795) | 61 | 1408928 | | | 0.00- 30.00 | 247.99 |
| 12.821 | 12.821 (0.795) | 96 | 881510 | | | 0.00- 30.00 | 155.16 |
| 22 Acetone | | | | | CAS #: 67-64-1 | | |
| 13.070 | 13.070 (0.810) | 58 | 356997 | 40.0000 | 39.502 | 70.00- 130.00 | 100.00(A) |
| 13.070 | 13.070 (0.810) | 43 | 1147814 | | | 0.00- 30.00 | 321.52 |
| 25 2-Propanol | | | | | CAS #: 67-63-0 | | |
| 13.381 | 13.381 (0.830) | 45 | 1100311 | 40.0000 | 45.034 | 70.00- 130.00 | 100.00(A) |
| 13.381 | 13.381 (0.830) | 43 | 261595 | | | 0.00- 30.00 | 23.77 |
| 13.381 | 13.381 (0.830) | 59 | 50594 | | | 0.00- 30.00 | 4.60 |
| 23 Carbon Disulfide | | | | | CAS #: 75-15-0 | | |
| 13.194 | 13.194 (0.818) | 76 | 2236394 | 40.0000 | 37.609 | 70.00- 130.00 | 100.00(A) |
| 26 3-Chloroprene | | | | | CAS #: 107-05-1 | | |
| 13.588 | 13.588 (0.843) | 76 | 367787 | 40.0000 | 41.933 | 70.00- 130.00 | 100.00(A) |
| 13.588 | 13.588 (0.843) | 41 | 612974 | | | 0.00- 30.00 | 166.67 |
| 29 Methylene Chloride | | | | | CAS #: 75-09-2 | | |
| 13.885 | 13.885 (0.861) | 84 | 379317 | 40.0000 | 34.002 | 70.00- 130.00 | 100.00(A) |
| 13.885 | 13.885 (0.861) | 49 | 306239 | | | 0.00- 30.00 | 80.73 |

| RT | EXP RT (REL RT) | MASS | RESPONSE | AMOUNTS CAL-AMT ( PPBV) | ON-COL ( PPBV) | TARGET RANGE | RATIO |
|---|---|---|---|---|---|---|---|
| 29 Methylene Chloride (continued) | | | | | | | |
| 13.885 | 13.885 (0.861) | 51 | 96432 | | | 0.00- 30.00 | 25.42 |
| 30 tert-butyl alcohol | | | | | CAS #: 75-65-0 | | |
| 14.022 | 14.022 (0.869) | 59 | 1057624 | 40.0000 | 45.654 | 70.00- 130.00 | 100.00(A) |
| 14.022 | 14.022 (0.869) | 41 | 205548 | | | 0.00- 30.00 | 19.43 |
| 14.022 | 14.022 (0.869) | 57 | 114483 | | | 0.00- 30.00 | 10.82 |
| 31 MTBE | | | | | CAS #: 1634-04-4 | | |
| 14.187 | 14.187 (0.880) | 73 | 3007241 | 40.0000 | 41.848 | 70.00- 130.00 | 100.00(A) |
| 14.187 | 14.187 (0.880) | 57 | 486123 | | | 0.00- 30.00 | 16.17 |
| 14.187 | 14.187 (0.880) | 41 | 426141 | | | 0.00- 30.00 | 14.17 |
| 32 trans-1,2-Dichloroethene | | | | | CAS #: 156-60-5 | | |
| 14.242 | 14.242 (0.883) | 98 | 576243 | 40.0000 | 37.958 | 70.00- 130.00 | 100.00(A) |
| 14.242 | 14.242 (0.883) | 61 | 1163738 | | | 0.00- 30.00 | 201.95 |
| 14.242 | 14.242 (0.883) | 96 | 893625 | | | 0.00- 30.00 | 155.08 |
| 35 Hexane | | | | | CAS #: 110-54-3 | | |
| 14.544 | 14.544 (0.902) | 57 | 1070930 | 40.0000 | 41.101 | 70.00- 130.00 | 100.00(A) |
| 14.544 | 14.544 (0.902) | 43 | 549555 | | | 0.00- 30.00 | 51.32 |
| 14.544 | 14.544 (0.902) | 86 | 268887 | | | 0.00- 30.00 | 25.11 |
| 36 Isopropyl ether | | | | | CAS #: 108-20-3 | | |
| 14.873 | 14.873 (0.922) | 45 | 1173598 | 40.0000 | 41.534 | 70.00- 130.00 | 100.00(A) |
| 14.873 | 14.873 (0.922) | 87 | 535514 | | | 0.00- 30.00 | 45.63 |
| 14.873 | 14.873 (0.922) | 59 | 171881 | | | 0.00- 30.00 | 14.65 |
| 37 1,1-Dichloroethane | | | | | CAS #: 75-34-3 | | |
| 14.956 | 14.956 (0.927) | 63 | 1551461 | 40.0000 | 36.157 | 70.00- 130.00 | 100.00(A) |
| 14.956 | 14.956 (0.927) | 65 | 504340 | | | 0.00- 30.00 | 32.51 |
| 38 Vinyl Acetate | | | | | CAS #: 108-05-4 | | |
| 14.956 | 14.956 (0.927) | 86 | 267009 | 40.0000 | 42.120 | 70.00- 130.00 | 100.00(A) |
| 14.956 | 14.956 (0.927) | 42 | 180009 | | | 0.00- 30.00 | 67.42 |
| 14.956 | 14.956 (0.927) | 43 | 2267353 | | | 0.00- 30.00 | 849.17 |
| 40 Ethyl-tert-butyl ether | | | | | CAS #: 637-92-3 | | |
| 15.368 | 15.368 (0.953) | 59 | 1663098 | 40.0000 | 42.264 | 70.00- 130.00 | 100.00(A) |
| 15.368 | 15.368 (0.953) | 87 | 849832 | | | 0.00- 30.00 | 51.10 |
| 15.368 | 15.368 (0.953) | 41 | 256213 | | | 0.00- 30.00 | 15.41 |
| 42 2-Butanone | | | | | CAS #: 78-93-3 | | |
| 15.766 | 15.766 (0.978) | 72 | 681355 | 40.0000 | 41.586 | 70.00- 130.00 | 100.00(A) |
| 15.766 | 15.766 (0.978) | 43 | 1727115 | | | 0.00- 30.00 | 253.48 |
| 15.766 | 15.766 (0.978) | 57 | 173475 | | | 0.00- 30.00 | 25.46 |

| RT | EXP RT (REL RT) | MASS | RESPONSE | AMOUNTS CAL-AMT ( PPBV) | ON-COL ( PPBV) | TARGET RANGE | RATIO |
|---|---|---|---|---|---|---|---|
| 41 cis-1,2-Dichloroethene | | | | | CAS #: 156-59-2 | | |
| 15.787 | 15.787 (0.979) | 98 | 919777 | 40.0000 | 40.297 | 70.00- 130.00 | 100.00(A) |
| 15.787 | 15.787 (0.979) | 61 | 1720209 | | | 0.00- 30.00 | 187.02 |
| 15.787 | 15.787 (0.979) | 96 | 1418039 | | | 124.52- 184.52 | 154.17 |
| 44 Tetrahydrofuran | | | | | CAS #: 109-99-9 | | |
| 16.127 | 16.127 (1.000) | 42 | 672724 | 40.0000 | 41.186 | 70.00- 130.00 | 100.00(A) |
| 16.127 | 16.127 (1.000) | 71 | 450170 | | | 0.00- 30.00 | 66.92 |
| 16.127 | 16.127 (1.000) | 72 | 493642 | | | 0.00- 30.00 | 73.38 |
| 47 Chloroform | | | | | CAS #: 67-66-3 | | |
| 16.189 | 16.189 (1.004) | 83 | 2358182 | 40.0000 | 35.903 | 70.00- 130.00 | 100.00(A) |
| 16.189 | 16.189 (1.004) | 85 | 1504719 | | | 0.00- 30.00 | 63.81 |
| 49 1,1,1-Trichloroethane | | | | | CAS #: 71-55-6 | | |
| 16.466 | 16.466 (1.021) | 97 | 2723732 | 40.0000 | 36.289 | 70.00- 130.00 | 100.00(A) |
| 16.466 | 16.466 (1.021) | 99 | 1755846 | | | 0.00- 30.00 | 64.46 |
| 48 Cyclohexane | | | | | CAS #: 110-82-7 | | |
| 16.466 | 16.466 (1.021) | 84 | 1381130 | 40.0000 | 39.380 | 70.00- 130.00 | 100.00(A) |
| 16.466 | 16.466 (1.021) | 56 | 1135261 | | | 0.00- 30.00 | 82.20 |
| 16.466 | 16.466 (1.021) | 41 | 569875 | | | 0.00- 30.00 | 41.26 |
| 51 Carbon Tetrachloride | | | | | CAS #: 56-23-5 | | |
| 16.651 | 16.651 (1.032) | 119 | 2666930 | 40.0000 | 47.488 | 70.00- 130.00 | 100.00(A) |
| 16.651 | 16.651 (1.032) | 117 | 2771172 | | | 0.00- 30.00 | 103.91 |
| 52 2,2,4-Trimethylpentane | | | | | CAS #: 540-84-1 | | |
| 16.925 | 16.925 (1.049) | 56 | 1489981 | 40.0000 | 37.087 | 70.00- 130.00 | 100.00(A) |
| 16.925 | 16.925 (1.049) | 57 | 4739809 | | | 0.00- 30.00 | 318.11 |
| 16.925 | 16.925 (1.049) | 41 | 1366475 | | | 0.00- 30.00 | 91.71 |
| 53 Benzene | | | | | CAS #: 71-43-2 | | |
| 17.013 | 17.013 (0.967) | 78 | 2828288 | 40.0000 | 34.807 | 70.00- 130.00 | 100.00(A) |
| 17.013 | 17.013 (0.967) | 77 | 661438 | | | 0.00- 30.00 | 23.39 |
| 55 tert-amyl methyl ether | | | | | CAS #: 994-05-8 | | |
| 17.042 | 17.042 (0.969) | 87 | 475253 | 40.0000 | 39.683 | 70.00- 130.00 | 100.00(A) |
| 17.042 | 17.042 (0.969) | 73 | 1878169 | | | 0.00- 30.00 | 395.19 |
| 17.042 | 17.042 (0.969) | 55 | 413728 | | | 0.00- 30.00 | 87.05 |
| 56 1,2-Dichloroethane | | | | | CAS #: 107-06-2 | | |
| 17.129 | 17.129 (0.974) | 62 | 1546110 | 40.0000 | 33.743 | 70.00- 130.00 | 100.00(A) |
| 17.129 | 17.129 (0.974) | 64 | 511443 | | | 0.00- 30.00 | 33.08 |
| 57 Heptane | | | | | CAS #: 142-82-5 | | |
| 17.159 | 17.159 (0.976) | 57 | 664534 | 40.0000 | 39.567 | 70.00- 130.00 | 100.00(A) |

| RT | EXP RT (REL RT) | MASS | RESPONSE | AMOUNTS CAL-AMT ( PPBV) | ON-COL ( PPBV) | TARGET RANGE | RATIO |
|---|---|---|---|---|---|---|---|
| 57 Heptane (continued) | | | | | | | |
| 17.159 | 17.159 (0.976) | 100 | 408892 | | | 0.00- 30.00 | 61.53 |
| 17.159 | 17.159 (0.976) | 43 | 1011038 | | | 0.00- 30.00 | 152.14 |
| 59 Trichloroethene | | | | | CAS #: 79-01-6 | | |
| 18.025 | 18.025 (1.025) | 130 | 1305140 | 40.0000 | 36.368 | 70.00- 130.00 | 100.00(A) |
| 18.025 | 18.025 (1.025) | 95 | 1452442 | | | 0.00- 30.00 | 111.29 |
| 18.025 | 18.025 (1.025) | 97 | 952484 | | | 0.00- 30.00 | 72.98 |
| 60 Methylcyclohexane | | | | | CAS #: 108-87-2 | | |
| 18.272 | 18.272 (1.039) | 83 | 1817559 | 40.0000 | 39.206 | 70.00- 130.00 | 100.00(A) |
| 18.272 | 18.272 (1.039) | 55 | 1124095 | | | 0.00- 30.00 | 61.85 |
| 18.272 | 18.272 (1.039) | 56 | 334823 | | | 0.00- 30.00 | 18.42 |
| 61 1,2-Dichloropropane | | | | | CAS #: 78-87-5 | | |
| 18.519 | 18.519 (1.053) | 63 | 909130 | 40.0000 | 36.390 | 70.00- 130.00 | 100.00(A) |
| 18.519 | 18.519 (1.053) | 62 | 635851 | | | 0.00- 30.00 | 69.94 |
| 18.519 | 18.519 (1.053) | 41 | 514554 | | | 29.06- 89.06 | 56.60 |
| 62 1,4-Dioxane | | | | | CAS #: 123-91-1 | | |
| 18.629 | 18.629 (1.059) | 88 | 765000 | 40.0000 | 42.938 | 70.00- 130.00 | 100.00(A) |
| 18.629 | 18.629 (1.059) | 58 | 423696 | | | 0.00- 30.00 | 55.39 |
| 18.629 | 18.629 (1.059) | 57 | 141694 | | | 0.00- 30.00 | 18.52 |
| 63 Bromodichloromethane | | | | | CAS #: 75-27-4 | | |
| 18.958 | 18.958 (1.078) | 83 | 2641314 | 40.0000 | 37.848 | 70.00- 130.00 | 100.00(A) |
| 18.958 | 18.958 (1.078) | 85 | 1663854 | | | 0.00- 30.00 | 62.99 |
| 64 cis-1,3-Dichloropropene | | | | | CAS #: 10061-01-5 | | |
| 19.865 | 19.865 (1.130) | 75 | 1753285 | 40.0000 | 40.554 | 70.00- 130.00 | 100.00(A) |
| 19.865 | 19.865 (1.130) | 77 | 540248 | | | 0.00- 30.00 | 30.81 |
| 19.865 | 19.865 (1.130) | 39 | 682011 | | | 10.38- 70.38 | 38.90 |
| 65 4-Methyl-2-pentanone | | | | | CAS #: 108-10-1 | | |
| 20.076 | 20.076 (1.142) | 43 | 1504815 | 40.0000 | 46.602 | 70.00- 130.00 | 100.00(A) |
| 20.076 | 20.076 (1.142) | 58 | 736945 | | | 0.00- 30.00 | 48.97 |
| 20.076 | 20.076 (1.142) | 85 | 438937 | | | 0.00- 30.00 | 29.17 |
| 68 Toluene | | | | | CAS #: 108-88-3 | | |
| 20.524 | 20.524 (1.167) | 91 | 3375806 | 40.0000 | 34.815 | 70.00- 130.00 | 100.00(A) |
| 20.524 | 20.524 (1.167) | 92 | 2019574 | | | 0.00- 30.00 | 59.82 |
| 69 trans-1,3-Dichloropropene | | | | | CAS #: 10061-02-6 | | |
| 20.995 | 20.995 (0.916) | 75 | 2587140 | 40.0000 | 46.379 | 70.00- 130.00 | 100.00(A) |
| 20.995 | 20.995 (0.916) | 77 | 809518 | | | 0.00- 30.00 | 31.29 |
| 20.995 | 20.995 (0.916) | 39 | 868102 | | | 4.84- 64.84 | 33.55 |

| RT | EXP RT (REL RT) | MASS | RESPONSE | AMOUNTS CAL-AMT ( PPBV) | ON-COL ( PPBV) | TARGET RANGE | RATIO |
|---|---|---|---|---|---|---|---|
| 70 1,1,2-Trichloroethane | | | | | CAS #: 79-00-5 | | |
| 21.367 | 21.367 (0.932) | 97 | 1266543 | 40.0000 | 37.687 | 70.00- 130.00 | 100.00(A) |
| 21.367 | 21.367 (0.932) | 99 | 798520 | | | 0.00- 30.00 | 63.05 |
| 21.335 | 21.335 (0.931) | 83 | 1069373 | | | 52.76- 112.76 | 84.43 |
| 71 Tetrachloroethene | | | | | CAS #: 127-18-4 | | |
| 21.497 | 21.497 (0.938) | 166 | 1462969 | 40.0000 | 37.502 | 70.00- 130.00 | 100.00(A) |
| 21.497 | 21.497 (0.938) | 129 | 1266160 | | | 0.00- 30.00 | 86.55 |
| 21.497 | 21.497 (0.938) | 131 | 1206554 | | | 0.00- 30.00 | 82.47 |
| 72 2-Hexanone | | | | | CAS #: 591-78-6 | | |
| 21.660 | 21.660 (0.945) | 58 | 976979 | 40.0000 | 45.933 | 70.00- 130.00 | 100.00(A) |
| 21.660 | 21.660 (0.945) | 43 | 1489416 | | | 0.00- 30.00 | 152.45 |
| 21.660 | 21.660 (0.945) | 100 | 277081 | | | 0.00- 30.00 | 28.36 |
| 73 Dibromochloromethane | | | | | CAS #: 124-48-1 | | |
| 22.017 | 22.017 (0.960) | 129 | 2524681 | 40.0000 | 44.152 | 70.00- 130.00 | 100.00(A) |
| 22.017 | 22.017 (0.960) | 127 | 1930273 | | | 0.00- 30.00 | 76.46 |
| 74 1,2-Dibromoethane | | | | | CAS #: 106-93-4 | | |
| 22.278 | 22.278 (0.972) | 107 | 2075407 | 40.0000 | 40.261 | 70.00- 130.00 | 100.00(A) |
| 22.278 | 22.278 (0.972) | 109 | 1861976 | | | 0.00- 30.00 | 89.72 |
| 76 Chlorobenzene | | | | | CAS #: 108-90-7 | | |
| 22.975 | 22.975 (1.002) | 112 | 2647153 | 40.0000 | 35.708 | 70.00- 130.00 | 100.00(A) |
| 22.975 | 22.975 (1.002) | 114 | 854708 | | | 0.00- 30.00 | 32.29 |
| 22.951 | 22.951 (1.001) | 77 | 1690634 | | | 36.24- 96.24 | 63.87 |
| 77 Ethyl Benzene | | | | | CAS #: 100-41-4 | | |
| 23.023 | 23.023 (1.004) | 106 | 1344757 | 40.0000 | 37.128 | 70.00- 130.00 | 100.00(A) |
| 23.023 | 23.023 (1.004) | 91 | 4616230 | | | 0.00- 30.00 | 343.28 |
| 80 m,p-Xylene | | | | | CAS #: 108-38-3 | | |
| 23.192 | 23.192 (1.012) | 106 | 1630086 | 40.0000 | 37.404 | 70.00- 130.00 | 100.00(A) |
| 23.192 | 23.192 (1.012) | 91 | 3625429 | | | 0.00- 30.00 | 222.41 |
| 81 o-Xylene | | | | | CAS #: 95-47-6 | | |
| 23.770 | 23.770 (1.037) | 106 | 1581448 | 40.0000 | 37.747 | 70.00- 130.00 | 100.00(A) |
| 23.770 | 23.770 (1.037) | 91 | 3733416 | | | 0.00- 30.00 | 236.08 |
| 83 Styrene | | | | | CAS #: 100-42-5 | | |
| 23.818 | 23.818 (1.039) | 104 | 2445236 | 40.0000 | 38.664 | 70.00- 130.00 | 100.00(A) |
| 23.818 | 23.818 (1.039) | 78 | 1441490 | | | 0.00- 30.00 | 58.95 |
| 84 Bromoform | | | | | CAS #: 75-25-2 | | |
| 24.131 | 24.131 (1.053) | 173 | 2240412 | 40.0000 | 45.320 | 70.00- 130.00 | 100.00(A) |

| RT | EXP RT (REL RT) | MASS | RESPONSE | AMOUNTS CAL-AMT ( PPBV) | AMOUNTS ON-COL ( PPBV) | TARGET RANGE | RATIO |
|---|---|---|---|---|---|---|---|
| 84 Bromoform (continued) | | | | | | | |
| 24.131 | 24.131 (1.053) | 171 | 1158046 | | | 0.00- 30.00 | 51.69 |
| 85 Cumene | | | | | CAS #: 98-82-8 | | |
| 24.228 | 24.228 (1.057) | 105 | 5003284 | 40.0000 | 36.883 | 70.00- 130.00 | 100.00(A) |
| 24.228 | 24.228 (1.057) | 120 | 1192923 | | | 0.00- 30.00 | 23.84 |
| 89 1,1,2,2-Tetrachloroethane | | | | | CAS #: 79-34-5 | | |
| 24.680 | 24.680 (1.076) | 83 | 2467046 | 40.0000 | 35.189 | 70.00- 130.00 | 100.00(A) |
| 24.680 | 24.680 (1.076) | 85 | 1558001 | | | 0.00- 30.00 | 63.15 |
| 90 Propylbenzene | | | | | CAS #: 103-65-1 | | |
| 24.757 | 24.757 (1.080) | 91 | 6436786 | 40.0000 | 37.044 | 70.00- 130.00 | 100.00(A) |
| 24.757 | 24.757 (1.080) | 120 | 1334615 | | | 0.00- 30.00 | 20.73 |
| 92 4-Ethyltoluene | | | | | CAS #: 622-96-8 | | |
| 24.886 | 24.886 (1.085) | 105 | 5770441 | 40.0000 | 38.675 | 70.00- 130.00 | 100.00(A) |
| 24.886 | 24.886 (1.085) | 120 | 1555601 | | | 0.00- 30.00 | 26.96 |
| 94 1,3,5-Trimethylbenzene | | | | | CAS #: 108-67-8 | | |
| 24.964 | 24.964 (1.089) | 105 | 5143909 | 40.0000 | 40.054 | 70.00- 130.00 | 100.00(A) |
| 24.964 | 24.964 (1.089) | 120 | 2189335 | | | 0.00- 30.00 | 42.56 |
| 98 1,2,4-Trimethylbenzene | | | | | CAS #: 95-63-6 | | |
| 25.410 | 25.410 (1.108) | 105 | 4600104 | 40.0000 | 40.688 | 70.00- 130.00 | 100.00(A) |
| 25.410 | 25.410 (1.108) | 120 | 1870543 | | | 0.00- 30.00 | 40.66 |
| 101 1,3-Dichlorobenzene | | | | | CAS #: 541-73-1 | | |
| 25.814 | 25.814 (1.126) | 146 | 2573064 | 40.0000 | 35.903 | 70.00- 130.00 | 100.00(A) |
| 25.814 | 25.814 (1.126) | 148 | 1646067 | | | 0.00- 30.00 | 63.97 |
| 25.791 | 25.791 (1.125) | 111 | 1226228 | | | 0.00- 30.00 | 47.66 |
| 104 1,4-Dichlorobenzene | | | | | CAS #: 106-46-7 | | |
| 25.903 | 25.903 (1.130) | 146 | 2540137 | 40.0000 | 35.424 | 70.00- 130.00 | 100.00(A) |
| 25.903 | 25.903 (1.130) | 148 | 1620883 | | | 0.00- 30.00 | 63.81 |
| 25.903 | 25.903 (1.130) | 111 | 1159450 | | | 0.00- 30.00 | 45.65 |
| 105 alpha-chlorotoluene | | | | | CAS #: 100-44-7 | | |
| 26.060 | 26.060 (1.137) | 91 | 4187701 | 40.0000 | 38.341 | 70.00- 130.00 | 100.00(A) |
| 26.060 | 26.060 (1.137) | 126 | 724414 | | | 0.00- 30.00 | 17.30 |
| 108 1,2-Dichlorobenzene | | | | | CAS #: 95-50-1 | | |
| 26.352 | 26.352 (1.149) | 146 | 2391538 | 40.0000 | 35.174 | 70.00- 130.00 | 100.00(A) |
| 26.352 | 26.352 (1.149) | 148 | 1523594 | | | 34.07- 94.07 | 63.71 |
| 26.352 | 26.352 (1.149) | 111 | 1186389 | | | 19.87- 79.87 | 49.61 |

| RT | EXP RT (REL RT) | MASS | RESPONSE | AMOUNTS CAL-AMT ( PPBV) | ON-COL ( PPBV) | TARGET RANGE | RATIO |
|---|---|---|---|---|---|---|---|
| 112 1,2,4-Trichlorobenzene | | | | | CAS #: 120-82-1 | | |
| 28.145 | 28.145 (1.228) | 180 | 1897063 | 40.0000 | 42.686 | 70.00- 130.00 | 100.00(A) |
| 28.145 | 28.145 (1.228) | 182 | 1806484 | | | 0.00- 30.00 | 95.23 |
| 113 Hexachlorobutadiene | | | | | CAS #: 87-68-3 | | |
| 28.235 | 28.235 (1.232) | 225 | 1532258 | 40.0000 | 38.589 | 70.00- 130.00 | 100.00(A) |
| 28.235 | 28.235 (1.232) | 223 | 975576 | | | 0.00- 30.00 | 63.67 |
| 114 Naphthalene | | | | | CAS #: 91-20-3 | | |
| 28.504 | 28.504 (1.243) | 128 | 458346 | 4.00000 | 4.844 | 70.00- 130.00 | 100.00 |
| 28.504 | 28.504 (1.243) | 127 | 58900 | | | 0.00- 30.00 | 12.85 |

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.

Report Date: 13-Mar-2012 09:29

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msde.i
Lab File ID: e030817.d
Lab Smp Id: ICAL
Analysis Type: VOA
Quant Type: ISTD
Operator: cr
Method File: /chem/msde.i/08Mar2012.b/e12l0308a.m
Misc Info: 40ppbv (50ppbv)

Calibration Date: 08-MAR-2012
Calibration Time: 22:56
Client Smp ID: Level 11
Level: LOW
Sample Type: AIR

| | | AREA LIMIT | | | |
|---|---|---|---|---|---|
| COMPOUND | STANDARD | LOWER | UPPER | SAMPLE | %DIFF |
| 46 Bromochloromethan | 73839 | 44303 | 103375 | 79966 | 8.30 |
| 58 1,4-Difluorobenze | 285440 | 171264 | 399616 | 316766 | 10.97 |
| 75 Chlorobenzene-d5 | 243451 | 146071 | 340831 | 260123 | 6.85 |

| | | RT LIMIT | | | |
|---|---|---|---|---|---|
| COMPOUND | STANDARD | LOWER | UPPER | SAMPLE | %DIFF |
| 46 Bromochloromethan | 16.13 | 15.80 | 16.46 | 16.13 | 0.00 |
| 58 1,4-Difluorobenze | 17.59 | 17.26 | 17.92 | 17.59 | 0.00 |
| 75 Chlorobenzene-d5 | 22.93 | 22.60 | 23.26 | 22.93 | 0.00 |

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Data File: /chem/msde.i/08Mar2012.b/e030817.d



Date : 09-MAR-2012 08:10

Client ID: Level 11

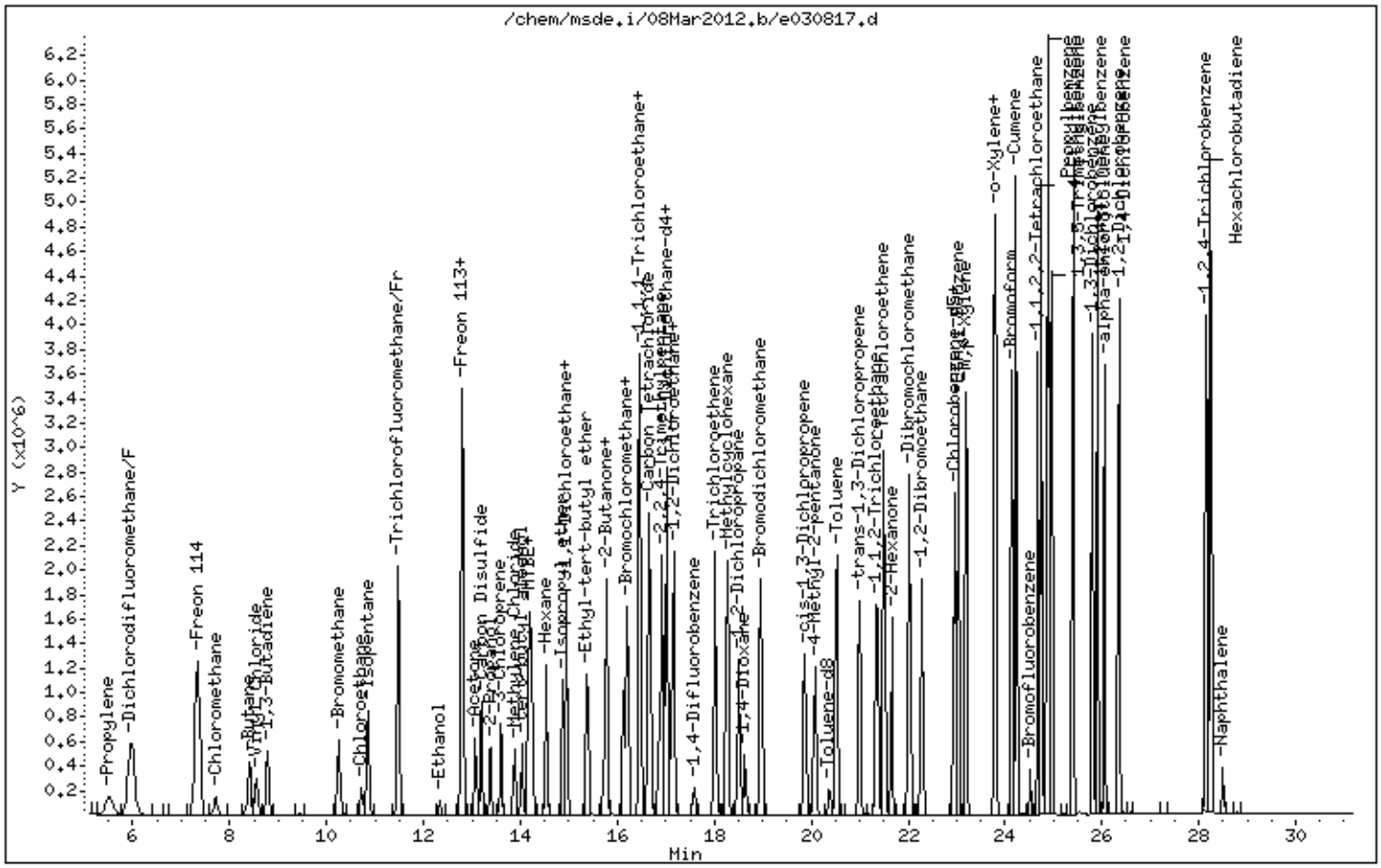
Instrument: msde.i

Sample Info: 200mL #2370-176

Operator: cr

Column phase: RTx-624

Column diameter: 0.32



Air Toxics Ltd.

EPA TO-15/Modified TO14A

Data file : /chem/msde.i/15Mar2012.b/e031523.d
Lab Smp Id: ICAL Client Smp ID: Level 12
Inj Date : 15-MAR-2012 23:43
Operator : sac Inst ID: msde.i
Smp Info : 125mL #2403-84
Misc Info : 1.0ppbv (5.0ppbv) -- AT2
Comment : Low-Level/GC-MS
Method : /chem/msde.i/15Mar2012.b/e12l0308c.m
Meth Date : 17-Mar-2012 10:11 croush Quant Type: ISTD
Cal Date : 15-MAR-2012 23:43 Cal File: e031523.d
Als bottle: 8 Calibration Sample, Level: 12
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AT2.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

| Name | Value | Description |
|---|---|---|
| DF | 1.00000 | Dilution Factor |

| | | | | AMOUNTS | | | | |
|---|---|---|---|---|---|---|---|---|
| | | | | CAL-AMT | ON-COL | | | |
| RT | EXP RT (REL RT) | MASS | RESPONSE | ( PPBV) | ( PPBV) | TARGET RANGE | | RATIO |
| == | ====== ======== | ==== | ======== | ======= | ======= | ========== | | ===== |
| * 46 Bromochloromethane | | | | | | CAS #: 74-97-5 | | |
| 16.127 | 16.127 (1.000) | 130 | 61185 | 5.00000 | | 80.00- 120.00 | | 100.00 |
| 16.127 | 16.127 (1.000) | 128 | 48015 | | | 0.00- 30.00 | | 78.48 |
| 16.127 | 16.127 (1.000) | 49 | 57508 | | | 0.00- 30.00 | | 93.99 |
| * 58 1,4-Difluorobenzene | | | | | | CAS #: 540-36-3 | | |
| 17.585 | 17.585 (1.000) | 114 | 241949 | 5.00000 | | 80.00- 120.00 | | 100.00 |
| 17.585 | 17.585 (1.000) | 88 | 43139 | | | 0.00- 30.00 | | 17.83 |
| * 75 Chlorobenzene-d5 | | | | | | CAS #: 3114-55-4 | | |
| 22.927 | 22.927 (1.000) | 117 | 204131 | 5.00000 | | 80.00- 120.00 | | 100.00 |
| 22.903 | 22.903 (1.000) | 82 | 136789 | | | 0.00- 30.00 | | 67.01 |
| 190 1-Pentene | | | | | | CAS #: 109-67-1 | | |
| 11.536 | 11.536 (0.715) | 55 | 30326 | 2.50000 | 2.456 | 80.00- 120.00 | | 100.00 |
| 11.536 | 11.536 (0.715) | 42 | 30636 | | | 0.00- 30.00 | | 101.02 |

| RT | EXP RT (REL RT) | MASS | RESPONSE | AMOUNTS CAL-AMT ( PPBV) | ON-COL ( PPBV) | TARGET RANGE | RATIO |
|---|---|---|---|---|---|---|---|
| 27 Methyl Acetate | | | | | CAS #: 79-20-9 | | |
| 13.630 | 13.630 (0.845) | 43 | 54442 | 2.50000 | 2.520 | 80.00- 120.00 | 100.00 |
| 13.630 | 13.630 (0.845) | 74 | 20473 | | | 0.00- 30.00 | 37.61 |
| 13.630 | 13.630 (0.845) | 59 | 6965 | | | 0.00- 30.00 | 12.79 |
| 191 Cyclopentane | | | | | CAS #: 287-92-3 | | |
| 13.795 | 13.795 (0.855) | 70 | 38108 | 2.20000 | 2.339 | 80.00- 120.00 | 100.00 |
| 13.795 | 13.795 (0.855) | 55 | 34663 | | | 0.00- 30.00 | 90.96 |
| 28 Acetonitrile | | | | | CAS #: 75-05-8 | | |
| 13.713 | 13.713 (0.850) | 41 | 22505 | 2.50000 | 2.402 | 80.00- 120.00 | 100.00 |
| 13.713 | 13.713 (0.850) | 40 | 12375 | | | 0.00- 30.00 | 54.99 |
| 13.713 | 13.713 (0.850) | 39 | 4804 | | | 0.00- 30.00 | 21.35 |
| 33 Acrylonitrile | | | | | CAS #: 107-13-1 | | |
| 14.352 | 14.352 (0.890) | 53 | 27250 | 2.50000 | 2.635 | 80.00- 120.00 | 100.00(M) |
| 14.352 | 14.352 (0.890) | 52 | 21730 | | | 0.00- 30.00 | 79.74 |
| 192 1-Hexene | | | | | CAS #: 592-41-6 | | |
| 14.434 | 14.434 (0.895) | 55 | 24145 | 2.50000 | 2.428 | 80.00- 120.00 | 100.00 |
| 14.434 | 14.434 (0.895) | 41 | 35887 | | | 0.00- 30.00 | 148.63 |
| 14.434 | 14.434 (0.895) | 84 | 15405 | | | 0.00- 30.00 | 63.80 |
| 39 Chlorprene | | | | | CAS #: 126-99-8 | | |
| 15.011 | 15.011 (0.931) | 53 | 51891 | 2.50000 | 2.443 | 80.00- 120.00 | 100.00 |
| 15.011 | 15.011 (0.931) | 88 | 34195 | | | 0.00- 30.00 | 65.90 |
| 193 Methyl Acrylate | | | | | CAS #: 96-33-3 | | |
| 15.849 | 15.849 (0.983) | 55 | 87085 | 2.50000 | 2.564 | 80.00- 120.00 | 100.00 |
| 15.849 | 15.849 (0.983) | 85 | 14705 | | | 0.00- 30.00 | 16.89 |
| 15.849 | 15.849 (0.983) | 58 | 6025 | | | 0.00- 30.00 | 6.92 |
| 194 Ethyl Acrylate | | | | | CAS #: 140-88-5 | | |
| 18.052 | 18.052 (1.119) | 99 | 7576 | 2.50000 | 2.348 | 80.00- 120.00 | 100.00 |
| 18.052 | 18.052 (1.119) | 45 | 6006 | | | 0.00- 30.00 | 79.28 |
| 18.052 | 18.052 (1.119) | 55 | 79593 | | | 0.00- 30.00 | 1050.59 |
| 95 Dibromomethane | | | | | CAS #: 74-95-3 | | |
| 18.739 | 18.739 (1.066) | 174 | 65225 | 2.50000 | 2.466 | 80.00- 120.00 | 100.00 |
| 18.739 | 18.739 (1.066) | 93 | 78098 | | | 0.00- 30.00 | 119.74 |
| 18.739 | 18.739 (1.066) | 95 | 65149 | | | 0.00- 30.00 | 99.88 |
| 195 trans-1,4-dichloro-2-butene | | | | | CAS #: 110-57-6 | | |
| 24.758 | 24.758 (1.080) | 89 | 33428 | 2.50000 | 2.492 | 80.00- 120.00 | 100.00 |
| 24.758 | 24.758 (1.080) | 75 | 55238 | | | 0.00- 30.00 | 165.24 |
| 24.758 | 24.758 (1.080) | 53 | 41262 | | | 0.00- 30.00 | 123.44 |

| RT | EXP RT (REL RT) | MASS | RESPONSE | AMOUNTS CAL-AMT ( PPBV) | ON-COL ( PPBV) | TARGET RANGE | RATIO |
|---|---|---|---|---|---|---|---|
| 109 Hexachloroethane | | | | | CAS #: 67-72-1 | | |
| 26.598 | 26.598 (1.160) | 201 | 61276 | 2.50000 | 2.442 | 80.00- 120.00 | 100.00 |
| 26.598 | 26.598 (1.160) | 117 | 98922 | | | 0.00- 30.00 | 161.44 |
| 26.598 | 26.598 (1.160) | 166 | 57575 | | | 0.00- 30.00 | 93.96 |
| 111 1,3,5-Trichlorobenzene | | | | | CAS #: 108-70-3 | | |
| 27.383 | 27.383 (1.194) | 180 | 88849 | 2.50000 | 2.447 | 80.00- 120.00 | 100.00 |
| 27.383 | 27.383 (1.194) | 182 | 85461 | | | 0.00- 30.00 | 96.19 |

QC Flag Legend

M - Compound response manually integrated.

Report Date: 17-Mar-2012 10:11

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msde.i
Lab File ID: e031523.d
Lab Smp Id: ICAL
Analysis Type: VOA
Quant Type: ISTD
Operator: sac
Method File: /chem/msde.i/15Mar2012.b/e12l0308c.m
Misc Info: 1.0ppbv (5.0ppbv) -- AT2

Calibration Date: 15-MAR-2012
Calibration Time: 23:43
Client Smp ID: Level 12
Level: LOW
Sample Type: AIR

| | | AREA LIMIT | | | |
|---|---|---|---|---|---|
| COMPOUND | STANDARD | LOWER | UPPER | SAMPLE | %DIFF |
| 46 Bromochloromethan | 61185 | 36711 | 85659 | 61185 | 0.00 |
| 58 1,4-Difluorobenze | 241949 | 145169 | 338729 | 241949 | 0.00 |
| 75 Chlorobenzene-d5 | 204131 | 122479 | 285783 | 204131 | 0.00 |

| | | RT LIMIT | | | |
|---|---|---|---|---|---|
| COMPOUND | STANDARD | LOWER | UPPER | SAMPLE | %DIFF |
| 46 Bromochloromethan | 16.13 | 15.80 | 16.46 | 16.13 | 0.00 |
| 58 1,4-Difluorobenze | 17.59 | 17.26 | 17.92 | 17.59 | 0.00 |
| 75 Chlorobenzene-d5 | 22.93 | 22.60 | 23.26 | 22.93 | 0.00 |

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Data File: /chem/msde.i/15Mar2012.b/e031523.d

Date : 15-MAR-2012 23:43

Client ID: Level 12

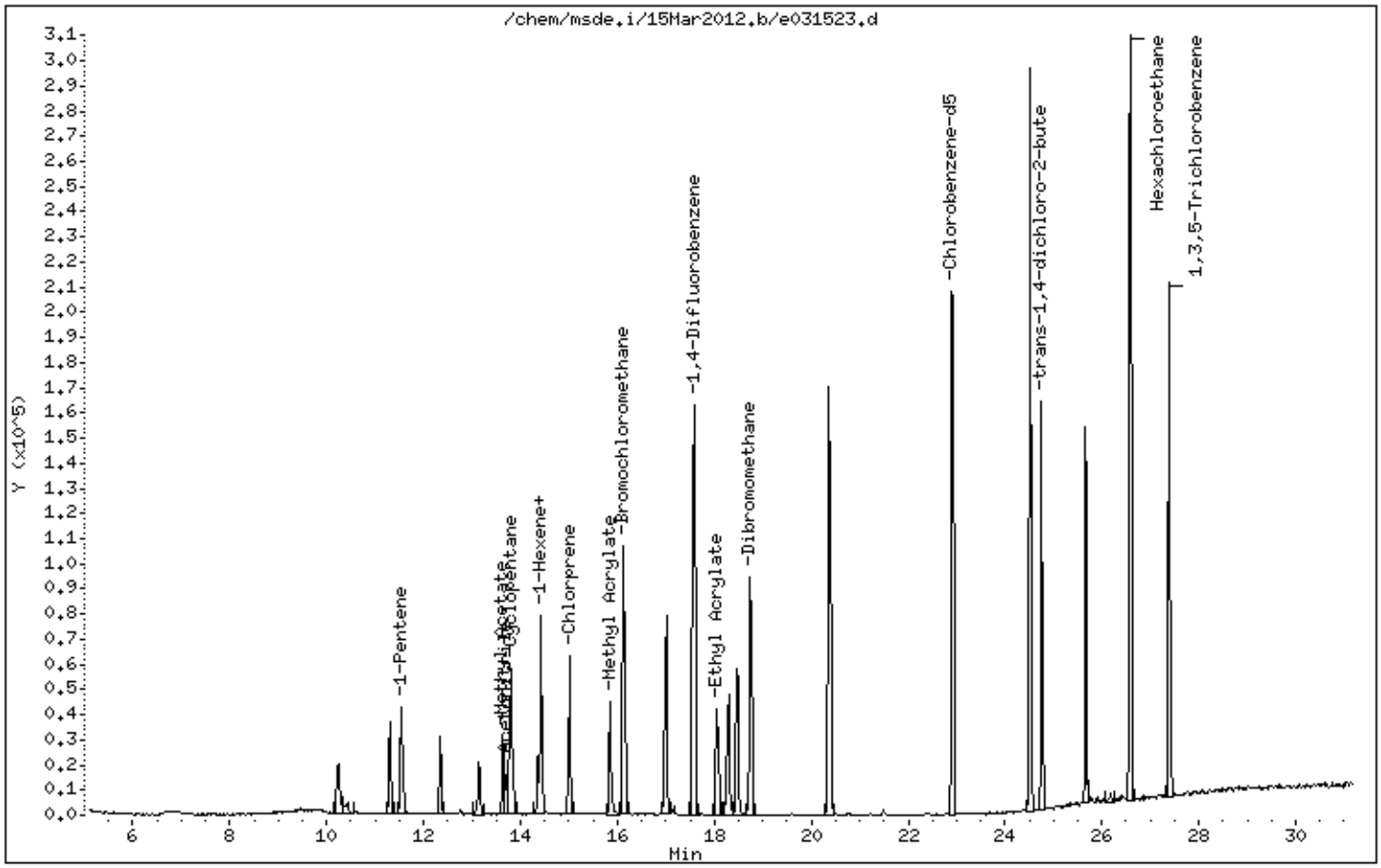
Instrument: msde.i

Sample Info: 125mL #2403-84

Operator: sac

Column phase: RTx-624

Column diameter: 0.32



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**Client Sample ID: CCV**

**Lab ID#: 1202444-05A**

**MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN**

| | | | |
|---|---|---|---|
| **File Name:** | **e031302** | **Date of Collection: NA** | |
| **Dil. Factor:** | **1.00** | **Date of Analysis: 3/13/12 09:39 AM** | |

| Compound | %Recovery |
|---|---|
| Freon 12 | 105 |
| Freon 114 | 101 |
| Chloromethane | 95 |
| Vinyl Chloride | 96 |
| 1,3-Butadiene | 94 |
| Bromomethane | 77 |
| Chloroethane | 98 |
| Freon 11 | 98 |
| Ethanol | 92 |
| Freon 113 | 96 |
| 1,1-Dichloroethene | 96 |
| Acetone | 96 |
| 2-Propanol | 98 |
| Carbon Disulfide | 92 |
| 3-Chloropropene | 97 |
| Methylene Chloride | 65 Q |
| Methyl tert-butyl ether | 107 |
| trans-1,2-Dichloroethene | 98 |
| Hexane | 104 |
| 1,1-Dichloroethane | 100 |
| 2-Butanone (Methyl Ethyl Ketone) | 101 |
| cis-1,2-Dichloroethene | 105 |
| Tetrahydrofuran | 99 |
| Chloroform | 101 |
| 1,1,1-Trichloroethane | 102 |
| Cyclohexane | 102 |
| Carbon Tetrachloride | 132 Q |
| 2,2,4-Trimethylpentane | 101 |
| Benzene | 97 |
| 1,2-Dichloroethane | 104 |
| Heptane | 110 |
| Trichloroethene | 98 |
| 1,2-Dichloropropane | 96 |
| 1,4-Dioxane | 109 |
| Bromodichloromethane | 105 |
| cis-1,3-Dichloropropene | 104 |
| 4-Methyl-2-pentanone | 115 |
| Toluene | 98 |
| trans-1,3-Dichloropropene | 118 |
| 1,1,2-Trichloroethane | 96 |
| Tetrachloroethene | 98 |
| 2-Hexanone | 104 |

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**Client Sample ID: CCV**

**Lab ID#: 1202444-05A**

**MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN**

| | | | |
|---|---|---|---|
| **File Name:** | **e031302** | **Date of Collection: NA** | |
| **Dil. Factor:** | **1.00** | **Date of Analysis: 3/13/12 09:39 AM** | |

| Compound | %Recovery |
|---|---|
| Dibromochloromethane | 112 |
| 1,2-Dibromoethane (EDB) | 103 |
| Chlorobenzene | 95 |
| Ethyl Benzene | 104 |
| m,p-Xylene | 108 |
| o-Xylene | 110 |
| Styrene | 112 |
| Bromoform | 117 |
| Cumene | 112 |
| 1,1,2,2-Tetrachloroethane | 97 |
| Propylbenzene | 108 |
| 4-Ethyltoluene | 110 |
| 1,3,5-Trimethylbenzene | 111 |
| 1,2,4-Trimethylbenzene | 116 |
| 1,3-Dichlorobenzene | 104 |
| 1,4-Dichlorobenzene | 104 |
| alpha-Chlorotoluene | 114 |
| 1,2-Dichlorobenzene | 104 |
| 1,2,4-Trichlorobenzene | 124 |
| Hexachlorobutadiene | 119 |
| 2,3-Dimethylpentane | 100 |
| 2-Methylpentane | 97 |
| Indene | 84 |
| Indan | 97 |
| Isopentane | 98 |
| Naphthalene | 128 |
| Thiophene | 93 |

Q = Exceeds Quality Control limits.

**Container Type: NA - Not Applicable**

| Surrogates | %Recovery | Method Limits |
|---|---|---|
| 1,2-Dichloroethane-d4 | 106 | 70-130 |
| Toluene-d8 | 101 | 70-130 |
| 4-Bromofluorobenzene | 103 | 70-130 |

Report Date: 13-Mar-2012 12:37

Air Toxics Ltd.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: msde.i Injection Date: 13-MAR-2012 09:39
Lab File ID: e031302.d Init. Cal. Date(s): 08-MAR-2012 10-MAR-2012
Analysis Type: AIR Init. Cal. Times: 18:33 19:22
Lab Sample ID: CCV Quant Type: ISTD
Method: /chem/msde.i/13Mar2012.b/e12l0308b.m

| COMPOUND | RRF / AMOUNT | RF10 | MIN RRF | %D / %DRIFT | MAX %D / %DRIFT | CURVE TYPE | |
|---|---|---|---|---|---|---|---|
|$ 54 1,2-Dichloroethane-d4 | 1.86326 | 1.96972 | 0.010 | -5.71341 | 30.00000 | Averaged | |
|$ 67 Toluene-d8 | 1.00712 | 1.01976 | 0.010 | -1.25581 | 30.00000 | Averaged | |
|$ 87 Bromofluorobenzene | 0.57198 | 0.59139 | 0.010 | -3.39393 | 30.00000 | Averaged | |
| 2 Propylene | 0.79701 | 0.76717 | 0.010 | 3.74454 | 30.00000 | Averaged | |
| 4 Dichlorodifluoromethane/Fr1 | 5.84293 | 6.13278 | 0.010 | -4.96078 | 30.00000 | Averaged | |
| 6 Freon 114 | 3.03998 | 3.07239 | 0.010 | -1.06614 | 30.00000 | Averaged | |
| 7 Chloromethane | 0.86355 | 0.82031 | 0.010 | 5.00716 | 30.00000 | Averaged | |
| 9 Butane | 0.29719 | 0.32248 | 0.010 | -8.51028 | 30.00000 | Averaged | |
| 10 Vinyl Chloride | 1.36299 | 1.31577 | 0.010 | 3.46420 | 30.00000 | Averaged | |
| 11 1,3-Butadiene | 0.85666 | 0.80975 | 0.010 | 5.47558 | 30.00000 | Averaged | |
| 12 Bromomethane | 1.50702 | 1.15646 | 0.010 | 23.26168 | 30.00000 | Averaged | |
| 13 Chloroethane | 0.72626 | 0.71043 | 0.010 | 2.17958 | 30.00000 | Averaged | |
| 14 Isopentane | 0.91729 | 0.89606 | 0.010 | 2.31469 | 30.00000 | Averaged | |
| 16 Trichlorofluoromethane/Fr11 | 6.16189 | 6.03606 | 0.010 | 2.04203 | 30.00000 | Averaged | |
| 18 Ethanol | 0.32170 | 0.29554 | 0.010 | 8.13237 | 30.00000 | Averaged | |
| 21 1,1-Dichloroethene | 0.88609 | 0.85467 | 0.010 | 3.54684 | 30.00000 | Averaged | |
| 19 Freon 113 | 2.60566 | 2.49378 | 0.010 | 4.29379 | 30.00000 | Averaged | |
| 22 Acetone | 0.56508 | 0.54484 | 0.010 | 3.58292 | 30.00000 | Averaged | |
| 23 Carbon Disulfide | 3.71808 | 3.44159 | 0.010 | 7.43634 | 30.00000 | Averaged | |
| 26 3-Chloroprene | 0.54841 | 0.53390 | 0.010 | 2.64438 | 30.00000 | Averaged | |
| 25 2-Propanol | 1.52769 | 1.50582 | 0.010 | 1.43154 | 30.00000 | Averaged | |
| 29 Methylene Chloride | 0.69752 | 0.45454 | 0.010 | 34.83503 | 30.00000 | Averaged | <- |
| 30 tert-butyl alcohol | 1.44848 | 1.43909 | 0.010 | 0.64827 | 30.00000 | Averaged | |
| 31 MTBE | 4.49322 | 4.81110 | 0.010 | -7.07473 | 30.00000 | Averaged | |
| 32 trans-1,2-Dichloroethene | 0.94921 | 0.93510 | 0.010 | 1.48702 | 30.00000 | Averaged | |
| 35 Hexane | 1.62919 | 1.69121 | 0.010 | -3.80700 | 30.00000 | Averaged | |
| 36 Isopropyl ether | 1.76676 | 1.73951 | 0.010 | 1.54257 | 30.00000 | Averaged | |
| 37 1,1-Dichloroethane | 2.68292 | 2.67941 | 0.010 | 0.13072 | 30.00000 | Averaged | |
| 38 Vinyl Acetate | 0.39637 | 0.39768 | 0.010 | -0.33167 | 30.00000 | Averaged | |
| 40 Ethyl-tert-butyl ether | 2.46045 | 2.50468 | 0.010 | -1.79777 | 30.00000 | Averaged | |
| 41 cis-1,2-Dichloroethene | 1.42716 | 1.49783 | 0.010 | -4.95231 | 30.00000 | Averaged | |
| 42 2-Butanone | 1.02444 | 1.03955 | 0.010 | -1.47441 | 30.00000 | Averaged | |
| 44 Tetrahydrofuran | 1.02128 | 1.00847 | 0.010 | 1.25501 | 30.00000 | Averaged | |
| 47 Chloroform | 4.10691 | 4.14442 | 0.010 | -0.91346 | 30.00000 | Averaged | |
| 48 Cyclohexane | 2.19290 | 2.23987 | 0.010 | -2.14229 | 30.00000 | Averaged | |
| 49 1,1,1-Trichloroethane | 4.69304 | 4.80731 | 0.010 | -2.43492 | 30.00000 | Averaged | |

Air Toxics Ltd.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: msde.i Injection Date: 13-MAR-2012 09:39
Lab File ID: e031302.d Init. Cal. Date(s): 08-MAR-2012 10-MAR-2012
Analysis Type: AIR Init. Cal. Times: 18:33 19:22
Lab Sample ID: CCV Quant Type: ISTD
Method: /chem/msde.i/13Mar2012.b/e12l0308b.m

| COMPOUND | RRF / AMOUNT | RF10 | MIN RRF | %D / %DRIFT | MAX %D / %DRIFT | CURVE TYPE | |
|---|---|---|---|---|---|---|---|
| 51 Carbon Tetrachloride | 3.51149 | 4.62302 | 0.010 | -31.65412 | 30.00000 | Averaged | <- |
| 52 2,2,4-Trimethylpentane | 2.51204 | 2.54268 | 0.010 | -1.21938 | 30.00000 | Averaged | |
| 53 Benzene | 1.28260 | 1.24642 | 0.010 | 2.82049 | 30.00000 | Averaged | |
| 55 tert-amyl methyl ether | 0.18904 | 0.20201 | 0.010 | -6.86486 | 30.00000 | Averaged | |
| 56 1,2-Dichloroethane | 0.72324 | 0.75641 | 0.010 | -4.58580 | 30.00000 | Averaged | |
| 57 Heptane | 0.26510 | 0.29080 | 0.010 | -9.69463 | 30.00000 | Averaged | |
| 59 Trichloroethene | 0.56646 | 0.55234 | 0.010 | 2.49372 | 30.00000 | Averaged | |
| 60 Methylcyclohexane | 0.73175 | 0.76767 | 0.010 | -4.90797 | 30.00000 | Averaged | |
| 61 1,2-Dichloropropane | 0.39434 | 0.38041 | 0.010 | 3.53287 | 30.00000 | Averaged | |
| 62 1,4-Dioxane | 0.28123 | 0.30553 | 0.010 | -8.64078 | 30.00000 | Averaged | |
| 63 Bromodichloromethane | 1.10157 | 1.15935 | 0.010 | -5.24564 | 30.00000 | Averaged | |
| 64 cis-1,3-Dichloropropene | 0.68242 | 0.70640 | 0.010 | -3.51314 | 30.00000 | Averaged | |
| 65 4-Methyl-2-pentanone | 0.50969 | 0.58620 | 0.010 | -15.01019 | 30.00000 | Averaged | |
| 68 Toluene | 1.53051 | 1.50628 | 0.010 | 1.58300 | 30.00000 | Averaged | |
| 69 trans-1,3-Dichloropropene | 1.07223 | 1.26382 | 0.010 | -17.86889 | 30.00000 | Averaged | |
| 70 1,1,2-Trichloroethane | 0.64599 | 0.62033 | 0.010 | 3.97128 | 30.00000 | Averaged | |
| 71 Tetrachloroethene | 0.74985 | 0.73141 | 0.010 | 2.45827 | 30.00000 | Averaged | |
| 72 2-Hexanone | 0.40884 | 0.42657 | 0.010 | -4.33603 | 30.00000 | Averaged | |
| 73 Dibromochloromethane | 1.09912 | 1.22671 | 0.010 | -11.60793 | 30.00000 | Averaged | |
| 74 1,2-Dibromoethane | 0.99085 | 1.02340 | 0.010 | -3.28523 | 30.00000 | Averaged | |
| 76 Chlorobenzene | 1.42498 | 1.35488 | 0.010 | 4.91931 | 30.00000 | Averaged | |
| 77 Ethyl Benzene | 0.69620 | 0.72166 | 0.010 | -3.65646 | 30.00000 | Averaged | |
| 80 m,p-Xylene | 0.83768 | 0.90111 | 0.010 | -7.57254 | 30.00000 | Averaged | |
| 81 o-Xylene | 0.80532 | 0.88681 | 0.010 | -10.11933 | 30.00000 | Averaged | |
| 83 Styrene | 1.21563 | 1.35934 | 0.010 | -11.82219 | 30.00000 | Averaged | |
| 84 Bromoform | 0.95023 | 1.10798 | 0.010 | -16.60120 | 30.00000 | Averaged | |
| 85 Cumene | 2.60750 | 2.93149 | 0.010 | -12.42525 | 30.00000 | Averaged | |
| 89 1,1,2,2-Tetrachloroethane | 1.34761 | 1.30992 | 0.010 | 2.79713 | 30.00000 | Averaged | |
| 90 Propylbenzene | 3.33993 | 3.60671 | 0.010 | -7.98755 | 30.00000 | Averaged | |
| 92 4-Ethyltoluene | 2.86793 | 3.15897 | 0.010 | -10.14803 | 30.00000 | Averaged | |
| 94 1,3,5-Trimethylbenzene | 2.46856 | 2.74567 | 0.010 | -11.22566 | 30.00000 | Averaged | |
| 98 1,2,4-Trimethylbenzene | 2.17315 | 2.52826 | 0.010 | -16.34086 | 30.00000 | Averaged | |
| 101 1,3-Dichlorobenzene | 1.37755 | 1.43835 | 0.010 | -4.41382 | 30.00000 | Averaged | |
| 104 1,4-Dichlorobenzene | 1.37834 | 1.43562 | 0.010 | -4.15594 | 30.00000 | Averaged | |
| 105 alpha-chlorotoluene | 2.09945 | 2.40343 | 0.010 | -14.47946 | 30.00000 | Averaged | |

Air Toxics Ltd.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: msde.i Injection Date: 13-MAR-2012 09:39
Lab File ID: e031302.d Init. Cal. Date(s): 08-MAR-2012 10-MAR-2012
Analysis Type: AIR Init. Cal. Times: 18:33 19:22
Lab Sample ID: CCV Quant Type: ISTD
Method: /chem/msde.i/13Mar2012.b/e12l0308b.m

| COMPOUND | RRF / AMOUNT | RF10 | MIN RRF | %D / %DRIFT | MAX %D / %DRIFT | CURVE TYPE |
|---|---|---|---|---|---|---|
| 108 1,2-Dichlorobenzene | 1.30689 | 1.35637 | 0.010 | -3.78565 | 30.00000 | Averaged |
| 112 1,2,4-Trichlorobenzene | 0.85425 | 1.05928 | 0.010 | -24.00114 | 30.00000 | Averaged |
| 113 Hexachlorobutadiene | 0.76324 | 0.91160 | 0.010 | -19.43906 | 30.00000 | Averaged |
| 114 Naphthalene | 1.81893 | 2.32194 | 0.010 | -27.65449 | 40.00000 | Averaged |

Air Toxics Ltd.

EPA TO-15/Modified TO14A

Data file : /chem/msde.i/13Mar2012.b/e031302.d
Lab Smp Id: CCV Client Smp ID: CCV
Inj Date : 13-MAR-2012 09:39
Operator : ll Inst ID: msde.i
Smp Info : 50mL #2370-196
Misc Info : 10ppbv (50ppbv)
Comment : Low-Level/GC-MS
Method : /chem/msde.i/13Mar2012.b/e12l0308b.m
Meth Date : 13-Mar-2012 12:37 llarson Quant Type: ISTD
Cal Date : 10-MAR-2012 19:22 Cal File: e031014.d
Als bottle: 8 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AT09.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

| Name | Value | Description |
|---|---|---|
| DF | 1.00000 | Dilution Factor |

| | | | | | AMOUNTS | | | |
|---|---|---|---|---|---|---|---|---|
| | | | | CAL-AMT | ON-COL | | | |
| RT | EXP RT (REL RT) | MASS | RESPONSE | ( PPBV) | ( PPBV) | TARGET RANGE | | RATIO |
| == | ====== ======== | ==== | ======== | ======= | ======= | ========== | | ===== |
| * 46 Bromochloromethane | | | | | | CAS #: 74-97-5 | | |
| 16.128 | 16.128 (1.000) | 130 | 78956 | 5.00000 | | 80.00- 120.00 | | 100.00 |
| 16.128 | 16.128 (1.000) | 128 | 58642 | | | 0.00- 30.00 | | 74.27 |
| 16.128 | 16.128 (1.000) | 49 | 116195 | | | 0.00- 30.00 | | 147.16 |
| * 58 1,4-Difluorobenzene | | | | | | CAS #: 540-36-3 | | |
| 17.586 | 17.586 (1.000) | 114 | 299545 | 5.00000 | | 80.00- 120.00 | | 100.00 |
| 17.586 | 17.586 (1.000) | 88 | 52855 | | | 0.00- 30.00 | | 17.65 |
| * 75 Chlorobenzene-d5 | | | | | | CAS #: 3114-55-4 | | |
| 22.927 | 22.927 (1.000) | 117 | 258990 | 5.00000 | | 80.00- 120.00 | | 100.00 |
| 22.927 | 22.927 (1.000) | 82 | 172980 | | | 0.00- 30.00 | | 66.79 |
| $ 54 1,2-Dichloroethane-d4 | | | | | | CAS #: 17060-07-0 | | |
| 17.013 | 17.013 (1.055) | 65 | 155521 | 5.00000 | 5.286 | 80.00- 120.00 | | 100.00 |
| 17.013 | 17.013 (1.055) | 67 | 79312 | | | 0.00- 30.00 | | 51.00 |

| RT | EXP RT (REL RT) | MASS | RESPONSE | AMOUNTS CAL-AMT ( PPBV) | ON-COL ( PPBV) | TARGET RANGE | RATIO |
|---|---|---|---|---|---|---|---|
| $ 67 Toluene-d8 | | | | | CAS #: 2037-26-5 | | |
| 20.368 | 20.368 (1.158) | 98 | 305465 | 5.00000 | 5.063 | 80.00- 120.00 | 100.00 |
| 20.368 | 20.368 (1.158) | 70 | 38812 | | | 0.00- 30.00 | 12.71 |
| 20.368 | 20.368 (1.158) | 100 | 193925 | | | 33.49- 93.49 | 63.49 |
| $ 87 Bromofluorobenzene | | | | | CAS #: 460-00-4 | | |
| 24.526 | 24.526 (1.070) | 174 | 153165 | 5.00000 | 5.170 | 80.00- 120.00 | 100.00 |
| 24.526 | 24.526 (1.070) | 95 | 249790 | | | 133.09- 193.09 | 163.09 |
| 24.526 | 24.526 (1.070) | 176 | 147374 | | | 66.22- 126.22 | 96.22 |
| 2 Propylene | | | | | CAS #: 115-07-1 | | |
| 5.449 | 5.449 (0.338) | 41 | 121145 | 10.0000 | 9.626 | 80.00- 120.00 | 100.00 |
| 5.449 | 5.449 (0.338) | 42 | 82553 | | | 0.00- 30.00 | 68.14 |
| 5.449 | 5.449 (0.338) | 39 | 109587 | | | 0.00- 30.00 | 90.46 |
| 4 Dichlorodifluoromethane/Fr12 | | | | | CAS #: 75-71-8 | | |
| 5.931 | 5.931 (0.368) | 85 | 968440 | 10.0000 | 10.496 | 80.00- 120.00 | 100.00 |
| 5.931 | 5.931 (0.368) | 87 | 311813 | | | 2.20- 62.20 | 32.20 |
| 6 Freon 114 | | | | | CAS #: 76-14-2 | | |
| 7.305 | 7.305 (0.453) | 135 | 485167 | 10.0000 | 10.107 | 80.00- 120.00 | 100.00 |
| 7.305 | 7.305 (0.453) | 137 | 151249 | | | 0.00- 30.00 | 31.17 |
| 7 Chloromethane | | | | | CAS #: 74-87-3 | | |
| 7.667 | 7.667 (0.475) | 50 | 129537 | 10.0000 | 9.499 | 80.00- 120.00 | 100.00 |
| 7.667 | 7.667 (0.475) | 52 | 43258 | | | 0.00- 30.00 | 33.39 |
| 9 Butane | | | | | CAS #: 106-97-8 | | |
| 8.387 | 8.387 (0.520) | 58 | 50924 | 10.0000 | 10.851 | 80.00- 120.00 | 100.00 |
| 8.387 | 8.387 (0.520) | 43 | 265533 | | | 0.00- 30.00 | 521.43 |
| 10 Vinyl Chloride | | | | | CAS #: 75-01-4 | | |
| 8.526 | 8.526 (0.529) | 62 | 207776 | 10.0000 | 9.654 | 80.00- 120.00 | 100.00 |
| 8.526 | 8.526 (0.529) | 64 | 65181 | | | 1.37- 61.37 | 31.37 |
| 11 1,3-Butadiene | | | | | CAS #: 106-99-0 | | |
| 8.769 | 8.769 (0.544) | 54 | 127870 | 10.0000 | 9.452 | 80.00- 120.00 | 100.00 |
| 8.769 | 8.769 (0.544) | 39 | 125218 | | | 0.00- 30.00 | 97.93 |
| 12 Bromomethane | | | | | CAS #: 74-83-9 | | |
| 10.251 | 10.251 (0.636) | 94 | 182619 | 10.0000 | 7.674 | 80.00- 120.00 | 100.00 |
| 10.251 | 10.251 (0.636) | 96 | 172009 | | | 64.19- 124.19 | 94.19 |
| 13 Chloroethane | | | | | CAS #: 75-00-3 | | |
| 10.707 | 10.707 (0.664) | 64 | 112185 | 10.0000 | 9.782 | 80.00- 120.00 | 100.00 |
| 10.707 | 10.707 (0.664) | 49 | 24324 | | | 0.00- 30.00 | 21.68 |

| RT | EXP RT (REL RT) | MASS | RESPONSE | AMOUNTS CAL-AMT ( PPBV) | ON-COL ( PPBV) | TARGET RANGE | RATIO |
|---|---|---|---|---|---|---|---|
| 13 Chloroethane (continued) | | | | | | | |
| 10.707 | 10.707 (0.664) | 66 | 38155 | | | 0.00- 30.00 | 34.01 |
| 14 Isopentane | | | | | CAS #: 78-78-4 | | |
| 10.852 | 10.852 (0.673) | 57 | 141499 | 10.0000 | 9.768 | 80.00- 120.00 | 100.00 |
| 10.852 | 10.852 (0.673) | 43 | 151495 | | | 0.00- 30.00 | 107.06 |
| 10.852 | 10.852 (0.673) | 42 | 128918 | | | 0.00- 30.00 | 91.11 |
| 16 Trichlorofluoromethane/Fr11 | | | | | CAS #: 75-69-4 | | |
| 11.474 | 11.474 (0.711) | 101 | 953166 | 10.0000 | 9.796 | 80.00- 120.00 | 100.00 |
| 11.474 | 11.474 (0.711) | 103 | 624517 | | | 35.52- 95.52 | 65.52 |
| 18 Ethanol | | | | | CAS #: 64-17-5 | | |
| 12.303 | 12.303 (0.763) | 45 | 46669 | 10.0000 | 9.187 | 80.00- 120.00 | 100.00 |
| 12.303 | 12.303 (0.763) | 46 | 18796 | | | 0.00- 30.00 | 40.28 |
| 12.324 | 12.324 (0.764) | 43 | 14191 | | | 0.00- 30.00 | 30.41 |
| 21 1,1-Dichloroethene | | | | | CAS #: 75-35-4 | | |
| 12.821 | 12.821 (0.795) | 98 | 134962 | 10.0000 | 9.645 | 80.00- 120.00 | 100.00 |
| 12.801 | 12.801 (0.794) | 61 | 358675 | | | 0.00- 30.00 | 265.76 |
| 12.821 | 12.821 (0.795) | 96 | 212184 | | | 0.00- 30.00 | 157.22 |
| 19 Freon 113 | | | | | CAS #: 76-13-1 | | |
| 12.780 | 12.780 (0.792) | 151 | 393798 | 10.0000 | 9.571 | 80.00- 120.00 | 100.00 |
| 12.780 | 12.780 (0.792) | 153 | 255086 | | | 34.78- 94.78 | 64.78 |
| 12.780 | 12.780 (0.792) | 101 | 543330 | | | 0.00- 30.00 | 137.97 |
| 22 Acetone | | | | | CAS #: 67-64-1 | | |
| 13.070 | 13.070 (0.810) | 58 | 86036 | 10.0000 | 9.642 | 80.00- 120.00 | 100.00 |
| 13.070 | 13.070 (0.810) | 43 | 293317 | | | 0.00- 30.00 | 340.92 |
| 23 Carbon Disulfide | | | | | CAS #: 75-15-0 | | |
| 13.174 | 13.174 (0.817) | 76 | 543469 | 10.0000 | 9.256 | 80.00- 120.00 | 100.00 |
| 26 3-Chloroprene | | | | | CAS #: 107-05-1 | | |
| 13.588 | 13.588 (0.843) | 76 | 84310 | 10.0000 | 9.736 | 80.00- 120.00 | 100.00 |
| 13.588 | 13.588 (0.843) | 41 | 140192 | | | 0.00- 30.00 | 166.28 |
| 25 2-Propanol | | | | | CAS #: 67-63-0 | | |
| 13.360 | 13.360 (0.828) | 45 | 237787 | 10.0000 | 9.857 | 80.00- 120.00 | 100.00 |
| 13.360 | 13.360 (0.828) | 43 | 71910 | | | 0.00- 30.00 | 30.24 |
| 13.360 | 13.360 (0.828) | 59 | 10943 | | | 0.00- 30.00 | 4.60 |
| 29 Methylene Chloride | | | | | CAS #: 75-09-2 | | |
| 13.885 | 13.885 (0.861) | 84 | 71777 | 10.0000 | 6.516 | 80.00- 120.00 | 100.00 |
| 13.885 | 13.885 (0.861) | 49 | 52365 | | | 0.00- 30.00 | 72.96 |

| RT | EXP RT (REL RT) | MASS | RESPONSE | AMOUNTS CAL-AMT ( PPBV) | ON-COL ( PPBV) | TARGET RANGE | RATIO |
|---|---|---|---|---|---|---|---|
| 29 Methylene Chloride (continued) | | | | | | | |
| 13.885 | 13.885 (0.861) | 51 | 17762 | | | 0.00- 30.00 | 24.75 |
| 30 tert-butyl alcohol | | | | | CAS #: 75-65-0 | | |
| 14.023 | 14.023 (0.869) | 59 | 227249 | 10.0000 | 9.935 | 80.00- 120.00 | 100.00 |
| 14.023 | 14.023 (0.869) | 41 | 50016 | | | 0.00- 30.00 | 22.01 |
| 14.023 | 14.023 (0.869) | 57 | 25340 | | | 0.00- 30.00 | 11.15 |
| 31 MTBE | | | | | CAS #: 1634-04-4 | | |
| 14.187 | 14.187 (0.880) | 73 | 759731 | 10.0000 | 10.707 | 80.00- 120.00 | 100.00 |
| 14.187 | 14.187 (0.880) | 57 | 119729 | | | 0.00- 30.00 | 15.76 |
| 14.187 | 14.187 (0.880) | 41 | 121149 | | | 0.00- 30.00 | 15.95 |
| 32 trans-1,2-Dichloroethene | | | | | CAS #: 156-60-5 | | |
| 14.242 | 14.242 (0.883) | 98 | 147663 | 10.0000 | 9.851 | 80.00- 120.00 | 100.00 |
| 14.242 | 14.242 (0.883) | 61 | 312856 | | | 0.00- 30.00 | 211.87 |
| 14.242 | 14.242 (0.883) | 96 | 227175 | | | 0.00- 30.00 | 153.85 |
| 35 Hexane | | | | | CAS #: 110-54-3 | | |
| 14.517 | 14.517 (0.900) | 57 | 267063 | 10.0000 | 10.381 | 80.00- 120.00 | 100.00 |
| 14.517 | 14.517 (0.900) | 43 | 135401 | | | 0.00- 30.00 | 50.70 |
| 14.544 | 14.544 (0.902) | 86 | 68523 | | | 0.00- 30.00 | 25.66 |
| 36 Isopropyl ether | | | | | CAS #: 108-20-3 | | |
| 14.874 | 14.874 (0.922) | 45 | 274689 | 10.0000 | 9.846 | 80.00- 120.00 | 100.00 |
| 14.874 | 14.874 (0.922) | 87 | 133750 | | | 0.00- 30.00 | 48.69 |
| 14.874 | 14.874 (0.922) | 59 | 42347 | | | 0.00- 30.00 | 15.42 |
| 37 1,1-Dichloroethane | | | | | CAS #: 75-34-3 | | |
| 14.929 | 14.929 (0.926) | 63 | 423111 | 10.0000 | 9.987 | 80.00- 120.00 | 100.00 |
| 14.929 | 14.929 (0.926) | 65 | 136542 | | | 0.00- 30.00 | 32.27 |
| 38 Vinyl Acetate | | | | | CAS #: 108-05-4 | | |
| 14.956 | 14.956 (0.927) | 86 | 62799 | 10.0000 | 10.033 | 80.00- 120.00 | 100.00 |
| 14.956 | 14.956 (0.927) | 42 | 44657 | | | 0.00- 30.00 | 71.11 |
| 14.956 | 14.956 (0.927) | 43 | 420531 | | | 0.00- 30.00 | 669.65 |
| 40 Ethyl-tert-butyl ether | | | | | CAS #: 637-92-3 | | |
| 15.368 | 15.368 (0.953) | 59 | 395519 | 10.0000 | 10.180 | 80.00- 120.00 | 100.00 |
| 15.368 | 15.368 (0.953) | 87 | 205527 | | | 0.00- 30.00 | 51.96 |
| 15.368 | 15.368 (0.953) | 41 | 68525 | | | 0.00- 30.00 | 17.33 |
| 41 cis-1,2-Dichloroethene | | | | | CAS #: 156-59-2 | | |
| 15.787 | 15.787 (0.979) | 98 | 236526 | 10.0000 | 10.495 | 80.00- 120.00 | 100.00 |
| 15.766 | 15.766 (0.978) | 61 | 452514 | | | 0.00- 30.00 | 191.32 |
| 15.787 | 15.787 (0.979) | 96 | 363213 | | | 123.56- 183.56 | 153.56 |

| RT | EXP RT (REL RT) | MASS | RESPONSE | AMOUNTS CAL-AMT ( PPBV) | ON-COL ( PPBV) | TARGET RANGE | RATIO |
|---|---|---|---|---|---|---|---|
| 42 2-Butanone | | | | | CAS #: 78-93-3 | | |
| 15.766 | 15.766 (0.978) | 72 | 164157 | 10.0000 | 10.147 | 80.00- 120.00 | 100.00 |
| 15.766 | 15.766 (0.978) | 43 | 416141 | | | 0.00- 30.00 | 253.50 |
| 15.766 | 15.766 (0.978) | 57 | 44193 | | | 0.00- 30.00 | 26.92 |
| 44 Tetrahydrofuran | | | | | CAS #: 109-99-9 | | |
| 16.128 | 16.128 (1.000) | 42 | 159249 | 10.0000 | 9.874 | 80.00- 120.00 | 100.00 |
| 16.128 | 16.128 (1.000) | 71 | 105521 | | | 0.00- 30.00 | 66.26 |
| 16.128 | 16.128 (1.000) | 72 | 118534 | | | 0.00- 30.00 | 74.43 |
| 47 Chloroform | | | | | CAS #: 67-66-3 | | |
| 16.189 | 16.189 (1.004) | 83 | 654454 | 10.0000 | 10.091 | 80.00- 120.00 | 100.00 |
| 16.189 | 16.189 (1.004) | 85 | 415486 | | | 0.00- 30.00 | 63.49 |
| 48 Cyclohexane | | | | | CAS #: 110-82-7 | | |
| 16.467 | 16.467 (1.021) | 84 | 353703 | 10.0000 | 10.214 | 80.00- 120.00 | 100.00 |
| 16.467 | 16.467 (1.021) | 56 | 283696 | | | 0.00- 30.00 | 80.21 |
| 16.467 | 16.467 (1.021) | 41 | 152392 | | | 0.00- 30.00 | 43.08 |
| 49 1,1,1-Trichloroethane | | | | | CAS #: 71-55-6 | | |
| 16.467 | 16.467 (1.021) | 97 | 759132 | 10.0000 | 10.243 | 80.00- 120.00 | 100.00 |
| 16.467 | 16.467 (1.021) | 99 | 487994 | | | 0.00- 30.00 | 64.28 |
| 51 Carbon Tetrachloride | | | | | CAS #: 56-23-5 | | |
| 16.652 | 16.652 (1.032) | 119 | 730030 | 10.0000 | 13.165 | 80.00- 120.00 | 100.00 |
| 16.652 | 16.652 (1.032) | 117 | 757405 | | | 0.00- 30.00 | 103.75 |
| 52 2,2,4-Trimethylpentane | | | | | CAS #: 540-84-1 | | |
| 16.926 | 16.926 (1.049) | 56 | 401519 | 10.0000 | 10.122 | 80.00- 120.00 | 100.00 |
| 16.926 | 16.926 (1.049) | 57 | 1169272 | | | 0.00- 30.00 | 291.21 |
| 16.926 | 16.926 (1.049) | 41 | 375112 | | | 0.00- 30.00 | 93.42 |
| 53 Benzene | | | | | CAS #: 71-43-2 | | |
| 17.013 | 17.013 (0.967) | 78 | 746718 | 10.0000 | 9.718 | 80.00- 120.00 | 100.00 |
| 17.013 | 17.013 (0.967) | 77 | 179342 | | | 0.00- 30.00 | 24.02 |
| 55 tert-amyl methyl ether | | | | | CAS #: 994-05-8 | | |
| 17.042 | 17.042 (0.969) | 87 | 121025 | 10.0000 | 10.686 | 80.00- 120.00 | 100.00 |
| 17.042 | 17.042 (0.969) | 73 | 472970 | | | 0.00- 30.00 | 390.80 |
| 17.042 | 17.042 (0.969) | 55 | 115097 | | | 0.00- 30.00 | 95.10 |
| 56 1,2-Dichloroethane | | | | | CAS #: 107-06-2 | | |
| 17.130 | 17.130 (0.974) | 62 | 453158 | 10.0000 | 10.458 | 80.00- 120.00 | 100.00 |
| 17.130 | 17.130 (0.974) | 64 | 148239 | | | 0.00- 30.00 | 32.71 |
| 57 Heptane | | | | | CAS #: 142-82-5 | | |
| 17.159 | 17.159 (0.976) | 57 | 174218 | 10.0000 | 10.969 | 80.00- 120.00 | 100.00 |

| RT | EXP RT (REL RT) | MASS | RESPONSE | AMOUNTS CAL-AMT ( PPBV) | ON-COL ( PPBV) | TARGET RANGE | RATIO |
|---|---|---|---|---|---|---|---|
| 57 Heptane (continued) | | | | | | | |
| 17.159 | 17.159 (0.976) | 100 | 110300 | | | 0.00- 30.00 | 63.31 |
| 17.159 | 17.159 (0.976) | 43 | 259705 | | | 0.00- 30.00 | 149.07 |
| 59 Trichloroethene | | | | | CAS #: 79-01-6 | | |
| 18.025 | 18.025 (1.025) | 130 | 330899 | 10.0000 | 9.751 | 80.00- 120.00 | 100.00 |
| 18.025 | 18.025 (1.025) | 95 | 383378 | | | 0.00- 30.00 | 115.86 |
| 18.025 | 18.025 (1.025) | 97 | 249155 | | | 0.00- 30.00 | 75.30 |
| 60 Methylcyclohexane | | | | | CAS #: 108-87-2 | | |
| 18.272 | 18.272 (1.039) | 83 | 459902 | 10.0000 | 10.491 | 80.00- 120.00 | 100.00 |
| 18.272 | 18.272 (1.039) | 55 | 284637 | | | 0.00- 30.00 | 61.89 |
| 18.272 | 18.272 (1.039) | 56 | 85989 | | | 0.00- 30.00 | 18.70 |
| 61 1,2-Dichloropropane | | | | | CAS #: 78-87-5 | | |
| 18.519 | 18.519 (1.053) | 63 | 227898 | 10.0000 | 9.647 | 80.00- 120.00 | 100.00 |
| 18.519 | 18.519 (1.053) | 62 | 154702 | | | 0.00- 30.00 | 67.88 |
| 18.492 | 18.492 (1.052) | 41 | 149334 | | | 35.53- 95.53 | 65.53 |
| 62 1,4-Dioxane | | | | | CAS #: 123-91-1 | | |
| 18.629 | 18.629 (1.059) | 88 | 183037 | 10.0000 | 10.864 | 80.00- 120.00 | 100.00 |
| 18.629 | 18.629 (1.059) | 58 | 101549 | | | 0.00- 30.00 | 55.48 |
| 18.629 | 18.629 (1.059) | 57 | 34607 | | | 0.00- 30.00 | 18.91 |
| 63 Bromodichloromethane | | | | | CAS #: 75-27-4 | | |
| 18.959 | 18.959 (1.078) | 83 | 694557 | 10.0000 | 10.524 | 80.00- 120.00 | 100.00 |
| 18.959 | 18.959 (1.078) | 85 | 433709 | | | 0.00- 30.00 | 62.44 |
| 64 cis-1,3-Dichloropropene | | | | | CAS #: 10061-01-5 | | |
| 19.865 | 19.865 (1.130) | 75 | 423196 | 10.0000 | 10.351 | 80.00- 120.00 | 100.00 |
| 19.865 | 19.865 (1.130) | 77 | 130409 | | | 0.00- 30.00 | 30.82 |
| 19.865 | 19.865 (1.130) | 39 | 181029 | | | 12.78- 72.78 | 42.78 |
| 65 4-Methyl-2-pentanone | | | | | CAS #: 108-10-1 | | |
| 20.077 | 20.077 (1.142) | 43 | 351184 | 10.0000 | 11.501 | 80.00- 120.00 | 100.00 |
| 20.077 | 20.077 (1.142) | 58 | 168321 | | | 0.00- 30.00 | 47.93 |
| 20.077 | 20.077 (1.142) | 85 | 102504 | | | 0.00- 30.00 | 29.19 |
| 68 Toluene | | | | | CAS #: 108-88-3 | | |
| 20.525 | 20.525 (1.167) | 91 | 902399 | 10.0000 | 9.842 | 80.00- 120.00 | 100.00 |
| 20.525 | 20.525 (1.167) | 92 | 537231 | | | 0.00- 30.00 | 59.53 |
| 69 trans-1,3-Dichloropropene | | | | | CAS #: 10061-02-6 | | |
| 20.995 | 20.995 (0.916) | 75 | 654636 | 10.0000 | 11.787 | 80.00- 120.00 | 100.00 |
| 20.995 | 20.995 (0.916) | 77 | 203416 | | | 0.00- 30.00 | 31.07 |
| 20.995 | 20.995 (0.916) | 39 | 178014 | | | 0.00- 57.19 | 27.19 |

| RT | EXP RT (REL RT) | MASS | RESPONSE | AMOUNTS CAL-AMT ( PPBV) | ON-COL ( PPBV) | TARGET RANGE | RATIO |
|---|---|---|---|---|---|---|---|
| 70 1,1,2-Trichloroethane | | | | | CAS #: 79-00-5 | | |
| 21.335 | 21.335 (0.931) | 97 | 321320 | 10.0000 | 9.603 | 80.00- 120.00 | 100.00 |
| 21.335 | 21.335 (0.931) | 99 | 201825 | | | 0.00- 30.00 | 62.81 |
| 21.335 | 21.335 (0.931) | 83 | 273004 | | | 54.96- 114.96 | 84.96 |
| 71 Tetrachloroethene | | | | | CAS #: 127-18-4 | | |
| 21.498 | 21.498 (0.938) | 166 | 378857 | 10.0000 | 9.754 | 80.00- 120.00 | 100.00 |
| 21.498 | 21.498 (0.938) | 129 | 338389 | | | 0.00- 30.00 | 89.32 |
| 21.498 | 21.498 (0.938) | 131 | 323605 | | | 0.00- 30.00 | 85.42 |
| 72 2-Hexanone | | | | | CAS #: 591-78-6 | | |
| 21.660 | 21.660 (0.945) | 58 | 220953 | 10.0000 | 10.434 | 80.00- 120.00 | 100.00 |
| 21.660 | 21.660 (0.945) | 43 | 345724 | | | 0.00- 30.00 | 156.47 |
| 21.660 | 21.660 (0.945) | 100 | 65523 | | | 0.00- 30.00 | 29.65 |
| 73 Dibromochloromethane | | | | | CAS #: 124-48-1 | | |
| 22.018 | 22.018 (0.960) | 129 | 635409 | 10.0000 | 11.161 | 80.00- 120.00 | 100.00 |
| 22.018 | 22.018 (0.960) | 127 | 488116 | | | 0.00- 30.00 | 76.82 |
| 74 1,2-Dibromoethane | | | | | CAS #: 106-93-4 | | |
| 22.278 | 22.278 (0.972) | 107 | 530103 | 10.0000 | 10.328 | 80.00- 120.00 | 100.00 |
| 22.278 | 22.278 (0.972) | 109 | 475041 | | | 0.00- 30.00 | 89.61 |
| 76 Chlorobenzene | | | | | CAS #: 108-90-7 | | |
| 22.951 | 22.951 (1.001) | 112 | 701802 | 10.0000 | 9.508 | 80.00- 120.00 | 100.00 |
| 22.951 | 22.951 (1.001) | 114 | 231102 | | | 0.00- 30.00 | 32.93 |
| 22.951 | 22.951 (1.001) | 77 | 471267 | | | 37.15- 97.15 | 67.15 |
| 77 Ethyl Benzene | | | | | CAS #: 100-41-4 | | |
| 23.023 | 23.023 (1.004) | 106 | 373803 | 10.0000 | 10.366 | 80.00- 120.00 | 100.00 |
| 23.023 | 23.023 (1.004) | 91 | 1301888 | | | 0.00- 30.00 | 348.28 |
| 80 m,p-Xylene | | | | | CAS #: 108-38-3 | | |
| 23.192 | 23.192 (1.012) | 106 | 466758 | 10.0000 | 10.757 | 80.00- 120.00 | 100.00 |
| 23.192 | 23.192 (1.012) | 91 | 1071413 | | | 0.00- 30.00 | 229.54 |
| 81 o-Xylene | | | | | CAS #: 95-47-6 | | |
| 23.770 | 23.770 (1.037) | 106 | 459349 | 10.0000 | 11.012 | 80.00- 120.00 | 100.00 |
| 23.770 | 23.770 (1.037) | 91 | 1108532 | | | 0.00- 30.00 | 241.33 |
| 83 Styrene | | | | | CAS #: 100-42-5 | | |
| 23.818 | 23.818 (1.039) | 104 | 704111 | 10.0000 | 11.182 | 80.00- 120.00 | 100.00 |
| 23.794 | 23.794 (1.038) | 78 | 445635 | | | 0.00- 30.00 | 63.29 |
| 84 Bromoform | | | | | CAS #: 75-25-2 | | |
| 24.132 | 24.132 (1.053) | 173 | 573914 | 10.0000 | 11.660 | 80.00- 120.00 | 100.00 |

| RT | EXP RT (REL RT) | MASS | RESPONSE | AMOUNTS CAL-AMT ( PPBV) | ON-COL ( PPBV) | TARGET RANGE | RATIO |
|---|---|---|---|---|---|---|---|
| 84 Bromoform (continued) | | | | | | | |
| 24.132 | 24.132 (1.053) | 171 | 292546 | | | 0.00- 30.00 | 50.97 |
| 85 Cumene | | | | | CAS #: 98-82-8 | | |
| 24.228 | 24.228 (1.057) | 105 | 1518454 | 10.0000 | 11.242 | 80.00- 120.00 | 100.00 |
| 24.228 | 24.228 (1.057) | 120 | 354701 | | | 0.00- 30.00 | 23.36 |
| 89 1,1,2,2-Tetrachloroethane | | | | | CAS #: 79-34-5 | | |
| 24.680 | 24.680 (1.076) | 83 | 678512 | 10.0000 | 9.720 | 80.00- 120.00 | 100.00 |
| 24.680 | 24.680 (1.076) | 85 | 430194 | | | 0.00- 30.00 | 63.40 |
| 90 Propylbenzene | | | | | CAS #: 103-65-1 | | |
| 24.758 | 24.758 (1.080) | 91 | 1868202 | 10.0000 | 10.799 | 80.00- 120.00 | 100.00 |
| 24.758 | 24.758 (1.080) | 120 | 380228 | | | 0.00- 30.00 | 20.35 |
| 92 4-Ethyltoluene | | | | | CAS #: 622-96-8 | | |
| 24.887 | 24.887 (1.085) | 105 | 1636281 | 10.0000 | 11.015 | 80.00- 120.00 | 100.00 |
| 24.887 | 24.887 (1.085) | 120 | 431122 | | | 0.00- 30.00 | 26.35 |
| 94 1,3,5-Trimethylbenzene | | | | | CAS #: 108-67-8 | | |
| 24.938 | 24.938 (1.088) | 105 | 1422204 | 10.0000 | 11.122 | 80.00- 120.00 | 100.00 |
| 24.964 | 24.964 (1.089) | 120 | 595716 | | | 0.00- 30.00 | 41.89 |
| 98 1,2,4-Trimethylbenzene | | | | | CAS #: 95-63-6 | | |
| 25.410 | 25.410 (1.108) | 105 | 1309587 | 10.0000 | 11.634 | 80.00- 120.00 | 100.00 |
| 25.410 | 25.410 (1.108) | 120 | 527662 | | | 0.00- 30.00 | 40.29 |
| 101 1,3-Dichlorobenzene | | | | | CAS #: 541-73-1 | | |
| 25.791 | 25.791 (1.125) | 146 | 745037 | 10.0000 | 10.441 | 80.00- 120.00 | 100.00 |
| 25.791 | 25.791 (1.125) | 148 | 481804 | | | 0.00- 30.00 | 64.67 |
| 25.791 | 25.791 (1.125) | 111 | 361728 | | | 0.00- 30.00 | 48.55 |
| 104 1,4-Dichlorobenzene | | | | | CAS #: 106-46-7 | | |
| 25.903 | 25.903 (1.130) | 146 | 743623 | 10.0000 | 10.416 | 80.00- 120.00 | 100.00 |
| 25.903 | 25.903 (1.130) | 148 | 477586 | | | 0.00- 30.00 | 64.22 |
| 25.903 | 25.903 (1.130) | 111 | 353359 | | | 0.00- 30.00 | 47.52 |
| 105 alpha-chlorotoluene | | | | | CAS #: 100-44-7 | | |
| 26.060 | 26.060 (1.137) | 91 | 1244931 | 10.0000 | 11.448 | 80.00- 120.00 | 100.00 |
| 26.060 | 26.060 (1.137) | 126 | 207824 | | | 0.00- 30.00 | 16.69 |
| 108 1,2-Dichlorobenzene | | | | | CAS #: 95-50-1 | | |
| 26.352 | 26.352 (1.149) | 146 | 702572 | 10.0000 | 10.378 | 80.00- 120.00 | 100.00 |
| 26.352 | 26.352 (1.149) | 148 | 447683 | | | 33.72- 93.72 | 63.72 |
| 26.352 | 26.352 (1.149) | 111 | 356923 | | | 20.80- 80.80 | 50.80 |

| RT | EXP RT (REL RT) | MASS | RESPONSE | AMOUNTS CAL-AMT ( PPBV) | ON-COL ( PPBV) | TARGET RANGE | RATIO |
|---|---|---|---|---|---|---|---|
| 112 1,2,4-Trichlorobenzene | | | | | CAS #: 120-82-1 | | |
| 28.145 | 28.145 (1.228) | 180 | 548688 | 10.0000 | 12.400 | 80.00- 120.00 | 100.00 |
| 28.145 | 28.145 (1.228) | 182 | 528088 | | | 0.00- 30.00 | 96.25 |
| 113 Hexachlorobutadiene | | | | | CAS #: 87-68-3 | | |
| 28.235 | 28.235 (1.232) | 225 | 472191 | 10.0000 | 11.944 | 80.00- 120.00 | 100.00 |
| 28.235 | 28.235 (1.232) | 223 | 302850 | | | 0.00- 30.00 | 64.14 |
| 114 Naphthalene | | | | | CAS #: 91-20-3 | | |
| 28.504 | 28.504 (1.243) | 128 | 120272 | 1.00000 | 1.276 | 80.00- 120.00 | 100.00 |
| 28.504 | 28.504 (1.243) | 127 | 16766 | | | 0.00- 30.00 | 13.94 |

Report Date: 13-Mar-2012 12:37

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msde.i
Lab File ID: e031302.d
Lab Smp Id: CCV
Analysis Type: VOA
Quant Type: ISTD
Operator: ll
Method File: /chem/msde.i/13Mar2012.b/e12l0308b.m
Misc Info: 10ppbv (50ppbv)

Calibration Date: 13-MAR-2012
Calibration Time: 12:13
Client Smp ID: CCV
Level: LOW
Sample Type: AIR

| | | AREA LIMIT | | | |
|---|---|---|---|---|---|
| COMPOUND | STANDARD | LOWER | UPPER | SAMPLE | %DIFF |
| 46 Bromochloromethan | 72220 | 43332 | 101108 | 78956 | 9.33 |
| 58 1,4-Difluorobenze | 289091 | 173455 | 404727 | 299545 | 3.62 |
| 75 Chlorobenzene-d5 | 243755 | 146253 | 341257 | 258990 | 6.25 |

| | | RT LIMIT | | | |
|---|---|---|---|---|---|
| COMPOUND | STANDARD | LOWER | UPPER | SAMPLE | %DIFF |
| 46 Bromochloromethan | 16.13 | 15.80 | 16.46 | 16.13 | 0.00 |
| 58 1,4-Difluorobenze | 17.59 | 17.26 | 17.92 | 17.59 | 0.00 |
| 75 Chlorobenzene-d5 | 22.93 | 22.60 | 23.26 | 22.93 | 0.00 |

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

§`

Data File: /chem/msde.i/13Mar2012.b/e031302.d



Date : 13-MAR-2012 09:39

Client ID: CCV

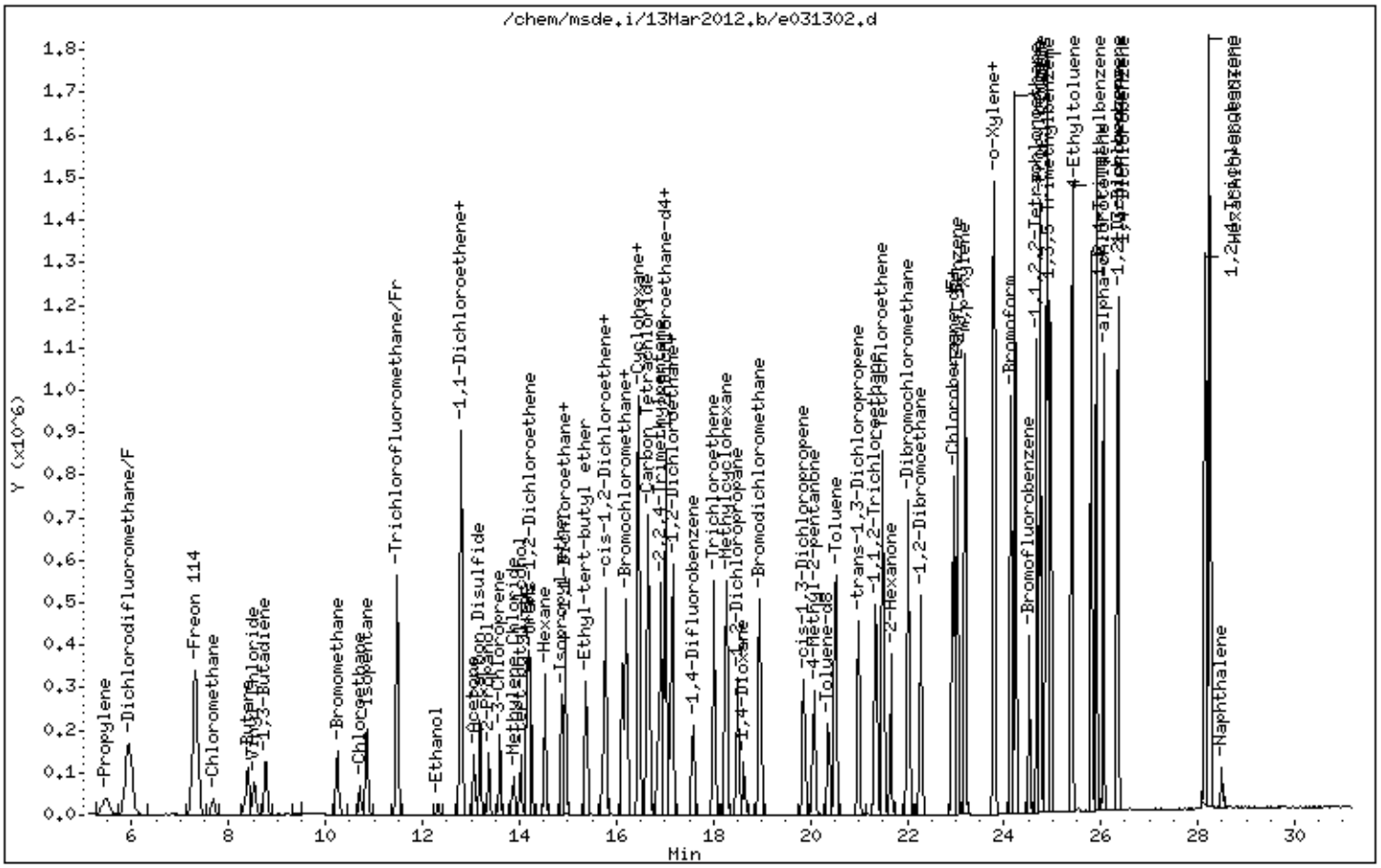
Instrument: msde.i

Sample Info: 50mL #2370-196

Operator: ll

Column phase: RTx-624

Column diameter: 0.32



Air Toxics Ltd.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: msde.i Injection Date: 13-MAR-2012 12:13
Lab File ID: e031306.d Init. Cal. Date(s): 08-MAR-2012 10-MAR-2012
Analysis Type: AIR Init. Cal. Times: 18:33 19:22
Lab Sample ID: CCV Quant Type: ISTD
Method: /chem/msde.i/13Mar2012.b/e12l0308b.m

| COMPOUND | RRF / AMOUNT | RF40 | MIN RRF | %D / %DRIFT | MAX %D / %DRIFT | CURVE TYPE |
|---|---|---|---|---|---|---|
|$ 54 1,2-Dichloroethane-d4 | 1.86326 | 1.94852 | 0.010 | -4.57568 | 30.00000 | Averaged |
|$ 67 Toluene-d8 | 1.00712 | 0.94986 | 0.010 | 5.68478 | 30.00000 | Averaged |
|$ 87 Bromofluorobenzene | 0.57198 | 0.57831 | 0.010 | -1.10656 | 30.00000 | Averaged |
| 50 Thiophene | 0.80868 | 0.75575 | 0.010 | 6.54499 | 40.00000 | Averaged |
| 24 2-Methylpentane | 1.03414 | 1.00318 | 0.010 | 2.99323 | 40.00000 | Averaged |
| 45 2,3-Dimethylpentane | 0.95797 | 0.96197 | 0.010 | -0.41723 | 40.00000 | Averaged |
| 102 Indan | 1.53284 | 1.48444 | 0.010 | 3.15749 | 40.00000 | Averaged |
| 106 Indene | 0.83534 | 0.70018 | 0.010 | 16.17982 | 40.00000 | Averaged |

Air Toxics Ltd.

EPA TO-15/Modified TO14A

Data file : /chem/msde.i/13Mar2012.b/e031306.d
Lab Smp Id: CCV Client Smp ID: CCV
Inj Date : 13-MAR-2012 12:13
Operator : ll Inst ID: msde.i
Smp Info : 75mL #2403-72
Misc Info : 1.5ppbv (5.0ppbv)
Comment : Low-Level/GC-MS
Method : /chem/msde.i/13Mar2012.b/e12l0308b.m
Meth Date : 13-Mar-2012 12:37 llarson Quant Type: ISTD
Cal Date : 10-MAR-2012 19:22 Cal File: e031014.d
Als bottle: 8 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AT3CCV.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

| Name | Value | Description |
|---|---|---|
| DF | 1.00000 | Dilution Factor |

| | | | | AMOUNTS | | | | |
|---|---|---|---|---|---|---|---|---|
| | | | | CAL-AMT | ON-COL | | | |
| RT | EXP RT (REL RT) | MASS | RESPONSE | ( PPBV) | ( PPBV) | TARGET RANGE | | RATIO |
| == | ====== ======== | ==== | ======== | ======= | ======= | ========== | | ===== |
| * 46 Bromochloromethane | | | | | | CAS #: 74-97-5 | | |
| 16.128 | 16.128 (1.000) | 130 | 72220 | 5.00000 | | 80.00- 120.00 | | 100.00 |
| 16.128 | 16.128 (1.000) | 128 | 55232 | | | 0.00- 30.00 | | 76.48 |
| 16.128 | 16.128 (1.000) | 49 | 70282 | | | 0.00- 30.00 | | 97.32 |
| * 58 1,4-Difluorobenzene | | | | | | CAS #: 540-36-3 | | |
| 17.586 | 17.586 (1.000) | 114 | 289091 | 5.00000 | | 80.00- 120.00 | | 100.00 |
| 17.586 | 17.586 (1.000) | 88 | 51808 | | | 0.00- 30.00 | | 17.92 |
| * 75 Chlorobenzene-d5 | | | | | | CAS #: 3114-55-4 | | |
| 22.927 | 22.927 (1.000) | 117 | 243755 | 5.00000 | | 80.00- 120.00 | | 100.00 |
| 22.927 | 22.927 (1.000) | 82 | 160062 | | | 0.00- 30.00 | | 65.67 |
| $ 54 1,2-Dichloroethane-d4 | | | | | | CAS #: 17060-07-0 | | |
| 17.013 | 17.013 (1.055) | 65 | 140722 | 5.00000 | 5.229 | 80.00- 120.00 | | 100.00 |
| 17.013 | 17.013 (1.055) | 67 | 66849 | | | 0.00- 30.00 | | 47.50 |

| RT | EXP RT (REL RT) | MASS | RESPONSE | AMOUNTS CAL-AMT ( PPBV) | ON-COL ( PPBV) | TARGET RANGE | RATIO |
|---|---|---|---|---|---|---|---|
| $ 67 Toluene-d8 | | | | | CAS #: 2037-26-5 | | |
| 20.368 | 20.368 (1.158) | 98 | 274597 | 5.00000 | 4.716 | 80.00- 120.00 | 100.00 |
| 20.368 | 20.368 (1.158) | 70 | 34274 | | | 0.00- 30.00 | 12.48 |
| 20.368 | 20.368 (1.158) | 100 | 173795 | | | 33.29- 93.29 | 63.29 |
| $ 87 Bromofluorobenzene | | | | | CAS #: 460-00-4 | | |
| 24.526 | 24.526 (1.070) | 174 | 140966 | 5.00000 | 5.055 | 80.00- 120.00 | 100.00 |
| 24.526 | 24.526 (1.070) | 95 | 225773 | | | 130.16- 190.16 | 160.16 |
| 24.526 | 24.526 (1.070) | 176 | 136088 | | | 66.54- 126.54 | 96.54 |
| 50 Thiophene | | | | | CAS #: 110-02-1 | | |
| 17.363 | 17.363 (0.987) | 84 | 65544 | 1.50000 | 1.402 | 80.00- 120.00 | 100.00(T) |
| 17.363 | 17.363 (0.987) | 58 | 34637 | | | 0.00- 30.00 | 52.85 |
| 0.000 | 1.000 (0.000) | 0 | 0 | | | 0.00- 30.00 | 0.00 |
| 24 2-Methylpentane | | | | | CAS #: 107-83-5 | | |
| 13.692 | 13.692 (0.849) | 71 | 21735 | 1.50000 | 1.455 | 80.00- 120.00 | 100.00 |
| 13.692 | 13.692 (0.849) | 43 | 36050 | | | 0.00- 30.00 | 165.86 |
| 13.692 | 13.692 (0.849) | 42 | 18446 | | | 0.00- 30.00 | 84.87 |
| 45 2,3-Dimethylpentane | | | | | CAS #: 565-59-3 | | |
| 16.405 | 16.405 (1.017) | 71 | 20842 | 1.50000 | 1.506 | 80.00- 120.00 | 100.00 |
| 16.405 | 16.405 (1.017) | 56 | 43973 | | | 0.00- 30.00 | 210.98 |
| 16.405 | 16.405 (1.017) | 43 | 27034 | | | 0.00- 30.00 | 129.71 |
| 102 Indan | | | | | CAS #: 496-11-7 | | |
| 26.150 | 26.150 (1.141) | 117 | 108552 | 1.50000 | 1.453 | 80.00- 120.00 | 100.00 |
| 26.150 | 26.150 (1.141) | 118 | 60605 | | | 0.00- 30.00 | 55.83 |
| 26.150 | 26.150 (1.141) | 91 | 23713 | | | 0.00- 30.00 | 21.84 |
| 106 Indene | | | | | CAS #: 95-13-6 | | |
| 26.419 | 26.419 (1.152) | 115 | 51202 | 1.50000 | 1.257 | 80.00- 120.00 | 100.00(T) |
| 26.419 | 26.419 (1.152) | 116 | 47201 | | | 0.00- 30.00 | 92.19 |
| 0.000 | 1.000 (0.000) | 0 | 0 | | | 0.00- 30.00 | 0.00 |

## QC Flag Legend

T - Target compound detected outside RT window.

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msde.i
Lab File ID: e031306.d
Lab Smp Id: CCV
Analysis Type: VOA
Quant Type: ISTD
Operator: ll
Method File: /chem/msde.i/13Mar2012.b/e12l0308b.m
Misc Info: 1.5ppbv (5.0ppbv)

Calibration Date: 13-MAR-2012
Calibration Time: 09:39
Client Smp ID: CCV
Level: LOW
Sample Type: AIR

| | | AREA LIMIT | | | |
|---|---|---|---|---|---|
| COMPOUND | STANDARD | LOWER | UPPER | SAMPLE | %DIFF |
| 46 Bromochloromethan | 78956 | 47374 | 110538 | 72220 | -8.53 |
| 58 1,4-Difluorobenze | 299545 | 179727 | 419363 | 289091 | -3.49 |
| 75 Chlorobenzene-d5 | 258990 | 155394 | 362586 | 243755 | -5.88 |

| | | RT LIMIT | | | |
|---|---|---|---|---|---|
| COMPOUND | STANDARD | LOWER | UPPER | SAMPLE | %DIFF |
| 46 Bromochloromethan | 16.13 | 15.80 | 16.46 | 16.13 | 0.00 |
| 58 1,4-Difluorobenze | 17.59 | 17.26 | 17.92 | 17.59 | 0.00 |
| 75 Chlorobenzene-d5 | 22.93 | 22.60 | 23.26 | 22.93 | 0.00 |

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Data File: /chem/msde.i/13Mar2012.b/e031306.d

Date : 13-MAR-2012 12:13

Client ID: CCV

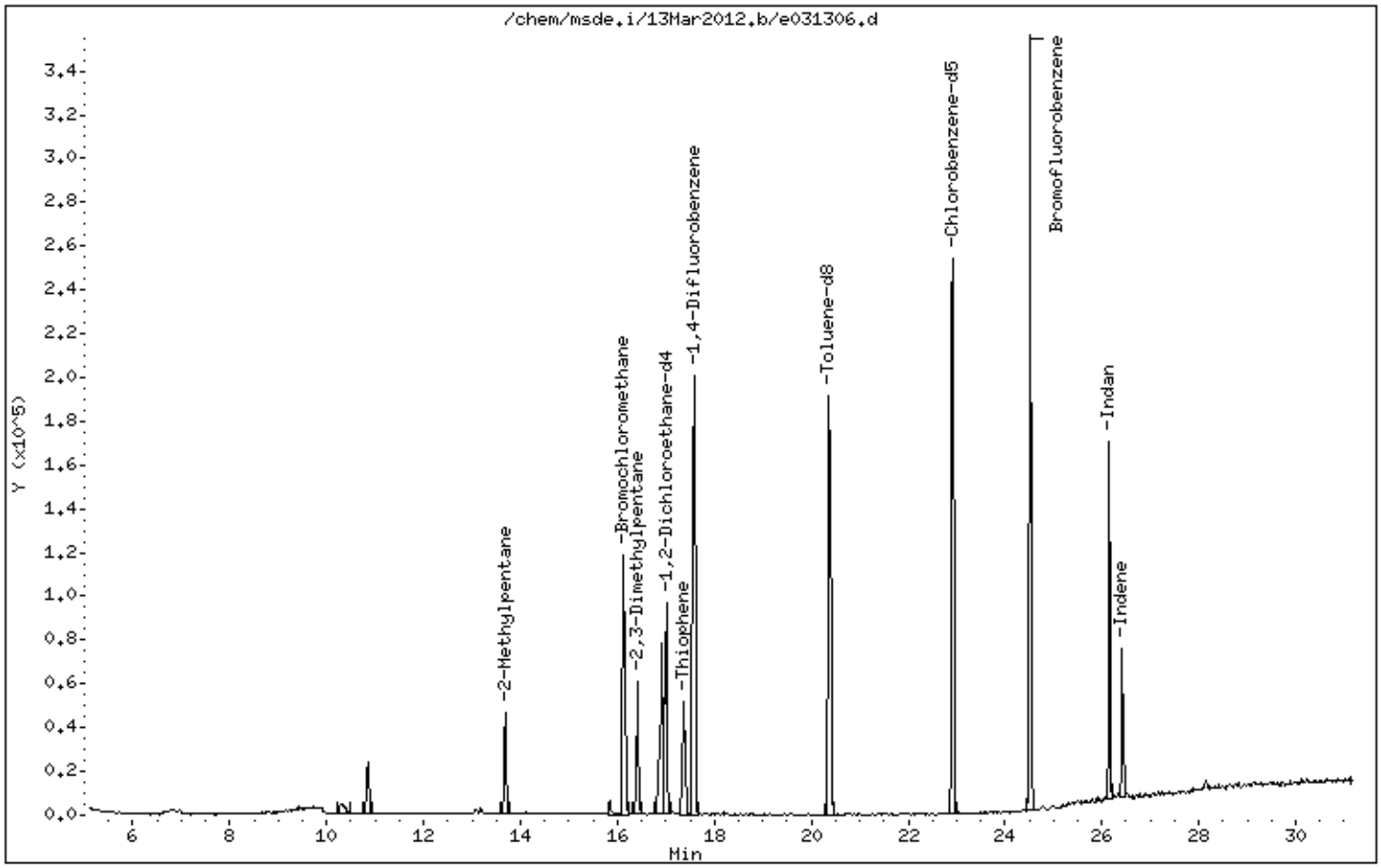
Instrument: msde.i

Sample Info: 75mL #2403-72

Operator: ll

Column phase: RTx-624

Column diameter: 0.32



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**Client Sample ID: CCV**

**Lab ID#: 1202444-05B**

**MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN**

| | | | |
|---|---|---|---|
| **File Name:** | **e031405** | **Date of Collection: NA** | |
| **Dil. Factor:** | **1.00** | **Date of Analysis: 3/14/12 10:17 AM** | |

| Compound | %Recovery |
|---|---|
| Freon 12 | 91 |
| Freon 114 | 93 |
| Chloromethane | 95 |
| Vinyl Chloride | 97 |
| 1,3-Butadiene | 97 |
| Bromomethane | 89 |
| Chloroethane | 92 |
| Freon 11 | 89 |
| Ethanol | 115 |
| Freon 113 | 96 |
| 1,1-Dichloroethene | 102 |
| Acetone | 97 |
| 2-Propanol | 103 |
| Carbon Disulfide | 92 |
| 3-Chloropropene | 103 |
| Methylene Chloride | 74 |
| Methyl tert-butyl ether | 107 |
| trans-1,2-Dichloroethene | 97 |
| Hexane | 107 |
| 1,1-Dichloroethane | 97 |
| 2-Butanone (Methyl Ethyl Ketone) | 102 |
| cis-1,2-Dichloroethene | 108 |
| Tetrahydrofuran | 103 |
| Chloroform | 95 |
| 1,1,1-Trichloroethane | 96 |
| Cyclohexane | 104 |
| Carbon Tetrachloride | 123 |
| 2,2,4-Trimethylpentane | 96 |
| Benzene | 90 |
| 1,2-Dichloroethane | 87 |
| Heptane | 101 |
| Trichloroethene | 93 |
| 1,2-Dichloropropane | 89 |
| 1,4-Dioxane | 105 |
| Bromodichloromethane | 94 |
| cis-1,3-Dichloropropene | 102 |
| 4-Methyl-2-pentanone | 111 |
| Toluene | 93 |
| trans-1,3-Dichloropropene | 113 |
| 1,1,2-Trichloroethane | 95 |
| Tetrachloroethene | 98 |
| 2-Hexanone | 107 |

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**Client Sample ID: CCV**

**Lab ID#: 1202444-05B**

**MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN**

| | | | |
|---|---|---|---|
| **File Name:** | **e031405** | **Date of Collection: NA** | |
| **Dil. Factor:** | **1.00** | **Date of Analysis: 3/14/12 10:17 AM** | |

| Compound | %Recovery |
|---|---|
| Dibromochloromethane | 106 |
| 1,2-Dibromoethane (EDB) | 100 |
| Chlorobenzene | 95 |
| Ethyl Benzene | 100 |
| m,p-Xylene | 101 |
| o-Xylene | 104 |
| Styrene | 106 |
| Bromoform | 114 |
| Cumene | 105 |
| 1,1,2,2-Tetrachloroethane | 91 |
| Propylbenzene | 100 |
| 4-Ethyltoluene | 103 |
| 1,3,5-Trimethylbenzene | 103 |
| 1,2,4-Trimethylbenzene | 109 |
| 1,3-Dichlorobenzene | 98 |
| 1,4-Dichlorobenzene | 98 |
| alpha-Chlorotoluene | 103 |
| 1,2-Dichlorobenzene | 96 |
| 1,2,4-Trichlorobenzene | 114 |
| Hexachlorobutadiene | 108 |
| 2,3-Dimethylpentane | 108 |
| 2-Methylpentane | 100 |
| Indene | 82 |
| Indan | 94 |
| Isopentane | 95 |
| Naphthalene | 116 |
| Thiophene | 93 |

**Container Type: NA - Not Applicable**

| Surrogates | %Recovery | Method Limits |
|---|---|---|
| 1,2-Dichloroethane-d4 | 98 | 70-130 |
| Toluene-d8 | 100 | 70-130 |
| 4-Bromofluorobenzene | 101 | 70-130 |

Air Toxics Ltd.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: msde.i Injection Date: 14-MAR-2012 10:17
Lab File ID: e031405.d Init. Cal. Date(s): 08-MAR-2012 10-MAR-2012
Analysis Type: AIR Init. Cal. Times: 18:33 19:22
Lab Sample ID: CCV Quant Type: ISTD
Method: /chem/msde.i/14Mar2012.b/e12l0308b.m

| | | | MIN | | MAX | |
|---|---|---|---|---|---|---|
| COMPOUND | RRF / AMOUNT | RF10 | RRF | %D / %DRIFT | %D / %DRIFT | CURVE TYPE |
| $ 54 1,2-Dichloroethane-d4 | 1.86326 | 1.81940 | 0.010 | 2.35401 | 30.00000 | Averaged |
| $ 67 Toluene-d8 | 1.00712 | 1.00380 | 0.010 | 0.32954 | 30.00000 | Averaged |
| $ 87 Bromofluorobenzene | 0.57198 | 0.57705 | 0.010 | -0.88617 | 30.00000 | Averaged |
| 2 Propylene | 0.79701 | 0.70649 | 0.010 | 11.35780 | 30.00000 | Averaged |
| 4 Dichlorodifluoromethane/Fr1 | 5.84293 | 5.30729 | 0.010 | 9.16724 | 30.00000 | Averaged |
| 6 Freon 114 | 3.03998 | 2.82533 | 0.010 | 7.06077 | 30.00000 | Averaged |
| 7 Chloromethane | 0.86355 | 0.81921 | 0.010 | 5.13445 | 30.00000 | Averaged |
| 9 Butane | 0.29719 | 0.31001 | 0.010 | -4.31418 | 30.00000 | Averaged |
| 10 Vinyl Chloride | 1.36299 | 1.31980 | 0.010 | 3.16872 | 30.00000 | Averaged |
| 11 1,3-Butadiene | 0.85666 | 0.82797 | 0.010 | 3.34940 | 30.00000 | Averaged |
| 12 Bromomethane | 1.50702 | 1.34391 | 0.010 | 10.82343 | 30.00000 | Averaged |
| 13 Chloroethane | 0.72626 | 0.67245 | 0.010 | 7.40860 | 30.00000 | Averaged |
| 14 Isopentane | 0.91729 | 0.87505 | 0.010 | 4.60495 | 30.00000 | Averaged |
| 16 Trichlorofluoromethane/Fr11 | 6.16189 | 5.49652 | 0.010 | 10.79813 | 30.00000 | Averaged |
| 18 Ethanol | 0.32170 | 0.36998 | 0.010 | -15.00748 | 30.00000 | Averaged |
| 21 1,1-Dichloroethene | 0.88609 | 0.90397 | 0.010 | -2.01704 | 30.00000 | Averaged |
| 19 Freon 113 | 2.60566 | 2.50775 | 0.010 | 3.75768 | 30.00000 | Averaged |
| 22 Acetone | 0.56508 | 0.55002 | 0.010 | 2.66529 | 30.00000 | Averaged |
| 23 Carbon Disulfide | 3.71808 | 3.40809 | 0.010 | 8.33756 | 30.00000 | Averaged |
| 26 3-Chloroprene | 0.54841 | 0.56269 | 0.010 | -2.60372 | 30.00000 | Averaged |
| 25 2-Propanol | 1.52769 | 1.57785 | 0.010 | -3.28345 | 30.00000 | Averaged |
| 29 Methylene Chloride | 0.69752 | 0.51495 | 0.010 | 26.17344 | 30.00000 | Averaged |
| 30 tert-butyl alcohol | 1.44848 | 1.47978 | 0.010 | -2.16096 | 30.00000 | Averaged |
| 31 MTBE | 4.49322 | 4.79003 | 0.010 | -6.60580 | 30.00000 | Averaged |
| 32 trans-1,2-Dichloroethene | 0.94921 | 0.92300 | 0.010 | 2.76129 | 30.00000 | Averaged |
| 35 Hexane | 1.62919 | 1.74759 | 0.010 | -7.26751 | 30.00000 | Averaged |
| 36 Isopropyl ether | 1.76676 | 1.87937 | 0.010 | -6.37388 | 30.00000 | Averaged |
| 37 1,1-Dichloroethane | 2.68292 | 2.60355 | 0.010 | 2.95819 | 30.00000 | Averaged |
| 38 Vinyl Acetate | 0.39637 | 0.41281 | 0.010 | -4.14717 | 30.00000 | Averaged |
| 40 Ethyl-tert-butyl ether | 2.46045 | 2.67358 | 0.010 | -8.66257 | 30.00000 | Averaged |
| 41 cis-1,2-Dichloroethene | 1.42716 | 1.53996 | 0.010 | -7.90396 | 30.00000 | Averaged |
| 42 2-Butanone | 1.02444 | 1.05098 | 0.010 | -2.59063 | 30.00000 | Averaged |
| 44 Tetrahydrofuran | 1.02128 | 1.04923 | 0.010 | -2.73635 | 30.00000 | Averaged |
| 47 Chloroform | 4.10691 | 3.91121 | 0.010 | 4.76496 | 30.00000 | Averaged |
| 48 Cyclohexane | 2.19290 | 2.27348 | 0.010 | -3.67486 | 30.00000 | Averaged |
| 49 1,1,1-Trichloroethane | 4.69304 | 4.51661 | 0.010 | 3.75943 | 30.00000 | Averaged |

Air Toxics Ltd.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: msde.i Injection Date: 14-MAR-2012 10:17
Lab File ID: e031405.d Init. Cal. Date(s): 08-MAR-2012 10-MAR-2012
Analysis Type: AIR Init. Cal. Times: 18:33 19:22
Lab Sample ID: CCV Quant Type: ISTD
Method: /chem/msde.i/14Mar2012.b/e12l0308b.m

| COMPOUND | RRF / AMOUNT | RF10 | MIN RRF | %D / %DRIFT | MAX %D / %DRIFT | CURVE TYPE |
|---|---|---|---|---|---|---|
| 51 Carbon Tetrachloride | 3.51149 | 4.31363 | 0.010 | -22.84350 | 30.00000 | Averaged |
| 52 2,2,4-Trimethylpentane | 2.51204 | 2.41752 | 0.010 | 3.76296 | 30.00000 | Averaged |
| 53 Benzene | 1.28260 | 1.14889 | 0.010 | 10.42499 | 30.00000 | Averaged |
| 55 tert-amyl methyl ether | 0.18904 | 0.19340 | 0.010 | -2.30788 | 30.00000 | Averaged |
| 56 1,2-Dichloroethane | 0.72324 | 0.62802 | 0.010 | 13.16564 | 30.00000 | Averaged |
| 57 Heptane | 0.26510 | 0.26863 | 0.010 | -1.32895 | 30.00000 | Averaged |
| 59 Trichloroethene | 0.56646 | 0.52516 | 0.010 | 7.29052 | 30.00000 | Averaged |
| 60 Methylcyclohexane | 0.73175 | 0.73744 | 0.010 | -0.77731 | 30.00000 | Averaged |
| 61 1,2-Dichloropropane | 0.39434 | 0.35263 | 0.010 | 10.57680 | 30.00000 | Averaged |
| 62 1,4-Dioxane | 0.28123 | 0.29504 | 0.010 | -4.91114 | 30.00000 | Averaged |
| 63 Bromodichloromethane | 1.10157 | 1.03472 | 0.010 | 6.06822 | 30.00000 | Averaged |
| 64 cis-1,3-Dichloropropene | 0.68242 | 0.69634 | 0.010 | -2.03871 | 30.00000 | Averaged |
| 65 4-Methyl-2-pentanone | 0.50969 | 0.56650 | 0.010 | -11.14596 | 30.00000 | Averaged |
| 68 Toluene | 1.53051 | 1.42206 | 0.010 | 7.08588 | 30.00000 | Averaged |
| 69 trans-1,3-Dichloropropene | 1.07223 | 1.20773 | 0.010 | -12.63738 | 30.00000 | Averaged |
| 70 1,1,2-Trichloroethane | 0.64599 | 0.61659 | 0.010 | 4.55139 | 30.00000 | Averaged |
| 71 Tetrachloroethene | 0.74985 | 0.73571 | 0.010 | 1.88487 | 30.00000 | Averaged |
| 72 2-Hexanone | 0.40884 | 0.43707 | 0.010 | -6.90566 | 30.00000 | Averaged |
| 73 Dibromochloromethane | 1.09912 | 1.16444 | 0.010 | -5.94258 | 30.00000 | Averaged |
| 74 1,2-Dibromoethane | 0.99085 | 0.99438 | 0.010 | -0.35638 | 30.00000 | Averaged |
| 76 Chlorobenzene | 1.42498 | 1.34882 | 0.010 | 5.34480 | 30.00000 | Averaged |
| 77 Ethyl Benzene | 0.69620 | 0.69409 | 0.010 | 0.30344 | 30.00000 | Averaged |
| 80 m,p-Xylene | 0.83768 | 0.84920 | 0.010 | -1.37521 | 30.00000 | Averaged |
| 81 o-Xylene | 0.80532 | 0.84036 | 0.010 | -4.35146 | 30.00000 | Averaged |
| 83 Styrene | 1.21563 | 1.28801 | 0.010 | -5.95406 | 30.00000 | Averaged |
| 84 Bromoform | 0.95023 | 1.08529 | 0.010 | -14.21277 | 30.00000 | Averaged |
| 85 Cumene | 2.60750 | 2.74095 | 0.010 | -5.11798 | 30.00000 | Averaged |
| 89 1,1,2,2-Tetrachloroethane | 1.34761 | 1.23031 | 0.010 | 8.70442 | 30.00000 | Averaged |
| 90 Propylbenzene | 3.33993 | 3.32928 | 0.010 | 0.31879 | 30.00000 | Averaged |
| 92 4-Ethyltoluene | 2.86793 | 2.95018 | 0.010 | -2.86784 | 30.00000 | Averaged |
| 94 1,3,5-Trimethylbenzene | 2.46856 | 2.55358 | 0.010 | -3.44420 | 30.00000 | Averaged |
| 98 1,2,4-Trimethylbenzene | 2.17315 | 2.36558 | 0.010 | -8.85523 | 30.00000 | Averaged |
| 101 1,3-Dichlorobenzene | 1.37755 | 1.35105 | 0.010 | 1.92387 | 30.00000 | Averaged |
| 104 1,4-Dichlorobenzene | 1.37834 | 1.34522 | 0.010 | 2.40273 | 30.00000 | Averaged |
| 105 alpha-chlorotoluene | 2.09945 | 2.16869 | 0.010 | -3.29799 | 30.00000 | Averaged |

Air Toxics Ltd.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: msde.i Injection Date: 14-MAR-2012 10:17
Lab File ID: e031405.d Init. Cal. Date(s): 08-MAR-2012 10-MAR-2012
Analysis Type: AIR Init. Cal. Times: 18:33 19:22
Lab Sample ID: CCV Quant Type: ISTD
Method: /chem/msde.i/14Mar2012.b/e12l0308b.m

| COMPOUND | RRF / AMOUNT | RF10 | MIN RRF | %D / %DRIFT | MAX %D / %DRIFT | CURVE TYPE |
|---|---|---|---|---|---|---|
| 108 1,2-Dichlorobenzene | 1.30689 | 1.25079 | 0.010 | 4.29259 | 30.00000 | Averaged |
| 112 1,2,4-Trichlorobenzene | 0.85425 | 0.97612 | 0.010 | -14.26560 | 30.00000 | Averaged |
| 113 Hexachlorobutadiene | 0.76324 | 0.82451 | 0.010 | -8.02831 | 30.00000 | Averaged |
| 114 Naphthalene | 1.81893 | 2.11501 | 0.010 | -16.27785 | 40.00000 | Averaged |

Air Toxics Ltd.

EPA TO-15/Modified TO14A

Data file : /chem/msde.i/14Mar2012.b/e031405.d
Lab Smp Id: CCV Client Smp ID: CCV
Inj Date : 14-MAR-2012 10:17
Operator : LL Inst ID: msde.i
Smp Info : 50mL #2370-196; CCV; CCV
Misc Info : 10ppbv (50ppbv)
Comment : Low-Level/GC-MS
Method : /chem/msde.i/14Mar2012.b/e12l0308b.m
Meth Date : 14-Mar-2012 12:32 llarson Quant Type: ISTD
Cal Date : 10-MAR-2012 19:22 Cal File: e031014.d
Als bottle: 8 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AT09.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

| Name | Value | Description |
|---|---|---|
| DF | 1.00000 | Dilution Factor |

| | RT | EXP RT (REL RT) | MASS | RESPONSE | AMOUNTS CAL-AMT ( PPBV) | ON-COL ( PPBV) | TARGET RANGE | RATIO |
|---|---|---|---|---|---|---|---|---|
| * | 46 Bromochloromethane | | | | | CAS #: 74-97-5 | | |
| | 16.128 | 16.128 (1.000) | 130 | 90443 | 5.00000 | | 80.00- 120.00 | 100.00 |
| | 16.128 | 16.128 (1.000) | 128 | 71860 | | | 0.00- 30.00 | 79.45 |
| | 16.128 | 16.128 (1.000) | 49 | 131986 | | | 0.00- 30.00 | 145.93 |
| * | 58 1,4-Difluorobenzene | | | | | CAS #: 540-36-3 | | |
| | 17.586 | 17.586 (1.000) | 114 | 374503 | 5.00000 | | 80.00- 120.00 | 100.00 |
| | 17.586 | 17.586 (1.000) | 88 | 65247 | | | 0.00- 30.00 | 17.42 |
| * | 75 Chlorobenzene-d5 | | | | | CAS #: 3114-55-4 | | |
| | 22.927 | 22.927 (1.000) | 117 | 310086 | 5.00000 | | 80.00- 120.00 | 100.00 |
| | 22.927 | 22.927 (1.000) | 82 | 203786 | | | 0.00- 30.00 | 65.72 |
| $ | 54 1,2-Dichloroethane-d4 | | | | | CAS #: 17060-07-0 | | |
| | 17.013 | 17.013 (1.055) | 65 | 164552 | 5.00000 | 4.882 | 80.00- 120.00 | 100.00 |
| | 17.013 | 17.013 (1.055) | 67 | 85663 | | | 0.00- 30.00 | 52.06 |

| RT | EXP RT (REL RT) | MASS | RESPONSE | AMOUNTS CAL-AMT ( PPBV) | ON-COL ( PPBV) | TARGET RANGE | RATIO |
|---|---|---|---|---|---|---|---|
| $ 67 Toluene-d8 | | | | | CAS #: 2037-26-5 | | |
| 20.368 | 20.368 (1.158) | 98 | 375925 | 5.00000 | 4.984 | 80.00- 120.00 | 100.00 |
| 20.368 | 20.368 (1.158) | 70 | 44363 | | | 0.00- 30.00 | 11.80 |
| 20.368 | 20.368 (1.158) | 100 | 244389 | | | 35.01- 95.01 | 65.01 |
| $ 87 Bromofluorobenzene | | | | | CAS #: 460-00-4 | | |
| 24.526 | 24.526 (1.070) | 174 | 178935 | 5.00000 | 5.044 | 80.00- 120.00 | 100.00 |
| 24.526 | 24.526 (1.070) | 95 | 278200 | | | 125.48- 185.48 | 155.48 |
| 24.526 | 24.526 (1.070) | 176 | 175343 | | | 67.99- 127.99 | 97.99 |
| 2 Propylene | | | | | CAS #: 115-07-1 | | |
| 5.449 | 5.449 (0.338) | 41 | 127794 | 10.0000 | 8.864 | 80.00- 120.00 | 100.00 |
| 5.473 | 5.473 (0.339) | 42 | 84784 | | | 0.00- 30.00 | 66.34 |
| 5.449 | 5.449 (0.338) | 39 | 108945 | | | 0.00- 30.00 | 85.25 |
| 4 Dichlorodifluoromethane/Fr12 | | | | | CAS #: 75-71-8 | | |
| 5.931 | 5.931 (0.368) | 85 | 960015 | 10.0000 | 9.083 | 80.00- 120.00 | 100.00 |
| 5.931 | 5.931 (0.368) | 87 | 308293 | | | 2.11- 62.11 | 32.11 |
| 6 Freon 114 | | | | | CAS #: 76-14-2 | | |
| 7.329 | 7.329 (0.454) | 135 | 511063 | 10.0000 | 9.294 | 80.00- 120.00 | 100.00 |
| 7.329 | 7.329 (0.454) | 137 | 163462 | | | 0.00- 30.00 | 31.98 |
| 7 Chloromethane | | | | | CAS #: 74-87-3 | | |
| 7.691 | 7.691 (0.477) | 50 | 148184 | 10.0000 | 9.486 | 80.00- 120.00 | 100.00 |
| 7.691 | 7.691 (0.477) | 52 | 48865 | | | 0.00- 30.00 | 32.98 |
| 9 Butane | | | | | CAS #: 106-97-8 | | |
| 8.387 | 8.387 (0.520) | 58 | 56077 | 10.0000 | 10.431 | 80.00- 120.00 | 100.00 |
| 8.404 | 8.404 (0.521) | 43 | 302345 | | | 0.00- 30.00 | 539.16 |
| 10 Vinyl Chloride | | | | | CAS #: 75-01-4 | | |
| 8.543 | 8.543 (0.530) | 62 | 238733 | 10.0000 | 9.683 | 80.00- 120.00 | 100.00 |
| 8.543 | 8.543 (0.530) | 64 | 75104 | | | 1.46- 61.46 | 31.46 |
| 11 1,3-Butadiene | | | | | CAS #: 106-99-0 | | |
| 8.769 | 8.769 (0.544) | 54 | 149768 | 10.0000 | 9.665 | 80.00- 120.00 | 100.00 |
| 8.769 | 8.769 (0.544) | 39 | 137748 | | | 0.00- 30.00 | 91.97 |
| 12 Bromomethane | | | | | CAS #: 74-83-9 | | |
| 10.251 | 10.251 (0.636) | 94 | 243094 | 10.0000 | 8.918 | 80.00- 120.00 | 100.00 |
| 10.251 | 10.251 (0.636) | 96 | 215801 | | | 58.77- 118.77 | 88.77 |
| 13 Chloroethane | | | | | CAS #: 75-00-3 | | |
| 10.728 | 10.728 (0.665) | 64 | 121637 | 10.0000 | 9.259 | 80.00- 120.00 | 100.00 |
| 10.707 | 10.707 (0.664) | 49 | 26810 | | | 0.00- 30.00 | 22.04 |

| RT | EXP RT (REL RT) | MASS | RESPONSE | AMOUNTS CAL-AMT ( PPBV) | ON-COL ( PPBV) | TARGET RANGE | RATIO |
|---|---|---|---|---|---|---|---|
| 13 Chloroethane (continued) | | | | | | | |
| 10.728 | 10.728 (0.665) | 66 | 42231 | | | 0.00- 30.00 | 34.72 |
| 14 Isopentane | | | | | CAS #: 78-78-4 | | |
| 10.852 | 10.852 (0.673) | 57 | 158285 | 10.0000 | 9.540 | 80.00- 120.00 | 100.00 |
| 10.852 | 10.852 (0.673) | 43 | 177047 | | | 0.00- 30.00 | 111.85 |
| 10.852 | 10.852 (0.673) | 42 | 147833 | | | 0.00- 30.00 | 93.40 |
| 16 Trichlorofluoromethane/Fr11 | | | | | CAS #: 75-69-4 | | |
| 11.474 | 11.474 (0.711) | 101 | 994243 | 10.0000 | 8.920 | 80.00- 120.00 | 100.00 |
| 11.474 | 11.474 (0.711) | 103 | 650276 | | | 35.40- 95.40 | 65.40 |
| 18 Ethanol | | | | | CAS #: 64-17-5 | | |
| 12.324 | 12.324 (0.764) | 45 | 66924 | 10.0000 | 11.501 | 80.00- 120.00 | 100.00 |
| 12.324 | 12.324 (0.764) | 46 | 22851 | | | 0.00- 30.00 | 34.14 |
| 12.324 | 12.324 (0.764) | 43 | 15326 | | | 0.00- 30.00 | 22.90 |
| 21 1,1-Dichloroethene | | | | | CAS #: 75-35-4 | | |
| 12.821 | 12.821 (0.795) | 98 | 163515 | 10.0000 | 10.202 | 80.00- 120.00 | 100.00 |
| 12.821 | 12.821 (0.795) | 61 | 395260 | | | 0.00- 30.00 | 241.73 |
| 12.821 | 12.821 (0.795) | 96 | 249592 | | | 0.00- 30.00 | 152.64 |
| 19 Freon 113 | | | | | CAS #: 76-13-1 | | |
| 12.780 | 12.780 (0.792) | 151 | 453617 | 10.0000 | 9.624 | 80.00- 120.00 | 100.00 |
| 12.780 | 12.780 (0.792) | 153 | 288341 | | | 33.56- 93.56 | 63.56 |
| 12.780 | 12.780 (0.792) | 101 | 609519 | | | 0.00- 30.00 | 134.37 |
| 22 Acetone | | | | | CAS #: 67-64-1 | | |
| 13.070 | 13.070 (0.810) | 58 | 99491 | 10.0000 | 9.733 | 80.00- 120.00 | 100.00 |
| 13.070 | 13.070 (0.810) | 43 | 320665 | | | 0.00- 30.00 | 322.31 |
| 23 Carbon Disulfide | | | | | CAS #: 75-15-0 | | |
| 13.194 | 13.194 (0.818) | 76 | 616475 | 10.0000 | 9.166 | 80.00- 120.00 | 100.00 |
| 26 3-Chloroprene | | | | | CAS #: 107-05-1 | | |
| 13.588 | 13.588 (0.843) | 76 | 101782 | 10.0000 | 10.260 | 80.00- 120.00 | 100.00 |
| 13.588 | 13.588 (0.843) | 41 | 165962 | | | 0.00- 30.00 | 163.06 |
| 25 2-Propanol | | | | | CAS #: 67-63-0 | | |
| 13.360 | 13.360 (0.828) | 45 | 285411 | 10.0000 | 10.328 | 80.00- 120.00 | 100.00 |
| 13.360 | 13.360 (0.828) | 43 | 74004 | | | 0.00- 30.00 | 25.93 |
| 13.360 | 13.360 (0.828) | 59 | 13633 | | | 0.00- 30.00 | 4.78 |
| 29 Methylene Chloride | | | | | CAS #: 75-09-2 | | |
| 13.885 | 13.885 (0.861) | 84 | 93148 | 10.0000 | 7.383 | 80.00- 120.00 | 100.00 |
| 13.885 | 13.885 (0.861) | 49 | 72651 | | | 0.00- 30.00 | 78.00 |

| RT | EXP RT (REL RT) | MASS | RESPONSE | AMOUNTS CAL-AMT ( PPBV) | ON-COL ( PPBV) | TARGET RANGE | RATIO |
|---|---|---|---|---|---|---|---|
| 29 Methylene Chloride (continued) | | | | | | | |
| 13.885 | 13.885 (0.861) | 51 | 23792 | | | 0.00- 30.00 | 25.54 |
| 30 tert-butyl alcohol | | | | | CAS #: 75-65-0 | | |
| 14.023 | 14.023 (0.869) | 59 | 267671 | 10.0000 | 10.216 | 80.00- 120.00 | 100.00 |
| 14.023 | 14.023 (0.869) | 41 | 55922 | | | 0.00- 30.00 | 20.89 |
| 14.023 | 14.023 (0.869) | 57 | 30668 | | | 0.00- 30.00 | 11.46 |
| 31 MTBE | | | | | CAS #: 1634-04-4 | | |
| 14.187 | 14.187 (0.880) | 73 | 866450 | 10.0000 | 10.660 | 80.00- 120.00 | 100.00 |
| 14.187 | 14.187 (0.880) | 57 | 139856 | | | 0.00- 30.00 | 16.14 |
| 14.187 | 14.187 (0.880) | 41 | 124967 | | | 0.00- 30.00 | 14.42 |
| 32 trans-1,2-Dichloroethene | | | | | CAS #: 156-60-5 | | |
| 14.242 | 14.242 (0.883) | 98 | 166958 | 10.0000 | 9.724 | 80.00- 120.00 | 100.00 |
| 14.242 | 14.242 (0.883) | 61 | 342312 | | | 0.00- 30.00 | 205.03 |
| 14.242 | 14.242 (0.883) | 96 | 266145 | | | 0.00- 30.00 | 159.41 |
| 35 Hexane | | | | | CAS #: 110-54-3 | | |
| 14.517 | 14.517 (0.900) | 57 | 316115 | 10.0000 | 10.727 | 80.00- 120.00 | 100.00 |
| 14.517 | 14.517 (0.900) | 43 | 164003 | | | 0.00- 30.00 | 51.88 |
| 14.544 | 14.544 (0.902) | 86 | 77988 | | | 0.00- 30.00 | 24.67 |
| 36 Isopropyl ether | | | | | CAS #: 108-20-3 | | |
| 14.874 | 14.874 (0.922) | 45 | 339952 | 10.0000 | 10.637 | 80.00- 120.00 | 100.00 |
| 14.874 | 14.874 (0.922) | 87 | 159801 | | | 0.00- 30.00 | 47.01 |
| 14.874 | 14.874 (0.922) | 59 | 55301 | | | 0.00- 30.00 | 16.27 |
| 37 1,1-Dichloroethane | | | | | CAS #: 75-34-3 | | |
| 14.928 | 14.928 (0.926) | 63 | 470946 | 10.0000 | 9.704 | 80.00- 120.00 | 100.00 |
| 14.956 | 14.956 (0.927) | 65 | 152425 | | | 0.00- 30.00 | 32.37 |
| 38 Vinyl Acetate | | | | | CAS #: 108-05-4 | | |
| 14.956 | 14.956 (0.927) | 86 | 74671 | 10.0000 | 10.415 | 80.00- 120.00 | 100.00 |
| 14.956 | 14.956 (0.927) | 42 | 49780 | | | 0.00- 30.00 | 66.67 |
| 14.956 | 14.956 (0.927) | 43 | 502859 | | | 0.00- 30.00 | 673.43 |
| 40 Ethyl-tert-butyl ether | | | | | CAS #: 637-92-3 | | |
| 15.368 | 15.368 (0.953) | 59 | 483614 | 10.0000 | 10.866 | 80.00- 120.00 | 100.00 |
| 15.368 | 15.368 (0.953) | 87 | 246444 | | | 0.00- 30.00 | 50.96 |
| 15.368 | 15.368 (0.953) | 41 | 77373 | | | 0.00- 30.00 | 16.00 |
| 41 cis-1,2-Dichloroethene | | | | | CAS #: 156-59-2 | | |
| 15.787 | 15.787 (0.979) | 98 | 278557 | 10.0000 | 10.790 | 80.00- 120.00 | 100.00 |
| 15.766 | 15.766 (0.978) | 61 | 513533 | | | 0.00- 30.00 | 184.35 |
| 15.787 | 15.787 (0.979) | 96 | 426099 | | | 122.97- 182.97 | 152.97 |

| RT | EXP RT (REL RT) | MASS | RESPONSE | AMOUNTS CAL-AMT ( PPBV) | ON-COL ( PPBV) | TARGET RANGE | RATIO |
|---|---|---|---|---|---|---|---|
| 42 2-Butanone | | | | | CAS #: 78-93-3 | | |
| 15.766 | 15.766 (0.978) | 72 | 190108 | 10.0000 | 10.259 | 80.00- 120.00 | 100.00 |
| 15.766 | 15.766 (0.978) | 43 | 444916 | | | 0.00- 30.00 | 234.03 |
| 15.766 | 15.766 (0.978) | 57 | 48066 | | | 0.00- 30.00 | 25.28 |
| 44 Tetrahydrofuran | | | | | CAS #: 109-99-9 | | |
| 16.128 | 16.128 (1.000) | 42 | 189791 | 10.0000 | 10.274 | 80.00- 120.00 | 100.00 |
| 16.128 | 16.128 (1.000) | 71 | 128704 | | | 0.00- 30.00 | 67.81 |
| 16.128 | 16.128 (1.000) | 72 | 143435 | | | 0.00- 30.00 | 75.58 |
| 47 Chloroform | | | | | CAS #: 67-66-3 | | |
| 16.189 | 16.189 (1.004) | 83 | 707484 | 10.0000 | 9.524 | 80.00- 120.00 | 100.00 |
| 16.189 | 16.189 (1.004) | 85 | 448971 | | | 0.00- 30.00 | 63.46 |
| 48 Cyclohexane | | | | | CAS #: 110-82-7 | | |
| 16.467 | 16.467 (1.021) | 84 | 411241 | 10.0000 | 10.367 | 80.00- 120.00 | 100.00 |
| 16.467 | 16.467 (1.021) | 56 | 330007 | | | 0.00- 30.00 | 80.25 |
| 16.467 | 16.467 (1.021) | 41 | 167958 | | | 0.00- 30.00 | 40.84 |
| 49 1,1,1-Trichloroethane | | | | | CAS #: 71-55-6 | | |
| 16.467 | 16.467 (1.021) | 97 | 816991 | 10.0000 | 9.624 | 80.00- 120.00 | 100.00 |
| 16.467 | 16.467 (1.021) | 99 | 530558 | | | 0.00- 30.00 | 64.94 |
| 51 Carbon Tetrachloride | | | | | CAS #: 56-23-5 | | |
| 16.652 | 16.652 (1.032) | 119 | 780276 | 10.0000 | 12.284 | 80.00- 120.00 | 100.00 |
| 16.652 | 16.652 (1.032) | 117 | 818540 | | | 0.00- 30.00 | 104.90 |
| 52 2,2,4-Trimethylpentane | | | | | CAS #: 540-84-1 | | |
| 16.926 | 16.926 (1.049) | 56 | 437295 | 10.0000 | 9.624 | 80.00- 120.00 | 100.00 |
| 16.926 | 16.926 (1.049) | 57 | 1398098 | | | 0.00- 30.00 | 319.72 |
| 16.926 | 16.926 (1.049) | 41 | 408163 | | | 0.00- 30.00 | 93.34 |
| 53 Benzene | | | | | CAS #: 71-43-2 | | |
| 17.013 | 17.013 (0.967) | 78 | 860522 | 10.0000 | 8.958 | 80.00- 120.00 | 100.00 |
| 17.013 | 17.013 (0.967) | 77 | 203897 | | | 0.00- 30.00 | 23.69 |
| 55 tert-amyl methyl ether | | | | | CAS #: 994-05-8 | | |
| 17.042 | 17.042 (0.969) | 87 | 144858 | 10.0000 | 10.231 | 80.00- 120.00 | 100.00 |
| 17.042 | 17.042 (0.969) | 73 | 554584 | | | 0.00- 30.00 | 382.85 |
| 17.013 | 17.013 (0.967) | 55 | 137644 | | | 0.00- 30.00 | 95.02 |
| 56 1,2-Dichloroethane | | | | | CAS #: 107-06-2 | | |
| 17.130 | 17.130 (0.974) | 62 | 470394 | 10.0000 | 8.683 | 80.00- 120.00 | 100.00 |
| 17.130 | 17.130 (0.974) | 64 | 155966 | | | 0.00- 30.00 | 33.16 |
| 57 Heptane | | | | | CAS #: 142-82-5 | | |
| 17.159 | 17.159 (0.976) | 57 | 201203 | 10.0000 | 10.133 | 80.00- 120.00 | 100.00 |

| RT | EXP RT (REL RT) | MASS | RESPONSE | AMOUNTS CAL-AMT ( PPBV) | AMOUNTS ON-COL ( PPBV) | TARGET RANGE | RATIO |
|---|---|---|---|---|---|---|---|
| 57 Heptane (continued) | | | | | | | |
| 17.159 | 17.159 (0.976) | 100 | 124611 | | | 0.00- 30.00 | 61.93 |
| 17.159 | 17.159 (0.976) | 43 | 305144 | | | 0.00- 30.00 | 151.66 |
| 59 Trichloroethene | | | | | CAS #: 79-01-6 | | |
| 18.025 | 18.025 (1.025) | 130 | 393351 | 10.0000 | 9.271 | 80.00- 120.00 | 100.00 |
| 18.025 | 18.025 (1.025) | 95 | 439886 | | | 0.00- 30.00 | 111.83 |
| 18.025 | 18.025 (1.025) | 97 | 285326 | | | 0.00- 30.00 | 72.54 |
| 60 Methylcyclohexane | | | | | CAS #: 108-87-2 | | |
| 18.272 | 18.272 (1.039) | 83 | 552348 | 10.0000 | 10.078 | 80.00- 120.00 | 100.00 |
| 18.272 | 18.272 (1.039) | 55 | 336935 | | | 0.00- 30.00 | 61.00 |
| 18.272 | 18.272 (1.039) | 56 | 99827 | | | 0.00- 30.00 | 18.07 |
| 61 1,2-Dichloropropane | | | | | CAS #: 78-87-5 | | |
| 18.519 | 18.519 (1.053) | 63 | 264122 | 10.0000 | 8.942 | 80.00- 120.00 | 100.00 |
| 18.519 | 18.519 (1.053) | 62 | 183924 | | | 0.00- 30.00 | 69.64 |
| 18.492 | 18.492 (1.052) | 41 | 153632 | | | 28.17- 88.17 | 58.17 |
| 62 1,4-Dioxane | | | | | CAS #: 123-91-1 | | |
| 18.629 | 18.629 (1.059) | 88 | 220984 | 10.0000 | 10.491 | 80.00- 120.00 | 100.00 |
| 18.629 | 18.629 (1.059) | 58 | 122265 | | | 0.00- 30.00 | 55.33 |
| 18.629 | 18.629 (1.059) | 57 | 37948 | | | 0.00- 30.00 | 17.17 |
| 63 Bromodichloromethane | | | | | CAS #: 75-27-4 | | |
| 18.959 | 18.959 (1.078) | 83 | 775014 | 10.0000 | 9.393 | 80.00- 120.00 | 100.00 |
| 18.959 | 18.959 (1.078) | 85 | 485380 | | | 0.00- 30.00 | 62.63 |
| 64 cis-1,3-Dichloropropene | | | | | CAS #: 10061-01-5 | | |
| 19.865 | 19.865 (1.130) | 75 | 521560 | 10.0000 | 10.204 | 80.00- 120.00 | 100.00 |
| 19.865 | 19.865 (1.130) | 77 | 160842 | | | 0.00- 30.00 | 30.84 |
| 19.865 | 19.865 (1.130) | 39 | 200921 | | | 8.52- 68.52 | 38.52 |
| 65 4-Methyl-2-pentanone | | | | | CAS #: 108-10-1 | | |
| 20.076 | 20.076 (1.142) | 43 | 424312 | 10.0000 | 11.114 | 80.00- 120.00 | 100.00 |
| 20.076 | 20.076 (1.142) | 58 | 205376 | | | 0.00- 30.00 | 48.40 |
| 20.076 | 20.076 (1.142) | 85 | 126602 | | | 0.00- 30.00 | 29.84 |
| 68 Toluene | | | | | CAS #: 108-88-3 | | |
| 20.525 | 20.525 (1.167) | 91 | 1065132 | 10.0000 | 9.291 | 80.00- 120.00 | 100.00 |
| 20.525 | 20.525 (1.167) | 92 | 634341 | | | 0.00- 30.00 | 59.56 |
| 69 trans-1,3-Dichloropropene | | | | | CAS #: 10061-02-6 | | |
| 20.995 | 20.995 (0.916) | 75 | 749001 | 10.0000 | 11.264 | 80.00- 120.00 | 100.00 |
| 20.995 | 20.995 (0.916) | 77 | 234594 | | | 0.00- 30.00 | 31.32 |
| 20.995 | 20.995 (0.916) | 39 | 196113 | | | 0.00- 56.18 | 26.18 |

| RT | EXP RT (REL RT) | MASS | RESPONSE | AMOUNTS CAL-AMT ( PPBV) | ON-COL ( PPBV) | TARGET RANGE | RATIO |
|---|---|---|---|---|---|---|---|
| 70 1,1,2-Trichloroethane | | | | | CAS #: 79-00-5 | | |
| 21.335 | 21.335 (0.931) | 97 | 382389 | 10.0000 | 9.545 | 80.00- 120.00 | 100.00 |
| 21.335 | 21.335 (0.931) | 99 | 235666 | | | 0.00- 30.00 | 61.63 |
| 21.335 | 21.335 (0.931) | 83 | 323142 | | | 54.51- 114.51 | 84.51 |
| 71 Tetrachloroethene | | | | | CAS #: 127-18-4 | | |
| 21.497 | 21.497 (0.938) | 166 | 456268 | 10.0000 | 9.812 | 80.00- 120.00 | 100.00 |
| 21.497 | 21.497 (0.938) | 129 | 395361 | | | 0.00- 30.00 | 86.65 |
| 21.497 | 21.497 (0.938) | 131 | 383750 | | | 0.00- 30.00 | 84.11 |
| 72 2-Hexanone | | | | | CAS #: 591-78-6 | | |
| 21.660 | 21.660 (0.945) | 58 | 271060 | 10.0000 | 10.690 | 80.00- 120.00 | 100.00 |
| 21.660 | 21.660 (0.945) | 43 | 413711 | | | 0.00- 30.00 | 152.63 |
| 21.660 | 21.660 (0.945) | 100 | 76781 | | | 0.00- 30.00 | 28.33 |
| 73 Dibromochloromethane | | | | | CAS #: 124-48-1 | | |
| 22.018 | 22.018 (0.960) | 129 | 722151 | 10.0000 | 10.594 | 80.00- 120.00 | 100.00 |
| 22.018 | 22.018 (0.960) | 127 | 558287 | | | 0.00- 30.00 | 77.31 |
| 74 1,2-Dibromoethane | | | | | CAS #: 106-93-4 | | |
| 22.278 | 22.278 (0.972) | 107 | 616689 | 10.0000 | 10.036 | 80.00- 120.00 | 100.00 |
| 22.278 | 22.278 (0.972) | 109 | 565302 | | | 0.00- 30.00 | 91.67 |
| 76 Chlorobenzene | | | | | CAS #: 108-90-7 | | |
| 22.951 | 22.951 (1.001) | 112 | 836500 | 10.0000 | 9.466 | 80.00- 120.00 | 100.00 |
| 22.951 | 22.951 (1.001) | 114 | 269962 | | | 0.00- 30.00 | 32.27 |
| 22.951 | 22.951 (1.001) | 77 | 540810 | | | 34.65- 94.65 | 64.65 |
| 77 Ethyl Benzene | | | | | CAS #: 100-41-4 | | |
| 23.023 | 23.023 (1.004) | 106 | 430453 | 10.0000 | 9.970 | 80.00- 120.00 | 100.00 |
| 23.023 | 23.023 (1.004) | 91 | 1467775 | | | 0.00- 30.00 | 340.98 |
| 80 m,p-Xylene | | | | | CAS #: 108-38-3 | | |
| 23.192 | 23.192 (1.012) | 106 | 526649 | 10.0000 | 10.138 | 80.00- 120.00 | 100.00 |
| 23.192 | 23.192 (1.012) | 91 | 1176432 | | | 0.00- 30.00 | 223.38 |
| 81 o-Xylene | | | | | CAS #: 95-47-6 | | |
| 23.770 | 23.770 (1.037) | 106 | 521167 | 10.0000 | 10.435 | 80.00- 120.00 | 100.00 |
| 23.770 | 23.770 (1.037) | 91 | 1221585 | | | 0.00- 30.00 | 234.39 |
| 83 Styrene | | | | | CAS #: 100-42-5 | | |
| 23.794 | 23.794 (1.038) | 104 | 798785 | 10.0000 | 10.595 | 80.00- 120.00 | 100.00 |
| 23.794 | 23.794 (1.038) | 78 | 472146 | | | 0.00- 30.00 | 59.11 |
| 84 Bromoform | | | | | CAS #: 75-25-2 | | |
| 24.132 | 24.132 (1.053) | 173 | 673066 | 10.0000 | 11.421 | 80.00- 120.00 | 100.00 |

| RT | EXP RT (REL RT) | MASS | RESPONSE | AMOUNTS CAL-AMT ( PPBV) | ON-COL ( PPBV) | TARGET RANGE | RATIO |
|---|---|---|---|---|---|---|---|
| 84 Bromoform (continued) | | | | | | | |
| 24.132 | 24.132 (1.053) | 171 | 340813 | | | 0.00- 30.00 | 50.64 |
| 85 Cumene | | | | | CAS #: 98-82-8 | | |
| 24.228 | 24.228 (1.057) | 105 | 1699863 | 10.0000 | 10.512 | 80.00- 120.00 | 100.00 |
| 24.228 | 24.228 (1.057) | 120 | 405201 | | | 0.00- 30.00 | 23.84 |
| 89 1,1,2,2-Tetrachloroethane | | | | | CAS #: 79-34-5 | | |
| 24.680 | 24.680 (1.076) | 83 | 763005 | 10.0000 | 9.130 | 80.00- 120.00 | 100.00 |
| 24.680 | 24.680 (1.076) | 85 | 483313 | | | 0.00- 30.00 | 63.34 |
| 90 Propylbenzene | | | | | CAS #: 103-65-1 | | |
| 24.758 | 24.758 (1.080) | 91 | 2064727 | 10.0000 | 9.968 | 80.00- 120.00 | 100.00 |
| 24.758 | 24.758 (1.080) | 120 | 426300 | | | 0.00- 30.00 | 20.65 |
| 92 4-Ethyltoluene | | | | | CAS #: 622-96-8 | | |
| 24.887 | 24.887 (1.085) | 105 | 1829616 | 10.0000 | 10.287 | 80.00- 120.00 | 100.00 |
| 24.887 | 24.887 (1.085) | 120 | 497324 | | | 0.00- 30.00 | 27.18 |
| 94 1,3,5-Trimethylbenzene | | | | | CAS #: 108-67-8 | | |
| 24.938 | 24.938 (1.088) | 105 | 1583661 | 10.0000 | 10.344 | 80.00- 120.00 | 100.00 |
| 24.938 | 24.938 (1.088) | 120 | 683068 | | | 0.00- 30.00 | 43.13 |
| 98 1,2,4-Trimethylbenzene | | | | | CAS #: 95-63-6 | | |
| 25.410 | 25.410 (1.108) | 105 | 1467069 | 10.0000 | 10.886 | 80.00- 120.00 | 100.00 |
| 25.410 | 25.410 (1.108) | 120 | 597506 | | | 0.00- 30.00 | 40.73 |
| 101 1,3-Dichlorobenzene | | | | | CAS #: 541-73-1 | | |
| 25.791 | 25.791 (1.125) | 146 | 837881 | 10.0000 | 9.808 | 80.00- 120.00 | 100.00 |
| 25.791 | 25.791 (1.125) | 148 | 539457 | | | 0.00- 30.00 | 64.38 |
| 25.791 | 25.791 (1.125) | 111 | 402826 | | | 0.00- 30.00 | 48.08 |
| 104 1,4-Dichlorobenzene | | | | | CAS #: 106-46-7 | | |
| 25.903 | 25.903 (1.130) | 146 | 834268 | 10.0000 | 9.760 | 80.00- 120.00 | 100.00 |
| 25.903 | 25.903 (1.130) | 148 | 537822 | | | 0.00- 30.00 | 64.47 |
| 25.903 | 25.903 (1.130) | 111 | 384336 | | | 0.00- 30.00 | 46.07 |
| 105 alpha-chlorotoluene | | | | | CAS #: 100-44-7 | | |
| 26.060 | 26.060 (1.137) | 91 | 1344958 | 10.0000 | 10.330 | 80.00- 120.00 | 100.00 |
| 26.060 | 26.060 (1.137) | 126 | 232243 | | | 0.00- 30.00 | 17.27 |
| 108 1,2-Dichlorobenzene | | | | | CAS #: 95-50-1 | | |
| 26.352 | 26.352 (1.149) | 146 | 775708 | 10.0000 | 9.571 | 80.00- 120.00 | 100.00 |
| 26.352 | 26.352 (1.149) | 148 | 501707 | | | 34.68- 94.68 | 64.68 |
| 26.352 | 26.352 (1.149) | 111 | 386808 | | | 19.87- 79.87 | 49.87 |

| RT | EXP RT (REL RT) | MASS | RESPONSE | AMOUNTS CAL-AMT ( PPBV) | ON-COL ( PPBV) | TARGET RANGE | RATIO |
|---|---|---|---|---|---|---|---|
| 112 1,2,4-Trichlorobenzene | | | | | CAS #: 120-82-1 | | |
| 28.145 | 28.145 (1.228) | 180 | 605361 | 10.0000 | 11.426 | 80.00- 120.00 | 100.00 |
| 28.145 | 28.145 (1.228) | 182 | 575935 | | | 0.00- 30.00 | 95.14 |
| 113 Hexachlorobutadiene | | | | | CAS #: 87-68-3 | | |
| 28.235 | 28.235 (1.232) | 225 | 511338 | 10.0000 | 10.803 | 80.00- 120.00 | 100.00 |
| 28.235 | 28.235 (1.232) | 223 | 322880 | | | 0.00- 30.00 | 63.14 |
| 114 Naphthalene | | | | | CAS #: 91-20-3 | | |
| 28.504 | 28.504 (1.243) | 128 | 131167 | 1.00000 | 1.163 | 80.00- 120.00 | 100.00 |
| 28.504 | 28.504 (1.243) | 127 | 17768 | | | 0.00- 30.00 | 13.55 |

Report Date: 14-Mar-2012 12:32

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msde.i
Lab File ID: e031405.d
Lab Smp Id: CCV
Analysis Type: VOA
Quant Type: ISTD
Operator: LL
Method File: /chem/msde.i/14Mar2012.b/e12l0308b.m
Misc Info: 10ppbv (50ppbv)

Calibration Date: 14-MAR-2012
Calibration Time: 10:55
Client Smp ID: CCV
Level: LOW
Sample Type: AIR

| | | AREA LIMIT | | | |
|---|---|---|---|---|---|
| COMPOUND | STANDARD | LOWER | UPPER | SAMPLE | %DIFF |
| 46 Bromochloromethan | 82564 | 49538 | 115590 | 90443 | 9.54 |
| 58 1,4-Difluorobenze | 333874 | 200324 | 467424 | 374503 | 12.17 |
| 75 Chlorobenzene-d5 | 288343 | 173006 | 403680 | 310086 | 7.54 |

| | | RT LIMIT | | | |
|---|---|---|---|---|---|
| COMPOUND | STANDARD | LOWER | UPPER | SAMPLE | %DIFF |
| 46 Bromochloromethan | 16.13 | 15.80 | 16.46 | 16.13 | 0.00 |
| 58 1,4-Difluorobenze | 17.59 | 17.26 | 17.92 | 17.59 | 0.00 |
| 75 Chlorobenzene-d5 | 22.93 | 22.60 | 23.26 | 22.93 | 0.00 |

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

¢¨

Data File: /chem/msde.i/14Mar2012.b/e031405.d



Date : 14-MAR-2012 10:17

Client ID: CCV

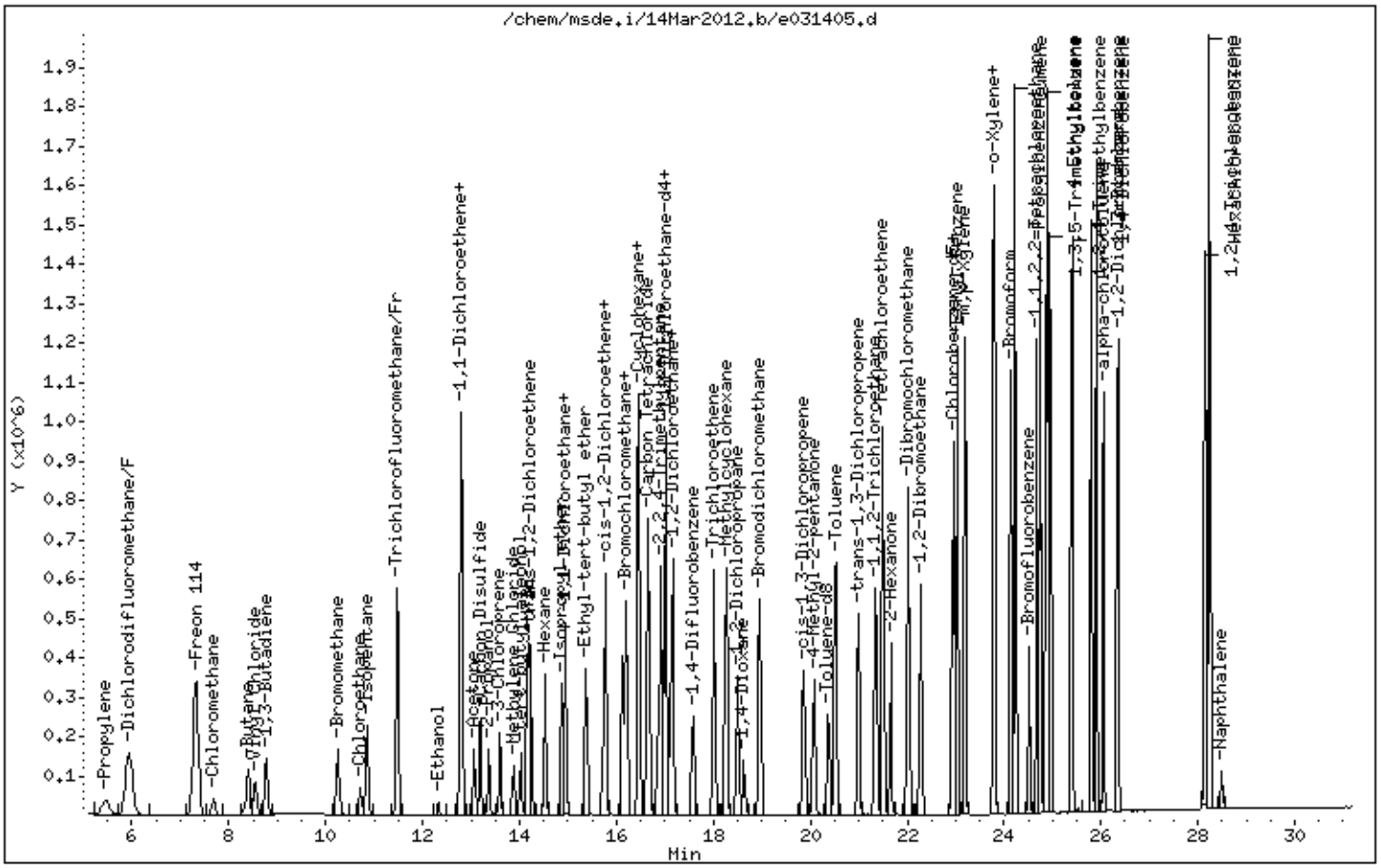
Instrument: msde.i

Sample Info: 50mL #2370-196; CCV; CCV

Operator: LL

Column phase: RTx-624

Column diameter: 0.32



Air Toxics Ltd.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: msde.i Injection Date: 14-MAR-2012 10:55
Lab File ID: e031406.d Init. Cal. Date(s): 08-MAR-2012 10-MAR-2012
Analysis Type: AIR Init. Cal. Times: 18:33 19:22
Lab Sample ID: CCV Quant Type: ISTD
Method: /chem/msde.i/14Mar2012.b/e12l0308b.m

| COMPOUND | RRF / AMOUNT | RF40 | MIN RRF | %D / %DRIFT | MAX %D / %DRIFT | CURVE TYPE |
|---|---|---|---|---|---|---|
|$ 54 1,2-Dichloroethane-d4 | 1.86326 | 1.77958 | 0.010 | 4.49129 | 30.00000 | Averaged |
|$ 67 Toluene-d8 | 1.00712 | 0.96187 | 0.010 | 4.49273 | 30.00000 | Averaged |
|$ 87 Bromofluorobenzene | 0.57198 | 0.59190 | 0.010 | -3.48235 | 30.00000 | Averaged |
| 50 Thiophene | 0.80868 | 0.75164 | 0.010 | 7.05290 | 40.00000 | Averaged |
| 24 2-Methylpentane | 1.03414 | 1.03604 | 0.010 | -0.18430 | 40.00000 | Averaged |
| 45 2,3-Dimethylpentane | 0.95797 | 1.03080 | 0.010 | -7.60203 | 40.00000 | Averaged |
| 102 Indan | 1.53284 | 1.43311 | 0.010 | 6.50639 | 40.00000 | Averaged |
| 106 Indene | 0.83534 | 0.68786 | 0.010 | 17.65497 | 40.00000 | Averaged |

Air Toxics Ltd.

EPA TO-15/Modified TO14A

Data file : /chem/msde.i/14Mar2012.b/e031406.d
Lab Smp Id: CCV Client Smp ID: CCV
Inj Date : 14-MAR-2012 10:55
Operator : LL Inst ID: msde.i
Smp Info : 75mL #2403-72
Misc Info : 1.5ppbv (5.0ppbv)
Comment : Low-Level/GC-MS
Method : /chem/msde.i/14Mar2012.b/e12l0308b.m
Meth Date : 14-Mar-2012 10:30 llarson Quant Type: ISTD
Cal Date : 10-MAR-2012 19:22 Cal File: e031014.d
Als bottle: 8 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AT3CCV.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

| Name | Value | Description |
|---|---|---|
| DF | 1.00000 | Dilution Factor |

| | | | | AMOUNTS | | | |
|---|---|---|---|---|---|---|---|
| | | | | CAL-AMT | ON-COL | | |
| RT | EXP RT (REL RT) | MASS | RESPONSE | ( PPBV) | ( PPBV) | TARGET RANGE | RATIO |
| * 46 Bromochloromethane | | | | | CAS #: 74-97-5 | | |
| 16.127 | 16.127 (1.000) | 130 | 82564 | 5.00000 | | 80.00- 120.00 | 100.00 |
| 16.127 | 16.127 (1.000) | 128 | 64200 | | | 0.00- 30.00 | 77.76 |
| 16.127 | 16.127 (1.000) | 49 | 74614 | | | 0.00- 30.00 | 90.37 |
| * 58 1,4-Difluorobenzene | | | | | CAS #: 540-36-3 | | |
| 17.585 | 17.585 (1.000) | 114 | 333874 | 5.00000 | | 80.00- 120.00 | 100.00 |
| 17.585 | 17.585 (1.000) | 88 | 59504 | | | 0.00- 30.00 | 17.82 |
| * 75 Chlorobenzene-d5 | | | | | CAS #: 3114-55-4 | | |
| 22.927 | 22.927 (1.000) | 117 | 288343 | 5.00000 | | 80.00- 120.00 | 100.00 |
| 22.903 | 22.903 (1.000) | 82 | 182768 | | | 0.00- 30.00 | 63.39 |
| $ 54 1,2-Dichloroethane-d4 | | | | | CAS #: 17060-07-0 | | |
| 17.013 | 17.013 (1.055) | 65 | 146929 | 5.00000 | 4.775 | 80.00- 120.00 | 100.00 |
| 17.013 | 17.013 (1.055) | 67 | 74711 | | | 0.00- 30.00 | 50.85 |

| RT | EXP RT (REL RT) | MASS | RESPONSE | AMOUNTS CAL-AMT ( PPBV) | AMOUNTS ON-COL ( PPBV) | TARGET RANGE | RATIO |
|---|---|---|---|---|---|---|---|
| $ 67 Toluene-d8 | | | | | CAS #: 2037-26-5 | | |
| 20.368 | 20.368 (1.158) | 98 | 321143 | 5.00000 | 4.775 | 80.00- 120.00 | 100.00 |
| 20.368 | 20.368 (1.158) | 70 | 38458 | | | 0.00- 30.00 | 11.98 |
| 20.368 | 20.368 (1.158) | 100 | 208356 | | | 34.88- 94.88 | 64.88 |
| $ 87 Bromofluorobenzene | | | | | CAS #: 460-00-4 | | |
| 24.525 | 24.525 (1.070) | 174 | 170670 | 5.00000 | 5.174 | 80.00- 120.00 | 100.00 |
| 24.525 | 24.525 (1.070) | 95 | 256517 | | | 120.30- 180.30 | 150.30 |
| 24.525 | 24.525 (1.070) | 176 | 162222 | | | 65.05- 125.05 | 95.05 |
| 50 Thiophene | | | | | CAS #: 110-02-1 | | |
| 17.362 | 17.362 (0.987) | 84 | 75286 | 1.50000 | 1.394 | 80.00- 120.00 | 100.00(T) |
| 17.362 | 17.362 (0.987) | 58 | 38984 | | | 0.00- 30.00 | 51.78 |
| 0.000 | 1.000 (0.000) | 0 | 0 | | | 0.00- 30.00 | 0.00 |
| 24 2-Methylpentane | | | | | CAS #: 107-83-5 | | |
| 13.692 | 13.692 (0.849) | 71 | 25662 | 1.50000 | 1.503 | 80.00- 120.00 | 100.00 |
| 13.692 | 13.692 (0.849) | 43 | 42734 | | | 0.00- 30.00 | 166.53 |
| 13.692 | 13.692 (0.849) | 42 | 20888 | | | 0.00- 30.00 | 81.40 |
| 45 2,3-Dimethylpentane | | | | | CAS #: 565-59-3 | | |
| 16.405 | 16.405 (1.017) | 71 | 25532 | 1.50000 | 1.614 | 80.00- 120.00 | 100.00 |
| 16.405 | 16.405 (1.017) | 56 | 54024 | | | 0.00- 30.00 | 211.59 |
| 16.405 | 16.405 (1.017) | 43 | 32497 | | | 0.00- 30.00 | 127.28 |
| 102 Indan | | | | | CAS #: 496-11-7 | | |
| 26.150 | 26.150 (1.141) | 117 | 123968 | 1.50000 | 1.402 | 80.00- 120.00 | 100.00 |
| 26.150 | 26.150 (1.141) | 118 | 71992 | | | 0.00- 30.00 | 58.07 |
| 26.150 | 26.150 (1.141) | 91 | 25308 | | | 0.00- 30.00 | 20.41 |
| 106 Indene | | | | | CAS #: 95-13-6 | | |
| 26.419 | 26.419 (1.152) | 115 | 59502 | 1.50000 | 1.235 | 80.00- 120.00 | 100.00(T) |
| 26.419 | 26.419 (1.152) | 116 | 53860 | | | 0.00- 30.00 | 90.52 |
| 0.000 | 1.000 (0.000) | 0 | 0 | | | 0.00- 30.00 | 0.00 |

QC Flag Legend

T - Target compound detected outside RT window.

Report Date: 14-Mar-2012 10:30

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msde.i
Lab File ID: e031406.d
Lab Smp Id: CCV
Analysis Type: VOA
Quant Type: ISTD
Operator: LL
Method File: /chem/msde.i/14Mar2012.b/e12l0308b.m
Misc Info: 1.5ppbv (5.0ppbv)

Calibration Date: 14-MAR-2012
Calibration Time: 10:17
Client Smp ID: CCV
Level: LOW
Sample Type: AIR

| | | AREA LIMIT | | | |
|---|---|---|---|---|---|
| COMPOUND | STANDARD | LOWER | UPPER | SAMPLE | %DIFF |
| 46 Bromochloromethan | 90443 | 54266 | 126620 | 82564 | -8.71 |
| 58 1,4-Difluorobenze | 374503 | 224702 | 524304 | 333874 | -10.85 |
| 75 Chlorobenzene-d5 | 310086 | 186052 | 434120 | 288343 | -7.01 |

| | | RT LIMIT | | | |
|---|---|---|---|---|---|
| COMPOUND | STANDARD | LOWER | UPPER | SAMPLE | %DIFF |
| 46 Bromochloromethan | 16.13 | 15.80 | 16.46 | 16.13 | 0.00 |
| 58 1,4-Difluorobenze | 17.59 | 17.26 | 17.92 | 17.59 | 0.00 |
| 75 Chlorobenzene-d5 | 22.93 | 22.60 | 23.26 | 22.93 | 0.00 |

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Data File: /chem/msde.i/14Mar2012.b/e031406.d

Date : 14-MAR-2012 10:55

Client ID: CCV

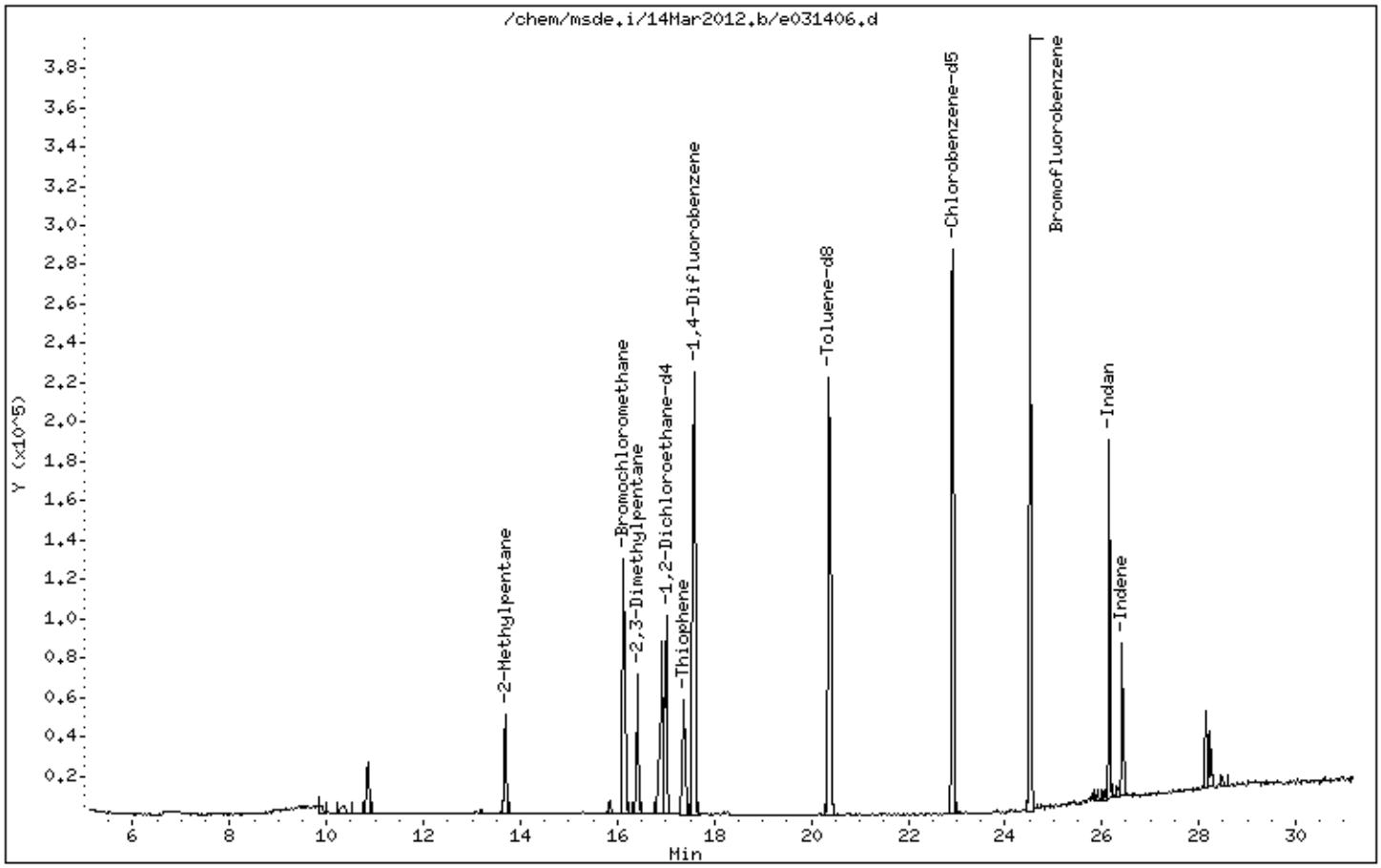
Instrument: msde.i

Sample Info: 75mL #2403-72

Operator: LL

Column phase: RTx-624

Column diameter: 0.32



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**Client Sample ID: CCV**

**Lab ID#: 1202444-05C**

**MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN**

| | | | |
|---|---|---|---|
| **File Name:** | **e032002** | **Date of Collection: NA** | |
| **Dil. Factor:** | **1.00** | **Date of Analysis: 3/20/12 10:17 AM** | |

| Compound | %Recovery |
|---|---|
| Freon 12 | 102 |
| Freon 114 | 109 |
| Chloromethane | 103 |
| Vinyl Chloride | 106 |
| 1,3-Butadiene | 108 |
| Bromomethane | 102 |
| Chloroethane | 101 |
| Freon 11 | 100 |
| Ethanol | 119 |
| Freon 113 | 106 |
| 1,1-Dichloroethene | 111 |
| Acetone | 105 |
| 2-Propanol | 108 |
| Carbon Disulfide | 97 |
| 3-Chloropropene | 102 |
| Methylene Chloride | 61 Q |
| Methyl tert-butyl ether | 114 |
| trans-1,2-Dichloroethene | 104 |
| Hexane | 109 |
| 1,1-Dichloroethane | 102 |
| 2-Butanone (Methyl Ethyl Ketone) | 103 |
| cis-1,2-Dichloroethene | 113 |
| Tetrahydrofuran | 105 |
| Chloroform | 102 |
| 1,1,1-Trichloroethane | 104 |
| Cyclohexane | 109 |
| Carbon Tetrachloride | 131 Q |
| 2,2,4-Trimethylpentane | 102 |
| Benzene | 96 |
| 1,2-Dichloroethane | 97 |
| Heptane | 112 |
| Trichloroethene | 106 |
| 1,2-Dichloropropane | 96 |
| 1,4-Dioxane | 111 |
| Bromodichloromethane | 102 |
| cis-1,3-Dichloropropene | 116 |
| 4-Methyl-2-pentanone | 118 |
| Toluene | 102 |
| trans-1,3-Dichloropropene | 94 |
| 1,1,2-Trichloroethane | 104 |
| Tetrachloroethene | 112 |
| 2-Hexanone | 109 |

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**Client Sample ID: CCV**

**Lab ID#: 1202444-05C**

**MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN**

| | | | |
|---|---|---|---|
| **File Name:** | **e032002** | **Date of Collection: NA** | |
| **Dil. Factor:** | **1.00** | **Date of Analysis: 3/20/12 10:17 AM** | |

| Compound | %Recovery |
|---|---|
| Dibromochloromethane | 121 |
| 1,2-Dibromoethane (EDB) | 112 |
| Chlorobenzene | 104 |
| Ethyl Benzene | 113 |
| m,p-Xylene | 115 |
| o-Xylene | 119 |
| Styrene | 120 |
| Bromoform | 127 |
| Cumene | 119 |
| 1,1,2,2-Tetrachloroethane | 95 |
| Propylbenzene | 111 |
| 4-Ethyltoluene | 115 |
| 1,3,5-Trimethylbenzene | 114 |
| 1,2,4-Trimethylbenzene | 122 |
| 1,3-Dichlorobenzene | 109 |
| 1,4-Dichlorobenzene | 109 |
| alpha-Chlorotoluene | 115 |
| 1,2-Dichlorobenzene | 107 |
| 1,2,4-Trichlorobenzene | 123 |
| Hexachlorobutadiene | 121 |
| 2,3-Dimethylpentane | 100 |
| 2-Methylpentane | 93 |
| Indene | 69 |
| Indan | 83 |
| Isopentane | 102 |
| Naphthalene | 125 |
| Thiophene | 92 |

Q = Exceeds Quality Control limits.

**Container Type: NA - Not Applicable**

| Surrogates | %Recovery | Method Limits |
|---|---|---|
| 1,2-Dichloroethane-d4 | 96 | 70-130 |
| Toluene-d8 | 99 | 70-130 |
| 4-Bromofluorobenzene | 106 | 70-130 |

Air Toxics Ltd.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: msde.i Injection Date: 20-MAR-2012 10:17
Lab File ID: e032002.d Init. Cal. Date(s): 08-MAR-2012 16-MAR-2012
Analysis Type: AIR Init. Cal. Times: 18:33 11:53
Lab Sample ID: CCV Quant Type: ISTD
Method: /chem/msde.i/20Mar2012.b/e12l0308c.m

| COMPOUND | RRF / AMOUNT | RF10 | MIN RRF | %D / %DRIFT | MAX %D / %DRIFT | CURVE TYPE | |
|---|---|---|---|---|---|---|---|
| $ 54 1,2-Dichloroethane-d4 | 1.86326 | 1.77948 | 0.010 | 4.49653 | 30.00000 | Averaged | |
| $ 67 Toluene-d8 | 1.00712 | 0.99381 | 0.010 | 1.32114 | 30.00000 | Averaged | |
| $ 87 Bromofluorobenzene | 0.57198 | 0.60956 | 0.010 | -6.57075 | 30.00000 | Averaged | |
| 2 Propylene | 0.79701 | 0.78040 | 0.010 | 2.08465 | 30.00000 | Averaged | |
| 4 Dichlorodifluoromethane/Fr1 | 5.84293 | 5.99138 | 0.010 | -2.54073 | 30.00000 | Averaged | |
| 6 Freon 114 | 3.03998 | 3.30938 | 0.010 | -8.86195 | 30.00000 | Averaged | |
| 7 Chloromethane | 0.86355 | 0.88662 | 0.010 | -2.67131 | 30.00000 | Averaged | |
| 9 Butane | 0.29719 | 0.34666 | 0.010 | -16.64393 | 30.00000 | Averaged | |
| 10 Vinyl Chloride | 1.36299 | 1.44028 | 0.010 | -5.67102 | 30.00000 | Averaged | |
| 11 1,3-Butadiene | 0.85666 | 0.92971 | 0.010 | -8.52675 | 30.00000 | Averaged | |
| 12 Bromomethane | 1.50702 | 1.53746 | 0.010 | -2.01970 | 30.00000 | Averaged | |
| 13 Chloroethane | 0.72626 | 0.73609 | 0.010 | -1.35349 | 30.00000 | Averaged | |
| 14 Isopentane | 0.91729 | 0.94031 | 0.010 | -2.50868 | 30.00000 | Averaged | |
| 16 Trichlorofluoromethane/Fr11 | 6.16189 | 6.17431 | 0.010 | -0.20157 | 30.00000 | Averaged | |
| 18 Ethanol | 0.32170 | 0.38345 | 0.010 | -19.19633 | 30.00000 | Averaged | |
| 21 1,1-Dichloroethene | 0.88609 | 0.98373 | 0.010 | -11.01908 | 30.00000 | Averaged | |
| 19 Freon 113 | 2.60566 | 2.77139 | 0.010 | -6.36034 | 30.00000 | Averaged | |
| 22 Acetone | 0.56508 | 0.59167 | 0.010 | -4.70443 | 30.00000 | Averaged | |
| 23 Carbon Disulfide | 3.71808 | 3.62247 | 0.010 | 2.57161 | 30.00000 | Averaged | |
| 26 3-Chloroprene | 0.54841 | 0.56197 | 0.010 | -2.47292 | 30.00000 | Averaged | |
| 25 2-Propanol | 1.52769 | 1.65560 | 0.010 | -8.37284 | 30.00000 | Averaged | |
| 29 Methylene Chloride | 0.69752 | 0.42329 | 0.010 | 39.31466 | 30.00000 | Averaged | <- |
| 30 tert-butyl alcohol | 1.44848 | 1.64384 | 0.010 | -13.48729 | 30.00000 | Averaged | |
| 31 MTBE | 4.49322 | 5.14415 | 0.010 | -14.48684 | 30.00000 | Averaged | |
| 32 trans-1,2-Dichloroethene | 0.94921 | 0.98783 | 0.010 | -4.06850 | 30.00000 | Averaged | |
| 35 Hexane | 1.62919 | 1.77583 | 0.010 | -9.00056 | 30.00000 | Averaged | |
| 36 Isopropyl ether | 1.76676 | 1.91804 | 0.010 | -8.56229 | 30.00000 | Averaged | |
| 37 1,1-Dichloroethane | 2.68292 | 2.74069 | 0.010 | -2.15319 | 30.00000 | Averaged | |
| 38 Vinyl Acetate | 0.39637 | 0.41605 | 0.010 | -4.96655 | 30.00000 | Averaged | |
| 40 Ethyl-tert-butyl ether | 2.46045 | 2.77002 | 0.010 | -12.58201 | 30.00000 | Averaged | |
| 41 cis-1,2-Dichloroethene | 1.42716 | 1.60713 | 0.010 | -12.61058 | 30.00000 | Averaged | |
| 42 2-Butanone | 1.02444 | 1.05926 | 0.010 | -3.39848 | 30.00000 | Averaged | |
| 44 Tetrahydrofuran | 1.02128 | 1.07547 | 0.010 | -5.30535 | 30.00000 | Averaged | |
| 47 Chloroform | 4.10691 | 4.17318 | 0.010 | -1.61359 | 30.00000 | Averaged | |
| 48 Cyclohexane | 2.19290 | 2.38244 | 0.010 | -8.64333 | 30.00000 | Averaged | |
| 49 1,1,1-Trichloroethane | 4.69304 | 4.89652 | 0.010 | -4.33576 | 30.00000 | Averaged | |

Air Toxics Ltd.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: msde.i Injection Date: 20-MAR-2012 10:17
Lab File ID: e032002.d Init. Cal. Date(s): 08-MAR-2012 16-MAR-2012
Analysis Type: AIR Init. Cal. Times: 18:33 11:53
Lab Sample ID: CCV Quant Type: ISTD
Method: /chem/msde.i/20Mar2012.b/e12l0308c.m

| COMPOUND | RRF / AMOUNT | RF10 | MIN RRF | %D / %DRIFT | MAX %D / %DRIFT | CURVE TYPE | |
|---|---|---|---|---|---|---|---|
| 51 Carbon Tetrachloride | 3.51149 | 4.60404 | 0.010 | -31.11375 | 30.00000 | Averaged | <- |
| 52 2,2,4-Trimethylpentane | 2.51204 | 2.57172 | 0.010 | -2.37550 | 30.00000 | Averaged | |
| 53 Benzene | 1.28260 | 1.23050 | 0.010 | 4.06178 | 30.00000 | Averaged | |
| 55 tert-amyl methyl ether | 0.18904 | 0.21120 | 0.010 | -11.72470 | 30.00000 | Averaged | |
| 56 1,2-Dichloroethane | 0.72324 | 0.70432 | 0.010 | 2.61697 | 30.00000 | Averaged | |
| 57 Heptane | 0.26510 | 0.29661 | 0.010 | -11.88364 | 30.00000 | Averaged | |
| 59 Trichloroethene | 0.56646 | 0.60374 | 0.010 | -6.58087 | 30.00000 | Averaged | |
| 60 Methylcyclohexane | 0.73175 | 0.79869 | 0.010 | -9.14736 | 30.00000 | Averaged | |
| 61 1,2-Dichloropropane | 0.39434 | 0.37832 | 0.010 | 4.06232 | 30.00000 | Averaged | |
| 62 1,4-Dioxane | 0.28123 | 0.31349 | 0.010 | -11.47174 | 30.00000 | Averaged | |
| 63 Bromodichloromethane | 1.10157 | 1.12391 | 0.010 | -2.02821 | 30.00000 | Averaged | |
| 64 cis-1,3-Dichloropropene | 0.68242 | 0.79357 | 0.010 | -16.28636 | 30.00000 | Averaged | |
| 65 4-Methyl-2-pentanone | 0.50969 | 0.60365 | 0.010 | -18.43409 | 30.00000 | Averaged | |
| 68 Toluene | 1.53051 | 1.55855 | 0.010 | -1.83193 | 30.00000 | Averaged | |
| 69 trans-1,3-Dichloropropene | 1.07223 | 1.00866 | 0.010 | 5.92854 | 30.00000 | Averaged | |
| 70 1,1,2-Trichloroethane | 0.64599 | 0.67226 | 0.010 | -4.06728 | 30.00000 | Averaged | |
| 71 Tetrachloroethene | 0.74985 | 0.83985 | 0.010 | -12.00359 | 30.00000 | Averaged | |
| 72 2-Hexanone | 0.40884 | 0.44628 | 0.010 | -9.15774 | 30.00000 | Averaged | |
| 73 Dibromochloromethane | 1.09912 | 1.33321 | 0.010 | -21.29763 | 30.00000 | Averaged | |
| 74 1,2-Dibromoethane | 0.99085 | 1.10920 | 0.010 | -11.94407 | 30.00000 | Averaged | |
| 76 Chlorobenzene | 1.42498 | 1.48620 | 0.010 | -4.29594 | 30.00000 | Averaged | |
| 77 Ethyl Benzene | 0.69620 | 0.78770 | 0.010 | -13.14251 | 30.00000 | Averaged | |
| 80 m,p-Xylene | 0.83768 | 0.96584 | 0.010 | -15.29999 | 30.00000 | Averaged | |
| 81 o-Xylene | 0.80532 | 0.95827 | 0.010 | -18.99318 | 30.00000 | Averaged | |
| 83 Styrene | 1.21563 | 1.45492 | 0.010 | -19.68496 | 30.00000 | Averaged | |
| 84 Bromoform | 0.95023 | 1.20590 | 0.010 | -26.90525 | 30.00000 | Averaged | |
| 85 Cumene | 2.60750 | 3.11488 | 0.010 | -19.45849 | 30.00000 | Averaged | |
| 89 1,1,2,2-Tetrachloroethane | 1.34761 | 1.27647 | 0.010 | 5.27910 | 30.00000 | Averaged | |
| 90 Propylbenzene | 3.33993 | 3.69686 | 0.010 | -10.68681 | 30.00000 | Averaged | |
| 92 4-Ethyltoluene | 2.86793 | 3.29945 | 0.010 | -15.04644 | 30.00000 | Averaged | |
| 94 1,3,5-Trimethylbenzene | 2.46856 | 2.82139 | 0.010 | -14.29290 | 30.00000 | Averaged | |
| 98 1,2,4-Trimethylbenzene | 2.17315 | 2.64038 | 0.010 | -21.50029 | 30.00000 | Averaged | |
| 101 1,3-Dichlorobenzene | 1.37755 | 1.50737 | 0.010 | -9.42376 | 30.00000 | Averaged | |
| 104 1,4-Dichlorobenzene | 1.37834 | 1.49996 | 0.010 | -8.82346 | 30.00000 | Averaged | |
| 105 alpha-chlorotoluene | 2.09945 | 2.42273 | 0.010 | -15.39837 | 30.00000 | Averaged | |

Air Toxics Ltd.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: msde.i Injection Date: 20-MAR-2012 10:17
Lab File ID: e032002.d Init. Cal. Date(s): 08-MAR-2012 16-MAR-2012
Analysis Type: AIR Init. Cal. Times: 18:33 11:53
Lab Sample ID: CCV Quant Type: ISTD
Method: /chem/msde.i/20Mar2012.b/e12l0308c.m

| COMPOUND | RRF / AMOUNT | RF10 | MIN RRF | %D / %DRIFT | MAX %D / %DRIFT | CURVE TYPE |
|---|---|---|---|---|---|---|
| 108 1,2-Dichlorobenzene | 1.30689 | 1.39582 | 0.010 | -6.80458 | 30.00000 | Averaged |
| 112 1,2,4-Trichlorobenzene | 0.85425 | 1.05280 | 0.010 | -23.24167 | 30.00000 | Averaged |
| 113 Hexachlorobutadiene | 0.76324 | 0.92162 | 0.010 | -20.75228 | 30.00000 | Averaged |
| 114 Naphthalene | 1.81893 | 2.28239 | 0.010 | -25.47997 | 40.00000 | Averaged |

Air Toxics Ltd.

EPA TO-15/Modified TO14A

Data file : /chem/msde.i/20Mar2012.b/e032002.d
Lab Smp Id: CCV Client Smp ID: CCV
Inj Date : 20-MAR-2012 10:17
Operator : ll Inst ID: msde.i
Smp Info : 100mL #2370-196A
Misc Info : 10ppbv (25ppbv)
Comment : Low-Level/GC-MS
Method : /chem/msde.i/20Mar2012.b/e12l0308c.m
Meth Date : 21-Mar-2012 06:39 croush Quant Type: ISTD
Cal Date : 16-MAR-2012 11:53 Cal File: e031607.d
Als bottle: 8 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AT09.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

| Name | Value | Description |
|---|---|---|
| DF | 1.00000 | Dilution Factor |

| | RT | EXP RT (REL RT) | MASS | RESPONSE | AMOUNTS CAL-AMT ( PPBV) | ON-COL ( PPBV) | TARGET RANGE | RATIO |
|---|---|---|---|---|---|---|---|---|
| * | 46 Bromochloromethane | | | | | CAS #: 74-97-5 | | |
| | 16.128 | 16.128 (1.000) | 130 | 103496 | 5.00000 | | 80.00- 120.00 | 100.00 |
| | 16.128 | 16.128 (1.000) | 128 | 78357 | | | 0.00- 30.00 | 75.71 |
| | 16.128 | 16.128 (1.000) | 49 | 144636 | | | 0.00- 30.00 | 139.75 |
| * | 58 1,4-Difluorobenzene | | | | | CAS #: 540-36-3 | | |
| | 17.586 | 17.586 (1.000) | 114 | 407788 | 5.00000 | | 80.00- 120.00 | 100.00 |
| | 17.586 | 17.586 (1.000) | 88 | 73352 | | | 0.00- 30.00 | 17.99 |
| * | 75 Chlorobenzene-d5 | | | | | CAS #: 3114-55-4 | | |
| | 22.925 | 22.925 (1.000) | 117 | 335497 | 5.00000 | | 80.00- 120.00 | 100.00 |
| | 22.925 | 22.925 (1.000) | 82 | 221022 | | | 0.00- 30.00 | 65.88 |
| $ | 54 1,2-Dichloroethane-d4 | | | | | CAS #: 17060-07-0 | | |
| | 17.013 | 17.013 (1.055) | 65 | 184169 | 5.00000 | 4.775 | 80.00- 120.00 | 100.00 |
| | 17.013 | 17.013 (1.055) | 67 | 92416 | | | 0.00- 30.00 | 50.18 |

| RT | EXP RT (REL RT) | MASS | RESPONSE | AMOUNTS CAL-AMT ( PPBV) | ON-COL ( PPBV) | TARGET RANGE | RATIO |
|---|---|---|---|---|---|---|---|
| $ 67 Toluene-d8 | | | | | | CAS #: 2037-26-5 | |
| 20.368 | 20.368 (1.158) | 98 | 405264 | 5.00000 | 4.934 | 80.00- 120.00 | 100.00 |
| 20.368 | 20.368 (1.158) | 70 | 47943 | | | 0.00- 30.00 | 11.83 |
| 20.368 | 20.368 (1.158) | 100 | 258316 | | | 33.74- 93.74 | 63.74 |
| $ 87 Bromofluorobenzene | | | | | | CAS #: 460-00-4 | |
| 24.523 | 24.523 (1.070) | 174 | 204507 | 5.00000 | 5.328 | 80.00- 120.00 | 100.00 |
| 24.523 | 24.523 (1.070) | 95 | 310275 | | | 121.72- 181.72 | 151.72 |
| 24.523 | 24.523 (1.070) | 176 | 195206 | | | 65.45- 125.45 | 95.45 |
| 2 Propylene | | | | | | CAS #: 115-07-1 | |
| 5.473 | 5.473 (0.339) | 41 | 161536 | 10.0000 | 9.792 | 80.00- 120.00 | 100.00 |
| 5.449 | 5.449 (0.338) | 42 | 107988 | | | 0.00- 30.00 | 66.85 |
| 5.473 | 5.473 (0.339) | 39 | 141319 | | | 0.00- 30.00 | 87.48 |
| 4 Dichlorodifluoromethane/Fr12 | | | | | | CAS #: 75-71-8 | |
| 5.955 | 5.955 (0.369) | 85 | 1240168 | 10.0000 | 10.254 | 80.00- 120.00 | 100.00 |
| 5.955 | 5.955 (0.369) | 87 | 402708 | | | 2.47- 62.47 | 32.47 |
| 6 Freon 114 | | | | | | CAS #: 76-14-2 | |
| 7.329 | 7.329 (0.454) | 135 | 685015 | 10.0000 | 10.886 | 80.00- 120.00 | 100.00 |
| 7.329 | 7.329 (0.454) | 137 | 222638 | | | 0.00- 30.00 | 32.50 |
| 7 Chloromethane | | | | | | CAS #: 74-87-3 | |
| 7.691 | 7.691 (0.477) | 50 | 183523 | 10.0000 | 10.267 | 80.00- 120.00 | 100.00 |
| 7.691 | 7.691 (0.477) | 52 | 62046 | | | 0.00- 30.00 | 33.81 |
| 9 Butane | | | | | | CAS #: 106-97-8 | |
| 8.404 | 8.404 (0.521) | 58 | 71755 | 10.0000 | 11.664 | 80.00- 120.00 | 100.00 |
| 8.404 | 8.404 (0.521) | 43 | 383585 | | | 0.00- 30.00 | 534.58 |
| 10 Vinyl Chloride | | | | | | CAS #: 75-01-4 | |
| 8.543 | 8.543 (0.530) | 62 | 298127 | 10.0000 | 10.567 | 80.00- 120.00 | 100.00 |
| 8.543 | 8.543 (0.530) | 64 | 97801 | | | 2.81- 62.81 | 32.81 |
| 11 1,3-Butadiene | | | | | | CAS #: 106-99-0 | |
| 8.769 | 8.769 (0.544) | 54 | 192442 | 10.0000 | 10.853 | 80.00- 120.00 | 100.00 |
| 8.769 | 8.769 (0.544) | 39 | 178420 | | | 0.00- 30.00 | 92.71 |
| 12 Bromomethane | | | | | | CAS #: 74-83-9 | |
| 10.251 | 10.251 (0.636) | 94 | 318241 | 10.0000 | 10.202 | 80.00- 120.00 | 100.00 |
| 10.251 | 10.251 (0.636) | 96 | 289089 | | | 60.84- 120.84 | 90.84 |
| 13 Chloroethane | | | | | | CAS #: 75-00-3 | |
| 10.728 | 10.728 (0.665) | 64 | 152364 | 10.0000 | 10.135 | 80.00- 120.00 | 100.00 |
| 10.728 | 10.728 (0.665) | 49 | 32501 | | | 0.00- 30.00 | 21.33 |

| RT | EXP RT (REL RT) | MASS | RESPONSE | AMOUNTS CAL-AMT ( PPBV) | AMOUNTS ON-COL ( PPBV) | TARGET RANGE | RATIO |
|---|---|---|---|---|---|---|---|
| 13 Chloroethane (continued) | | | | | | | |
| 10.707 | 10.707 (0.664) | 66 | 52098 | | | 0.00- 30.00 | 34.19 |
| 14 Isopentane | | | | | CAS #: 78-78-4 | | |
| 10.852 | 10.852 (0.673) | 57 | 194636 | 10.0000 | 10.251 | 80.00- 120.00 | 100.00 |
| 10.852 | 10.852 (0.673) | 43 | 214546 | | | 0.00- 30.00 | 110.23 |
| 10.852 | 10.852 (0.673) | 42 | 181805 | | | 0.00- 30.00 | 93.41 |
| 16 Trichlorofluoromethane/Fr11 | | | | | CAS #: 75-69-4 | | |
| 11.474 | 11.474 (0.711) | 101 | 1278032 | 10.0000 | 10.020 | 80.00- 120.00 | 100.00 |
| 11.474 | 11.474 (0.711) | 103 | 826055 | | | 34.63- 94.63 | 64.63 |
| 18 Ethanol | | | | | CAS #: 64-17-5 | | |
| 12.324 | 12.324 (0.764) | 45 | 79372 | 10.0000 | 11.920 | 80.00- 120.00 | 100.00 |
| 12.324 | 12.324 (0.764) | 46 | 26542 | | | 0.00- 30.00 | 33.44 |
| 12.324 | 12.324 (0.764) | 43 | 18946 | | | 0.00- 30.00 | 23.87 |
| 21 1,1-Dichloroethene | | | | | CAS #: 75-35-4 | | |
| 12.821 | 12.821 (0.795) | 98 | 203625 | 10.0000 | 11.102 | 80.00- 120.00 | 100.00 |
| 12.801 | 12.801 (0.794) | 61 | 484453 | | | 0.00- 30.00 | 237.91 |
| 12.821 | 12.821 (0.795) | 96 | 311535 | | | 0.00- 30.00 | 152.99 |
| 19 Freon 113 | | | | | CAS #: 76-13-1 | | |
| 12.780 | 12.780 (0.792) | 151 | 573656 | 10.0000 | 10.636 | 80.00- 120.00 | 100.00 |
| 12.780 | 12.780 (0.792) | 153 | 370328 | | | 34.56- 94.56 | 64.56 |
| 12.780 | 12.780 (0.792) | 101 | 753323 | | | 0.00- 30.00 | 131.32 |
| 22 Acetone | | | | | CAS #: 67-64-1 | | |
| 13.070 | 13.070 (0.810) | 58 | 122470 | 10.0000 | 10.470 | 80.00- 120.00 | 100.00 |
| 13.070 | 13.070 (0.810) | 43 | 407398 | | | 0.00- 30.00 | 332.65 |
| 23 Carbon Disulfide | | | | | CAS #: 75-15-0 | | |
| 13.174 | 13.174 (0.817) | 76 | 749822 | 10.0000 | 9.743 | 80.00- 120.00 | 100.00 |
| 26 3-Chloroprene | | | | | CAS #: 107-05-1 | | |
| 13.588 | 13.588 (0.843) | 76 | 116323 | 10.0000 | 10.247 | 80.00- 120.00 | 100.00 |
| 13.588 | 13.588 (0.843) | 41 | 190717 | | | 0.00- 30.00 | 163.95 |
| 25 2-Propanol | | | | | CAS #: 67-63-0 | | |
| 13.360 | 13.360 (0.828) | 45 | 342696 | 10.0000 | 10.837 | 80.00- 120.00 | 100.00 |
| 13.360 | 13.360 (0.828) | 43 | 90777 | | | 0.00- 30.00 | 26.49 |
| 13.360 | 13.360 (0.828) | 59 | 17434 | | | 0.00- 30.00 | 5.09 |
| 29 Methylene Chloride | | | | | CAS #: 75-09-2 | | |
| 13.885 | 13.885 (0.861) | 84 | 87618 | 10.0000 | 6.068 | 80.00- 120.00 | 100.00 |
| 13.885 | 13.885 (0.861) | 49 | 71152 | | | 0.00- 30.00 | 81.21 |

| RT | EXP RT (REL RT) | MASS | RESPONSE | AMOUNTS CAL-AMT ( PPBV) | ON-COL ( PPBV) | TARGET RANGE | RATIO |
|---|---|---|---|---|---|---|---|
| 29 Methylene Chloride (continued) | | | | | | | |
| 13.885 | 13.885 (0.861) | 51 | 24286 | | | 0.00- 30.00 | 27.72 |
| 30 tert-butyl alcohol | | | | | CAS #: 75-65-0 | | |
| 14.023 | 14.023 (0.869) | 59 | 340261 | 10.0000 | 11.349 | 80.00- 120.00 | 100.00 |
| 14.023 | 14.023 (0.869) | 41 | 71743 | | | 0.00- 30.00 | 21.08 |
| 14.023 | 14.023 (0.869) | 57 | 36249 | | | 0.00- 30.00 | 10.65 |
| 31 MTBE | | | | | CAS #: 1634-04-4 | | |
| 14.187 | 14.187 (0.880) | 73 | 1064797 | 10.0000 | 11.449 | 80.00- 120.00 | 100.00 |
| 14.160 | 14.160 (0.878) | 57 | 168471 | | | 0.00- 30.00 | 15.82 |
| 14.160 | 14.160 (0.878) | 41 | 152860 | | | 0.00- 30.00 | 14.36 |
| 32 trans-1,2-Dichloroethene | | | | | CAS #: 156-60-5 | | |
| 14.242 | 14.242 (0.883) | 98 | 204473 | 10.0000 | 10.407 | 80.00- 120.00 | 100.00 |
| 14.242 | 14.242 (0.883) | 61 | 414203 | | | 0.00- 30.00 | 202.57 |
| 14.242 | 14.242 (0.883) | 96 | 317404 | | | 0.00- 30.00 | 155.23 |
| 35 Hexane | | | | | CAS #: 110-54-3 | | |
| 14.517 | 14.517 (0.900) | 57 | 367582 | 10.0000 | 10.900 | 80.00- 120.00 | 100.00 |
| 14.517 | 14.517 (0.900) | 43 | 192013 | | | 0.00- 30.00 | 52.24 |
| 14.517 | 14.517 (0.900) | 86 | 95010 | | | 0.00- 30.00 | 25.85 |
| 36 Isopropyl ether | | | | | CAS #: 108-20-3 | | |
| 14.874 | 14.874 (0.922) | 45 | 397018 | 10.0000 | 10.856 | 80.00- 120.00 | 100.00 |
| 14.874 | 14.874 (0.922) | 87 | 187692 | | | 0.00- 30.00 | 47.28 |
| 14.874 | 14.874 (0.922) | 59 | 59527 | | | 0.00- 30.00 | 14.99 |
| 37 1,1-Dichloroethane | | | | | CAS #: 75-34-3 | | |
| 14.928 | 14.928 (0.926) | 63 | 567300 | 10.0000 | 10.215 | 80.00- 120.00 | 100.00 |
| 14.928 | 14.928 (0.926) | 65 | 181051 | | | 0.00- 30.00 | 31.91 |
| 38 Vinyl Acetate | | | | | CAS #: 108-05-4 | | |
| 14.956 | 14.956 (0.927) | 86 | 86120 | 10.0000 | 10.497 | 80.00- 120.00 | 100.00 |
| 14.956 | 14.956 (0.927) | 42 | 62465 | | | 0.00- 30.00 | 72.53 |
| 14.928 | 14.928 (0.926) | 43 | 580961 | | | 0.00- 30.00 | 674.59 |
| 40 Ethyl-tert-butyl ether | | | | | CAS #: 637-92-3 | | |
| 15.368 | 15.368 (0.953) | 59 | 573372 | 10.0000 | 11.258 | 80.00- 120.00 | 100.00 |
| 15.368 | 15.368 (0.953) | 87 | 294233 | | | 0.00- 30.00 | 51.32 |
| 15.368 | 15.368 (0.953) | 41 | 90338 | | | 0.00- 30.00 | 15.76 |
| 41 cis-1,2-Dichloroethene | | | | | CAS #: 156-59-2 | | |
| 15.766 | 15.766 (0.978) | 98 | 332663 | 10.0000 | 11.261 | 80.00- 120.00 | 100.00 |
| 15.766 | 15.766 (0.978) | 61 | 603675 | | | 0.00- 30.00 | 181.47 |
| 15.766 | 15.766 (0.978) | 96 | 521782 | | | 126.85- 186.85 | 156.85 |

| RT | EXP RT (REL RT) | MASS | RESPONSE | AMOUNTS CAL-AMT ( PPBV) | ON-COL ( PPBV) | TARGET RANGE | RATIO |
|---|---|---|---|---|---|---|---|
| 42 2-Butanone | | | | | CAS #: 78-93-3 | | |
| 15.766 | 15.766 (0.978) | 72 | 219258 | 10.0000 | 10.340 | 80.00- 120.00 | 100.00 |
| 15.766 | 15.766 (0.978) | 43 | 579968 | | | 0.00- 30.00 | 264.51 |
| 15.766 | 15.766 (0.978) | 57 | 57128 | | | 0.00- 30.00 | 26.06 |
| 44 Tetrahydrofuran | | | | | CAS #: 109-99-9 | | |
| 16.128 | 16.128 (1.000) | 42 | 222613 | 10.0000 | 10.530 | 80.00- 120.00 | 100.00 |
| 16.128 | 16.128 (1.000) | 71 | 150462 | | | 0.00- 30.00 | 67.59 |
| 16.128 | 16.128 (1.000) | 72 | 163776 | | | 0.00- 30.00 | 73.57 |
| 47 Chloroform | | | | | CAS #: 67-66-3 | | |
| 16.189 | 16.189 (1.004) | 83 | 863814 | 10.0000 | 10.161 | 80.00- 120.00 | 100.00 |
| 16.189 | 16.189 (1.004) | 85 | 552571 | | | 0.00- 30.00 | 63.97 |
| 48 Cyclohexane | | | | | CAS #: 110-82-7 | | |
| 16.467 | 16.467 (1.021) | 84 | 493145 | 10.0000 | 10.864 | 80.00- 120.00 | 100.00 |
| 16.436 | 16.436 (1.019) | 56 | 388533 | | | 0.00- 30.00 | 78.79 |
| 16.436 | 16.436 (1.019) | 41 | 199110 | | | 0.00- 30.00 | 40.38 |
| 49 1,1,1-Trichloroethane | | | | | CAS #: 71-55-6 | | |
| 16.467 | 16.467 (1.021) | 97 | 1013540 | 10.0000 | 10.434 | 80.00- 120.00 | 100.00 |
| 16.467 | 16.467 (1.021) | 99 | 652531 | | | 0.00- 30.00 | 64.38 |
| 51 Carbon Tetrachloride | | | | | CAS #: 56-23-5 | | |
| 16.652 | 16.652 (1.032) | 119 | 953000 | 10.0000 | 13.111 | 80.00- 120.00 | 100.00 |
| 16.652 | 16.652 (1.032) | 117 | 980993 | | | 0.00- 30.00 | 102.94 |
| 52 2,2,4-Trimethylpentane | | | | | CAS #: 540-84-1 | | |
| 16.926 | 16.926 (1.049) | 56 | 532325 | 10.0000 | 10.238 | 80.00- 120.00 | 100.00 |
| 16.926 | 16.926 (1.049) | 57 | 1626301 | | | 0.00- 30.00 | 305.51 |
| 16.926 | 16.926 (1.049) | 41 | 480348 | | | 0.00- 30.00 | 90.24 |
| 53 Benzene | | | | | CAS #: 71-43-2 | | |
| 17.013 | 17.013 (0.967) | 78 | 1003566 | 10.0000 | 9.594 | 80.00- 120.00 | 100.00 |
| 17.013 | 17.013 (0.967) | 77 | 234527 | | | 0.00- 30.00 | 23.37 |
| 55 tert-amyl methyl ether | | | | | CAS #: 994-05-8 | | |
| 17.013 | 17.013 (0.967) | 87 | 172251 | 10.0000 | 11.172 | 80.00- 120.00 | 100.00 |
| 17.013 | 17.013 (0.967) | 73 | 662016 | | | 0.00- 30.00 | 384.33 |
| 17.013 | 17.013 (0.967) | 55 | 160942 | | | 0.00- 30.00 | 93.43 |
| 56 1,2-Dichloroethane | | | | | CAS #: 107-06-2 | | |
| 17.130 | 17.130 (0.974) | 62 | 574424 | 10.0000 | 9.738 | 80.00- 120.00 | 100.00 |
| 17.130 | 17.130 (0.974) | 64 | 190759 | | | 0.00- 30.00 | 33.21 |
| 57 Heptane | | | | | CAS #: 142-82-5 | | |
| 17.159 | 17.159 (0.976) | 57 | 241906 | 10.0000 | 11.188 | 80.00- 120.00 | 100.00 |

| RT | EXP RT (REL RT) | MASS | RESPONSE | AMOUNTS CAL-AMT ( PPBV) | ON-COL ( PPBV) | TARGET RANGE | RATIO |
|---|---|---|---|---|---|---|---|
| 57 Heptane (continued) | | | | | | | |
| 17.159 | 17.159 (0.976) | 100 | 147801 | | | 0.00- 30.00 | 61.10 |
| 17.159 | 17.159 (0.976) | 43 | 354555 | | | 0.00- 30.00 | 146.57 |
| 59 Trichloroethene | | | | | CAS #: 79-01-6 | | |
| 18.025 | 18.025 (1.025) | 130 | 492396 | 10.0000 | 10.658 | 80.00- 120.00 | 100.00 |
| 17.998 | 17.998 (1.023) | 95 | 535757 | | | 0.00- 30.00 | 108.81 |
| 18.025 | 18.025 (1.025) | 97 | 352436 | | | 0.00- 30.00 | 71.58 |
| 60 Methylcyclohexane | | | | | CAS #: 108-87-2 | | |
| 18.272 | 18.272 (1.039) | 83 | 651392 | 10.0000 | 10.915 | 80.00- 120.00 | 100.00 |
| 18.272 | 18.272 (1.039) | 55 | 387998 | | | 0.00- 30.00 | 59.56 |
| 18.272 | 18.272 (1.039) | 56 | 117226 | | | 0.00- 30.00 | 18.00 |
| 61 1,2-Dichloropropane | | | | | CAS #: 78-87-5 | | |
| 18.492 | 18.492 (1.052) | 63 | 308548 | 10.0000 | 9.594 | 80.00- 120.00 | 100.00 |
| 18.492 | 18.492 (1.052) | 62 | 213404 | | | 0.00- 30.00 | 69.16 |
| 18.492 | 18.492 (1.052) | 41 | 188301 | | | 31.03- 91.03 | 61.03 |
| 62 1,4-Dioxane | | | | | CAS #: 123-91-1 | | |
| 18.629 | 18.629 (1.059) | 88 | 255672 | 10.0000 | 11.147 | 80.00- 120.00 | 100.00 |
| 18.629 | 18.629 (1.059) | 58 | 141600 | | | 0.00- 30.00 | 55.38 |
| 18.629 | 18.629 (1.059) | 57 | 45932 | | | 0.00- 30.00 | 17.97 |
| 63 Bromodichloromethane | | | | | CAS #: 75-27-4 | | |
| 18.959 | 18.959 (1.078) | 83 | 916635 | 10.0000 | 10.203 | 80.00- 120.00 | 100.00 |
| 18.959 | 18.959 (1.078) | 85 | 579888 | | | 0.00- 30.00 | 63.26 |
| 64 cis-1,3-Dichloropropene | | | | | CAS #: 10061-01-5 | | |
| 19.865 | 19.865 (1.130) | 75 | 647213 | 10.0000 | 11.629 | 80.00- 120.00 | 100.00 |
| 19.865 | 19.865 (1.130) | 77 | 199572 | | | 0.00- 30.00 | 30.84 |
| 19.865 | 19.865 (1.130) | 39 | 259764 | | | 10.14- 70.14 | 40.14 |
| 65 4-Methyl-2-pentanone | | | | | CAS #: 108-10-1 | | |
| 20.076 | 20.076 (1.142) | 43 | 492320 | 10.0000 | 11.843 | 80.00- 120.00 | 100.00 |
| 20.076 | 20.076 (1.142) | 58 | 238281 | | | 0.00- 30.00 | 48.40 |
| 20.076 | 20.076 (1.142) | 85 | 154130 | | | 0.00- 30.00 | 31.31 |
| 68 Toluene | | | | | CAS #: 108-88-3 | | |
| 20.502 | 20.502 (1.166) | 91 | 1271115 | 10.0000 | 10.183 | 80.00- 120.00 | 100.00 |
| 20.502 | 20.502 (1.166) | 92 | 747852 | | | 0.00- 30.00 | 58.83 |
| 69 trans-1,3-Dichloropropene | | | | | CAS #: 10061-02-6 | | |
| 20.995 | 20.995 (0.916) | 75 | 676806 | 10.0000 | 9.407 | 80.00- 120.00 | 100.00 |
| 20.995 | 20.995 (0.916) | 77 | 215826 | | | 0.00- 30.00 | 31.89 |
| 20.995 | 20.995 (0.916) | 39 | 230833 | | | 4.11- 64.11 | 34.11 |

| RT | EXP RT (REL RT) | MASS | RESPONSE | AMOUNTS CAL-AMT ( PPBV) | ON-COL ( PPBV) | TARGET RANGE | RATIO |
|---|---|---|---|---|---|---|---|
| 70 1,1,2-Trichloroethane | | | | | CAS #: 79-00-5 | | |
| 21.335 | 21.335 (0.931) | 97 | 451083 | 10.0000 | 10.407 | 80.00- 120.00 | 100.00 |
| 21.335 | 21.335 (0.931) | 99 | 279171 | | | 0.00- 30.00 | 61.89 |
| 21.335 | 21.335 (0.931) | 83 | 375342 | | | 53.21- 113.21 | 83.21 |
| 71 Tetrachloroethene | | | | | CAS #: 127-18-4 | | |
| 21.497 | 21.497 (0.938) | 166 | 563537 | 10.0000 | 11.200 | 80.00- 120.00 | 100.00 |
| 21.497 | 21.497 (0.938) | 129 | 476329 | | | 0.00- 30.00 | 84.52 |
| 21.497 | 21.497 (0.938) | 131 | 463603 | | | 0.00- 30.00 | 82.27 |
| 72 2-Hexanone | | | | | CAS #: 591-78-6 | | |
| 21.660 | 21.660 (0.945) | 58 | 299451 | 10.0000 | 10.916 | 80.00- 120.00 | 100.00 |
| 21.660 | 21.660 (0.945) | 43 | 464883 | | | 0.00- 30.00 | 155.25 |
| 21.660 | 21.660 (0.945) | 100 | 94994 | | | 0.00- 30.00 | 31.72 |
| 73 Dibromochloromethane | | | | | CAS #: 124-48-1 | | |
| 22.018 | 22.018 (0.960) | 129 | 894574 | 10.0000 | 12.130 | 80.00- 120.00 | 100.00 |
| 22.018 | 22.018 (0.960) | 127 | 684147 | | | 0.00- 30.00 | 76.48 |
| 74 1,2-Dibromoethane | | | | | CAS #: 106-93-4 | | |
| 22.278 | 22.278 (0.972) | 107 | 744267 | 10.0000 | 11.194 | 80.00- 120.00 | 100.00 |
| 22.278 | 22.278 (0.972) | 109 | 666685 | | | 0.00- 30.00 | 89.58 |
| 76 Chlorobenzene | | | | | CAS #: 108-90-7 | | |
| 22.949 | 22.949 (1.001) | 112 | 997230 | 10.0000 | 10.430 | 80.00- 120.00 | 100.00 |
| 22.949 | 22.949 (1.001) | 114 | 324636 | | | 0.00- 30.00 | 32.55 |
| 22.949 | 22.949 (1.001) | 77 | 636854 | | | 33.86- 93.86 | 63.86 |
| 77 Ethyl Benzene | | | | | CAS #: 100-41-4 | | |
| 23.021 | 23.021 (1.004) | 106 | 528540 | 10.0000 | 11.314 | 80.00- 120.00 | 100.00 |
| 23.021 | 23.021 (1.004) | 91 | 1809552 | | | 0.00- 30.00 | 342.37 |
| 80 m,p-Xylene | | | | | CAS #: 108-38-3 | | |
| 23.190 | 23.190 (1.012) | 106 | 648075 | 10.0000 | 11.530 | 80.00- 120.00 | 100.00 |
| 23.190 | 23.190 (1.012) | 91 | 1461243 | | | 0.00- 30.00 | 225.47 |
| 81 o-Xylene | | | | | CAS #: 95-47-6 | | |
| 23.768 | 23.768 (1.037) | 106 | 642994 | 10.0000 | 11.899 | 80.00- 120.00 | 100.00 |
| 23.768 | 23.768 (1.037) | 91 | 1521476 | | | 0.00- 30.00 | 236.62 |
| 83 Styrene | | | | | CAS #: 100-42-5 | | |
| 23.816 | 23.816 (1.039) | 104 | 976244 | 10.0000 | 11.968 | 80.00- 120.00 | 100.00 |
| 23.792 | 23.792 (1.038) | 78 | 582019 | | | 0.00- 30.00 | 59.62 |
| 84 Bromoform | | | | | CAS #: 75-25-2 | | |
| 24.129 | 24.129 (1.053) | 173 | 809150 | 10.0000 | 12.690 | 80.00- 120.00 | 100.00 |

| RT | EXP RT (REL RT) | MASS | RESPONSE | AMOUNTS CAL-AMT ( PPBV) | ON-COL ( PPBV) | TARGET RANGE | RATIO |
|---|---|---|---|---|---|---|---|
| 84 Bromoform (continued) | | | | | | | |
| 24.129 | 24.129 (1.053) | 171 | 413038 | | | 0.00- 30.00 | 51.05 |
| 85 Cumene | | | | | CAS #: 98-82-8 | | |
| 24.226 | 24.226 (1.057) | 105 | 2090068 | 10.0000 | 11.946 | 80.00- 120.00 | 100.00 |
| 24.226 | 24.226 (1.057) | 120 | 495811 | | | 0.00- 30.00 | 23.72 |
| 89 1,1,2,2-Tetrachloroethane | | | | | CAS #: 79-34-5 | | |
| 24.678 | 24.678 (1.076) | 83 | 856505 | 10.0000 | 9.472 | 80.00- 120.00 | 100.00 |
| 24.678 | 24.678 (1.076) | 85 | 550227 | | | 0.00- 30.00 | 64.24 |
| 90 Propylbenzene | | | | | CAS #: 103-65-1 | | |
| 24.755 | 24.755 (1.080) | 91 | 2480571 | 10.0000 | 11.069 | 80.00- 120.00 | 100.00 |
| 24.755 | 24.755 (1.080) | 120 | 512254 | | | 0.00- 30.00 | 20.65 |
| 92 4-Ethyltoluene | | | | | CAS #: 622-96-8 | | |
| 24.884 | 24.884 (1.085) | 105 | 2213910 | 10.0000 | 11.505 | 80.00- 120.00 | 100.00 |
| 24.884 | 24.884 (1.085) | 120 | 597698 | | | 0.00- 30.00 | 27.00 |
| 94 1,3,5-Trimethylbenzene | | | | | CAS #: 108-67-8 | | |
| 24.936 | 24.936 (1.088) | 105 | 1893136 | 10.0000 | 11.429 | 80.00- 120.00 | 100.00 |
| 24.962 | 24.962 (1.089) | 120 | 803622 | | | 0.00- 30.00 | 42.45 |
| 98 1,2,4-Trimethylbenzene | | | | | CAS #: 95-63-6 | | |
| 25.408 | 25.408 (1.108) | 105 | 1771679 | 10.0000 | 12.150 | 80.00- 120.00 | 100.00 |
| 25.408 | 25.408 (1.108) | 120 | 714517 | | | 0.00- 30.00 | 40.33 |
| 101 1,3-Dichlorobenzene | | | | | CAS #: 541-73-1 | | |
| 25.789 | 25.789 (1.125) | 146 | 1011433 | 10.0000 | 10.942 | 80.00- 120.00 | 100.00 |
| 25.789 | 25.789 (1.125) | 148 | 649863 | | | 0.00- 30.00 | 64.25 |
| 25.789 | 25.789 (1.125) | 111 | 488373 | | | 0.00- 30.00 | 48.29 |
| 104 1,4-Dichlorobenzene | | | | | CAS #: 106-46-7 | | |
| 25.901 | 25.901 (1.130) | 146 | 1006461 | 10.0000 | 10.882 | 80.00- 120.00 | 100.00 |
| 25.901 | 25.901 (1.130) | 148 | 638242 | | | 0.00- 30.00 | 63.41 |
| 25.901 | 25.901 (1.130) | 111 | 457041 | | | 0.00- 30.00 | 45.41 |
| 105 alpha-chlorotoluene | | | | | CAS #: 100-44-7 | | |
| 26.058 | 26.058 (1.137) | 91 | 1625635 | 10.0000 | 11.540 | 80.00- 120.00 | 100.00 |
| 26.058 | 26.058 (1.137) | 126 | 281585 | | | 0.00- 30.00 | 17.32 |
| 108 1,2-Dichlorobenzene | | | | | CAS #: 95-50-1 | | |
| 26.349 | 26.349 (1.149) | 146 | 936589 | 10.0000 | 10.680 | 80.00- 120.00 | 100.00 |
| 26.349 | 26.349 (1.149) | 148 | 597743 | | | 33.82- 93.82 | 63.82 |
| 26.349 | 26.349 (1.149) | 111 | 462586 | | | 19.39- 79.39 | 49.39 |

| RT | EXP RT (REL RT) | MASS | RESPONSE | AMOUNTS CAL-AMT ( PPBV) | ON-COL ( PPBV) | TARGET RANGE | RATIO |
|---|---|---|---|---|---|---|---|
| 112 1,2,4-Trichlorobenzene | | | | | CAS #: 120-82-1 | | |
| 28.143 | 28.143 (1.228) | 180 | 706420 | 10.0000 | 12.324 | 80.00- 120.00 | 100.00 |
| 28.143 | 28.143 (1.228) | 182 | 665055 | | | 0.00- 30.00 | 94.14 |
| 113 Hexachlorobutadiene | | | | | CAS #: 87-68-3 | | |
| 28.232 | 28.232 (1.232) | 225 | 618404 | 10.0000 | 12.075 | 80.00- 120.00 | 100.00 |
| 28.232 | 28.232 (1.232) | 223 | 390087 | | | 0.00- 30.00 | 63.08 |
| 114 Naphthalene | | | | | CAS #: 91-20-3 | | |
| 28.501 | 28.501 (1.243) | 128 | 153147 | 1.00000 | 1.255 | 80.00- 120.00 | 100.00 |
| 28.501 | 28.501 (1.243) | 127 | 20409 | | | 0.00- 30.00 | 13.33 |

Report Date: 21-Mar-2012 06:39

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msde.i
Lab File ID: e032002.d
Lab Smp Id: CCV
Analysis Type: VOA
Quant Type: ISTD
Operator: ll
Method File: /chem/msde.i/20Mar2012.b/e12l0308c.m
Misc Info: 10ppbv (25ppbv)

Calibration Date: 20-MAR-2012
Calibration Time: 13:30
Client Smp ID: CCV
Level: LOW
Sample Type: AIR

| | | AREA LIMIT | | | |
|---|---|---|---|---|---|
| COMPOUND | STANDARD | LOWER | UPPER | SAMPLE | %DIFF |
| 46 Bromochloromethan | 91547 | 54928 | 128166 | 103496 | 13.05 |
| 58 1,4-Difluorobenze | 355139 | 213083 | 497195 | 407788 | 14.82 |
| 75 Chlorobenzene-d5 | 304779 | 182867 | 426691 | 335497 | 10.08 |

| | | RT LIMIT | | | |
|---|---|---|---|---|---|
| COMPOUND | STANDARD | LOWER | UPPER | SAMPLE | %DIFF |
| 46 Bromochloromethan | 16.13 | 15.80 | 16.46 | 16.13 | 0.00 |
| 58 1,4-Difluorobenze | 17.59 | 17.26 | 17.92 | 17.59 | 0.00 |
| 75 Chlorobenzene-d5 | 22.92 | 22.59 | 23.25 | 22.92 | 0.00 |

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

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Data File: /chem/msde.i/20Mar2012.b/e032002.d



Date : 20-MAR-2012 10:17

Client ID: CCV

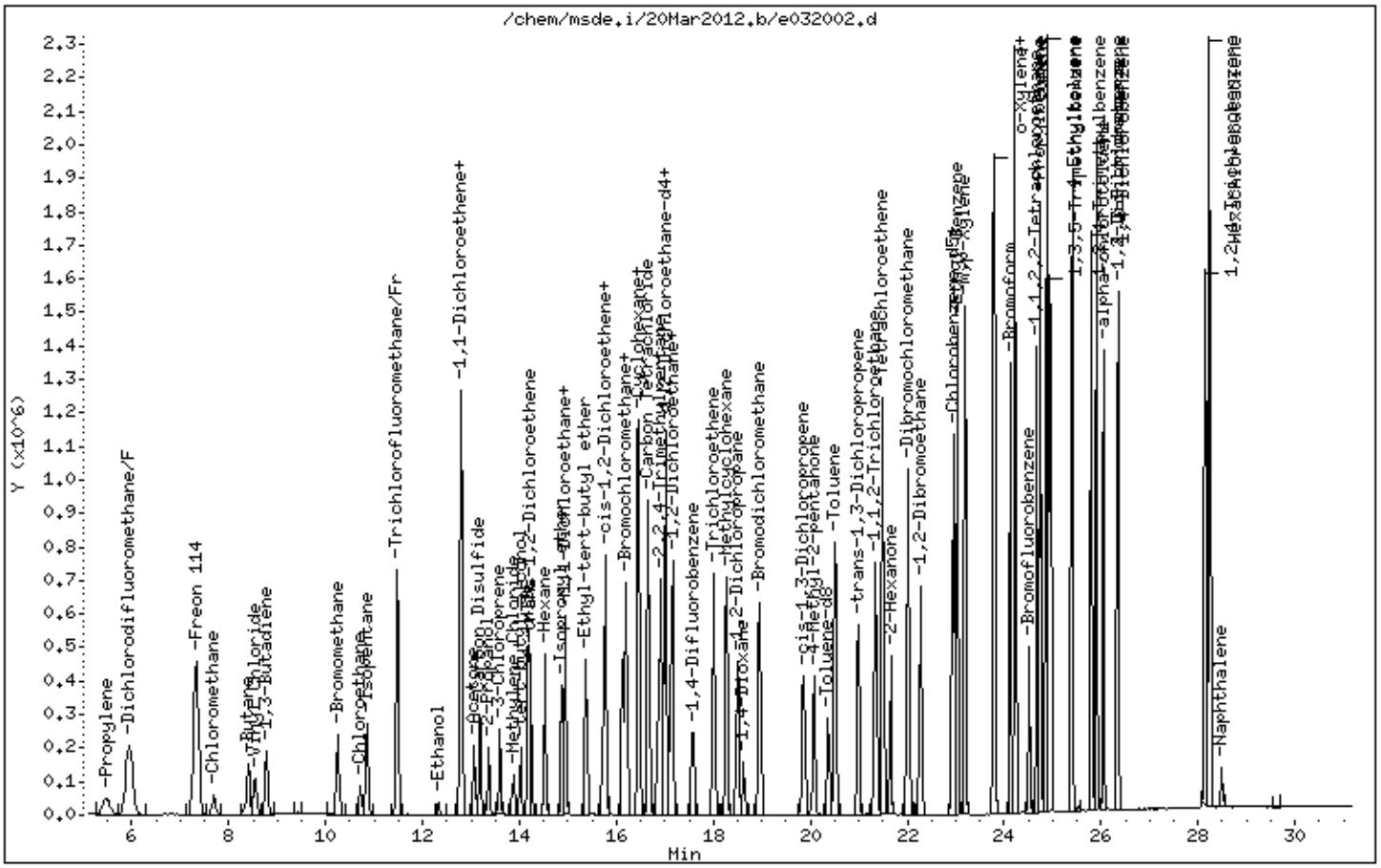
Instrument: msde.i

Sample Info: 100mL #2370-196A

Operator: ll

Column phase: RTx-624

Column diameter: 0.32



Air Toxics Ltd.

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: msde.i Injection Date: 20-MAR-2012 12:43
Lab File ID: e032005.d Init. Cal. Date(s): 08-MAR-2012 16-MAR-2012
Analysis Type: AIR Init. Cal. Times: 18:33 11:53
Lab Sample ID: CCV Quant Type: ISTD
Method: /chem/msde.i/20Mar2012.b/e12l0308c.m

| COMPOUND | RRF / AMOUNT | RF40 | MIN RRF | %D / %DRIFT | MAX %D / %DRIFT | CURVE TYPE |
|---|---|---|---|---|---|---|
|$ 54 1,2-Dichloroethane-d4 | 1.86326 | 1.83383 | 0.010 | 1.57935 | 30.00000 | Averaged |
|$ 67 Toluene-d8 | 1.00712 | 0.93713 | 0.010 | 6.94936 | 30.00000 | Averaged |
|$ 87 Bromofluorobenzene | 0.57198 | 0.58630 | 0.010 | -2.50420 | 30.00000 | Averaged |
| 50 Thiophene | 0.80868 | 0.74404 | 0.010 | 7.99275 | 40.00000 | Averaged |
| 24 2-Methylpentane | 1.03414 | 0.96525 | 0.010 | 6.66147 | 40.00000 | Averaged |
| 45 2,3-Dimethylpentane | 0.95797 | 0.95227 | 0.010 | 0.59515 | 40.00000 | Averaged |
| 102 Indan | 1.53284 | 1.27794 | 0.010 | 16.62931 | 40.00000 | Averaged |
| 106 Indene | 0.83534 | 0.57769 | 0.010 | 30.84387 | 40.00000 | Averaged |

Air Toxics Ltd.

EPA TO-15/Modified TO14A

Data file : /chem/msde.i/20Mar2012.b/e032005.d
Lab Smp Id: CCV Client Smp ID: CCV
Inj Date : 20-MAR-2012 12:43
Operator : cr Inst ID: msde.i
Smp Info : 75mL #2403-72
Misc Info : 1.5ppbv (5.0ppbv) -- AT3
Comment : Low-Level/GC-MS
Method : /chem/msde.i/20Mar2012.b/e12l0308c.m
Meth Date : 20-Mar-2012 12:13 llarson Quant Type: ISTD
Cal Date : 16-MAR-2012 11:53 Cal File: e031607.d
Als bottle: 20 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AT3CCV.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

| Name | Value | Description |
|---|---|---|
| DF | 1.00000 | Dilution Factor |

| | | | | AMOUNTS | | | | |
|---|---|---|---|---|---|---|---|---|
| | | | | CAL-AMT | ON-COL | | | |
| RT | EXP RT (REL RT) | MASS | RESPONSE | ( PPBV) | ( PPBV) | TARGET RANGE | | RATIO |
| == | ====== ======== | ==== | ======== | ======= | ======= | ========== | | ===== |
| * 46 Bromochloromethane | | | | | | CAS #: 74-97-5 | | |
| 16.128 | 16.128 (1.000) | 130 | 89880 | 5.00000 | | 80.00- 120.00 | | 100.00 |
| 16.128 | 16.128 (1.000) | 128 | 67884 | | | 0.00- 30.00 | | 75.53 |
| 16.128 | 16.128 (1.000) | 49 | 79420 | | | 0.00- 30.00 | | 88.36 |
| * 58 1,4-Difluorobenzene | | | | | | CAS #: 540-36-3 | | |
| 17.586 | 17.586 (1.000) | 114 | 361638 | 5.00000 | | 80.00- 120.00 | | 100.00 |
| 17.586 | 17.586 (1.000) | 88 | 63507 | | | 0.00- 30.00 | | 17.56 |
| * 75 Chlorobenzene-d5 | | | | | | CAS #: 3114-55-4 | | |
| 22.925 | 22.925 (1.000) | 117 | 299469 | 5.00000 | | 80.00- 120.00 | | 100.00 |
| 22.925 | 22.925 (1.000) | 82 | 192692 | | | 0.00- 30.00 | | 64.34 |
| $ 54 1,2-Dichloroethane-d4 | | | | | | CAS #: 17060-07-0 | | |
| 17.013 | 17.013 (1.055) | 65 | 164825 | 5.00000 | 4.921 | 80.00- 120.00 | | 100.00 |
| 17.013 | 17.013 (1.055) | 67 | 81595 | | | 0.00- 30.00 | | 49.50 |

| RT | EXP RT (REL RT) | MASS | RESPONSE | AMOUNTS CAL-AMT ( PPBV) | ON-COL ( PPBV) | TARGET RANGE | RATIO |
|---|---|---|---|---|---|---|---|
| $ 67 Toluene-d8 | | | | | CAS #: 2037-26-5 | | |
| 20.368 | 20.368 (1.158) | 98 | 338901 | 5.00000 | 4.652 | 80.00- 120.00 | 100.00 |
| 20.368 | 20.368 (1.158) | 70 | 41707 | | | 0.00- 30.00 | 12.31 |
| 20.368 | 20.368 (1.158) | 100 | 215916 | | | 33.71- 93.71 | 63.71 |
| $ 87 Bromofluorobenzene | | | | | CAS #: 460-00-4 | | |
| 24.523 | 24.523 (1.070) | 174 | 175580 | 5.00000 | 5.125 | 80.00- 120.00 | 100.00 |
| 24.523 | 24.523 (1.070) | 95 | 273837 | | | 125.96- 185.96 | 155.96 |
| 24.523 | 24.523 (1.070) | 176 | 168904 | | | 66.20- 126.20 | 96.20 |
| 50 Thiophene | | | | | CAS #: 110-02-1 | | |
| 17.363 | 17.363 (0.987) | 84 | 80722 | 1.50000 | 1.380 | 80.00- 120.00 | 100.00(T) |
| 17.363 | 17.363 (0.987) | 58 | 39284 | | | 0.00- 30.00 | 48.67 |
| 0.000 | 1.000 (0.000) | 0 | 0 | | | 0.00- 30.00 | 0.00 |
| 24 2-Methylpentane | | | | | CAS #: 107-83-5 | | |
| 13.692 | 13.692 (0.849) | 71 | 26027 | 1.50000 | 1.400 | 80.00- 120.00 | 100.00 |
| 13.692 | 13.692 (0.849) | 43 | 39161 | | | 0.00- 30.00 | 150.46 |
| 13.692 | 13.692 (0.849) | 42 | 21111 | | | 0.00- 30.00 | 81.11 |
| 45 2,3-Dimethylpentane | | | | | CAS #: 565-59-3 | | |
| 16.405 | 16.405 (1.017) | 71 | 25677 | 1.50000 | 1.491 | 80.00- 120.00 | 100.00 |
| 16.405 | 16.405 (1.017) | 56 | 53038 | | | 0.00- 30.00 | 206.56 |
| 16.405 | 16.405 (1.017) | 43 | 32196 | | | 0.00- 30.00 | 125.39 |
| 102 Indan | | | | | CAS #: 496-11-7 | | |
| 26.148 | 26.148 (1.141) | 117 | 114811 | 1.50000 | 1.250 | 80.00- 120.00 | 100.00 |
| 26.148 | 26.148 (1.141) | 118 | 66637 | | | 0.00- 30.00 | 58.04 |
| 26.148 | 26.148 (1.141) | 91 | 23956 | | | 0.00- 30.00 | 20.87 |
| 106 Indene | | | | | CAS #: 95-13-6 | | |
| 26.417 | 26.417 (1.152) | 115 | 51900 | 1.50000 | 1.037 | 80.00- 120.00 | 100.00(T) |
| 26.417 | 26.417 (1.152) | 116 | 48978 | | | 0.00- 30.00 | 94.37 |
| 0.000 | 1.000 (0.000) | 0 | 0 | | | 0.00- 30.00 | 0.00 |

QC Flag Legend

T - Target compound detected outside RT window.

Report Date: 20-Mar-2012 12:13

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msde.i
Lab File ID: e032005.d
Lab Smp Id: CCV
Analysis Type: VOA
Quant Type: ISTD
Operator: cr
Method File: /chem/msde.i/20Mar2012.b/e12l0308c.m
Misc Info: 1.5ppbv (5.0ppbv) -- AT3

Calibration Date: 20-MAR-2012
Calibration Time: 10:17
Client Smp ID: CCV
Level: LOW
Sample Type: AIR

| | | AREA LIMIT | | | |
|---|---|---|---|---|---|
| COMPOUND | STANDARD | LOWER | UPPER | SAMPLE | %DIFF |
| 46 Bromochloromethan | 103496 | 62098 | 144894 | 89880 | -13.16 |
| 58 1,4-Difluorobenze | 407788 | 244673 | 570903 | 361638 | -11.32 |
| 75 Chlorobenzene-d5 | 335497 | 201298 | 469696 | 299469 | -10.74 |

| | | RT LIMIT | | | |
|---|---|---|---|---|---|
| COMPOUND | STANDARD | LOWER | UPPER | SAMPLE | %DIFF |
| 46 Bromochloromethan | 16.13 | 15.80 | 16.46 | 16.13 | 0.00 |
| 58 1,4-Difluorobenze | 17.59 | 17.26 | 17.92 | 17.59 | 0.00 |
| 75 Chlorobenzene-d5 | 22.92 | 22.59 | 23.25 | 22.92 | 0.00 |

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Data File: /chem/msde.i/20Mar2012.b/e032005.d

Date : 20-MAR-2012 12:43

Client ID: CCV

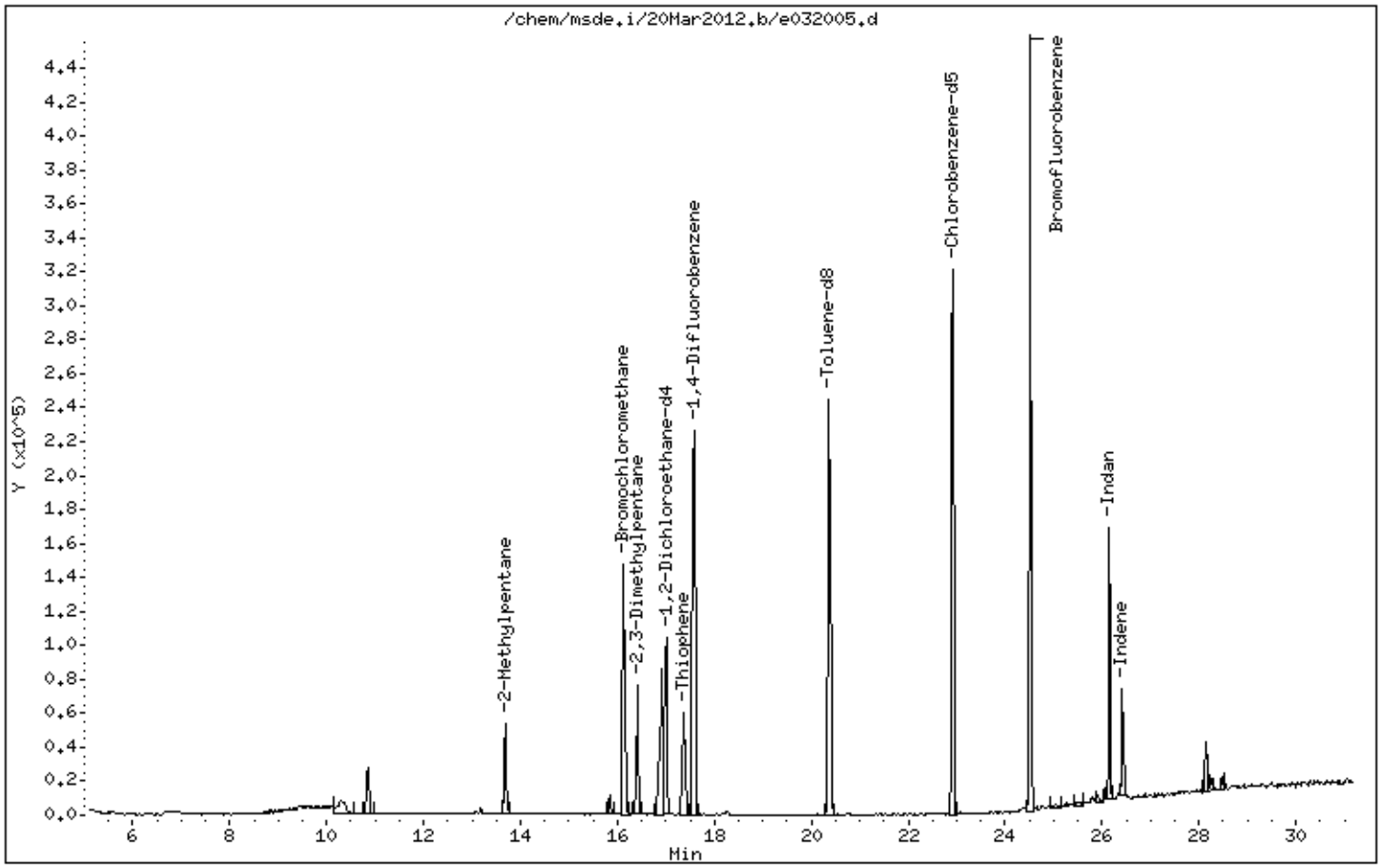
Instrument: msde.i

Sample Info: 75mL #2403-72

Operator: cr

Column phase: RTx-624

Column diameter: 0.32



eurofins | Air Toxics

**Client Sample ID: LCS**

**Lab ID#: 1202444-06A**

**MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN**

| | | | |
|---|---|---|---|
| **File Name:** | **e031303** | **Date of Collection: NA** | |
| **Dil. Factor:** | **1.00** | **Date of Analysis: 3/13/12 10:18 AM** | |

| Compound | %Recovery |
|---|---|
| Freon 12 | 102 |
| Freon 114 | 99 |
| Chloromethane | 98 |
| Vinyl Chloride | 100 |
| 1,3-Butadiene | 100 |
| Bromomethane | 78 |
| Chloroethane | 96 |
| Freon 11 | 97 |
| Ethanol | 91 |
| Freon 113 | 97 |
| 1,1-Dichloroethene | 104 |
| Acetone | 93 |
| 2-Propanol | 103 |
| Carbon Disulfide | 114 |
| 3-Chloropropene | 116 |
| Methylene Chloride | 74 |
| Methyl tert-butyl ether | 108 |
| trans-1,2-Dichloroethene | 111 |
| Hexane | 103 |
| 1,1-Dichloroethane | 101 |
| 2-Butanone (Methyl Ethyl Ketone) | 104 |
| cis-1,2-Dichloroethene | 105 |
| Tetrahydrofuran | 97 |
| Chloroform | 102 |
| 1,1,1-Trichloroethane | 104 |
| Cyclohexane | 104 |
| Carbon Tetrachloride | 79 |
| 2,2,4-Trimethylpentane | 93 |
| Benzene | 97 |
| 1,2-Dichloroethane | 100 |
| Heptane | 107 |
| Trichloroethene | 92 |
| 1,2-Dichloropropane | 96 |
| 1,4-Dioxane | 107 |
| Bromodichloromethane | 102 |
| cis-1,3-Dichloropropene | 105 |
| 4-Methyl-2-pentanone | 114 |
| Toluene | 98 |
| trans-1,3-Dichloropropene | 115 |
| 1,1,2-Trichloroethane | 96 |
| Tetrachloroethene | 97 |
| 2-Hexanone | 105 |

eurofins | Air Toxics

**Client Sample ID: LCS**

**Lab ID#: 1202444-06A**

**MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN**

| | | | |
|---|---|---|---|
| **File Name:** | **e031303** | **Date of Collection: NA** | |
| **Dil. Factor:** | **1.00** | **Date of Analysis: 3/13/12 10:18 AM** | |

| Compound | %Recovery |
|---|---|
| Dibromochloromethane | 107 |
| 1,2-Dibromoethane (EDB) | 103 |
| Chlorobenzene | 96 |
| Ethyl Benzene | 102 |
| m,p-Xylene | 105 |
| o-Xylene | 106 |
| Styrene | 108 |
| Bromoform | 107 |
| Cumene | 110 |
| 1,1,2,2-Tetrachloroethane | 102 |
| Propylbenzene | 107 |
| 4-Ethyltoluene | 104 |
| 1,3,5-Trimethylbenzene | 107 |
| 1,2,4-Trimethylbenzene | 113 |
| 1,3-Dichlorobenzene | 102 |
| 1,4-Dichlorobenzene | 99 |
| alpha-Chlorotoluene | 105 |
| 1,2-Dichlorobenzene | 100 |
| 1,2,4-Trichlorobenzene | 112 |
| Hexachlorobutadiene | 107 |
| 2,3-Dimethylpentane | Not Spiked |
| 2-Methylpentane | Not Spiked |
| Indene | Not Spiked |
| Indan | Not Spiked |
| Isopentane | 94 |
| Naphthalene | 87 |
| Thiophene | Not Spiked |

**Container Type: NA - Not Applicable**

| Surrogates | %Recovery | Method Limits |
|---|---|---|
| 1,2-Dichloroethane-d4 | 104 | 70-130 |
| Toluene-d8 | 102 | 70-130 |
| 4-Bromofluorobenzene | 101 | 70-130 |

Report Date: 13-Mar-2012 09:47

Air Toxics Ltd.

RECOVERY REPORT

Client Name: Client SDG: 13Mar2012
Sample Matrix: GAS Fraction: VOA
Lab Smp Id: LCS Client Smp ID: LCS
Level: LOW Operator: ll
Data Type: MS DATA SampleType: LCS
SpikeList File: AT09.spk Quant Type: ISTD
Sublist File: AT09.sub
Method File: /chem/msde.i/13Mar2012.b/e12l0308b.m
Misc Info: 10ppbv (50ppbv)

| SPIKE COMPOUND | CONC ADDED PPBV | CONC RECOVERED PPBV | % RECOVERED | LIMITS |
|---|---|---|---|---|
| 4 Dichlorodifluorome | 10.000 | 10.240 | 102.40 | 70-130 |
| 2 Propylene | 10.000 | 8.412 | 84.12 | 60-140 |
| 6 Freon 114 | 10.000 | 9.906 | 99.06 | 70-130 |
| 7 Chloromethane | 10.000 | 9.835 | 98.35 | 70-130 |
| 10 Vinyl Chloride | 10.000 | 10.044 | 100.44 | 70-130 |
| 11 1,3-Butadiene | 10.000 | 9.950 | 99.51 | 60-140 |
| 12 Bromomethane | 10.000 | 7.831 | 78.31 | 70-130 |
| 13 Chloroethane | 10.000 | 9.658 | 96.58 | 70-130 |
| 16 Trichlorofluoromet | 10.000 | 9.732 | 97.32 | 70-130 |
| 18 Ethanol | 10.000 | 9.124 | 91.24 | 60-140 |
| 19 Freon 113 | 10.000 | 9.685 | 96.85 | 70-130 |
| 21 1,1-Dichloroethene | 10.000 | 10.370 | 103.70 | 70-130 |
| 22 Acetone | 10.000 | 9.346 | 93.46 | 60-140 |
| 23 Carbon Disulfide | 10.000 | 11.382 | 113.82 | 60-140 |
| 25 2-Propanol | 10.000 | 10.283 | 102.83 | 60-140 |
| 26 3-Chloroprene | 10.000 | 11.642 | 116.42 | 60-140 |
| 29 Methylene Chloride | 10.000 | 7.408 | 74.09 | 70-130 |
| 31 MTBE | 10.000 | 10.844 | 108.44 | 60-140 |
| 32 trans-1,2-Dichloro | 10.000 | 11.147 | 111.47 | 60-140 |
| 35 Hexane | 10.000 | 10.315 | 103.15 | 60-140 |
| 37 1,1-Dichloroethane | 10.000 | 10.062 | 100.62 | 70-130 |
| 38 Vinyl Acetate | 10.000 | 10.105 | 101.05 | 60-140 |
| 41 cis-1,2-Dichloroet | 10.000 | 10.525 | 105.25 | 70-130 |
| 42 2-Butanone | 10.000 | 10.373 | 103.73 | 60-140 |
| 44 Tetrahydrofuran | 10.000 | 9.663 | 96.63 | 60-140 |
| 47 Chloroform | 10.000 | 10.158 | 101.58 | 70-130 |
| 48 Cyclohexane | 10.000 | 10.406 | 104.06 | 60-140 |
| 49 1,1,1-Trichloroeth | 10.000 | 10.426 | 104.26 | 70-130 |
| 51 Carbon Tetrachlori | 10.000 | 7.884 | 78.84 | 70-130 |
| 52 2,2,4-Trimethylpen | 10.000 | 9.270 | 92.71 | 60-140 |
| 53 Benzene | 10.000 | 9.706 | 97.06 | 70-130 |
| 57 Heptane | 10.000 | 10.723 | 107.23 | 60-140 |
| 56 1,2-Dichloroethane | 10.000 | 10.059 | 100.59 | 70-130 |

| SPIKE COMPOUND | CONC ADDED PPBV | CONC RECOVERED PPBV | % RECOVERED | LIMITS |
|---|---|---|---|---|
| 59 Trichloroethene | 10.000 | 9.154 | 91.54 | 70-130 |
| 61 1,2-Dichloropropan | 10.000 | 9.619 | 96.19 | 70-130 |
| 62 1,4-Dioxane | 10.000 | 10.685 | 106.85 | 60-140 |
| 63 Bromodichlorometha | 10.000 | 10.220 | 102.20 | 60-140 |
| 64 cis-1,3-Dichloropr | 10.000 | 10.535 | 105.35 | 70-130 |
| 65 4-Methyl-2-pentano | 10.000 | 11.364 | 113.64 | 60-140 |
| 68 Toluene | 10.000 | 9.768 | 97.69 | 70-130 |
| 69 trans-1,3-Dichloro | 10.000 | 11.525 | 115.25 | 70-130 |
| 70 1,1,2-Trichloroeth | 10.000 | 9.608 | 96.08 | 70-130 |
| 72 2-Hexanone | 10.000 | 10.521 | 105.21 | 60-140 |
| 71 Tetrachloroethene | 10.000 | 9.694 | 96.94 | 70-130 |
| 73 Dibromochlorometha | 10.000 | 10.704 | 107.04 | 60-140 |
| 74 1,2-Dibromoethane | 10.000 | 10.268 | 102.69 | 70-130 |
| 76 Chlorobenzene | 10.000 | 9.570 | 95.70 | 70-130 |
| 77 Ethyl Benzene | 10.000 | 10.154 | 101.54 | 70-130 |
| 80 m,p-Xylene | 10.000 | 10.531 | 105.31 | 70-130 |
| 81 o-Xylene | 10.000 | 10.652 | 106.52 | 70-130 |
| 83 Styrene | 10.000 | 10.752 | 107.52 | 70-130 |
| 84 Bromoform | 10.000 | 10.749 | 107.49 | 60-140 |
| 85 Cumene | 10.000 | 10.984 | 109.84 | 60-140 |
| 89 1,1,2,2-Tetrachlor | 10.000 | 10.152 | 101.52 | 70-130 |
| 90 Propylbenzene | 10.000 | 10.718 | 107.18 | 70-130 |
| 92 4-Ethyltoluene | 10.000 | 10.389 | 103.89 | 60-140 |
| 94 1,3,5-Trimethylben | 10.000 | 10.732 | 107.32 | 70-130 |
| 98 1,2,4-Trimethylben | 10.000 | 11.291 | 112.91 | 70-130 |
| 101 1,3-Dichlorobenzen | 10.000 | 10.205 | 102.05 | 70-130 |
| 104 1,4-Dichlorobenzen | 10.000 | 9.868 | 98.68 | 70-130 |
| 105 alpha-chlorotoluen | 10.000 | 10.541 | 105.41 | 70-130 |
| 108 1,2-Dichlorobenzen | 10.000 | 9.990 | 99.90 | 70-130 |
| 112 1,2,4-Trichloroben | 10.000 | 11.231 | 112.31 | 70-130 |
| 113 Hexachlorobutadien | 10.000 | 10.704 | 107.04 | 70-130 |
| 114 Naphthalene | 1.000 | 0.8726 | 87.26 | 60-140 |
| 14 Isopentane | 10.000 | 9.439 | 94.39 | 60-140 |
| 9 Butane | 10.000 | 10.802 | 108.02 | 60-140 |
| 60 Methylcyclohexane | 10.000 | 10.453 | 104.53 | 60-140 |

| SURROGATE COMPOUND | CONC ADDED PPBV | CONC RECOVERED PPBV | % RECOVERED | LIMITS |
|---|---|---|---|---|
| $ 54 1,2-Dichloroethane | 5.000 | 5.191 | 103.82 | 70-130 |
| $ 67 Toluene-d8 | 5.000 | 5.108 | 102.17 | 70-130 |
| $ 87 Bromofluorobenzene | 5.000 | 5.058 | 101.17 | 70-130 |

Air Toxics Ltd.

EPA TO-15/Modified TO14A

Data file : /chem/msde.i/13Mar2012.b/e031303.d
Lab Smp Id: LCS Client Smp ID: LCS
Inj Date : 13-MAR-2012 10:18
Operator : ll Inst ID: msde.i
Smp Info : 50mL #2370-221; LCS;LCS
Misc Info : 10ppbv (50ppbv)
Comment : Low-Level/GC-MS
Method : /chem/msde.i/13Mar2012.b/e12l0308b.m
Meth Date : 13-Mar-2012 09:40 llarson Quant Type: ISTD
Cal Date : 10-MAR-2012 19:22 Cal File: e031014.d
Als bottle: 8 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AT09.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

| Name | Value | Description |
|---|---|---|
| DF | 1.00000 | Dilution Factor |

| RT | EXP RT (REL RT) | MASS | RESPONSE | CONCENTRATIONS ON-COL ( PPBV) | CONCENTRATIONS FINAL ( PPBV) | TARGET RANGE | RATIO |
|---|---|---|---|---|---|---|---|
| * 46 Bromochloromethane | | | | | CAS #: 74-97-5 | | |
| 16.127 | 16.128 (1.000) | 130 | 80927 | 5.00000 | | 80.00- 120.00 | 100.00 |
| 16.127 | 16.128 (1.000) | 128 | 65139 | | | 0.00- 30.00 | 80.49 |
| 16.127 | 16.128 (1.000) | 49 | 120876 | | | 0.00- 30.00 | 149.36 |
| * 58 1,4-Difluorobenzene | | | | | CAS #: 540-36-3 | | |
| 17.585 | 17.586 (1.000) | 114 | 314763 | 5.00000 | | 80.00- 120.00 | 100.00 |
| 17.585 | 17.586 (1.000) | 88 | 57028 | | | 0.00- 30.00 | 18.12 |
| * 75 Chlorobenzene-d5 | | | | | CAS #: 3114-55-4 | | |
| 22.927 | 22.927 (1.000) | 117 | 271767 | 5.00000 | | 80.00- 120.00 | 100.00 |
| 22.927 | 22.927 (1.000) | 82 | 187278 | | | 0.00- 30.00 | 68.91 |
| $ 54 1,2-Dichloroethane-d4 | | | | | CAS #: 17060-07-0 | | |
| 17.013 | 17.013 (1.055) | 65 | 156551 | 5.19109 | 5.191 | 80.00- 120.00 | 100.00 |
| 17.013 | 17.013 (1.055) | 67 | 78294 | | | 0.00- 30.00 | 50.01 |

| RT | EXP RT (REL RT) | MASS | RESPONSE | CONCENTRATIONS ON-COL ( PPBV) | FINAL ( PPBV) | TARGET RANGE | RATIO |
|---|---|---|---|---|---|---|---|
| $ 67 Toluene-d8 | | | | | CAS #: 2037-26-5 | | |
| 20.368 | 20.368 (1.158) | 98 | 323888 | 5.10860 | 5.108 | 80.00- 120.00 | 100.00 |
| 20.368 | 20.368 (1.158) | 70 | 41005 | | | 0.00- 30.00 | 12.66 |
| 20.368 | 20.368 (1.158) | 100 | 208712 | | | 33.49- 93.49 | 64.44 |
| $ 87 Bromofluorobenzene | | | | | CAS #: 460-00-4 | | |
| 24.525 | 24.526 (1.070) | 174 | 157262 | 5.05843 | 5.058 | 80.00- 120.00 | 100.00 |
| 24.525 | 24.526 (1.070) | 95 | 251614 | | | 133.09- 193.09 | 160.00 |
| 24.525 | 24.526 (1.070) | 176 | 152839 | | | 66.22- 126.22 | 97.19 |
| 2 Propylene | | | | | CAS #: 115-07-1 | | |
| 5.449 | 5.449 (0.338) | 41 | 108515 | 8.41204 | 8.412 | 80.00- 120.00 | 100.00 |
| 5.473 | 5.449 (0.339) | 42 | 71940 | | | 0.00- 30.00 | 66.29 |
| 5.473 | 5.449 (0.339) | 39 | 92847 | | | 0.00- 30.00 | 85.56 |
| 4 Dichlorodifluoromethane/Fr12 | | | | | CAS #: 75-71-8 | | |
| 5.955 | 5.931 (0.369) | 85 | 968375 | 10.2398 | 10.240 | 80.00- 120.00 | 100.00 |
| 5.931 | 5.931 (0.368) | 87 | 306909 | | | 2.20- 62.20 | 31.69 |
| 6 Freon 114 | | | | | CAS #: 76-14-2 | | |
| 7.329 | 7.305 (0.454) | 135 | 487421 | 9.90627 | 9.906 | 80.00- 120.00 | 100.00 |
| 7.329 | 7.305 (0.454) | 137 | 156277 | | | 0.00- 30.00 | 32.06 |
| 7 Chloromethane | | | | | CAS #: 74-87-3 | | |
| 7.691 | 7.667 (0.477) | 50 | 137464 | 9.83508 | 9.835 | 80.00- 120.00 | 100.00 |
| 7.691 | 7.667 (0.477) | 52 | 46530 | | | 0.00- 30.00 | 33.85 |
| 9 Butane | | | | | CAS #: 106-97-8 | | |
| 8.404 | 8.387 (0.521) | 58 | 51960 | 10.8021 | 10.802 | 80.00- 120.00 | 100.00 |
| 8.404 | 8.387 (0.521) | 43 | 267477 | | | 0.00- 30.00 | 514.77 |
| 10 Vinyl Chloride | | | | | CAS #: 75-01-4 | | |
| 8.543 | 8.526 (0.530) | 62 | 221583 | 10.0443 | 10.044 | 80.00- 120.00 | 100.00 |
| 8.543 | 8.526 (0.530) | 64 | 73527 | | | 1.37- 61.37 | 33.18 |
| 11 1,3-Butadiene | | | | | CAS #: 106-99-0 | | |
| 8.769 | 8.769 (0.544) | 54 | 137968 | 9.95051 | 9.950 | 80.00- 120.00 | 100.00 |
| 8.769 | 8.769 (0.544) | 39 | 130097 | | | 0.00- 30.00 | 94.30 |
| 12 Bromomethane | | | | | CAS #: 74-83-9 | | |
| 10.251 | 10.251 (0.636) | 94 | 191014 | 7.83111 | 7.831 | 80.00- 120.00 | 100.00 |
| 10.251 | 10.251 (0.636) | 96 | 175297 | | | 64.19- 124.19 | 91.77 |
| 13 Chloroethane | | | | | CAS #: 75-00-3 | | |
| 10.728 | 10.707 (0.665) | 64 | 113529 | 9.65813 | 9.658 | 80.00- 120.00 | 100.00 |
| 10.728 | 10.707 (0.665) | 49 | 24630 | | | 0.00- 30.00 | 21.69 |

| RT | EXP RT (REL RT) | MASS | RESPONSE | CONCENTRATIONS ON-COL ( PPBV) | FINAL ( PPBV) | TARGET RANGE | RATIO |
|---|---|---|---|---|---|---|---|
| 13 Chloroethane (continued) | | | | | | | |
| 10.728 | 10.707 (0.665) | 66 | 38109 | | | 0.00- 30.00 | 33.57 |
| 14 Isopentane | | | | | CAS #: 78-78-4 | | |
| 10.852 | 10.852 (0.673) | 57 | 140136 | 9.43881 | 9.439 | 80.00- 120.00 | 100.00 |
| 10.852 | 10.852 (0.673) | 43 | 157514 | | | 0.00- 30.00 | 112.40 |
| 10.852 | 10.852 (0.673) | 42 | 131261 | | | 0.00- 30.00 | 93.67 |
| 16 Trichlorofluoromethane/Fr11 | | | | | CAS #: 75-69-4 | | |
| 11.474 | 11.474 (0.711) | 101 | 970628 | 9.73231 | 9.732 | 80.00- 120.00 | 100.00 |
| 11.474 | 11.474 (0.711) | 103 | 631461 | | | 35.52- 95.52 | 65.06 |
| 18 Ethanol | | | | | CAS #: 64-17-5 | | |
| 12.324 | 12.303 (0.764) | 45 | 47506 | 9.12377 | 9.124 | 80.00- 120.00 | 100.00 |
| 12.324 | 12.303 (0.764) | 46 | 19252 | | | 0.00- 30.00 | 40.53 |
| 12.324 | 12.324 (0.764) | 43 | 13723 | | | 0.00- 30.00 | 28.89 |
| 21 1,1-Dichloroethene | | | | | CAS #: 75-35-4 | | |
| 12.821 | 12.821 (0.795) | 98 | 148719 | 10.3696 | 10.370 | 80.00- 120.00 | 100.00 |
| 12.821 | 12.801 (0.795) | 61 | 388944 | | | 0.00- 30.00 | 261.53 |
| 12.821 | 12.821 (0.795) | 96 | 234843 | | | 0.00- 30.00 | 157.91 |
| 19 Freon 113 | | | | | CAS #: 76-13-1 | | |
| 12.800 | 12.780 (0.794) | 151 | 408437 | 9.68464 | 9.685 | 80.00- 120.00 | 100.00 |
| 12.800 | 12.780 (0.794) | 153 | 261149 | | | 34.78- 94.78 | 63.94 |
| 12.780 | 12.780 (0.792) | 101 | 562919 | | | 0.00- 30.00 | 137.82 |
| 22 Acetone | | | | | CAS #: 67-64-1 | | |
| 13.070 | 13.070 (0.810) | 58 | 85475 | 9.34554 | 9.346 | 80.00- 120.00 | 100.00 |
| 13.070 | 13.070 (0.810) | 43 | 285714 | | | 0.00- 30.00 | 334.27 |
| 23 Carbon Disulfide | | | | | CAS #: 75-15-0 | | |
| 13.194 | 13.174 (0.818) | 76 | 684924 | 11.3815 | 11.382 | 80.00- 120.00 | 100.00 |
| 26 3-Chloroprene | | | | | CAS #: 107-05-1 | | |
| 13.588 | 13.588 (0.843) | 76 | 103334 | 11.6417 | 11.642 | 80.00- 120.00 | 100.00 |
| 13.588 | 13.588 (0.843) | 41 | 170295 | | | 0.00- 30.00 | 164.80 |
| 25 2-Propanol | | | | | CAS #: 67-63-0 | | |
| 13.360 | 13.360 (0.828) | 45 | 254256 | 10.2828 | 10.283 | 80.00- 120.00 | 100.00 |
| 13.360 | 13.360 (0.828) | 43 | 73477 | | | 0.00- 30.00 | 28.90 |
| 13.360 | 13.360 (0.828) | 59 | 11510 | | | 0.00- 30.00 | 4.53 |
| 29 Methylene Chloride | | | | | CAS #: 75-09-2 | | |
| 13.885 | 13.885 (0.861) | 84 | 83640 | 7.40857 | 7.408 | 80.00- 120.00 | 100.00 |
| 13.885 | 13.885 (0.861) | 49 | 66929 | | | 0.00- 30.00 | 80.02 |

| RT | EXP RT (REL RT) | MASS | RESPONSE | CONCENTRATIONS ON-COL ( PPBV) | FINAL ( PPBV) | TARGET RANGE | RATIO |
|---|---|---|---|---|---|---|---|
| 29 Methylene Chloride (continued) | | | | | | | |
| 13.885 | 13.885 (0.861) | 51 | 20784 | | | 0.00- 30.00 | 24.85 |
| 30 tert-butyl alcohol | | | | | CAS #: 75-65-0 | | |
| 14.242 | 14.023 (0.883) | 59 | 16629 | 0.70930 | 0.7093 | 80.00- 120.00 | 100.00 |
| 14.187 | 14.023 (0.880) | 41 | 120706 | | | 0.00- 30.00 | 725.88 |
| 14.187 | 14.023 (0.880) | 57 | 127632 | | | 0.00- 30.00 | 767.53 |
| 31 MTBE | | | | | CAS #: 1634-04-4 | | |
| 14.187 | 14.187 (0.880) | 73 | 788617 | 10.8439 | 10.844 | 80.00- 120.00 | 100.00 |
| 14.187 | 14.187 (0.880) | 57 | 127632 | | | 0.00- 30.00 | 16.18 |
| 14.187 | 14.187 (0.880) | 41 | 120706 | | | 0.00- 30.00 | 15.31 |
| 32 trans-1,2-Dichloroethene | | | | | CAS #: 156-60-5 | | |
| 14.242 | 14.242 (0.883) | 98 | 171258 | 11.1472 | 11.147 | 80.00- 120.00 | 100.00 |
| 14.242 | 14.242 (0.883) | 61 | 349722 | | | 0.00- 30.00 | 204.21 |
| 14.242 | 14.242 (0.883) | 96 | 262660 | | | 0.00- 30.00 | 153.37 |
| 35 Hexane | | | | | CAS #: 110-54-3 | | |
| 14.544 | 14.517 (0.902) | 57 | 271998 | 10.3150 | 10.315 | 80.00- 120.00 | 100.00 |
| 14.517 | 14.517 (0.900) | 43 | 142127 | | | 0.00- 30.00 | 52.25 |
| 14.544 | 14.544 (0.902) | 86 | 66604 | | | 0.00- 30.00 | 24.49 |
| 37 1,1-Dichloroethane | | | | | CAS #: 75-34-3 | | |
| 14.956 | 14.929 (0.927) | 63 | 436923 | 10.0618 | 10.062 | 80.00- 120.00 | 100.00 |
| 14.956 | 14.929 (0.927) | 65 | 140636 | | | 0.00- 30.00 | 32.19 |
| 38 Vinyl Acetate | | | | | CAS #: 108-05-4 | | |
| 14.956 | 14.956 (0.927) | 86 | 64829 | 10.1052 | 10.105 | 80.00- 120.00 | 100.00 |
| 14.956 | 14.956 (0.927) | 42 | 45109 | | | 0.00- 30.00 | 69.58 |
| 14.956 | 14.956 (0.927) | 43 | 401163 | | | 0.00- 30.00 | 618.80 |
| 41 cis-1,2-Dichloroethene | | | | | CAS #: 156-59-2 | | |
| 15.787 | 15.787 (0.979) | 98 | 243124 | 10.5253 | 10.525 | 80.00- 120.00 | 100.00 |
| 15.766 | 15.766 (0.978) | 61 | 468379 | | | 0.00- 30.00 | 192.65 |
| 15.787 | 15.787 (0.979) | 96 | 380227 | | | 123.56- 183.56 | 156.39 |
| 42 2-Butanone | | | | | CAS #: 78-93-3 | | |
| 15.766 | 15.766 (0.978) | 72 | 171990 | 10.3727 | 10.373 | 80.00- 120.00 | 100.00 |
| 15.766 | 15.766 (0.978) | 43 | 435115 | | | 0.00- 30.00 | 252.99 |
| 15.766 | 15.766 (0.978) | 57 | 44840 | | | 0.00- 30.00 | 26.07 |
| 44 Tetrahydrofuran | | | | | CAS #: 109-99-9 | | |
| 16.127 | 16.128 (1.000) | 42 | 159730 | 9.66310 | 9.663 | 80.00- 120.00 | 100.00 |
| 16.127 | 16.128 (1.000) | 71 | 108912 | | | 0.00- 30.00 | 68.19 |
| 16.127 | 16.128 (1.000) | 72 | 119595 | | | 0.00- 30.00 | 74.87 |

| RT | EXP RT (REL RT) | MASS | RESPONSE | CONCENTRATIONS ON-COL ( PPBV) | CONCENTRATIONS FINAL ( PPBV) | TARGET RANGE | RATIO |
|---|---|---|---|---|---|---|---|
| 47 Chloroform | | | | | CAS #: 67-66-3 | | |
| 16.189 | 16.189 (1.004) | 83 | 675254 | 10.1585 | 10.158 | 80.00- 120.00 | 100.00 |
| 16.189 | 16.189 (1.004) | 85 | 427289 | | | 0.00- 30.00 | 63.28 |
| 48 Cyclohexane | | | | | CAS #: 110-82-7 | | |
| 16.466 | 16.467 (1.021) | 84 | 369354 | 10.4064 | 10.406 | 80.00- 120.00 | 100.00 |
| 16.466 | 16.467 (1.021) | 56 | 296907 | | | 0.00- 30.00 | 80.39 |
| 16.466 | 16.467 (1.021) | 41 | 159212 | | | 0.00- 30.00 | 43.11 |
| 49 1,1,1-Trichloroethane | | | | | CAS #: 71-55-6 | | |
| 16.466 | 16.467 (1.021) | 97 | 791944 | 10.4260 | 10.426 | 80.00- 120.00 | 100.00 |
| 16.466 | 16.467 (1.021) | 99 | 505281 | | | 0.00- 30.00 | 63.80 |
| 51 Carbon Tetrachloride | | | | | CAS #: 56-23-5 | | |
| 16.651 | 16.652 (1.032) | 119 | 448073 | 7.88378 | 7.884 | 80.00- 120.00 | 100.00 |
| 16.651 | 16.652 (1.032) | 117 | 462601 | | | 0.00- 30.00 | 103.24 |
| 52 2,2,4-Trimethylpentane | | | | | CAS #: 540-84-1 | | |
| 16.925 | 16.926 (1.049) | 56 | 376927 | 9.27057 | 9.270 | 80.00- 120.00 | 100.00 |
| 16.925 | 16.926 (1.049) | 57 | 1207197 | | | 0.00- 30.00 | 320.27 |
| 16.925 | 16.926 (1.049) | 41 | 345426 | | | 0.00- 30.00 | 91.64 |
| 53 Benzene | | | | | CAS #: 71-43-2 | | |
| 17.013 | 17.013 (0.967) | 78 | 783666 | 9.70571 | 9.706 | 80.00- 120.00 | 100.00 |
| 17.013 | 17.013 (0.967) | 77 | 184616 | | | 0.00- 30.00 | 23.56 |
| 56 1,2-Dichloroethane | | | | | CAS #: 107-06-2 | | |
| 17.129 | 17.130 (0.974) | 62 | 457981 | 10.0589 | 10.059 | 80.00- 120.00 | 100.00 |
| 17.129 | 17.130 (0.974) | 64 | 150812 | | | 0.00- 30.00 | 32.93 |
| 57 Heptane | | | | | CAS #: 142-82-5 | | |
| 17.159 | 17.159 (0.976) | 57 | 178952 | 10.7228 | 10.723 | 80.00- 120.00 | 100.00 |
| 17.159 | 17.159 (0.976) | 100 | 108430 | | | 0.00- 30.00 | 60.59 |
| 17.159 | 17.159 (0.976) | 43 | 265710 | | | 0.00- 30.00 | 148.48 |
| 59 Trichloroethene | | | | | CAS #: 79-01-6 | | |
| 18.025 | 18.025 (1.025) | 130 | 326434 | 9.15400 | 9.154 | 80.00- 120.00 | 100.00 |
| 18.025 | 18.025 (1.025) | 95 | 376916 | | | 0.00- 30.00 | 115.46 |
| 18.025 | 18.025 (1.025) | 97 | 242297 | | | 0.00- 30.00 | 74.23 |
| 60 Methylcyclohexane | | | | | CAS #: 108-87-2 | | |
| 18.272 | 18.272 (1.039) | 83 | 481516 | 10.4528 | 10.453 | 80.00- 120.00 | 100.00 |
| 18.272 | 18.272 (1.039) | 55 | 300360 | | | 0.00- 30.00 | 62.38 |
| 18.272 | 18.272 (1.039) | 56 | 85761 | | | 0.00- 30.00 | 17.81 |
| 61 1,2-Dichloropropane | | | | | CAS #: 78-87-5 | | |
| 18.519 | 18.519 (1.053) | 63 | 238794 | 9.61924 | 9.619 | 80.00- 120.00 | 100.00 |

| RT | EXP RT (REL RT) | MASS | RESPONSE | CONCENTRATIONS ON-COL ( PPBV) | CONCENTRATIONS FINAL ( PPBV) | TARGET RANGE | RATIO |
|---|---|---|---|---|---|---|---|
| 61 1,2-Dichloropropane (continued) | | | | | | | |
| 18.519 | 18.519 (1.053) | 62 | 164714 | | | 0.00- 30.00 | 68.98 |
| 18.492 | 18.492 (1.052) | 41 | 151077 | | | 35.53- 95.53 | 63.27 |
| 62 1,4-Dioxane | | | | | CAS #: 123-91-1 | | |
| 18.629 | 18.629 (1.059) | 88 | 189165 | 10.6850 | 10.685 | 80.00- 120.00 | 100.00 |
| 18.629 | 18.629 (1.059) | 58 | 103655 | | | 0.00- 30.00 | 54.80 |
| 18.629 | 18.629 (1.059) | 57 | 34231 | | | 0.00- 30.00 | 18.10 |
| 63 Bromodichloromethane | | | | | CAS #: 75-27-4 | | |
| 18.958 | 18.959 (1.078) | 83 | 708718 | 10.2199 | 10.220 | 80.00- 120.00 | 100.00 |
| 18.958 | 18.959 (1.078) | 85 | 449161 | | | 0.00- 30.00 | 63.38 |
| 64 cis-1,3-Dichloropropene | | | | | CAS #: 10061-01-5 | | |
| 19.865 | 19.865 (1.130) | 75 | 452605 | 10.5354 | 10.535 | 80.00- 120.00 | 100.00 |
| 19.865 | 19.865 (1.130) | 77 | 139449 | | | 0.00- 30.00 | 30.81 |
| 19.865 | 19.865 (1.130) | 39 | 184911 | | | 12.78- 72.78 | 40.85 |
| 65 4-Methyl-2-pentanone | | | | | CAS #: 108-10-1 | | |
| 20.076 | 20.077 (1.142) | 43 | 364637 | 11.3642 | 11.364 | 80.00- 120.00 | 100.00 |
| 20.076 | 20.077 (1.142) | 58 | 175237 | | | 0.00- 30.00 | 48.06 |
| 20.076 | 20.077 (1.142) | 85 | 107719 | | | 0.00- 30.00 | 29.54 |
| 68 Toluene | | | | | CAS #: 108-88-3 | | |
| 20.525 | 20.525 (1.167) | 91 | 941195 | 9.76854 | 9.768 | 80.00- 120.00 | 100.00 |
| 20.525 | 20.525 (1.167) | 92 | 551546 | | | 0.00- 30.00 | 58.60 |
| 69 trans-1,3-Dichloropropene | | | | | CAS #: 10061-02-6 | | |
| 20.995 | 20.995 (0.916) | 75 | 671687 | 11.5253 | 11.525 | 80.00- 120.00 | 100.00 |
| 20.995 | 20.995 (0.916) | 77 | 214236 | | | 0.00- 30.00 | 31.90 |
| 20.995 | 20.995 (0.916) | 39 | 180698 | | | 0.00- 57.19 | 26.90 |
| 70 1,1,2-Trichloroethane | | | | | CAS #: 79-00-5 | | |
| 21.335 | 21.335 (0.931) | 97 | 337344 | 9.60777 | 9.608 | 80.00- 120.00 | 100.00 |
| 21.335 | 21.335 (0.931) | 99 | 213864 | | | 0.00- 30.00 | 63.40 |
| 21.335 | 21.335 (0.931) | 83 | 286824 | | | 54.96- 114.96 | 85.02 |
| 71 Tetrachloroethene | | | | | CAS #: 127-18-4 | | |
| 21.497 | 21.498 (0.938) | 166 | 395105 | 9.69424 | 9.694 | 80.00- 120.00 | 100.00 |
| 21.497 | 21.498 (0.938) | 129 | 343418 | | | 0.00- 30.00 | 86.92 |
| 21.497 | 21.498 (0.938) | 131 | 333229 | | | 0.00- 30.00 | 84.34 |
| 72 2-Hexanone | | | | | CAS #: 591-78-6 | | |
| 21.660 | 21.660 (0.945) | 58 | 233799 | 10.5212 | 10.521 | 80.00- 120.00 | 100.00 |
| 21.660 | 21.660 (0.945) | 43 | 366735 | | | 0.00- 30.00 | 156.86 |
| 21.660 | 21.660 (0.945) | 100 | 65751 | | | 0.00- 30.00 | 28.12 |

| RT | EXP RT (REL RT) | MASS | RESPONSE | CONCENTRATIONS ON-COL ( PPBV) | FINAL ( PPBV) | TARGET RANGE | RATIO |
|---|---|---|---|---|---|---|---|
| 73 Dibromochloromethane | | | | | CAS #: 124-48-1 | | |
| 22.018 | 22.018 (0.960) | 129 | 639471 | 10.7041 | 10.704 | 80.00- 120.00 | 100.00 |
| 22.018 | 22.018 (0.960) | 127 | 487382 | | | 0.00- 30.00 | 76.22 |
| 74 1,2-Dibromoethane | | | | | CAS #: 106-93-4 | | |
| 22.278 | 22.278 (0.972) | 107 | 553026 | 10.2686 | 10.268 | 80.00- 120.00 | 100.00 |
| 22.278 | 22.278 (0.972) | 109 | 500363 | | | 0.00- 30.00 | 90.48 |
| 76 Chlorobenzene | | | | | CAS #: 108-90-7 | | |
| 22.951 | 22.951 (1.001) | 112 | 741205 | 9.56979 | 9.570 | 80.00- 120.00 | 100.00 |
| 22.951 | 22.951 (1.001) | 114 | 238889 | | | 0.00- 30.00 | 32.23 |
| 22.951 | 22.951 (1.001) | 77 | 495451 | | | 37.15- 97.15 | 66.84 |
| 77 Ethyl Benzene | | | | | CAS #: 100-41-4 | | |
| 23.023 | 23.023 (1.004) | 106 | 384231 | 10.1539 | 10.154 | 80.00- 120.00 | 100.00 |
| 23.023 | 23.023 (1.004) | 91 | 1346070 | | | 0.00- 30.00 | 350.33 |
| 80 m,p-Xylene | | | | | CAS #: 108-38-3 | | |
| 23.192 | 23.192 (1.012) | 106 | 479498 | 10.5313 | 10.531 | 80.00- 120.00 | 100.00 |
| 23.192 | 23.192 (1.012) | 91 | 1085975 | | | 0.00- 30.00 | 226.48 |
| 81 o-Xylene | | | | | CAS #: 95-47-6 | | |
| 23.770 | 23.770 (1.037) | 106 | 466263 | 10.6522 | 10.652 | 80.00- 120.00 | 100.00 |
| 23.770 | 23.770 (1.037) | 91 | 1117740 | | | 0.00- 30.00 | 239.72 |
| 83 Styrene | | | | | CAS #: 100-42-5 | | |
| 23.818 | 23.818 (1.039) | 104 | 710415 | 10.7519 | 10.752 | 80.00- 120.00 | 100.00 |
| 23.794 | 23.794 (1.038) | 78 | 437152 | | | 0.00- 30.00 | 61.53 |
| 84 Bromoform | | | | | CAS #: 75-25-2 | | |
| 24.131 | 24.132 (1.053) | 173 | 555189 | 10.7494 | 10.749 | 80.00- 120.00 | 100.00 |
| 24.131 | 24.132 (1.053) | 171 | 285639 | | | 0.00- 30.00 | 51.45 |
| 85 Cumene | | | | | CAS #: 98-82-8 | | |
| 24.228 | 24.228 (1.057) | 105 | 1556767 | 10.9843 | 10.984 | 80.00- 120.00 | 100.00 |
| 24.228 | 24.228 (1.057) | 120 | 371352 | | | 0.00- 30.00 | 23.85 |
| 89 1,1,2,2-Tetrachloroethane | | | | | CAS #: 79-34-5 | | |
| 24.680 | 24.680 (1.076) | 83 | 743621 | 10.1522 | 10.152 | 80.00- 120.00 | 100.00 |
| 24.680 | 24.680 (1.076) | 85 | 472669 | | | 0.00- 30.00 | 63.56 |
| 90 Propylbenzene | | | | | CAS #: 103-65-1 | | |
| 24.758 | 24.758 (1.080) | 91 | 1945738 | 10.7182 | 10.718 | 80.00- 120.00 | 100.00 |
| 24.758 | 24.758 (1.080) | 120 | 395722 | | | 0.00- 30.00 | 20.34 |
| 92 4-Ethyltoluene | | | | | CAS #: 622-96-8 | | |
| 24.886 | 24.887 (1.085) | 105 | 1619471 | 10.3891 | 10.389 | 80.00- 120.00 | 100.00 |

| RT | EXP RT (REL RT) | MASS | RESPONSE | CONCENTRATIONS ON-COL ( PPBV) | CONCENTRATIONS FINAL ( PPBV) | TARGET RANGE | RATIO |
|---|---|---|---|---|---|---|---|
| 92 4-Ethyltoluene (continued) | | | | | | | |
| 24.886 | 24.887 (1.085) | 120 | 437052 | | | 0.00- 30.00 | 26.99 |
| 94 1,3,5-Trimethylbenzene | | | | | CAS #: 108-67-8 | | |
| 24.938 | 24.938 (1.088) | 105 | 1439978 | 10.7321 | 10.732 | 80.00- 120.00 | 100.00 |
| 24.938 | 24.964 (1.088) | 120 | 610577 | | | 0.00- 30.00 | 42.40 |
| 98 1,2,4-Trimethylbenzene | | | | | CAS #: 95-63-6 | | |
| 25.410 | 25.410 (1.108) | 105 | 1333722 | 11.2914 | 11.291 | 80.00- 120.00 | 100.00 |
| 25.410 | 25.410 (1.108) | 120 | 530540 | | | 0.00- 30.00 | 39.78 |
| 101 1,3-Dichlorobenzene | | | | | CAS #: 541-73-1 | | |
| 25.791 | 25.791 (1.125) | 146 | 764077 | 10.2048 | 10.205 | 80.00- 120.00 | 100.00 |
| 25.791 | 25.791 (1.125) | 148 | 480287 | | | 0.00- 30.00 | 62.86 |
| 25.791 | 25.791 (1.125) | 111 | 367094 | | | 0.00- 30.00 | 48.04 |
| 104 1,4-Dichlorobenzene | | | | | CAS #: 106-46-7 | | |
| 25.903 | 25.903 (1.130) | 146 | 739316 | 9.86842 | 9.868 | 80.00- 120.00 | 100.00 |
| 25.903 | 25.903 (1.130) | 148 | 478444 | | | 0.00- 30.00 | 64.71 |
| 25.903 | 25.903 (1.130) | 111 | 348723 | | | 0.00- 30.00 | 47.17 |
| 105 alpha-chlorotoluene | | | | | CAS #: 100-44-7 | | |
| 26.060 | 26.060 (1.137) | 91 | 1202894 | 10.5413 | 10.541 | 80.00- 120.00 | 100.00 |
| 26.060 | 26.060 (1.137) | 126 | 202160 | | | 0.00- 30.00 | 16.81 |
| 108 1,2-Dichlorobenzene | | | | | CAS #: 95-50-1 | | |
| 26.352 | 26.352 (1.149) | 146 | 709608 | 9.98967 | 9.990 | 80.00- 120.00 | 100.00 |
| 26.352 | 26.352 (1.149) | 148 | 452798 | | | 33.72- 93.72 | 63.81 |
| 26.352 | 26.352 (1.149) | 111 | 356794 | | | 20.80- 80.80 | 50.28 |
| 112 1,2,4-Trichlorobenzene | | | | | CAS #: 120-82-1 | | |
| 28.145 | 28.145 (1.228) | 180 | 521475 | 11.2310 | 11.231 | 80.00- 120.00 | 100.00 |
| 28.145 | 28.145 (1.228) | 182 | 501064 | | | 0.00- 30.00 | 96.09 |
| 113 Hexachlorobutadiene | | | | | CAS #: 87-68-3 | | |
| 28.235 | 28.235 (1.232) | 225 | 444035 | 10.7037 | 10.704 | 80.00- 120.00 | 100.00 |
| 28.235 | 28.235 (1.232) | 223 | 284663 | | | 0.00- 30.00 | 64.11 |
| 114 Naphthalene | | | | | CAS #: 91-20-3 | | |
| 28.504 | 28.504 (1.243) | 128 | 86269 | 0.87259 | 0.8726 | 80.00- 120.00 | 100.00 |
| 28.504 | 28.504 (1.243) | 127 | 12096 | | | 0.00- 30.00 | 14.02 |

Air Toxics Ltd.

EPA TO-15/Modified TO14A

Data file : /chem/msde.i/13Mar2012.b/e031303.d
Lab Smp Id: LCS Client Smp ID: LCS
Inj Date : 13-MAR-2012 10:18
Operator : ll Inst ID: msde.i
Smp Info : 50mL #2370-221; LCS;LCS
Misc Info : 10ppbv (50ppbv)
Comment : Low-Level/GC-MS
Method : /chem/msde.i/13Mar2012.b/e12l0308b.m
Meth Date : 13-Mar-2012 09:40 llarson Quant Type: ISTD
Cal Date : 10-MAR-2012 19:22 Cal File: e031014.d
Als bottle: 8 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AT09.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

- NO TENTATIVELY IDENTIFIED COMPOUNDS -

Report Date: 13-Mar-2012 09:47

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msde.i
Lab File ID: e031303.d
Lab Smp Id: LCS
Analysis Type: VOA
Quant Type: ISTD
Operator: ll
Method File: /chem/msde.i/13Mar2012.b/e12l0308b.m
Misc Info: 10ppbv (50ppbv)

Calibration Date: 13-MAR-2012
Calibration Time: 09:39
Client Smp ID: LCS
Level: LOW
Sample Type: AIR

| | | AREA LIMIT | | | |
|---|---|---|---|---|---|
| COMPOUND | STANDARD | LOWER | UPPER | SAMPLE | %DIFF |
| 46 Bromochloromethan | 78956 | 47374 | 110538 | 80927 | 2.50 |
| 58 1,4-Difluorobenze | 299545 | 179727 | 419363 | 314763 | 5.08 |
| 75 Chlorobenzene-d5 | 258990 | 155394 | 362586 | 271767 | 4.93 |

| | | RT LIMIT | | | |
|---|---|---|---|---|---|
| COMPOUND | STANDARD | LOWER | UPPER | SAMPLE | %DIFF |
| 46 Bromochloromethan | 16.13 | 15.80 | 16.46 | 16.13 | 0.00 |
| 58 1,4-Difluorobenze | 17.59 | 17.26 | 17.92 | 17.59 | 0.00 |
| 75 Chlorobenzene-d5 | 22.93 | 22.60 | 23.26 | 22.93 | 0.00 |

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

õU-

Data File: /chem/msde.i/13Mar2012.b/e031303.d



Date : 13-MAR-2012 10:18

Client ID: LCS

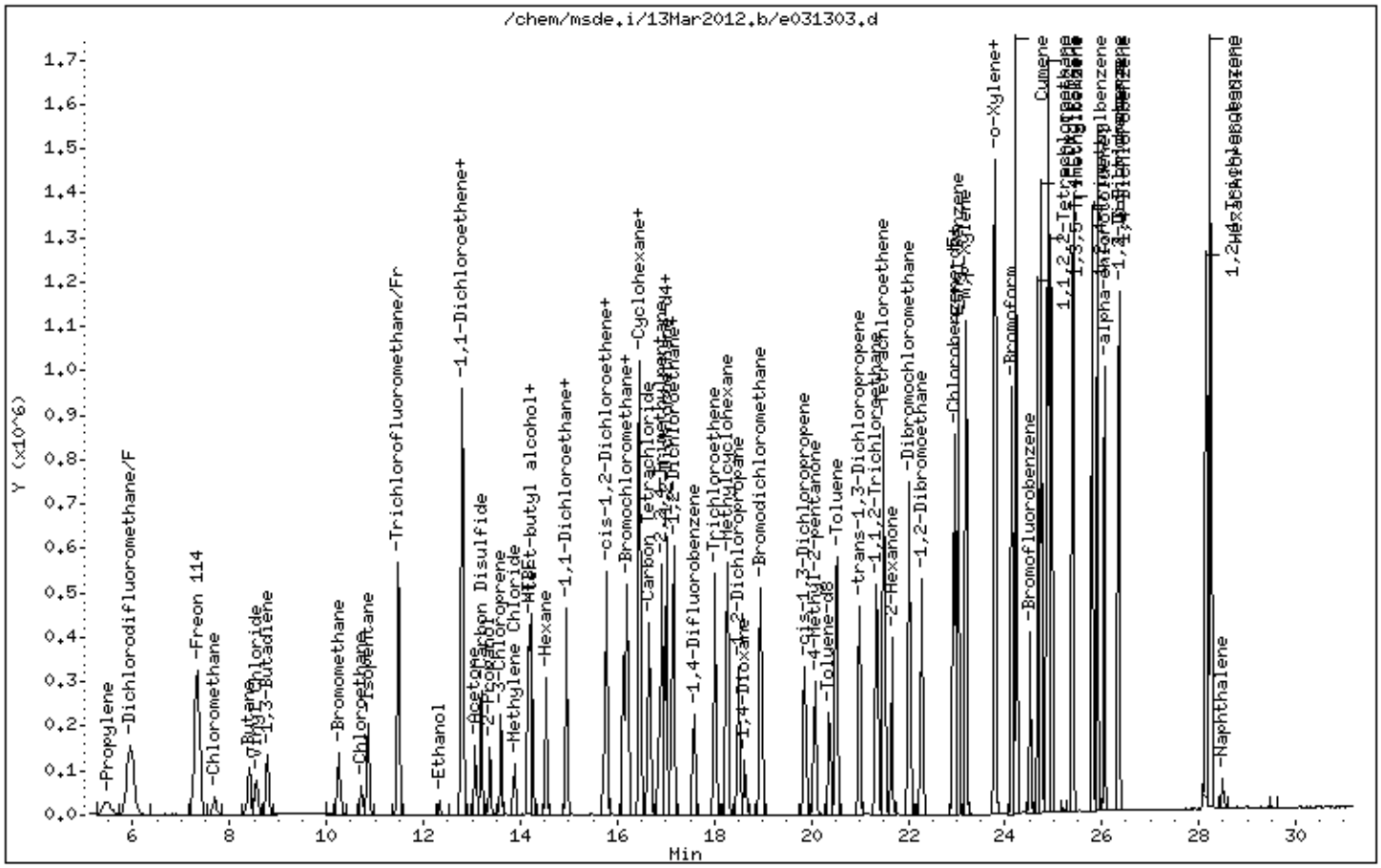
Instrument: msde.i

Sample Info: 50mL #2370-221; LCS;LCS

Operator: ll

Column phase: RTx-624

Column diameter: 0.32



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**Client Sample ID: LCSD**

**Lab ID#: 1202444-06AA**

**MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN**

| | | | |
|---|---|---|---|
| **File Name:** | **e031304** | **Date of Collection: NA** | |
| **Dil. Factor:** | **1.00** | **Date of Analysis: 3/13/12 10:56 AM** | |

| Compound | %Recovery |
|---|---|
| Freon 12 | 100 |
| Freon 114 | 99 |
| Chloromethane | 97 |
| Vinyl Chloride | 100 |
| 1,3-Butadiene | 100 |
| Bromomethane | 82 |
| Chloroethane | 97 |
| Freon 11 | 95 |
| Ethanol | 91 |
| Freon 113 | 99 |
| 1,1-Dichloroethene | 108 |
| Acetone | 94 |
| 2-Propanol | 104 |
| Carbon Disulfide | 116 |
| 3-Chloropropene | 117 |
| Methylene Chloride | 73 |
| Methyl tert-butyl ether | 108 |
| trans-1,2-Dichloroethene | 114 |
| Hexane | 105 |
| 1,1-Dichloroethane | 98 |
| 2-Butanone (Methyl Ethyl Ketone) | 94 |
| cis-1,2-Dichloroethene | 107 |
| Tetrahydrofuran | 95 |
| Chloroform | 101 |
| 1,1,1-Trichloroethane | 103 |
| Cyclohexane | 105 |
| Carbon Tetrachloride | 79 |
| 2,2,4-Trimethylpentane | 93 |
| Benzene | 94 |
| 1,2-Dichloroethane | 97 |
| Heptane | 107 |
| Trichloroethene | 89 |
| 1,2-Dichloropropane | 94 |
| 1,4-Dioxane | 103 |
| Bromodichloromethane | 100 |
| cis-1,3-Dichloropropene | 104 |
| 4-Methyl-2-pentanone | 113 |
| Toluene | 96 |
| trans-1,3-Dichloropropene | 116 |
| 1,1,2-Trichloroethane | 98 |
| Tetrachloroethene | 99 |
| 2-Hexanone | 108 |

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**Client Sample ID: LCSD**

**Lab ID#: 1202444-06AA**

**MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN**

| | | | |
|---|---|---|---|
| **File Name:** | **e031304** | **Date of Collection: NA** | |
| **Dil. Factor:** | **1.00** | **Date of Analysis: 3/13/12 10:56 AM** | |

| Compound | %Recovery |
|---|---|
| Dibromochloromethane | 106 |
| 1,2-Dibromoethane (EDB) | 104 |
| Chlorobenzene | 97 |
| Ethyl Benzene | 103 |
| m,p-Xylene | 108 |
| o-Xylene | 108 |
| Styrene | 108 |
| Bromoform | 106 |
| Cumene | 111 |
| 1,1,2,2-Tetrachloroethane | 103 |
| Propylbenzene | 106 |
| 4-Ethyltoluene | 104 |
| 1,3,5-Trimethylbenzene | 107 |
| 1,2,4-Trimethylbenzene | 111 |
| 1,3-Dichlorobenzene | 101 |
| 1,4-Dichlorobenzene | 99 |
| alpha-Chlorotoluene | 106 |
| 1,2-Dichlorobenzene | 99 |
| 1,2,4-Trichlorobenzene | 107 |
| Hexachlorobutadiene | 101 |
| 2,3-Dimethylpentane | Not Spiked |
| 2-Methylpentane | Not Spiked |
| Indene | Not Spiked |
| Indan | Not Spiked |
| Isopentane | 95 |
| Naphthalene | 79 |
| Thiophene | Not Spiked |

**Container Type: NA - Not Applicable**

| Surrogates | %Recovery | Method Limits |
|---|---|---|
| 1,2-Dichloroethane-d4 | 105 | 70-130 |
| Toluene-d8 | 104 | 70-130 |
| 4-Bromofluorobenzene | 104 | 70-130 |

Report Date: 13-Mar-2012 10:30

Air Toxics Ltd.

RECOVERY REPORT

Client Name: Client SDG: 13Mar2012
Sample Matrix: GAS Fraction: VOA
Lab Smp Id: LCSD Client Smp ID: LCSD
Level: LOW Operator: ll
Data Type: MS DATA SampleType: LCSD
SpikeList File: AT09.spk Quant Type: ISTD
Sublist File: AT09.sub
Method File: /chem/msde.i/13Mar2012.b/e12l0308b.m
Misc Info: 10ppbv (50ppbv)

| SPIKE COMPOUND | CONC ADDED PPBV | CONC RECOVERED PPBV | % RECOVERED | LIMITS |
|---|---|---|---|---|
| 4 Dichlorodifluorome | 10.000 | 10.015 | 100.15 | 70-130 |
| 2 Propylene | 10.000 | 8.296 | 82.96 | 60-140 |
| 6 Freon 114 | 10.000 | 9.892 | 98.92 | 70-130 |
| 7 Chloromethane | 10.000 | 9.670 | 96.70 | 70-130 |
| 10 Vinyl Chloride | 10.000 | 10.014 | 100.14 | 70-130 |
| 11 1,3-Butadiene | 10.000 | 10.059 | 100.59 | 60-140 |
| 12 Bromomethane | 10.000 | 8.172 | 81.72 | 70-130 |
| 13 Chloroethane | 10.000 | 9.748 | 97.48 | 70-130 |
| 16 Trichlorofluoromet | 10.000 | 9.540 | 95.40 | 70-130 |
| 18 Ethanol | 10.000 | 9.111 | 91.11 | 60-140 |
| 19 Freon 113 | 10.000 | 9.868 | 98.68 | 70-130 |
| 21 1,1-Dichloroethene | 10.000 | 10.765 | 107.65 | 70-130 |
| 22 Acetone | 10.000 | 9.433 | 94.33 | 60-140 |
| 23 Carbon Disulfide | 10.000 | 11.554 | 115.54 | 60-140 |
| 25 2-Propanol | 10.000 | 10.395 | 103.95 | 60-140 |
| 26 3-Chloroprene | 10.000 | 11.675 | 116.75 | 60-140 |
| 29 Methylene Chloride | 10.000 | 7.315 | 73.15 | 70-130 |
| 31 MTBE | 10.000 | 10.806 | 108.06 | 60-140 |
| 32 trans-1,2-Dichloro | 10.000 | 11.371 | 113.71 | 60-140 |
| 35 Hexane | 10.000 | 10.468 | 104.68 | 60-140 |
| 37 1,1-Dichloroethane | 10.000 | 9.793 | 97.93 | 70-130 |
| 38 Vinyl Acetate | 10.000 | 10.291 | 102.91 | 60-140 |
| 41 cis-1,2-Dichloroet | 10.000 | 10.713 | 107.13 | 70-130 |
| 42 2-Butanone | 10.000 | 9.354 | 93.54 | 60-140 |
| 44 Tetrahydrofuran | 10.000 | 9.538 | 95.38 | 60-140 |
| 47 Chloroform | 10.000 | 10.145 | 101.45 | 70-130 |
| 48 Cyclohexane | 10.000 | 10.468 | 104.68 | 60-140 |
| 49 1,1,1-Trichloroeth | 10.000 | 10.290 | 102.90 | 70-130 |
| 51 Carbon Tetrachlori | 10.000 | 7.937 | 79.37 | 70-130 |
| 52 2,2,4-Trimethylpen | 10.000 | 9.307 | 93.07 | 60-140 |
| 53 Benzene | 10.000 | 9.459 | 94.59 | 70-130 |
| 57 Heptane | 10.000 | 10.663 | 106.63 | 60-140 |
| 56 1,2-Dichloroethane | 10.000 | 9.667 | 96.67 | 70-130 |

| | SPIKE COMPOUND | CONC ADDED PPBV | CONC RECOVERED PPBV | % RECOVERED | LIMITS |
|---|---|---|---|---|---|
| 59 | Trichloroethene | 10.000 | 8.874 | 88.75 | 70-130 |
| 61 | 1,2-Dichloropropan | 10.000 | 9.458 | 94.58 | 70-130 |
| 62 | 1,4-Dioxane | 10.000 | 10.271 | 102.71 | 60-140 |
| 63 | Bromodichlorometha | 10.000 | 10.018 | 100.18 | 60-140 |
| 64 | cis-1,3-Dichloropr | 10.000 | 10.371 | 103.71 | 70-130 |
| 65 | 4-Methyl-2-pentano | 10.000 | 11.308 | 113.08 | 60-140 |
| 68 | Toluene | 10.000 | 9.621 | 96.21 | 70-130 |
| 69 | trans-1,3-Dichloro | 10.000 | 11.632 | 116.32 | 70-130 |
| 70 | 1,1,2-Trichloroeth | 10.000 | 9.775 | 97.75 | 70-130 |
| 72 | 2-Hexanone | 10.000 | 10.829 | 108.29 | 60-140 |
| 71 | Tetrachloroethene | 10.000 | 9.898 | 98.98 | 70-130 |
| 73 | Dibromochlorometha | 10.000 | 10.633 | 106.33 | 60-140 |
| 74 | 1,2-Dibromoethane | 10.000 | 10.361 | 103.61 | 70-130 |
| 76 | Chlorobenzene | 10.000 | 9.716 | 97.17 | 70-130 |
| 77 | Ethyl Benzene | 10.000 | 10.277 | 102.77 | 70-130 |
| 80 | m,p-Xylene | 10.000 | 10.755 | 107.55 | 70-130 |
| 81 | o-Xylene | 10.000 | 10.833 | 108.33 | 70-130 |
| 83 | Styrene | 10.000 | 10.833 | 108.33 | 70-130 |
| 84 | Bromoform | 10.000 | 10.624 | 106.24 | 60-140 |
| 85 | Cumene | 10.000 | 11.087 | 110.87 | 60-140 |
| 89 | 1,1,2,2-Tetrachlor | 10.000 | 10.296 | 102.96 | 70-130 |
| 90 | Propylbenzene | 10.000 | 10.572 | 105.72 | 70-130 |
| 92 | 4-Ethyltoluene | 10.000 | 10.384 | 103.84 | 60-140 |
| 94 | 1,3,5-Trimethylben | 10.000 | 10.662 | 106.62 | 70-130 |
| 98 | 1,2,4-Trimethylben | 10.000 | 11.142 | 111.42 | 70-130 |
| 101 | 1,3-Dichlorobenzen | 10.000 | 10.133 | 101.33 | 70-130 |
| 104 | 1,4-Dichlorobenzen | 10.000 | 9.923 | 99.23 | 70-130 |
| 105 | alpha-chlorotoluen | 10.000 | 10.556 | 105.56 | 70-130 |
| 108 | 1,2-Dichlorobenzen | 10.000 | 9.909 | 99.09 | 70-130 |
| 112 | 1,2,4-Trichloroben | 10.000 | 10.694 | 106.94 | 70-130 |
| 113 | Hexachlorobutadien | 10.000 | 10.105 | 101.05 | 70-130 |
| 114 | Naphthalene | 1.000 | 0.7898 | 78.98 | 60-140 |
| 14 | Isopentane | 10.000 | 9.521 | 95.21 | 60-140 |
| 9 | Butane | 10.000 | 10.418 | 104.18 | 60-140 |
| 60 | Methylcyclohexane | 10.000 | 10.325 | 103.25 | 60-140 |

| | SURROGATE COMPOUND | CONC ADDED PPBV | CONC RECOVERED PPBV | % RECOVERED | LIMITS |
|---|---|---|---|---|---|
| $ 54 | 1,2-Dichloroethane | 5.000 | 5.231 | 104.62 | 70-130 |
| $ 67 | Toluene-d8 | 5.000 | 5.177 | 103.55 | 70-130 |
| $ 87 | Bromofluorobenzene | 5.000 | 5.199 | 103.98 | 70-130 |

Air Toxics Ltd.

EPA TO-15/Modified TO14A

Data file : /chem/msde.i/13Mar2012.b/e031304.d
Lab Smp Id: LCSD Client Smp ID: LCSD
Inj Date : 13-MAR-2012 10:56
Operator : ll Inst ID: msde.i
Smp Info : 50mL #2370-221; LCSD;LCSD
Misc Info : 10ppbv (50ppbv)
Comment : Low-Level/GC-MS
Method : /chem/msde.i/13Mar2012.b/e12l0308b.m
Meth Date : 13-Mar-2012 09:40 llarson Quant Type: ISTD
Cal Date : 10-MAR-2012 19:22 Cal File: e031014.d
Als bottle: 8 QC Sample: LCSD
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AT09.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

| Name | Value | Description |
|---|---|---|
| DF | 1.00000 | Dilution Factor |

| RT | EXP RT (REL RT) | MASS | RESPONSE | CONCENTRATIONS ON-COL ( PPBV) | CONCENTRATIONS FINAL ( PPBV) | TARGET RANGE | RATIO |
|---|---|---|---|---|---|---|---|
| * 46 Bromochloromethane | | | | | CAS #: 74-97-5 | | |
| 16.127 | 16.128 (1.000) | 130 | 80779 | 5.00000 | | 80.00- 120.00 | 100.00 |
| 16.127 | 16.128 (1.000) | 128 | 64144 | | | 0.00- 30.00 | 79.41 |
| 16.127 | 16.128 (1.000) | 49 | 119826 | | | 0.00- 30.00 | 148.34 |
| * 58 1,4-Difluorobenzene | | | | | CAS #: 540-36-3 | | |
| 17.585 | 17.586 (1.000) | 114 | 321158 | 5.00000 | | 80.00- 120.00 | 100.00 |
| 17.585 | 17.586 (1.000) | 88 | 59059 | | | 0.00- 30.00 | 18.39 |
| * 75 Chlorobenzene-d5 | | | | | CAS #: 3114-55-4 | | |
| 22.927 | 22.927 (1.000) | 117 | 271511 | 5.00000 | | 80.00- 120.00 | 100.00 |
| 22.927 | 22.927 (1.000) | 82 | 183692 | | | 0.00- 30.00 | 67.66 |
| $ 54 1,2-Dichloroethane-d4 | | | | | CAS #: 17060-07-0 | | |
| 17.013 | 17.013 (1.055) | 65 | 157463 | 5.23090 | 5.231 | 80.00- 120.00 | 100.00 |
| 17.013 | 17.013 (1.055) | 67 | 79051 | | | 0.00- 30.00 | 50.20 |

| RT | EXP RT (REL RT) | MASS | RESPONSE | CONCENTRATIONS ON-COL ( PPBV) | CONCENTRATIONS FINAL ( PPBV) | TARGET RANGE | RATIO |
|---|---|---|---|---|---|---|---|
| $ 67 Toluene-d8 | | | | | CAS #: 2037-26-5 | | |
| 20.368 | 20.368 (1.158) | 98 | 334911 | 5.17727 | 5.177 | 80.00- 120.00 | 100.00 |
| 20.368 | 20.368 (1.158) | 70 | 40814 | | | 0.00- 30.00 | 12.19 |
| 20.368 | 20.368 (1.158) | 100 | 213086 | | | 33.49- 93.49 | 63.62 |
| $ 87 Bromofluorobenzene | | | | | CAS #: 460-00-4 | | |
| 24.525 | 24.526 (1.070) | 174 | 161476 | 5.19887 | 5.199 | 80.00- 120.00 | 100.00 |
| 24.525 | 24.526 (1.070) | 95 | 259806 | | | 133.09- 193.09 | 160.89 |
| 24.525 | 24.526 (1.070) | 176 | 158189 | | | 66.22- 126.22 | 97.96 |
| 2 Propylene | | | | | CAS #: 115-07-1 | | |
| 5.473 | 5.449 (0.339) | 41 | 106823 | 8.29605 | 8.296 | 80.00- 120.00 | 100.00 |
| 5.449 | 5.449 (0.338) | 42 | 70035 | | | 0.00- 30.00 | 65.56 |
| 5.449 | 5.449 (0.338) | 39 | 92773 | | | 0.00- 30.00 | 86.85 |
| 4 Dichlorodifluoromethane/Fr12 | | | | | CAS #: 75-71-8 | | |
| 5.931 | 5.931 (0.368) | 85 | 945432 | 10.0155 | 10.015 | 80.00- 120.00 | 100.00 |
| 5.931 | 5.931 (0.368) | 87 | 304373 | | | 2.20- 62.20 | 32.19 |
| 6 Freon 114 | | | | | CAS #: 76-14-2 | | |
| 7.329 | 7.305 (0.454) | 135 | 485851 | 9.89246 | 9.892 | 80.00- 120.00 | 100.00 |
| 7.329 | 7.305 (0.454) | 137 | 154441 | | | 0.00- 30.00 | 31.79 |
| 7 Chloromethane | | | | | CAS #: 74-87-3 | | |
| 7.691 | 7.667 (0.477) | 50 | 134914 | 9.67032 | 9.670 | 80.00- 120.00 | 100.00 |
| 7.691 | 7.667 (0.477) | 52 | 46594 | | | 0.00- 30.00 | 34.54 |
| 9 Butane | | | | | CAS #: 106-97-8 | | |
| 8.404 | 8.387 (0.521) | 58 | 50021 | 10.4181 | 10.418 | 80.00- 120.00 | 100.00 |
| 8.404 | 8.387 (0.521) | 43 | 264084 | | | 0.00- 30.00 | 527.95 |
| 10 Vinyl Chloride | | | | | CAS #: 75-01-4 | | |
| 8.543 | 8.526 (0.530) | 62 | 220520 | 10.0145 | 10.014 | 80.00- 120.00 | 100.00 |
| 8.543 | 8.526 (0.530) | 64 | 72582 | | | 1.37- 61.37 | 32.91 |
| 11 1,3-Butadiene | | | | | CAS #: 106-99-0 | | |
| 8.769 | 8.769 (0.544) | 54 | 139220 | 10.0592 | 10.059 | 80.00- 120.00 | 100.00 |
| 8.769 | 8.769 (0.544) | 39 | 127307 | | | 0.00- 30.00 | 91.44 |
| 12 Bromomethane | | | | | CAS #: 74-83-9 | | |
| 10.251 | 10.251 (0.636) | 94 | 198960 | 8.17182 | 8.172 | 80.00- 120.00 | 100.00 |
| 10.251 | 10.251 (0.636) | 96 | 180827 | | | 64.19- 124.19 | 90.89 |
| 13 Chloroethane | | | | | CAS #: 75-00-3 | | |
| 10.728 | 10.707 (0.665) | 64 | 114377 | 9.74810 | 9.748 | 80.00- 120.00 | 100.00 |
| 10.728 | 10.707 (0.665) | 49 | 23753 | | | 0.00- 30.00 | 20.77 |

| RT | EXP RT (REL RT) | MASS | RESPONSE | CONCENTRATIONS ON-COL ( PPBV) | FINAL ( PPBV) | TARGET RANGE | RATIO |
|---|---|---|---|---|---|---|---|
| 13 Chloroethane (continued) | | | | | | | |
| 10.728 | 10.707 (0.665) | 66 | 38710 | | | 0.00- 30.00 | 33.84 |
| 14 Isopentane | | | | | CAS #: 78-78-4 | | |
| 10.852 | 10.852 (0.673) | 57 | 141102 | 9.52129 | 9.521 | 80.00- 120.00 | 100.00 |
| 10.852 | 10.852 (0.673) | 43 | 155993 | | | 0.00- 30.00 | 110.55 |
| 10.852 | 10.852 (0.673) | 42 | 135249 | | | 0.00- 30.00 | 95.85 |
| 16 Trichlorofluoromethane/Fr11 | | | | | CAS #: 75-69-4 | | |
| 11.474 | 11.474 (0.711) | 101 | 949675 | 9.53966 | 9.540 | 80.00- 120.00 | 100.00 |
| 11.474 | 11.474 (0.711) | 103 | 619751 | | | 35.52- 95.52 | 65.26 |
| 18 Ethanol | | | | | CAS #: 64-17-5 | | |
| 12.324 | 12.303 (0.764) | 45 | 47351 | 9.11066 | 9.111 | 80.00- 120.00 | 100.00 |
| 12.324 | 12.303 (0.764) | 46 | 19797 | | | 0.00- 30.00 | 41.81 |
| 12.324 | 12.324 (0.764) | 43 | 14334 | | | 0.00- 30.00 | 30.27 |
| 21 1,1-Dichloroethene | | | | | CAS #: 75-35-4 | | |
| 12.821 | 12.821 (0.795) | 98 | 154111 | 10.7653 | 10.765 | 80.00- 120.00 | 100.00 |
| 12.821 | 12.801 (0.795) | 61 | 388313 | | | 0.00- 30.00 | 251.97 |
| 12.821 | 12.821 (0.795) | 96 | 239933 | | | 0.00- 30.00 | 155.69 |
| 19 Freon 113 | | | | | CAS #: 76-13-1 | | |
| 12.800 | 12.780 (0.794) | 151 | 415403 | 9.86786 | 9.868 | 80.00- 120.00 | 100.00 |
| 12.800 | 12.780 (0.794) | 153 | 262734 | | | 34.78- 94.78 | 63.25 |
| 12.780 | 12.780 (0.792) | 101 | 563823 | | | 0.00- 30.00 | 135.73 |
| 22 Acetone | | | | | CAS #: 67-64-1 | | |
| 13.070 | 13.070 (0.810) | 58 | 86119 | 9.43321 | 9.433 | 80.00- 120.00 | 100.00 |
| 13.070 | 13.070 (0.810) | 43 | 287797 | | | 0.00- 30.00 | 334.19 |
| 23 Carbon Disulfide | | | | | CAS #: 75-15-0 | | |
| 13.194 | 13.174 (0.818) | 76 | 694058 | 11.5544 | 11.554 | 80.00- 120.00 | 100.00 |
| 26 3-Chloroprene | | | | | CAS #: 107-05-1 | | |
| 13.588 | 13.588 (0.843) | 76 | 103440 | 11.6750 | 11.675 | 80.00- 120.00 | 100.00 |
| 13.588 | 13.588 (0.843) | 41 | 171936 | | | 0.00- 30.00 | 166.22 |
| 25 2-Propanol | | | | | CAS #: 67-63-0 | | |
| 13.360 | 13.360 (0.828) | 45 | 256555 | 10.3948 | 10.395 | 80.00- 120.00 | 100.00 |
| 13.360 | 13.360 (0.828) | 43 | 71693 | | | 0.00- 30.00 | 27.94 |
| 13.360 | 13.360 (0.828) | 59 | 12107 | | | 0.00- 30.00 | 4.72 |
| 29 Methylene Chloride | | | | | CAS #: 75-09-2 | | |
| 13.885 | 13.885 (0.861) | 84 | 82434 | 7.31513 | 7.315 | 80.00- 120.00 | 100.00 |
| 13.885 | 13.885 (0.861) | 49 | 65945 | | | 0.00- 30.00 | 80.00 |

| RT | EXP RT (REL RT) | MASS | RESPONSE | CONCENTRATIONS ON-COL ( PPBV) | FINAL ( PPBV) | TARGET RANGE | RATIO |
|---|---|---|---|---|---|---|---|
| 29 Methylene Chloride (continued) | | | | | | | |
| 13.885 | 13.885 (0.861) | 51 | 19314 | | | 0.00- 30.00 | 23.43 |
| 30 tert-butyl alcohol | | | | | CAS #: 75-65-0 | | |
| 14.242 | 14.023 (0.883) | 59 | 16157 | 0.69043 | 0.6904 | 80.00- 120.00 | 100.00 |
| 14.187 | 14.023 (0.880) | 41 | 120864 | | | 0.00- 30.00 | 748.06 |
| 14.187 | 14.023 (0.880) | 57 | 128075 | | | 0.00- 30.00 | 792.69 |
| 31 MTBE | | | | | CAS #: 1634-04-4 | | |
| 14.187 | 14.187 (0.880) | 73 | 784434 | 10.8061 | 10.806 | 80.00- 120.00 | 100.00 |
| 14.187 | 14.187 (0.880) | 57 | 128075 | | | 0.00- 30.00 | 16.33 |
| 14.187 | 14.187 (0.880) | 41 | 120864 | | | 0.00- 30.00 | 15.41 |
| 32 trans-1,2-Dichloroethene | | | | | CAS #: 156-60-5 | | |
| 14.242 | 14.242 (0.883) | 98 | 174372 | 11.3706 | 11.371 | 80.00- 120.00 | 100.00 |
| 14.242 | 14.242 (0.883) | 61 | 349266 | | | 0.00- 30.00 | 200.30 |
| 14.242 | 14.242 (0.883) | 96 | 263400 | | | 0.00- 30.00 | 151.06 |
| 35 Hexane | | | | | CAS #: 110-54-3 | | |
| 14.544 | 14.517 (0.902) | 57 | 275520 | 10.4677 | 10.468 | 80.00- 120.00 | 100.00 |
| 14.516 | 14.517 (0.900) | 43 | 142958 | | | 0.00- 30.00 | 51.89 |
| 14.544 | 14.544 (0.902) | 86 | 69225 | | | 0.00- 30.00 | 25.13 |
| 37 1,1-Dichloroethane | | | | | CAS #: 75-34-3 | | |
| 14.956 | 14.929 (0.927) | 63 | 424470 | 9.79290 | 9.793 | 80.00- 120.00 | 100.00 |
| 14.956 | 14.929 (0.927) | 65 | 139662 | | | 0.00- 30.00 | 32.90 |
| 38 Vinyl Acetate | | | | | CAS #: 108-05-4 | | |
| 14.956 | 14.956 (0.927) | 86 | 65899 | 10.2908 | 10.291 | 80.00- 120.00 | 100.00 |
| 14.956 | 14.956 (0.927) | 42 | 43539 | | | 0.00- 30.00 | 66.07 |
| 14.956 | 14.956 (0.927) | 43 | 408431 | | | 0.00- 30.00 | 619.78 |
| 41 cis-1,2-Dichloroethene | | | | | CAS #: 156-59-2 | | |
| 15.787 | 15.787 (0.979) | 98 | 247007 | 10.7129 | 10.713 | 80.00- 120.00 | 100.00 |
| 15.766 | 15.766 (0.978) | 61 | 467590 | | | 0.00- 30.00 | 189.30 |
| 15.787 | 15.787 (0.979) | 96 | 384263 | | | 123.56- 183.56 | 155.57 |
| 42 2-Butanone | | | | | CAS #: 78-93-3 | | |
| 15.766 | 15.766 (0.978) | 72 | 154807 | 9.35350 | 9.354 | 80.00- 120.00 | 100.00 |
| 15.766 | 15.766 (0.978) | 43 | 434423 | | | 0.00- 30.00 | 280.62 |
| 15.766 | 15.766 (0.978) | 57 | 44259 | | | 0.00- 30.00 | 28.59 |
| 44 Tetrahydrofuran | | | | | CAS #: 109-99-9 | | |
| 16.127 | 16.128 (1.000) | 42 | 157375 | 9.53808 | 9.538 | 80.00- 120.00 | 100.00 |
| 16.127 | 16.128 (1.000) | 71 | 110476 | | | 0.00- 30.00 | 70.20 |
| 16.127 | 16.128 (1.000) | 72 | 119216 | | | 0.00- 30.00 | 75.75 |

| RT | EXP RT (REL RT) | MASS | RESPONSE | CONCENTRATIONS ON-COL ( PPBV) | CONCENTRATIONS FINAL ( PPBV) | TARGET RANGE | RATIO |
|---|---|---|---|---|---|---|---|
| 47 Chloroform | | | | | CAS #: 67-66-3 | | |
| 16.189 | 16.189 (1.004) | 83 | 673119 | 10.1449 | 10.145 | 80.00- 120.00 | 100.00 |
| 16.189 | 16.189 (1.004) | 85 | 419509 | | | 0.00- 30.00 | 62.32 |
| 48 Cyclohexane | | | | | CAS #: 110-82-7 | | |
| 16.466 | 16.467 (1.021) | 84 | 370874 | 10.4684 | 10.468 | 80.00- 120.00 | 100.00 |
| 16.466 | 16.467 (1.021) | 56 | 300725 | | | 0.00- 30.00 | 81.09 |
| 16.466 | 16.467 (1.021) | 41 | 160146 | | | 0.00- 30.00 | 43.18 |
| 49 1,1,1-Trichloroethane | | | | | CAS #: 71-55-6 | | |
| 16.466 | 16.467 (1.021) | 97 | 780183 | 10.2900 | 10.290 | 80.00- 120.00 | 100.00 |
| 16.466 | 16.467 (1.021) | 99 | 503935 | | | 0.00- 30.00 | 64.59 |
| 51 Carbon Tetrachloride | | | | | CAS #: 56-23-5 | | |
| 16.651 | 16.652 (1.032) | 119 | 450299 | 7.93746 | 7.937 | 80.00- 120.00 | 100.00 |
| 16.651 | 16.652 (1.032) | 117 | 466336 | | | 0.00- 30.00 | 103.56 |
| 52 2,2,4-Trimethylpentane | | | | | CAS #: 540-84-1 | | |
| 16.925 | 16.926 (1.049) | 56 | 377710 | 9.30685 | 9.307 | 80.00- 120.00 | 100.00 |
| 16.925 | 16.926 (1.049) | 57 | 1213405 | | | 0.00- 30.00 | 321.25 |
| 16.925 | 16.926 (1.049) | 41 | 348066 | | | 0.00- 30.00 | 92.15 |
| 53 Benzene | | | | | CAS #: 71-43-2 | | |
| 17.013 | 17.013 (0.967) | 78 | 779290 | 9.45933 | 9.459 | 80.00- 120.00 | 100.00 |
| 17.013 | 17.013 (0.967) | 77 | 183580 | | | 0.00- 30.00 | 23.56 |
| 56 1,2-Dichloroethane | | | | | CAS #: 107-06-2 | | |
| 17.129 | 17.130 (0.974) | 62 | 449086 | 9.66709 | 9.667 | 80.00- 120.00 | 100.00 |
| 17.129 | 17.130 (0.974) | 64 | 148653 | | | 0.00- 30.00 | 33.10 |
| 57 Heptane | | | | | CAS #: 142-82-5 | | |
| 17.158 | 17.159 (0.976) | 57 | 181564 | 10.6627 | 10.663 | 80.00- 120.00 | 100.00 |
| 17.158 | 17.159 (0.976) | 100 | 110517 | | | 0.00- 30.00 | 60.87 |
| 17.158 | 17.159 (0.976) | 43 | 271037 | | | 0.00- 30.00 | 149.28 |
| 59 Trichloroethene | | | | | CAS #: 79-01-6 | | |
| 18.025 | 18.025 (1.025) | 130 | 322897 | 8.87451 | 8.874 | 80.00- 120.00 | 100.00 |
| 18.025 | 18.025 (1.025) | 95 | 378170 | | | 0.00- 30.00 | 117.12 |
| 18.025 | 18.025 (1.025) | 97 | 242929 | | | 0.00- 30.00 | 75.23 |
| 60 Methylcyclohexane | | | | | CAS #: 108-87-2 | | |
| 18.272 | 18.272 (1.039) | 83 | 485302 | 10.3252 | 10.325 | 80.00- 120.00 | 100.00 |
| 18.272 | 18.272 (1.039) | 55 | 295505 | | | 0.00- 30.00 | 60.89 |
| 18.272 | 18.272 (1.039) | 56 | 88586 | | | 0.00- 30.00 | 18.25 |
| 61 1,2-Dichloropropane | | | | | CAS #: 78-87-5 | | |
| 18.519 | 18.519 (1.053) | 63 | 239551 | 9.45758 | 9.458 | 80.00- 120.00 | 100.00 |

| RT | EXP RT (REL RT) | MASS | RESPONSE | CONCENTRATIONS ON-COL ( PPBV) | CONCENTRATIONS FINAL ( PPBV) | TARGET RANGE | RATIO |
|---|---|---|---|---|---|---|---|
| 61 1,2-Dichloropropane (continued) | | | | | | | |
| 18.519 | 18.519 (1.053) | 62 | 166338 | | | 0.00- 30.00 | 69.44 |
| 18.492 | 18.492 (1.052) | 41 | 147291 | | | 35.53- 95.53 | 61.49 |
| 62 1,4-Dioxane | | | | | CAS #: 123-91-1 | | |
| 18.629 | 18.629 (1.059) | 88 | 185531 | 10.2710 | 10.271 | 80.00- 120.00 | 100.00 |
| 18.629 | 18.629 (1.059) | 58 | 104383 | | | 0.00- 30.00 | 56.26 |
| 18.629 | 18.629 (1.059) | 57 | 33612 | | | 0.00- 30.00 | 18.12 |
| 63 Bromodichloromethane | | | | | CAS #: 75-27-4 | | |
| 18.958 | 18.959 (1.078) | 83 | 708830 | 10.0180 | 10.018 | 80.00- 120.00 | 100.00 |
| 18.958 | 18.959 (1.078) | 85 | 450724 | | | 0.00- 30.00 | 63.59 |
| 64 cis-1,3-Dichloropropene | | | | | CAS #: 10061-01-5 | | |
| 19.865 | 19.865 (1.130) | 75 | 454577 | 10.3706 | 10.371 | 80.00- 120.00 | 100.00 |
| 19.865 | 19.865 (1.130) | 77 | 138563 | | | 0.00- 30.00 | 30.48 |
| 19.865 | 19.865 (1.130) | 39 | 182251 | | | 12.78- 72.78 | 40.09 |
| 65 4-Methyl-2-pentanone | | | | | CAS #: 108-10-1 | | |
| 20.076 | 20.077 (1.142) | 43 | 370202 | 11.3079 | 11.308 | 80.00- 120.00 | 100.00 |
| 20.076 | 20.077 (1.142) | 58 | 172217 | | | 0.00- 30.00 | 46.52 |
| 20.076 | 20.077 (1.142) | 85 | 106444 | | | 0.00- 30.00 | 28.75 |
| 68 Toluene | | | | | CAS #: 108-88-3 | | |
| 20.524 | 20.525 (1.167) | 91 | 945830 | 9.62117 | 9.621 | 80.00- 120.00 | 100.00 |
| 20.524 | 20.525 (1.167) | 92 | 556655 | | | 0.00- 30.00 | 58.85 |
| 69 trans-1,3-Dichloropropene | | | | | CAS #: 10061-02-6 | | |
| 20.995 | 20.995 (0.916) | 75 | 677272 | 11.6321 | 11.632 | 80.00- 120.00 | 100.00 |
| 20.995 | 20.995 (0.916) | 77 | 209458 | | | 0.00- 30.00 | 30.93 |
| 20.995 | 20.995 (0.916) | 39 | 239021 | | | 0.00- 57.19 | 35.29 |
| 70 1,1,2-Trichloroethane | | | | | CAS #: 79-00-5 | | |
| 21.335 | 21.335 (0.931) | 97 | 342897 | 9.77513 | 9.775 | 80.00- 120.00 | 100.00 |
| 21.335 | 21.335 (0.931) | 99 | 214133 | | | 0.00- 30.00 | 62.45 |
| 21.335 | 21.335 (0.931) | 83 | 282310 | | | 54.96- 114.96 | 82.33 |
| 71 Tetrachloroethene | | | | | CAS #: 127-18-4 | | |
| 21.497 | 21.498 (0.938) | 166 | 403043 | 9.89833 | 9.898 | 80.00- 120.00 | 100.00 |
| 21.497 | 21.498 (0.938) | 129 | 349073 | | | 0.00- 30.00 | 86.61 |
| 21.497 | 21.498 (0.938) | 131 | 338089 | | | 0.00- 30.00 | 83.88 |
| 72 2-Hexanone | | | | | CAS #: 591-78-6 | | |
| 21.660 | 21.660 (0.945) | 58 | 240409 | 10.8288 | 10.829 | 80.00- 120.00 | 100.00 |
| 21.660 | 21.660 (0.945) | 43 | 369350 | | | 0.00- 30.00 | 153.63 |
| 21.660 | 21.660 (0.945) | 100 | 69247 | | | 0.00- 30.00 | 28.80 |

| RT | EXP RT (REL RT) | MASS | RESPONSE | CONCENTRATIONS ON-COL ( PPBV) | FINAL ( PPBV) | TARGET RANGE | RATIO |
|---|---|---|---|---|---|---|---|
| 73 Dibromochloromethane | | | | | CAS #: 124-48-1 | | |
| 22.017 | 22.018 (0.960) | 129 | 634618 | 10.6328 | 10.633 | 80.00- 120.00 | 100.00 |
| 22.017 | 22.018 (0.960) | 127 | 485996 | | | 0.00- 30.00 | 76.58 |
| 74 1,2-Dibromoethane | | | | | CAS #: 106-93-4 | | |
| 22.278 | 22.278 (0.972) | 107 | 557466 | 10.3608 | 10.361 | 80.00- 120.00 | 100.00 |
| 22.278 | 22.278 (0.972) | 109 | 500351 | | | 0.00- 30.00 | 89.75 |
| 76 Chlorobenzene | | | | | CAS #: 108-90-7 | | |
| 22.951 | 22.951 (1.001) | 112 | 751862 | 9.71653 | 9.716 | 80.00- 120.00 | 100.00 |
| 22.951 | 22.951 (1.001) | 114 | 242217 | | | 0.00- 30.00 | 32.22 |
| 22.951 | 22.951 (1.001) | 77 | 504809 | | | 37.15- 97.15 | 67.14 |
| 77 Ethyl Benzene | | | | | CAS #: 100-41-4 | | |
| 23.023 | 23.023 (1.004) | 106 | 388525 | 10.2770 | 10.277 | 80.00- 120.00 | 100.00 |
| 23.023 | 23.023 (1.004) | 91 | 1350135 | | | 0.00- 30.00 | 347.50 |
| 80 m,p-Xylene | | | | | CAS #: 108-38-3 | | |
| 23.192 | 23.192 (1.012) | 106 | 489204 | 10.7546 | 10.755 | 80.00- 120.00 | 100.00 |
| 23.192 | 23.192 (1.012) | 91 | 1098330 | | | 0.00- 30.00 | 224.51 |
| 81 o-Xylene | | | | | CAS #: 95-47-6 | | |
| 23.770 | 23.770 (1.037) | 106 | 473749 | 10.8334 | 10.833 | 80.00- 120.00 | 100.00 |
| 23.770 | 23.770 (1.037) | 91 | 1130135 | | | 0.00- 30.00 | 238.55 |
| 83 Styrene | | | | | CAS #: 100-42-5 | | |
| 23.794 | 23.818 (1.038) | 104 | 715102 | 10.8330 | 10.833 | 80.00- 120.00 | 100.00 |
| 23.794 | 23.794 (1.038) | 78 | 438654 | | | 0.00- 30.00 | 61.34 |
| 84 Bromoform | | | | | CAS #: 75-25-2 | | |
| 24.131 | 24.132 (1.053) | 173 | 548218 | 10.6244 | 10.624 | 80.00- 120.00 | 100.00 |
| 24.131 | 24.132 (1.053) | 171 | 283316 | | | 0.00- 30.00 | 51.68 |
| 85 Cumene | | | | | CAS #: 98-82-8 | | |
| 24.228 | 24.228 (1.057) | 105 | 1569826 | 11.0869 | 11.087 | 80.00- 120.00 | 100.00 |
| 24.228 | 24.228 (1.057) | 120 | 371917 | | | 0.00- 30.00 | 23.69 |
| 89 1,1,2,2-Tetrachloroethane | | | | | CAS #: 79-34-5 | | |
| 24.680 | 24.680 (1.076) | 83 | 753442 | 10.2960 | 10.296 | 80.00- 120.00 | 100.00 |
| 24.680 | 24.680 (1.076) | 85 | 475043 | | | 0.00- 30.00 | 63.05 |
| 90 Propylbenzene | | | | | CAS #: 103-65-1 | | |
| 24.757 | 24.758 (1.080) | 91 | 1917332 | 10.5716 | 10.572 | 80.00- 120.00 | 100.00 |
| 24.757 | 24.758 (1.080) | 120 | 393342 | | | 0.00- 30.00 | 20.52 |
| 92 4-Ethyltoluene | | | | | CAS #: 622-96-8 | | |
| 24.886 | 24.887 (1.085) | 105 | 1617197 | 10.3843 | 10.384 | 80.00- 120.00 | 100.00 |

| RT | EXP RT (REL RT) | MASS | RESPONSE | CONCENTRATIONS ON-COL ( PPBV) | FINAL ( PPBV) | TARGET RANGE | RATIO |
|---|---|---|---|---|---|---|---|
| 92 4-Ethyltoluene (continued) | | | | | | | |
| 24.886 | 24.887 (1.085) | 120 | 434104 | | | 0.00- 30.00 | 26.84 |
| 94 1,3,5-Trimethylbenzene | | | | | CAS #: 108-67-8 | | |
| 24.938 | 24.938 (1.088) | 105 | 1429182 | 10.6617 | 10.662 | 80.00- 120.00 | 100.00 |
| 24.938 | 24.964 (1.088) | 120 | 609819 | | | 0.00- 30.00 | 42.67 |
| 98 1,2,4-Trimethylbenzene | | | | | CAS #: 95-63-6 | | |
| 25.410 | 25.410 (1.108) | 105 | 1314803 | 11.1418 | 11.142 | 80.00- 120.00 | 100.00 |
| 25.410 | 25.410 (1.108) | 120 | 524781 | | | 0.00- 30.00 | 39.91 |
| 101 1,3-Dichlorobenzene | | | | | CAS #: 541-73-1 | | |
| 25.791 | 25.791 (1.125) | 146 | 757974 | 10.1328 | 10.133 | 80.00- 120.00 | 100.00 |
| 25.791 | 25.791 (1.125) | 148 | 487230 | | | 0.00- 30.00 | 64.28 |
| 25.791 | 25.791 (1.125) | 111 | 367343 | | | 0.00- 30.00 | 48.46 |
| 104 1,4-Dichlorobenzene | | | | | CAS #: 106-46-7 | | |
| 25.903 | 25.903 (1.130) | 146 | 742684 | 9.92272 | 9.923 | 80.00- 120.00 | 100.00 |
| 25.903 | 25.903 (1.130) | 148 | 472677 | | | 0.00- 30.00 | 63.64 |
| 25.903 | 25.903 (1.130) | 111 | 347609 | | | 0.00- 30.00 | 46.80 |
| 105 alpha-chlorotoluene | | | | | CAS #: 100-44-7 | | |
| 26.060 | 26.060 (1.137) | 91 | 1203417 | 10.5559 | 10.556 | 80.00- 120.00 | 100.00 |
| 26.060 | 26.060 (1.137) | 126 | 204357 | | | 0.00- 30.00 | 16.98 |
| 108 1,2-Dichlorobenzene | | | | | CAS #: 95-50-1 | | |
| 26.352 | 26.352 (1.149) | 146 | 703249 | 9.90949 | 9.909 | 80.00- 120.00 | 100.00 |
| 26.352 | 26.352 (1.149) | 148 | 449006 | | | 33.72- 93.72 | 63.85 |
| 26.352 | 26.352 (1.149) | 111 | 357568 | | | 20.80- 80.80 | 50.85 |
| 112 1,2,4-Trichlorobenzene | | | | | CAS #: 120-82-1 | | |
| 28.145 | 28.145 (1.228) | 180 | 496062 | 10.6938 | 10.694 | 80.00- 120.00 | 100.00 |
| 28.145 | 28.145 (1.228) | 182 | 468505 | | | 0.00- 30.00 | 94.44 |
| 113 Hexachlorobutadiene | | | | | CAS #: 87-68-3 | | |
| 28.235 | 28.235 (1.232) | 225 | 418823 | 10.1054 | 10.105 | 80.00- 120.00 | 100.00 |
| 28.235 | 28.235 (1.232) | 223 | 264441 | | | 0.00- 30.00 | 63.14 |
| 114 Naphthalene | | | | | CAS #: 91-20-3 | | |
| 28.504 | 28.504 (1.243) | 128 | 78011 | 0.78981 | 0.7898 | 80.00- 120.00 | 100.00 |
| 28.504 | 28.504 (1.243) | 127 | 10182 | | | 0.00- 30.00 | 13.05 |

Air Toxics Ltd.

EPA TO-15/Modified TO14A

Data file : /chem/msde.i/13Mar2012.b/e031304.d
Lab Smp Id: LCSD Client Smp ID: LCSD
Inj Date : 13-MAR-2012 10:56
Operator : ll Inst ID: msde.i
Smp Info : 50mL #2370-221; LCSD;LCSD
Misc Info : 10ppbv (50ppbv)
Comment : Low-Level/GC-MS
Method : /chem/msde.i/13Mar2012.b/e12l0308b.m
Meth Date : 13-Mar-2012 09:40 llarson Quant Type: ISTD
Cal Date : 10-MAR-2012 19:22 Cal File: e031014.d
Als bottle: 8 QC Sample: LCSD
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AT09.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

- NO TENTATIVELY IDENTIFIED COMPOUNDS -

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msde.i
Lab File ID: e031304.d
Lab Smp Id: LCSD
Analysis Type: VOA
Quant Type: ISTD
Operator: ll
Method File: /chem/msde.i/13Mar2012.b/e12l0308b.m
Misc Info: 10ppbv (50ppbv)

Calibration Date: 13-MAR-2012
Calibration Time: 09:39
Client Smp ID: LCSD
Level: LOW
Sample Type: AIR

| | | AREA LIMIT | | | |
|---|---|---|---|---|---|
| COMPOUND | STANDARD | LOWER | UPPER | SAMPLE | %DIFF |
| 46 Bromochloromethan | 78956 | 47374 | 110538 | 80779 | 2.31 |
| 58 1,4-Difluorobenze | 299545 | 179727 | 419363 | 321158 | 7.22 |
| 75 Chlorobenzene-d5 | 258990 | 155394 | 362586 | 271511 | 4.83 |

| | | RT LIMIT | | | |
|---|---|---|---|---|---|
| COMPOUND | STANDARD | LOWER | UPPER | SAMPLE | %DIFF |
| 46 Bromochloromethan | 16.13 | 15.80 | 16.46 | 16.13 | 0.00 |
| 58 1,4-Difluorobenze | 17.59 | 17.26 | 17.92 | 17.59 | 0.00 |
| 75 Chlorobenzene-d5 | 22.93 | 22.60 | 23.26 | 22.93 | 0.00 |

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

ùR-

Data File: /chem/msde.i/13Mar2012.b/e031304.d



Date : 13-MAR-2012 10:56

Client ID: LCSD

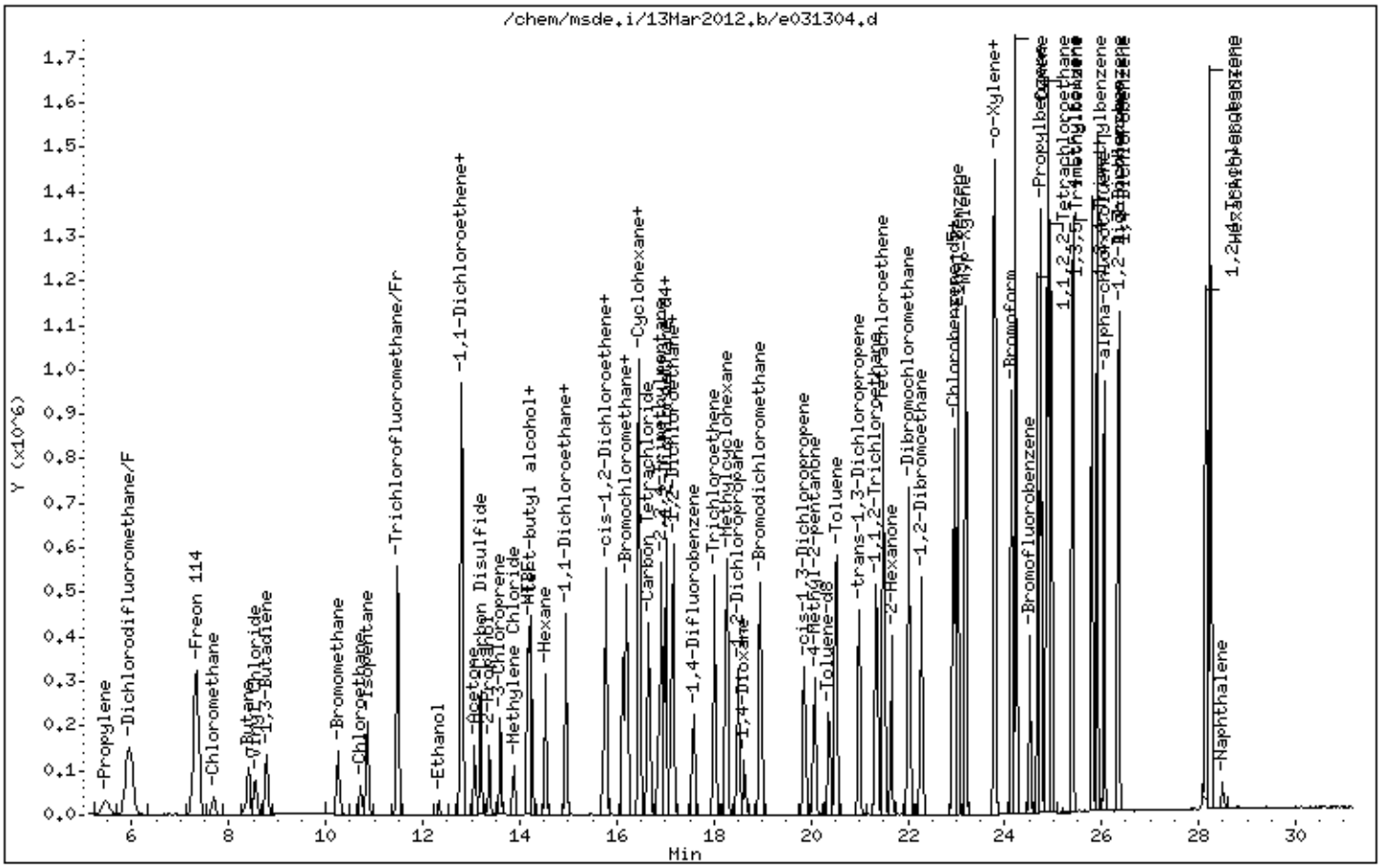
Instrument: msde.i

Sample Info: 50mL #2370-221; LCSD;LCSD

Operator: ll

Column phase: RTx-624

Column diameter: 0.32



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**Client Sample ID: LCS**

**Lab ID#: 1202444-06B**

**MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN**

| | | | |
|---|---|---|---|
| **File Name:** | **e031403** | **Date of Collection: NA** | |
| **Dil. Factor:** | **1.00** | **Date of Analysis: 3/14/12 08:56 AM** | |

| Compound | %Recovery |
|---|---|
| Freon 12 | 92 |
| Freon 114 | 93 |
| Chloromethane | 94 |
| Vinyl Chloride | 95 |
| 1,3-Butadiene | 94 |
| Bromomethane | 80 |
| Chloroethane | 91 |
| Freon 11 | 89 |
| Ethanol | 89 |
| Freon 113 | 93 |
| 1,1-Dichloroethene | 104 |
| Acetone | 91 |
| 2-Propanol | 100 |
| Carbon Disulfide | 108 |
| 3-Chloropropene | 112 |
| Methylene Chloride | 70 |
| Methyl tert-butyl ether | 104 |
| trans-1,2-Dichloroethene | 107 |
| Hexane | 102 |
| 1,1-Dichloroethane | 93 |
| 2-Butanone (Methyl Ethyl Ketone) | 99 |
| cis-1,2-Dichloroethene | 103 |
| Tetrahydrofuran | 92 |
| Chloroform | 94 |
| 1,1,1-Trichloroethane | 96 |
| Cyclohexane | 101 |
| Carbon Tetrachloride | 71 |
| 2,2,4-Trimethylpentane | 90 |
| Benzene | 90 |
| 1,2-Dichloroethane | 90 |
| Heptane | 99 |
| Trichloroethene | 88 |
| 1,2-Dichloropropane | 90 |
| 1,4-Dioxane | 100 |
| Bromodichloromethane | 92 |
| cis-1,3-Dichloropropene | 101 |
| 4-Methyl-2-pentanone | 109 |
| Toluene | 92 |
| trans-1,3-Dichloropropene | 111 |
| 1,1,2-Trichloroethane | 93 |
| Tetrachloroethene | 96 |
| 2-Hexanone | 103 |

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**Client Sample ID: LCS**

**Lab ID#: 1202444-06B**

**MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN**

| | | | |
|---|---|---|---|
| **File Name:** | **e031403** | **Date of Collection: NA** | |
| **Dil. Factor:** | **1.00** | **Date of Analysis: 3/14/12 08:56 AM** | |

| Compound | %Recovery |
|---|---|
| Dibromochloromethane | 102 |
| 1,2-Dibromoethane (EDB) | 99 |
| Chlorobenzene | 92 |
| Ethyl Benzene | 98 |
| m,p-Xylene | 101 |
| o-Xylene | 102 |
| Styrene | 102 |
| Bromoform | 103 |
| Cumene | 104 |
| 1,1,2,2-Tetrachloroethane | 98 |
| Propylbenzene | 100 |
| 4-Ethyltoluene | 98 |
| 1,3,5-Trimethylbenzene | 101 |
| 1,2,4-Trimethylbenzene | 106 |
| 1,3-Dichlorobenzene | 96 |
| 1,4-Dichlorobenzene | 95 |
| alpha-Chlorotoluene | 98 |
| 1,2-Dichlorobenzene | 95 |
| 1,2,4-Trichlorobenzene | 110 |
| Hexachlorobutadiene | 105 |
| 2,3-Dimethylpentane | Not Spiked |
| 2-Methylpentane | Not Spiked |
| Indene | Not Spiked |
| Indan | Not Spiked |
| Isopentane | 92 |
| Naphthalene | 84 |
| Thiophene | Not Spiked |

**Container Type: NA - Not Applicable**

| Surrogates | %Recovery | Method Limits |
|---|---|---|
| 1,2-Dichloroethane-d4 | 97 | 70-130 |
| Toluene-d8 | 100 | 70-130 |
| 4-Bromofluorobenzene | 101 | 70-130 |

Report Date: 14-Mar-2012 09:49

Air Toxics Ltd.

RECOVERY REPORT

Client Name: Client SDG: 14Mar2012
Sample Matrix: GAS Fraction: VOA
Lab Smp Id: LCS Client Smp ID: LCS
Level: LOW Operator: LL
Data Type: MS DATA SampleType: LCS
SpikeList File: AT09.spk Quant Type: ISTD
Sublist File: AT09.sub
Method File: /chem/msde.i/14Mar2012.b/e12l0308b.m
Misc Info: 10ppbv (50ppbv)

| SPIKE COMPOUND | CONC ADDED PPBV | CONC RECOVERED PPBV | % RECOVERED | LIMITS |
|---|---|---|---|---|
| 4 Dichlorodifluorome | 10.000 | 9.229 | 92.29 | 70-130 |
| 2 Propylene | 10.000 | 7.976 | 79.77 | 60-140 |
| 6 Freon 114 | 10.000 | 9.334 | 93.34 | 70-130 |
| 7 Chloromethane | 10.000 | 9.372 | 93.72 | 70-130 |
| 10 Vinyl Chloride | 10.000 | 9.509 | 95.09 | 70-130 |
| 11 1,3-Butadiene | 10.000 | 9.412 | 94.13 | 60-140 |
| 12 Bromomethane | 10.000 | 7.950 | 79.50 | 70-130 |
| 13 Chloroethane | 10.000 | 9.110 | 91.10 | 70-130 |
| 16 Trichlorofluoromet | 10.000 | 8.900 | 89.00 | 70-130 |
| 18 Ethanol | 10.000 | 8.922 | 89.22 | 60-140 |
| 19 Freon 113 | 10.000 | 9.275 | 92.75 | 70-130 |
| 21 1,1-Dichloroethene | 10.000 | 10.400 | 104.00 | 70-130 |
| 22 Acetone | 10.000 | 9.078 | 90.78 | 60-140 |
| 23 Carbon Disulfide | 10.000 | 10.852 | 108.52 | 60-140 |
| 25 2-Propanol | 10.000 | 10.057 | 100.57 | 60-140 |
| 26 3-Chloroprene | 10.000 | 11.232 | 112.32 | 60-140 |
| 29 Methylene Chloride | 10.000 | 7.010 | 70.10 | 70-130 |
| 31 MTBE | 10.000 | 10.389 | 103.89 | 60-140 |
| 32 trans-1,2-Dichloro | 10.000 | 10.672 | 106.72 | 60-140 |
| 35 Hexane | 10.000 | 10.226 | 102.26 | 60-140 |
| 37 1,1-Dichloroethane | 10.000 | 9.336 | 93.36 | 70-130 |
| 38 Vinyl Acetate | 10.000 | 10.120 | 101.20 | 60-140 |
| 41 cis-1,2-Dichloroet | 10.000 | 10.305 | 103.05 | 70-130 |
| 42 2-Butanone | 10.000 | 9.928 | 99.28 | 60-140 |
| 44 Tetrahydrofuran | 10.000 | 9.252 | 92.52 | 60-140 |
| 47 Chloroform | 10.000 | 9.432 | 94.32 | 70-130 |
| 48 Cyclohexane | 10.000 | 10.083 | 100.83 | 60-140 |
| 49 1,1,1-Trichloroeth | 10.000 | 9.637 | 96.37 | 70-130 |
| 51 Carbon Tetrachlori | 10.000 | 7.080 | 70.80 | 70-130 |
| 52 2,2,4-Trimethylpen | 10.000 | 8.997 | 89.97 | 60-140 |
| 53 Benzene | 10.000 | 8.985 | 89.85 | 70-130 |
| 57 Heptane | 10.000 | 9.932 | 99.32 | 60-140 |
| 56 1,2-Dichloroethane | 10.000 | 8.988 | 89.88 | 70-130 |

| SPIKE COMPOUND | CONC ADDED PPBV | CONC RECOVERED PPBV | % RECOVERED | LIMITS |
|---|---|---|---|---|
| 59 Trichloroethene | 10.000 | 8.805 | 88.05 | 70-130 |
| 61 1,2-Dichloropropan | 10.000 | 9.008 | 90.08 | 70-130 |
| 62 1,4-Dioxane | 10.000 | 10.043 | 100.43 | 60-140 |
| 63 Bromodichlorometha | 10.000 | 9.243 | 92.43 | 60-140 |
| 64 cis-1,3-Dichloropr | 10.000 | 10.077 | 100.77 | 70-130 |
| 65 4-Methyl-2-pentano | 10.000 | 10.868 | 108.68 | 60-140 |
| 68 Toluene | 10.000 | 9.215 | 92.15 | 70-130 |
| 69 trans-1,3-Dichloro | 10.000 | 11.115 | 111.15 | 70-130 |
| 70 1,1,2-Trichloroeth | 10.000 | 9.271 | 92.71 | 70-130 |
| 72 2-Hexanone | 10.000 | 10.282 | 102.82 | 60-140 |
| 71 Tetrachloroethene | 10.000 | 9.616 | 96.16 | 70-130 |
| 73 Dibromochlorometha | 10.000 | 10.159 | 101.59 | 60-140 |
| 74 1,2-Dibromoethane | 10.000 | 9.900 | 99.01 | 70-130 |
| 76 Chlorobenzene | 10.000 | 9.255 | 92.55 | 70-130 |
| 77 Ethyl Benzene | 10.000 | 9.755 | 97.55 | 70-130 |
| 80 m,p-Xylene | 10.000 | 10.146 | 101.46 | 70-130 |
| 81 o-Xylene | 10.000 | 10.230 | 102.30 | 70-130 |
| 83 Styrene | 10.000 | 10.232 | 102.32 | 70-130 |
| 84 Bromoform | 10.000 | 10.282 | 102.82 | 60-140 |
| 85 Cumene | 10.000 | 10.399 | 103.99 | 60-140 |
| 89 1,1,2,2-Tetrachlor | 10.000 | 9.758 | 97.58 | 70-130 |
| 90 Propylbenzene | 10.000 | 10.014 | 100.14 | 70-130 |
| 92 4-Ethyltoluene | 10.000 | 9.835 | 98.35 | 60-140 |
| 94 1,3,5-Trimethylben | 10.000 | 10.092 | 100.92 | 70-130 |
| 98 1,2,4-Trimethylben | 10.000 | 10.551 | 105.51 | 70-130 |
| 101 1,3-Dichlorobenzen | 10.000 | 9.645 | 96.45 | 70-130 |
| 104 1,4-Dichlorobenzen | 10.000 | 9.493 | 94.93 | 70-130 |
| 105 alpha-chlorotoluen | 10.000 | 9.858 | 98.58 | 70-130 |
| 108 1,2-Dichlorobenzen | 10.000 | 9.493 | 94.93 | 70-130 |
| 112 1,2,4-Trichloroben | 10.000 | 10.979 | 109.79 | 70-130 |
| 113 Hexachlorobutadien | 10.000 | 10.536 | 105.37 | 70-130 |
| 114 Naphthalene | 1.000 | 0.8358 | 83.58 | 60-140 |
| 14 Isopentane | 10.000 | 9.209 | 92.09 | 60-140 |
| 9 Butane | 10.000 | 10.406 | 104.06 | 60-140 |
| 60 Methylcyclohexane | 10.000 | 9.992 | 99.92 | 60-140 |

| SURROGATE COMPOUND | CONC ADDED PPBV | CONC RECOVERED PPBV | % RECOVERED | LIMITS |
|---|---|---|---|---|
| $ 54 1,2-Dichloroethane | 5.000 | 4.860 | 97.19 | 70-130 |
| $ 67 Toluene-d8 | 5.000 | 5.002 | 100.03 | 70-130 |
| $ 87 Bromofluorobenzene | 5.000 | 5.038 | 100.77 | 70-130 |

Air Toxics Ltd.

EPA TO-15/Modified TO14A

Data file : /chem/msde.i/14Mar2012.b/e031403.d
Lab Smp Id: LCS Client Smp ID: LCS
Inj Date : 14-MAR-2012 08:56
Operator : LL Inst ID: msde.i
Smp Info : 50mL #2370-221; LCS;LCS
Misc Info : 10ppbv (50ppbv)
Comment : Low-Level/GC-MS
Method : /chem/msde.i/14Mar2012.b/e12l0308b.m
Meth Date : 14-Mar-2012 09:45 llarson Quant Type: ISTD
Cal Date : 10-MAR-2012 19:22 Cal File: e031014.d
Als bottle: 8 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AT09.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

| Name | Value | Description |
|---|---|---|
| DF | 1.00000 | Dilution Factor |

| | | | | CONCENTRATIONS ON-COL | FINAL | | |
|---|---|---|---|---|---|---|---|
| RT | EXP RT (REL RT) | MASS | RESPONSE | ( PPBV) | ( PPBV) | TARGET RANGE | RATIO |
| * 46 Bromochloromethane | | | | | CAS #: 74-97-5 | | |
| 16.128 | 16.128 (1.000) | 130 | 89660 | 5.00000 | | 80.00- 120.00 | 100.00 |
| 16.128 | 16.128 (1.000) | 128 | 67331 | | | 0.00- 30.00 | 75.10 |
| 16.128 | 16.128 (1.000) | 49 | 124919 | | | 0.00- 30.00 | 139.33 |
| * 58 1,4-Difluorobenzene | | | | | CAS #: 540-36-3 | | |
| 17.586 | 17.586 (1.000) | 114 | 356986 | 5.00000 | | 80.00- 120.00 | 100.00 |
| 17.586 | 17.586 (1.000) | 88 | 64871 | | | 0.00- 30.00 | 18.17 |
| * 75 Chlorobenzene-d5 | | | | | CAS #: 3114-55-4 | | |
| 22.927 | 22.927 (1.000) | 117 | 301188 | 5.00000 | | 80.00- 120.00 | 100.00 |
| 22.927 | 22.927 (1.000) | 82 | 195886 | | | 0.00- 30.00 | 65.04 |
| $ 54 1,2-Dichloroethane-d4 | | | | | CAS #: 17060-07-0 | | |
| 17.013 | 17.013 (1.055) | 65 | 162367 | 4.85954 | 4.860 | 80.00- 120.00 | 100.00 |
| 17.013 | 17.013 (1.055) | 67 | 80041 | | | 0.00- 30.00 | 49.30 |

| RT | EXP RT (REL RT) | MASS | RESPONSE | CONCENTRATIONS ON-COL ( PPBV) | CONCENTRATIONS FINAL ( PPBV) | TARGET RANGE | RATIO |
|---|---|---|---|---|---|---|---|
| $ 67 Toluene-d8 | | | | | CAS #: 2037-26-5 | | |
| 20.368 | 20.368 (1.158) | 98 | 359645 | 5.00165 | 5.002 | 80.00- 120.00 | 100.00 |
| 20.368 | 20.368 (1.158) | 70 | 43774 | | | 0.00- 30.00 | 12.17 |
| 20.368 | 20.368 (1.158) | 100 | 229980 | | | 35.01- 95.01 | 63.95 |
| $ 87 Bromofluorobenzene | | | | | CAS #: 460-00-4 | | |
| 24.526 | 24.526 (1.070) | 174 | 173603 | 5.03858 | 5.038 | 80.00- 120.00 | 100.00 |
| 24.526 | 24.526 (1.070) | 95 | 267259 | | | 125.48- 185.48 | 153.95 |
| 24.526 | 24.526 (1.070) | 176 | 168137 | | | 67.99- 127.99 | 96.85 |
| 2 Propylene | | | | | CAS #: 115-07-1 | | |
| 5.449 | 5.449 (0.338) | 41 | 114001 | 7.97655 | 7.976 | 80.00- 120.00 | 100.00 |
| 5.449 | 5.473 (0.338) | 42 | 72675 | | | 0.00- 30.00 | 63.75 |
| 5.473 | 5.449 (0.339) | 39 | 97655 | | | 0.00- 30.00 | 85.66 |
| 4 Dichlorodifluoromethane/Fr12 | | | | | CAS #: 75-71-8 | | |
| 5.931 | 5.931 (0.368) | 85 | 966994 | 9.22921 | 9.229 | 80.00- 120.00 | 100.00 |
| 5.955 | 5.931 (0.369) | 87 | 314851 | | | 2.11- 62.11 | 32.56 |
| 6 Freon 114 | | | | | CAS #: 76-14-2 | | |
| 7.329 | 7.329 (0.454) | 135 | 508798 | 9.33354 | 9.334 | 80.00- 120.00 | 100.00 |
| 7.329 | 7.329 (0.454) | 137 | 164372 | | | 0.00- 30.00 | 32.31 |
| 7 Chloromethane | | | | | CAS #: 74-87-3 | | |
| 7.691 | 7.691 (0.477) | 50 | 145132 | 9.37231 | 9.372 | 80.00- 120.00 | 100.00 |
| 7.691 | 7.691 (0.477) | 52 | 48363 | | | 0.00- 30.00 | 33.32 |
| 9 Butane | | | | | CAS #: 106-97-8 | | |
| 8.387 | 8.387 (0.520) | 58 | 55457 | 10.4062 | 10.406 | 80.00- 120.00 | 100.00 |
| 8.387 | 8.404 (0.520) | 43 | 277431 | | | 0.00- 30.00 | 500.26 |
| 10 Vinyl Chloride | | | | | CAS #: 75-01-4 | | |
| 8.543 | 8.543 (0.530) | 62 | 232415 | 9.50919 | 9.509 | 80.00- 120.00 | 100.00 |
| 8.543 | 8.543 (0.530) | 64 | 75367 | | | 1.46- 61.46 | 32.43 |
| 11 1,3-Butadiene | | | | | CAS #: 106-99-0 | | |
| 8.769 | 8.769 (0.544) | 54 | 144592 | 9.41252 | 9.412 | 80.00- 120.00 | 100.00 |
| 8.769 | 8.769 (0.544) | 39 | 133761 | | | 0.00- 30.00 | 92.51 |
| 12 Bromomethane | | | | | CAS #: 74-83-9 | | |
| 10.251 | 10.251 (0.636) | 94 | 214853 | 7.95049 | 7.950 | 80.00- 120.00 | 100.00 |
| 10.251 | 10.251 (0.636) | 96 | 204512 | | | 58.77- 118.77 | 95.19 |
| 13 Chloroethane | | | | | CAS #: 75-00-3 | | |
| 10.728 | 10.728 (0.665) | 64 | 118643 | 9.11010 | 9.110 | 80.00- 120.00 | 100.00 |
| 10.728 | 10.707 (0.665) | 49 | 26722 | | | 0.00- 30.00 | 22.52 |

| RT | EXP RT (REL RT) | MASS | RESPONSE | CONCENTRATIONS ON-COL ( PPBV) | FINAL ( PPBV) | TARGET RANGE | RATIO |
|---|---|---|---|---|---|---|---|
| 13 Chloroethane (continued) | | | | | | | |
| 10.728 | 10.728 (0.665) | 66 | 40847 | | | 0.00- 30.00 | 34.43 |
| 14 Isopentane | | | | | CAS #: 78-78-4 | | |
| 10.852 | 10.852 (0.673) | 57 | 151476 | 9.20887 | 9.209 | 80.00- 120.00 | 100.00 |
| 10.852 | 10.852 (0.673) | 43 | 166226 | | | 0.00- 30.00 | 109.74 |
| 10.852 | 10.852 (0.673) | 42 | 140503 | | | 0.00- 30.00 | 92.76 |
| 16 Trichlorofluoromethane/Fr11 | | | | | CAS #: 75-69-4 | | |
| 11.474 | 11.474 (0.711) | 101 | 983430 | 8.90023 | 8.900 | 80.00- 120.00 | 100.00 |
| 11.474 | 11.474 (0.711) | 103 | 642741 | | | 35.40- 95.40 | 65.36 |
| 18 Ethanol | | | | | CAS #: 64-17-5 | | |
| 12.324 | 12.324 (0.764) | 45 | 51471 | 8.92243 | 8.922 | 80.00- 120.00 | 100.00 |
| 12.324 | 12.324 (0.764) | 46 | 19333 | | | 0.00- 30.00 | 37.56 |
| 12.324 | 12.324 (0.764) | 43 | 14115 | | | 0.00- 30.00 | 27.42 |
| 21 1,1-Dichloroethene | | | | | CAS #: 75-35-4 | | |
| 12.821 | 12.821 (0.795) | 98 | 165249 | 10.3999 | 10.400 | 80.00- 120.00 | 100.00 |
| 12.821 | 12.821 (0.795) | 61 | 409785 | | | 0.00- 30.00 | 247.98 |
| 12.821 | 12.821 (0.795) | 96 | 253294 | | | 0.00- 30.00 | 153.28 |
| 19 Freon 113 | | | | | CAS #: 76-13-1 | | |
| 12.801 | 12.780 (0.794) | 151 | 433374 | 9.27504 | 9.275 | 80.00- 120.00 | 100.00 |
| 12.780 | 12.780 (0.792) | 153 | 284032 | | | 33.56- 93.56 | 65.54 |
| 12.780 | 12.780 (0.792) | 101 | 591266 | | | 0.00- 30.00 | 136.43 |
| 22 Acetone | | | | | CAS #: 67-64-1 | | |
| 13.070 | 13.070 (0.810) | 58 | 91987 | 9.07793 | 9.078 | 80.00- 120.00 | 100.00 |
| 13.070 | 13.070 (0.810) | 43 | 296118 | | | 0.00- 30.00 | 321.91 |
| 23 Carbon Disulfide | | | | | CAS #: 75-15-0 | | |
| 13.194 | 13.194 (0.818) | 76 | 723555 | 10.8523 | 10.852 | 80.00- 120.00 | 100.00 |
| 26 3-Chloroprene | | | | | CAS #: 107-05-1 | | |
| 13.588 | 13.588 (0.843) | 76 | 110457 | 11.2321 | 11.232 | 80.00- 120.00 | 100.00 |
| 13.588 | 13.588 (0.843) | 41 | 183501 | | | 0.00- 30.00 | 166.13 |
| 25 2-Propanol | | | | | CAS #: 67-63-0 | | |
| 13.360 | 13.360 (0.828) | 45 | 275507 | 10.0570 | 10.057 | 80.00- 120.00 | 100.00 |
| 13.360 | 13.360 (0.828) | 43 | 67562 | | | 0.00- 30.00 | 24.52 |
| 13.360 | 13.360 (0.828) | 59 | 12289 | | | 0.00- 30.00 | 4.46 |
| 29 Methylene Chloride | | | | | CAS #: 75-09-2 | | |
| 13.885 | 13.885 (0.861) | 84 | 87679 | 7.00989 | 7.010 | 80.00- 120.00 | 100.00 |
| 13.885 | 13.885 (0.861) | 49 | 64426 | | | 0.00- 30.00 | 73.48 |

| RT | EXP RT (REL RT) | MASS | RESPONSE | CONCENTRATIONS ON-COL ( PPBV) | FINAL ( PPBV) | TARGET RANGE | RATIO |
|---|---|---|---|---|---|---|---|
| 29 Methylene Chloride (continued) | | | | | | | |
| 13.885 | 13.885 (0.861) | 51 | 21461 | | | 0.00- 30.00 | 24.48 |
| 30 tert-butyl alcohol | | | | | CAS #: 75-65-0 | | |
| 14.242 | 14.023 (0.883) | 59 | 16813 | 0.64730 | 0.6473 | 80.00- 120.00 | 100.00 |
| 14.187 | 14.023 (0.880) | 41 | 125625 | | | 0.00- 30.00 | 747.19 |
| 14.187 | 14.023 (0.880) | 57 | 136952 | | | 0.00- 30.00 | 814.56 |
| 31 MTBE | | | | | CAS #: 1634-04-4 | | |
| 14.187 | 14.187 (0.880) | 73 | 837041 | 10.3887 | 10.389 | 80.00- 120.00 | 100.00 |
| 14.187 | 14.187 (0.880) | 57 | 136952 | | | 0.00- 30.00 | 16.36 |
| 14.187 | 14.187 (0.880) | 41 | 126053 | | | 0.00- 30.00 | 15.06 |
| 32 trans-1,2-Dichloroethene | | | | | CAS #: 156-60-5 | | |
| 14.242 | 14.242 (0.883) | 98 | 181644 | 10.6716 | 10.672 | 80.00- 120.00 | 100.00 |
| 14.242 | 14.242 (0.883) | 61 | 366328 | | | 0.00- 30.00 | 201.67 |
| 14.242 | 14.242 (0.883) | 96 | 280489 | | | 0.00- 30.00 | 154.42 |
| 35 Hexane | | | | | CAS #: 110-54-3 | | |
| 14.517 | 14.517 (0.900) | 57 | 298757 | 10.2263 | 10.226 | 80.00- 120.00 | 100.00 |
| 14.517 | 14.517 (0.900) | 43 | 154441 | | | 0.00- 30.00 | 51.69 |
| 14.544 | 14.544 (0.902) | 86 | 76260 | | | 0.00- 30.00 | 25.53 |
| 37 1,1-Dichloroethane | | | | | CAS #: 75-34-3 | | |
| 14.928 | 14.928 (0.926) | 63 | 449143 | 9.33574 | 9.336 | 80.00- 120.00 | 100.00 |
| 14.928 | 14.956 (0.926) | 65 | 148519 | | | 0.00- 30.00 | 33.07 |
| 38 Vinyl Acetate | | | | | CAS #: 108-05-4 | | |
| 14.956 | 14.956 (0.927) | 86 | 71932 | 10.1203 | 10.120 | 80.00- 120.00 | 100.00 |
| 14.956 | 14.956 (0.927) | 42 | 45232 | | | 0.00- 30.00 | 62.88 |
| 14.956 | 14.956 (0.927) | 43 | 434117 | | | 0.00- 30.00 | 603.51 |
| 41 cis-1,2-Dichloroethene | | | | | CAS #: 156-59-2 | | |
| 15.787 | 15.787 (0.979) | 98 | 263727 | 10.3051 | 10.305 | 80.00- 120.00 | 100.00 |
| 15.766 | 15.766 (0.978) | 61 | 489335 | | | 0.00- 30.00 | 185.55 |
| 15.787 | 15.787 (0.979) | 96 | 405619 | | | 122.97- 182.97 | 153.80 |
| 42 2-Butanone | | | | | CAS #: 78-93-3 | | |
| 15.766 | 15.766 (0.978) | 72 | 182386 | 9.92830 | 9.928 | 80.00- 120.00 | 100.00 |
| 15.766 | 15.766 (0.978) | 43 | 460508 | | | 0.00- 30.00 | 252.49 |
| 15.766 | 15.766 (0.978) | 57 | 45736 | | | 0.00- 30.00 | 25.08 |
| 44 Tetrahydrofuran | | | | | CAS #: 109-99-9 | | |
| 16.128 | 16.128 (1.000) | 42 | 169443 | 9.25227 | 9.252 | 80.00- 120.00 | 100.00 |
| 16.128 | 16.128 (1.000) | 71 | 115090 | | | 0.00- 30.00 | 67.92 |
| 16.128 | 16.128 (1.000) | 72 | 129609 | | | 0.00- 30.00 | 76.49 |

| RT | EXP RT (REL RT) | MASS | RESPONSE | CONCENTRATIONS ON-COL ( PPBV) | FINAL ( PPBV) | TARGET RANGE | RATIO |
|---|---|---|---|---|---|---|---|
| 47 Chloroform | | | | | CAS #: 67-66-3 | | |
| 16.189 | 16.189 (1.004) | 83 | 694613 | 9.43190 | 9.432 | 80.00- 120.00 | 100.00 |
| 16.189 | 16.189 (1.004) | 85 | 437791 | | | 0.00- 30.00 | 63.03 |
| 48 Cyclohexane | | | | | CAS #: 110-82-7 | | |
| 16.467 | 16.467 (1.021) | 84 | 396481 | 10.0827 | 10.083 | 80.00- 120.00 | 100.00 |
| 16.467 | 16.467 (1.021) | 56 | 321444 | | | 0.00- 30.00 | 81.07 |
| 16.467 | 16.467 (1.021) | 41 | 165186 | | | 0.00- 30.00 | 41.66 |
| 49 1,1,1-Trichloroethane | | | | | CAS #: 71-55-6 | | |
| 16.467 | 16.467 (1.021) | 97 | 810978 | 9.63665 | 9.637 | 80.00- 120.00 | 100.00 |
| 16.467 | 16.467 (1.021) | 99 | 520941 | | | 0.00- 30.00 | 64.24 |
| 51 Carbon Tetrachloride | | | | | CAS #: 56-23-5 | | |
| 16.651 | 16.652 (1.032) | 119 | 445837 | 7.08038 | 7.080 | 80.00- 120.00 | 100.00 |
| 16.651 | 16.652 (1.032) | 117 | 465260 | | | 0.00- 30.00 | 104.36 |
| 52 2,2,4-Trimethylpentane | | | | | CAS #: 540-84-1 | | |
| 16.926 | 16.926 (1.049) | 56 | 405292 | 8.99730 | 8.997 | 80.00- 120.00 | 100.00 |
| 16.926 | 16.926 (1.049) | 57 | 1294807 | | | 0.00- 30.00 | 319.48 |
| 16.926 | 16.926 (1.049) | 41 | 357010 | | | 0.00- 30.00 | 88.09 |
| 53 Benzene | | | | | CAS #: 71-43-2 | | |
| 17.013 | 17.013 (0.967) | 78 | 822793 | 8.98503 | 8.985 | 80.00- 120.00 | 100.00 |
| 17.013 | 17.013 (0.967) | 77 | 190321 | | | 0.00- 30.00 | 23.13 |
| 56 1,2-Dichloroethane | | | | | CAS #: 107-06-2 | | |
| 17.129 | 17.130 (0.974) | 62 | 464110 | 8.98783 | 8.988 | 80.00- 120.00 | 100.00 |
| 17.129 | 17.130 (0.974) | 64 | 151134 | | | 0.00- 30.00 | 32.56 |
| 57 Heptane | | | | | CAS #: 142-82-5 | | |
| 17.159 | 17.159 (0.976) | 57 | 187980 | 9.93150 | 9.932 | 80.00- 120.00 | 100.00 |
| 17.159 | 17.159 (0.976) | 100 | 116912 | | | 0.00- 30.00 | 62.19 |
| 17.159 | 17.159 (0.976) | 43 | 285299 | | | 0.00- 30.00 | 151.77 |
| 59 Trichloroethene | | | | | CAS #: 79-01-6 | | |
| 18.025 | 18.025 (1.025) | 130 | 356106 | 8.80496 | 8.805 | 80.00- 120.00 | 100.00 |
| 18.025 | 18.025 (1.025) | 95 | 401142 | | | 0.00- 30.00 | 112.65 |
| 18.025 | 18.025 (1.025) | 97 | 263866 | | | 0.00- 30.00 | 74.10 |
| 60 Methylcyclohexane | | | | | CAS #: 108-87-2 | | |
| 18.272 | 18.272 (1.039) | 83 | 522010 | 9.99155 | 9.992 | 80.00- 120.00 | 100.00 |
| 18.272 | 18.272 (1.039) | 55 | 317467 | | | 0.00- 30.00 | 60.82 |
| 18.272 | 18.272 (1.039) | 56 | 92621 | | | 0.00- 30.00 | 17.74 |
| 61 1,2-Dichloropropane | | | | | CAS #: 78-87-5 | | |
| 18.519 | 18.519 (1.053) | 63 | 253623 | 9.00821 | 9.008 | 80.00- 120.00 | 100.00 |

| RT | EXP RT (REL RT) | MASS | RESPONSE | CONCENTRATIONS ON-COL ( PPBV) | FINAL ( PPBV) | TARGET RANGE | RATIO |
|---|---|---|---|---|---|---|---|
| 61 1,2-Dichloropropane (continued) | | | | | | | |
| 18.519 | 18.519 (1.053) | 62 | 172564 | | | 0.00- 30.00 | 68.04 |
| 18.492 | 18.492 (1.052) | 41 | 152999 | | | 28.17- 88.17 | 60.33 |
| 62 1,4-Dioxane | | | | | CAS #: 123-91-1 | | |
| 18.629 | 18.629 (1.059) | 88 | 201647 | 10.0428 | 10.043 | 80.00- 120.00 | 100.00 |
| 18.629 | 18.629 (1.059) | 58 | 112347 | | | 0.00- 30.00 | 55.71 |
| 18.629 | 18.629 (1.059) | 57 | 37584 | | | 0.00- 30.00 | 18.64 |
| 63 Bromodichloromethane | | | | | CAS #: 75-27-4 | | |
| 18.959 | 18.959 (1.078) | 83 | 726941 | 9.24286 | 9.243 | 80.00- 120.00 | 100.00 |
| 18.959 | 18.959 (1.078) | 85 | 456334 | | | 0.00- 30.00 | 62.77 |
| 64 cis-1,3-Dichloropropene | | | | | CAS #: 10061-01-5 | | |
| 19.865 | 19.865 (1.130) | 75 | 490983 | 10.0770 | 10.077 | 80.00- 120.00 | 100.00 |
| 19.865 | 19.865 (1.130) | 77 | 152191 | | | 0.00- 30.00 | 31.00 |
| 19.865 | 19.865 (1.130) | 39 | 213333 | | | 8.52- 68.52 | 43.45 |
| 65 4-Methyl-2-pentanone | | | | | CAS #: 108-10-1 | | |
| 20.076 | 20.076 (1.142) | 43 | 395493 | 10.8680 | 10.868 | 80.00- 120.00 | 100.00 |
| 20.076 | 20.076 (1.142) | 58 | 188177 | | | 0.00- 30.00 | 47.58 |
| 20.076 | 20.076 (1.142) | 85 | 117432 | | | 0.00- 30.00 | 29.69 |
| 68 Toluene | | | | | CAS #: 108-88-3 | | |
| 20.525 | 20.525 (1.167) | 91 | 1006980 | 9.21517 | 9.215 | 80.00- 120.00 | 100.00 |
| 20.525 | 20.525 (1.167) | 92 | 594437 | | | 0.00- 30.00 | 59.03 |
| 69 trans-1,3-Dichloropropene | | | | | CAS #: 10061-02-6 | | |
| 20.995 | 20.995 (0.916) | 75 | 717877 | 11.1146 | 11.115 | 80.00- 120.00 | 100.00 |
| 20.995 | 20.995 (0.916) | 77 | 223964 | | | 0.00- 30.00 | 31.20 |
| 20.995 | 20.995 (0.916) | 39 | 190748 | | | 0.00- 56.18 | 26.57 |
| 70 1,1,2-Trichloroethane | | | | | CAS #: 79-00-5 | | |
| 21.335 | 21.335 (0.931) | 97 | 360755 | 9.27088 | 9.271 | 80.00- 120.00 | 100.00 |
| 21.335 | 21.335 (0.931) | 99 | 223183 | | | 0.00- 30.00 | 61.87 |
| 21.335 | 21.335 (0.931) | 83 | 306101 | | | 54.51- 114.51 | 84.85 |
| 71 Tetrachloroethene | | | | | CAS #: 127-18-4 | | |
| 21.497 | 21.497 (0.938) | 166 | 434337 | 9.61584 | 9.616 | 80.00- 120.00 | 100.00 |
| 21.497 | 21.497 (0.938) | 129 | 372762 | | | 0.00- 30.00 | 85.82 |
| 21.497 | 21.497 (0.938) | 131 | 354416 | | | 0.00- 30.00 | 81.60 |
| 72 2-Hexanone | | | | | CAS #: 591-78-6 | | |
| 21.660 | 21.660 (0.945) | 58 | 253208 | 10.2815 | 10.282 | 80.00- 120.00 | 100.00 |
| 21.660 | 21.660 (0.945) | 43 | 389029 | | | 0.00- 30.00 | 153.64 |
| 21.660 | 21.660 (0.945) | 100 | 74089 | | | 0.00- 30.00 | 29.26 |

| RT | EXP RT (REL RT) | MASS | RESPONSE | CONCENTRATIONS ON-COL ( PPBV) | FINAL ( PPBV) | TARGET RANGE | RATIO |
|---|---|---|---|---|---|---|---|
| 73 Dibromochloromethane | | | | | CAS #: 124-48-1 | | |
| 22.018 | 22.018 (0.960) | 129 | 672585 | 10.1586 | 10.159 | 80.00- 120.00 | 100.00 |
| 22.018 | 22.018 (0.960) | 127 | 512313 | | | 0.00- 30.00 | 76.17 |
| 74 1,2-Dibromoethane | | | | | CAS #: 106-93-4 | | |
| 22.278 | 22.278 (0.972) | 107 | 590930 | 9.90055 | 9.900 | 80.00- 120.00 | 100.00 |
| 22.278 | 22.278 (0.972) | 109 | 538980 | | | 0.00- 30.00 | 91.21 |
| 76 Chlorobenzene | | | | | CAS #: 108-90-7 | | |
| 22.951 | 22.951 (1.001) | 112 | 794451 | 9.25529 | 9.255 | 80.00- 120.00 | 100.00 |
| 22.951 | 22.951 (1.001) | 114 | 257438 | | | 0.00- 30.00 | 32.40 |
| 22.951 | 22.951 (1.001) | 77 | 522746 | | | 34.65- 94.65 | 65.80 |
| 77 Ethyl Benzene | | | | | CAS #: 100-41-4 | | |
| 23.023 | 23.023 (1.004) | 106 | 409093 | 9.75486 | 9.755 | 80.00- 120.00 | 100.00 |
| 23.023 | 23.023 (1.004) | 91 | 1401079 | | | 0.00- 30.00 | 342.48 |
| 80 m,p-Xylene | | | | | CAS #: 108-38-3 | | |
| 23.192 | 23.192 (1.012) | 106 | 511959 | 10.1459 | 10.146 | 80.00- 120.00 | 100.00 |
| 23.192 | 23.192 (1.012) | 91 | 1140360 | | | 0.00- 30.00 | 222.74 |
| 81 o-Xylene | | | | | CAS #: 95-47-6 | | |
| 23.770 | 23.770 (1.037) | 106 | 496249 | 10.2298 | 10.230 | 80.00- 120.00 | 100.00 |
| 23.770 | 23.770 (1.037) | 91 | 1174377 | | | 0.00- 30.00 | 236.65 |
| 83 Styrene | | | | | CAS #: 100-42-5 | | |
| 23.794 | 23.794 (1.038) | 104 | 749235 | 10.2318 | 10.232 | 80.00- 120.00 | 100.00 |
| 23.794 | 23.794 (1.038) | 78 | 451572 | | | 0.00- 30.00 | 60.27 |
| 84 Bromoform | | | | | CAS #: 75-25-2 | | |
| 24.132 | 24.132 (1.053) | 173 | 588517 | 10.2816 | 10.282 | 80.00- 120.00 | 100.00 |
| 24.132 | 24.132 (1.053) | 171 | 303393 | | | 0.00- 30.00 | 51.55 |
| 85 Cumene | | | | | CAS #: 98-82-8 | | |
| 24.228 | 24.228 (1.057) | 105 | 1633432 | 10.3994 | 10.399 | 80.00- 120.00 | 100.00 |
| 24.228 | 24.228 (1.057) | 120 | 391048 | | | 0.00- 30.00 | 23.94 |
| 89 1,1,2,2-Tetrachloroethane | | | | | CAS #: 79-34-5 | | |
| 24.680 | 24.680 (1.076) | 83 | 792114 | 9.75786 | 9.758 | 80.00- 120.00 | 100.00 |
| 24.680 | 24.680 (1.076) | 85 | 492813 | | | 0.00- 30.00 | 62.21 |
| 90 Propylbenzene | | | | | CAS #: 103-65-1 | | |
| 24.758 | 24.758 (1.080) | 91 | 2014758 | 10.0142 | 10.014 | 80.00- 120.00 | 100.00 |
| 24.758 | 24.758 (1.080) | 120 | 417035 | | | 0.00- 30.00 | 20.70 |
| 92 4-Ethyltoluene | | | | | CAS #: 622-96-8 | | |
| 24.887 | 24.887 (1.085) | 105 | 1699139 | 9.83542 | 9.835 | 80.00- 120.00 | 100.00 |

| RT | EXP RT (REL RT) | MASS | RESPONSE | CONCENTRATIONS ON-COL ( PPBV) | CONCENTRATIONS FINAL ( PPBV) | TARGET RANGE | RATIO |
|---|---|---|---|---|---|---|---|
| 92 4-Ethyltoluene (continued) | | | | | | | |
| 24.887 | 24.887 (1.085) | 120 | 460676 | | | 0.00- 30.00 | 27.11 |
| 94 1,3,5-Trimethylbenzene | | | | | CAS #: 108-67-8 | | |
| 24.938 | 24.938 (1.088) | 105 | 1500745 | 10.0924 | 10.092 | 80.00- 120.00 | 100.00 |
| 24.938 | 24.938 (1.088) | 120 | 638133 | | | 0.00- 30.00 | 42.52 |
| 98 1,2,4-Trimethylbenzene | | | | | CAS #: 95-63-6 | | |
| 25.410 | 25.410 (1.108) | 105 | 1381172 | 10.5509 | 10.551 | 80.00- 120.00 | 100.00 |
| 25.410 | 25.410 (1.108) | 120 | 567633 | | | 0.00- 30.00 | 41.10 |
| 101 1,3-Dichlorobenzene | | | | | CAS #: 541-73-1 | | |
| 25.791 | 25.791 (1.125) | 146 | 800323 | 9.64475 | 9.645 | 80.00- 120.00 | 100.00 |
| 25.791 | 25.791 (1.125) | 148 | 514654 | | | 0.00- 30.00 | 64.31 |
| 25.791 | 25.791 (1.125) | 111 | 392918 | | | 0.00- 30.00 | 49.09 |
| 104 1,4-Dichlorobenzene | | | | | CAS #: 106-46-7 | | |
| 25.903 | 25.903 (1.130) | 146 | 788168 | 9.49282 | 9.493 | 80.00- 120.00 | 100.00 |
| 25.903 | 25.903 (1.130) | 148 | 502723 | | | 0.00- 30.00 | 63.78 |
| 25.903 | 25.903 (1.130) | 111 | 363974 | | | 0.00- 30.00 | 46.18 |
| 105 alpha-chlorotoluene | | | | | CAS #: 100-44-7 | | |
| 26.060 | 26.060 (1.137) | 91 | 1246681 | 9.85787 | 9.858 | 80.00- 120.00 | 100.00 |
| 26.060 | 26.060 (1.137) | 126 | 212777 | | | 0.00- 30.00 | 17.07 |
| 108 1,2-Dichlorobenzene | | | | | CAS #: 95-50-1 | | |
| 26.352 | 26.352 (1.149) | 146 | 747349 | 9.49326 | 9.493 | 80.00- 120.00 | 100.00 |
| 26.352 | 26.352 (1.149) | 148 | 474747 | | | 34.68- 94.68 | 63.52 |
| 26.352 | 26.352 (1.149) | 111 | 370569 | | | 19.87- 79.87 | 49.58 |
| 112 1,2,4-Trichlorobenzene | | | | | CAS #: 120-82-1 | | |
| 28.145 | 28.145 (1.228) | 180 | 564957 | 10.9790 | 10.979 | 80.00- 120.00 | 100.00 |
| 28.145 | 28.145 (1.228) | 182 | 533116 | | | 0.00- 30.00 | 94.36 |
| 113 Hexachlorobutadiene | | | | | CAS #: 87-68-3 | | |
| 28.235 | 28.235 (1.232) | 225 | 484424 | 10.5366 | 10.536 | 80.00- 120.00 | 100.00 |
| 28.235 | 28.235 (1.232) | 223 | 303173 | | | 0.00- 30.00 | 62.58 |
| 114 Naphthalene | | | | | CAS #: 91-20-3 | | |
| 28.504 | 28.504 (1.243) | 128 | 91578 | 0.83581 | 0.8358 | 80.00- 120.00 | 100.00 |
| 28.504 | 28.504 (1.243) | 127 | 12324 | | | 0.00- 30.00 | 13.46 |

Air Toxics Ltd.

EPA TO-15/Modified TO14A

Data file : /chem/msde.i/14Mar2012.b/e031403.d
Lab Smp Id: LCS Client Smp ID: LCS
Inj Date : 14-MAR-2012 08:56
Operator : LL Inst ID: msde.i
Smp Info : 50mL #2370-221; LCS;LCS
Misc Info : 10ppbv (50ppbv)
Comment : Low-Level/GC-MS
Method : /chem/msde.i/14Mar2012.b/e12l0308b.m
Meth Date : 14-Mar-2012 09:45 llarson Quant Type: ISTD
Cal Date : 10-MAR-2012 19:22 Cal File: e031014.d
Als bottle: 8 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AT09.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

- NO TENTATIVELY IDENTIFIED COMPOUNDS -

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msde.i
Lab File ID: e031403.d
Lab Smp Id: LCS
Analysis Type: VOA
Quant Type: ISTD
Operator: LL
Method File: /chem/msde.i/14Mar2012.b/e12l0308b.m
Misc Info: 10ppbv (50ppbv)

Calibration Date: 14-MAR-2012
Calibration Time: 10:17
Client Smp ID: LCS
Level: LOW
Sample Type: AIR

| | | AREA LIMIT | | | |
|---|---|---|---|---|---|
| COMPOUND | STANDARD | LOWER | UPPER | SAMPLE | %DIFF |
| 46 Bromochloromethan | 90443 | 54266 | 126620 | 89660 | -0.87 |
| 58 1,4-Difluorobenze | 374503 | 224702 | 524304 | 356986 | -4.68 |
| 75 Chlorobenzene-d5 | 310086 | 186052 | 434120 | 301188 | -2.87 |

| | | RT LIMIT | | | |
|---|---|---|---|---|---|
| COMPOUND | STANDARD | LOWER | UPPER | SAMPLE | %DIFF |
| 46 Bromochloromethan | 16.13 | 15.80 | 16.46 | 16.13 | 0.00 |
| 58 1,4-Difluorobenze | 17.59 | 17.26 | 17.92 | 17.59 | 0.00 |
| 75 Chlorobenzene-d5 | 22.93 | 22.60 | 23.26 | 22.93 | 0.00 |

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

<-

Data File: /chem/msde.i/14Mar2012.b/e031403.d



Date : 14-MAR-2012 08:56

Client ID: LCS

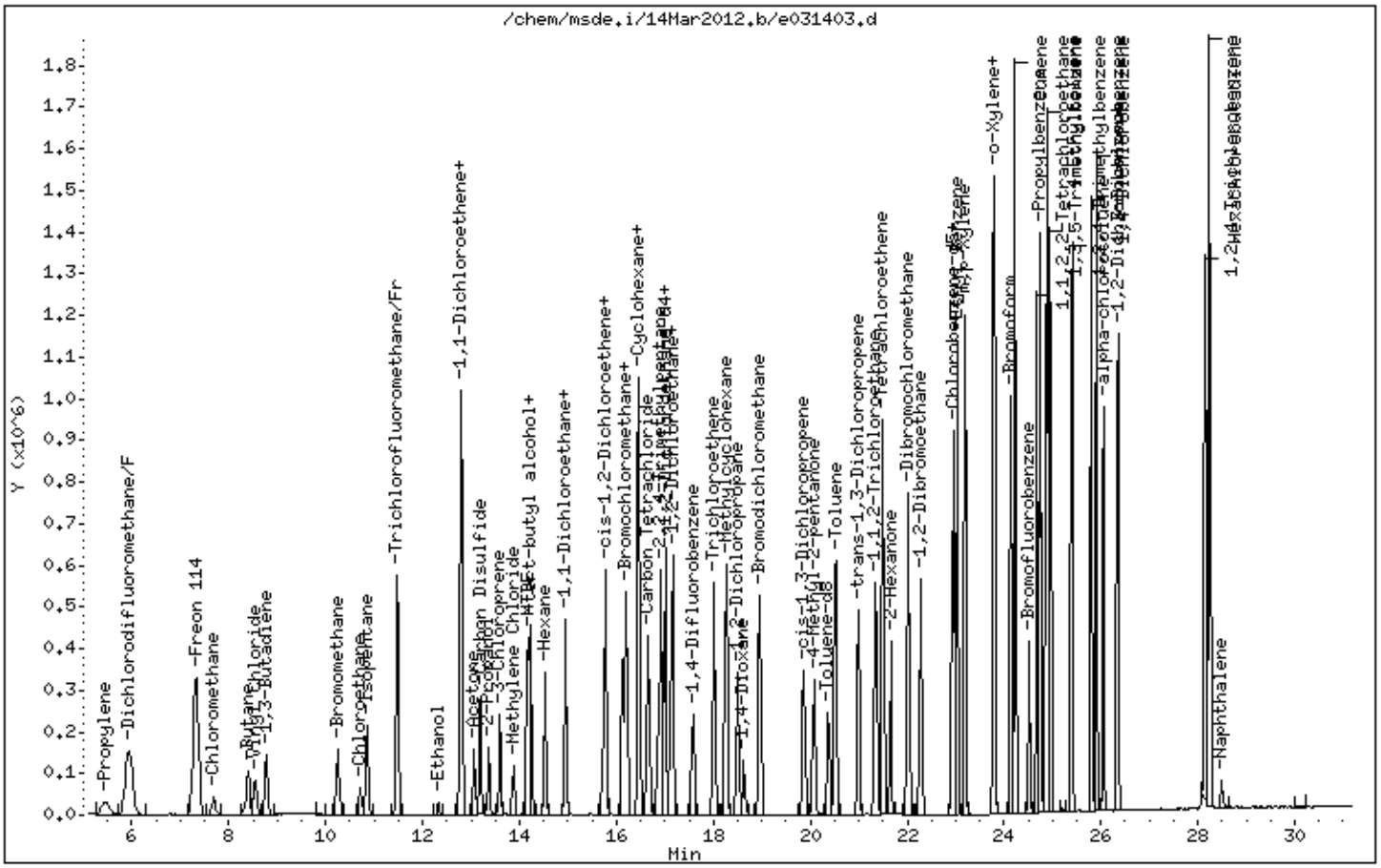
Instrument: msde.i

Sample Info: 50mL #2370-221; LCS;LCS

Operator: LL

Column phase: RTx-624

Column diameter: 0.32



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**Client Sample ID: LCSD**

**Lab ID#: 1202444-06BB**

**MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN**

| | | | |
|---|---|---|---|
| **File Name:** | **e031404** | **Date of Collection: NA** | |
| **Dil. Factor:** | **1.00** | **Date of Analysis: 3/14/12 09:39 AM** | |

| Compound | %Recovery |
|---|---|
| Freon 12 | 89 |
| Freon 114 | 92 |
| Chloromethane | 92 |
| Vinyl Chloride | 93 |
| 1,3-Butadiene | 94 |
| Bromomethane | 79 |
| Chloroethane | 91 |
| Freon 11 | 87 |
| Ethanol | 104 |
| Freon 113 | 94 |
| 1,1-Dichloroethene | 104 |
| Acetone | 90 |
| 2-Propanol | 100 |
| Carbon Disulfide | 107 |
| 3-Chloropropene | 112 |
| Methylene Chloride | 58 Q |
| Methyl tert-butyl ether | 102 |
| trans-1,2-Dichloroethene | 105 |
| Hexane | 101 |
| 1,1-Dichloroethane | 92 |
| 2-Butanone (Methyl Ethyl Ketone) | 92 |
| cis-1,2-Dichloroethene | 103 |
| Tetrahydrofuran | 92 |
| Chloroform | 92 |
| 1,1,1-Trichloroethane | 94 |
| Cyclohexane | 99 |
| Carbon Tetrachloride | 71 |
| 2,2,4-Trimethylpentane | 89 |
| Benzene | 90 |
| 1,2-Dichloroethane | 88 |
| Heptane | 100 |
| Trichloroethene | 87 |
| 1,2-Dichloropropane | 89 |
| 1,4-Dioxane | 100 |
| Bromodichloromethane | 92 |
| cis-1,3-Dichloropropene | 99 |
| 4-Methyl-2-pentanone | 106 |
| Toluene | 91 |
| trans-1,3-Dichloropropene | 109 |
| 1,1,2-Trichloroethane | 93 |
| Tetrachloroethene | 93 |
| 2-Hexanone | 102 |

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**Client Sample ID: LCSD**

**Lab ID#: 1202444-06BB**

**MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN**

| | | | |
|---|---|---|---|
| **File Name:** | **e031404** | **Date of Collection: NA** | |
| **Dil. Factor:** | **1.00** | **Date of Analysis: 3/14/12 09:39 AM** | |

| Compound | %Recovery |
|---|---|
| Dibromochloromethane | 100 |
| 1,2-Dibromoethane (EDB) | 98 |
| Chlorobenzene | 92 |
| Ethyl Benzene | 97 |
| m,p-Xylene | 102 |
| o-Xylene | 104 |
| Styrene | 104 |
| Bromoform | 100 |
| Cumene | 105 |
| 1,1,2,2-Tetrachloroethane | 95 |
| Propylbenzene | 99 |
| 4-Ethyltoluene | 97 |
| 1,3,5-Trimethylbenzene | 99 |
| 1,2,4-Trimethylbenzene | 104 |
| 1,3-Dichlorobenzene | 96 |
| 1,4-Dichlorobenzene | 94 |
| alpha-Chlorotoluene | 99 |
| 1,2-Dichlorobenzene | 93 |
| 1,2,4-Trichlorobenzene | 106 |
| Hexachlorobutadiene | 101 |
| 2,3-Dimethylpentane | Not Spiked |
| 2-Methylpentane | Not Spiked |
| Indene | Not Spiked |
| Indan | Not Spiked |
| Isopentane | 91 |
| Naphthalene | 82 |
| Thiophene | Not Spiked |

Q = Exceeds Quality Control limits.

**Container Type: NA - Not Applicable**

| Surrogates | %Recovery | Method Limits |
|---|---|---|
| 1,2-Dichloroethane-d4 | 94 | 70-130 |
| Toluene-d8 | 101 | 70-130 |
| 4-Bromofluorobenzene | 101 | 70-130 |

Report Date: 14-Mar-2012 09:49

Air Toxics Ltd.

RECOVERY REPORT

Client Name: Client SDG: 14Mar2012
Sample Matrix: GAS Fraction: VOA
Lab Smp Id: LCSD Client Smp ID: LCSD
Level: LOW Operator: LL
Data Type: MS DATA SampleType: LCSD
SpikeList File: AT09.spk Quant Type: ISTD
Sublist File: AT09.sub
Method File: /chem/msde.i/14Mar2012.b/e12l0308b.m
Misc Info: 10ppbv (50ppbv)

| SPIKE COMPOUND | CONC ADDED PPBV | CONC RECOVERED PPBV | % RECOVERED | LIMITS |
|---|---|---|---|---|
| 4 Dichlorodifluorome | 10.000 | 8.910 | 89.10 | 70-130 |
| 2 Propylene | 10.000 | 7.916 | 79.16 | 60-140 |
| 6 Freon 114 | 10.000 | 9.215 | 92.15 | 70-130 |
| 7 Chloromethane | 10.000 | 9.176 | 91.76 | 70-130 |
| 10 Vinyl Chloride | 10.000 | 9.263 | 92.63 | 70-130 |
| 11 1,3-Butadiene | 10.000 | 9.434 | 94.34 | 60-140 |
| 12 Bromomethane | 10.000 | 7.946 | 79.46 | 70-130 |
| 13 Chloroethane | 10.000 | 9.100 | 91.00 | 70-130 |
| 16 Trichlorofluoromet | 10.000 | 8.727 | 87.27 | 70-130 |
| 18 Ethanol | 10.000 | 10.410 | 104.10 | 60-140 |
| 19 Freon 113 | 10.000 | 9.358 | 93.58 | 70-130 |
| 21 1,1-Dichloroethene | 10.000 | 10.352 | 103.52 | 70-130 |
| 22 Acetone | 10.000 | 9.035 | 90.35 | 60-140 |
| 23 Carbon Disulfide | 10.000 | 10.747 | 107.47 | 60-140 |
| 25 2-Propanol | 10.000 | 10.024 | 100.24 | 60-140 |
| 26 3-Chloroprene | 10.000 | 11.250 | 112.50 | 60-140 |
| 29 Methylene Chloride | 10.000 | 5.808 | 58.08* | 70-130 |
| 31 MTBE | 10.000 | 10.193 | 101.93 | 60-140 |
| 32 trans-1,2-Dichloro | 10.000 | 10.489 | 104.89 | 60-140 |
| 35 Hexane | 10.000 | 10.098 | 100.98 | 60-140 |
| 37 1,1-Dichloroethane | 10.000 | 9.178 | 91.79 | 70-130 |
| 38 Vinyl Acetate | 10.000 | 9.747 | 97.47 | 60-140 |
| 41 cis-1,2-Dichloroet | 10.000 | 10.281 | 102.81 | 70-130 |
| 42 2-Butanone | 10.000 | 9.216 | 92.16 | 60-140 |
| 44 Tetrahydrofuran | 10.000 | 9.174 | 91.74 | 60-140 |
| 47 Chloroform | 10.000 | 9.225 | 92.25 | 70-130 |
| 48 Cyclohexane | 10.000 | 9.929 | 99.29 | 60-140 |
| 49 1,1,1-Trichloroeth | 10.000 | 9.436 | 94.36 | 70-130 |
| 51 Carbon Tetrachlori | 10.000 | 7.064 | 70.64 | 70-130 |
| 52 2,2,4-Trimethylpen | 10.000 | 8.905 | 89.05 | 60-140 |
| 53 Benzene | 10.000 | 8.958 | 89.58 | 70-130 |
| 57 Heptane | 10.000 | 10.021 | 100.21 | 60-140 |
| 56 1,2-Dichloroethane | 10.000 | 8.773 | 87.73 | 70-130 |

| SPIKE COMPOUND | CONC ADDED PPBV | CONC RECOVERED PPBV | % RECOVERED | LIMITS |
|---|---|---|---|---|
| 59 Trichloroethene | 10.000 | 8.734 | 87.34 | 70-130 |
| 61 1,2-Dichloropropan | 10.000 | 8.935 | 89.35 | 70-130 |
| 62 1,4-Dioxane | 10.000 | 10.015 | 100.15 | 60-140 |
| 63 Bromodichlorometha | 10.000 | 9.173 | 91.73 | 60-140 |
| 64 cis-1,3-Dichloropr | 10.000 | 9.896 | 98.96 | 70-130 |
| 65 4-Methyl-2-pentano | 10.000 | 10.574 | 105.74 | 60-140 |
| 68 Toluene | 10.000 | 9.138 | 91.38 | 70-130 |
| 69 trans-1,3-Dichloro | 10.000 | 10.932 | 109.32 | 70-130 |
| 70 1,1,2-Trichloroeth | 10.000 | 9.268 | 92.68 | 70-130 |
| 72 2-Hexanone | 10.000 | 10.178 | 101.78 | 60-140 |
| 71 Tetrachloroethene | 10.000 | 9.298 | 92.98 | 70-130 |
| 73 Dibromochlorometha | 10.000 | 9.990 | 99.90 | 60-140 |
| 74 1,2-Dibromoethane | 10.000 | 9.844 | 98.44 | 70-130 |
| 76 Chlorobenzene | 10.000 | 9.170 | 91.70 | 70-130 |
| 77 Ethyl Benzene | 10.000 | 9.676 | 96.76 | 70-130 |
| 80 m,p-Xylene | 10.000 | 10.244 | 102.44 | 70-130 |
| 81 o-Xylene | 10.000 | 10.398 | 103.98 | 70-130 |
| 83 Styrene | 10.000 | 10.413 | 104.13 | 70-130 |
| 84 Bromoform | 10.000 | 9.958 | 99.58 | 60-140 |
| 85 Cumene | 10.000 | 10.540 | 105.40 | 60-140 |
| 89 1,1,2,2-Tetrachlor | 10.000 | 9.496 | 94.97 | 70-130 |
| 90 Propylbenzene | 10.000 | 9.929 | 99.29 | 70-130 |
| 92 4-Ethyltoluene | 10.000 | 9.674 | 96.74 | 60-140 |
| 94 1,3,5-Trimethylben | 10.000 | 9.923 | 99.23 | 70-130 |
| 98 1,2,4-Trimethylben | 10.000 | 10.408 | 104.08 | 70-130 |
| 101 1,3-Dichlorobenzen | 10.000 | 9.587 | 95.87 | 70-130 |
| 104 1,4-Dichlorobenzen | 10.000 | 9.405 | 94.05 | 70-130 |
| 105 alpha-chlorotoluen | 10.000 | 9.874 | 98.74 | 70-130 |
| 108 1,2-Dichlorobenzen | 10.000 | 9.311 | 93.11 | 70-130 |
| 112 1,2,4-Trichloroben | 10.000 | 10.554 | 105.54 | 70-130 |
| 113 Hexachlorobutadien | 10.000 | 10.084 | 100.84 | 70-130 |
| 114 Naphthalene | 1.000 | 0.8177 | 81.77 | 60-140 |
| 14 Isopentane | 10.000 | 9.090 | 90.90 | 60-140 |
| 9 Butane | 10.000 | 10.561 | 105.61 | 60-140 |
| 60 Methylcyclohexane | 10.000 | 9.771 | 97.71 | 60-140 |

| SURROGATE COMPOUND | CONC ADDED PPBV | CONC RECOVERED PPBV | % RECOVERED | LIMITS |
|---|---|---|---|---|
| $ 54 1,2-Dichloroethane | 5.000 | 4.719 | 94.38 | 70-130 |
| $ 67 Toluene-d8 | 5.000 | 5.031 | 100.62 | 70-130 |
| $ 87 Bromofluorobenzene | 5.000 | 5.073 | 101.47 | 70-130 |

Air Toxics Ltd.

EPA TO-15/Modified TO14A

Data file : /chem/msde.i/14Mar2012.b/e031404.d
Lab Smp Id: LCSD Client Smp ID: LCSD
Inj Date : 14-MAR-2012 09:39
Operator : LL Inst ID: msde.i
Smp Info : 50mL #2370-221; LCSD;LCSD
Misc Info : 10ppbv (50ppbv)
Comment : Low-Level/GC-MS
Method : /chem/msde.i/14Mar2012.b/e12l0308b.m
Meth Date : 14-Mar-2012 09:45 llarson Quant Type: ISTD
Cal Date : 10-MAR-2012 19:22 Cal File: e031014.d
Als bottle: 8 QC Sample: LCSD
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AT09.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

| Name | Value | Description |
|---|---|---|
| DF | 1.00000 | Dilution Factor |

| | | | | | CONCENTRATIONS ON-COL ( PPBV) | FINAL ( PPBV) | TARGET RANGE | RATIO |
|---|---|---|---|---|---|---|---|---|
| RT | EXP RT (REL RT) | MASS | RESPONSE | | | | | |
| * 46 Bromochloromethane | | | | | | CAS #: 74-97-5 | | |
| 16.127 | 16.128 (1.000) | 130 | 89024 | 5.00000 | | | 80.00- 120.00 | 100.00 |
| 16.127 | 16.128 (1.000) | 128 | 66767 | | | | 0.00- 30.00 | 75.00 |
| 16.127 | 16.128 (1.000) | 49 | 123086 | | | | 0.00- 30.00 | 138.26 |
| * 58 1,4-Difluorobenzene | | | | | | CAS #: 540-36-3 | | |
| 17.585 | 17.586 (1.000) | 114 | 353753 | 5.00000 | | | 80.00- 120.00 | 100.00 |
| 17.585 | 17.586 (1.000) | 88 | 64633 | | | | 0.00- 30.00 | 18.27 |
| * 75 Chlorobenzene-d5 | | | | | | CAS #: 3114-55-4 | | |
| 22.927 | 22.927 (1.000) | 117 | 298888 | 5.00000 | | | 80.00- 120.00 | 100.00 |
| 22.903 | 22.927 (1.000) | 82 | 197176 | | | | 0.00- 30.00 | 65.97 |
| $ 54 1,2-Dichloroethane-d4 | | | | | | CAS #: 17060-07-0 | | |
| 17.013 | 17.013 (1.055) | 65 | 156547 | 4.71882 | 4.719 | | 80.00- 120.00 | 100.00 |
| 17.013 | 17.013 (1.055) | 67 | 78008 | | | | 0.00- 30.00 | 49.83 |

| RT | EXP RT (REL RT) | MASS | RESPONSE | CONCENTRATIONS ON-COL ( PPBV) | CONCENTRATIONS FINAL ( PPBV) | TARGET RANGE | RATIO |
|---|---|---|---|---|---|---|---|
| $ 67 Toluene-d8 | | | | | CAS #: 2037-26-5 | | |
| 20.368 | 20.368 (1.158) | 98 | 358471 | 5.03089 | 5.031 | 80.00- 120.00 | 100.00 |
| 20.368 | 20.368 (1.158) | 70 | 41583 | | | 0.00- 30.00 | 11.60 |
| 20.368 | 20.368 (1.158) | 100 | 230840 | | | 35.01- 95.01 | 64.40 |
| $ 87 Bromofluorobenzene | | | | | CAS #: 460-00-4 | | |
| 24.525 | 24.526 (1.070) | 174 | 173465 | 5.07332 | 5.073 | 80.00- 120.00 | 100.00 |
| 24.525 | 24.526 (1.070) | 95 | 272324 | | | 125.48- 185.48 | 156.99 |
| 24.525 | 24.526 (1.070) | 176 | 168307 | | | 67.99- 127.99 | 97.03 |
| 2 Propylene | | | | | CAS #: 115-07-1 | | |
| 5.449 | 5.449 (0.338) | 41 | 112338 | 7.91634 | 7.916 | 80.00- 120.00 | 100.00 |
| 5.449 | 5.473 (0.338) | 42 | 69965 | | | 0.00- 30.00 | 62.28 |
| 5.449 | 5.449 (0.338) | 39 | 92511 | | | 0.00- 30.00 | 82.35 |
| 4 Dichlorodifluoromethane/Fr12 | | | | | CAS #: 75-71-8 | | |
| 5.931 | 5.931 (0.368) | 85 | 926968 | 8.91040 | 8.910 | 80.00- 120.00 | 100.00 |
| 5.931 | 5.931 (0.368) | 87 | 299965 | | | 2.11- 62.11 | 32.36 |
| 6 Freon 114 | | | | | CAS #: 76-14-2 | | |
| 7.329 | 7.329 (0.454) | 135 | 498787 | 9.21526 | 9.215 | 80.00- 120.00 | 100.00 |
| 7.305 | 7.329 (0.453) | 137 | 159842 | | | 0.00- 30.00 | 32.05 |
| 7 Chloromethane | | | | | CAS #: 74-87-3 | | |
| 7.667 | 7.691 (0.475) | 50 | 141087 | 9.17618 | 9.176 | 80.00- 120.00 | 100.00 |
| 7.691 | 7.691 (0.477) | 52 | 47533 | | | 0.00- 30.00 | 33.69 |
| 9 Butane | | | | | CAS #: 106-97-8 | | |
| 8.387 | 8.387 (0.520) | 58 | 55881 | 10.5606 | 10.561 | 80.00- 120.00 | 100.00 |
| 8.387 | 8.404 (0.520) | 43 | 273741 | | | 0.00- 30.00 | 489.86 |
| 10 Vinyl Chloride | | | | | CAS #: 75-01-4 | | |
| 8.526 | 8.543 (0.529) | 62 | 224795 | 9.26313 | 9.263 | 80.00- 120.00 | 100.00 |
| 8.526 | 8.543 (0.529) | 64 | 71969 | | | 1.46- 61.46 | 32.02 |
| 11 1,3-Butadiene | | | | | CAS #: 106-99-0 | | |
| 8.769 | 8.769 (0.544) | 54 | 143898 | 9.43427 | 9.434 | 80.00- 120.00 | 100.00 |
| 8.769 | 8.769 (0.544) | 39 | 131456 | | | 0.00- 30.00 | 91.35 |
| 12 Bromomethane | | | | | CAS #: 74-83-9 | | |
| 10.251 | 10.251 (0.636) | 94 | 213207 | 7.94595 | 7.946 | 80.00- 120.00 | 100.00 |
| 10.251 | 10.251 (0.636) | 96 | 205119 | | | 58.77- 118.77 | 96.21 |
| 13 Chloroethane | | | | | CAS #: 75-00-3 | | |
| 10.707 | 10.728 (0.664) | 64 | 117676 | 9.10040 | 9.100 | 80.00- 120.00 | 100.00 |
| 10.707 | 10.707 (0.664) | 49 | 25895 | | | 0.00- 30.00 | 22.01 |

| RT | EXP RT (REL RT) | MASS | RESPONSE | CONCENTRATIONS ON-COL ( PPBV) | FINAL ( PPBV) | TARGET RANGE | RATIO |
|---|---|---|---|---|---|---|---|
| 13 Chloroethane (continued) | | | | | | | |
| 10.707 | 10.728 (0.664) | 66 | 40175 | | | 0.00- 30.00 | 34.14 |
| 14 Isopentane | | | | | CAS #: 78-78-4 | | |
| 10.852 | 10.852 (0.673) | 57 | 148462 | 9.09011 | 9.090 | 80.00- 120.00 | 100.00 |
| 10.852 | 10.852 (0.673) | 43 | 165924 | | | 0.00- 30.00 | 111.76 |
| 10.852 | 10.852 (0.673) | 42 | 136450 | | | 0.00- 30.00 | 91.91 |
| 16 Trichlorofluoromethane/Fr11 | | | | | CAS #: 75-69-4 | | |
| 11.474 | 11.474 (0.711) | 101 | 957485 | 8.72733 | 8.727 | 80.00- 120.00 | 100.00 |
| 11.474 | 11.474 (0.711) | 103 | 623121 | | | 35.40- 95.40 | 65.08 |
| 18 Ethanol | | | | | CAS #: 64-17-5 | | |
| 12.324 | 12.324 (0.764) | 45 | 59629 | 10.4105 | 10.410 | 80.00- 120.00 | 100.00 |
| 12.324 | 12.324 (0.764) | 46 | 19873 | | | 0.00- 30.00 | 33.33 |
| 12.324 | 12.324 (0.764) | 43 | 14082 | | | 0.00- 30.00 | 23.62 |
| 21 1,1-Dichloroethene | | | | | CAS #: 75-35-4 | | |
| 12.821 | 12.821 (0.795) | 98 | 163326 | 10.3523 | 10.352 | 80.00- 120.00 | 100.00 |
| 12.800 | 12.821 (0.794) | 61 | 402383 | | | 0.00- 30.00 | 246.37 |
| 12.821 | 12.821 (0.795) | 96 | 250800 | | | 0.00- 30.00 | 153.56 |
| 19 Freon 113 | | | | | CAS #: 76-13-1 | | |
| 12.780 | 12.780 (0.792) | 151 | 434165 | 9.35835 | 9.358 | 80.00- 120.00 | 100.00 |
| 12.780 | 12.780 (0.792) | 153 | 275898 | | | 33.56- 93.56 | 63.55 |
| 12.780 | 12.780 (0.792) | 101 | 579137 | | | 0.00- 30.00 | 133.39 |
| 22 Acetone | | | | | CAS #: 67-64-1 | | |
| 13.070 | 13.070 (0.810) | 58 | 90905 | 9.03524 | 9.035 | 80.00- 120.00 | 100.00 |
| 13.070 | 13.070 (0.810) | 43 | 296732 | | | 0.00- 30.00 | 326.42 |
| 23 Carbon Disulfide | | | | | CAS #: 75-15-0 | | |
| 13.174 | 13.194 (0.817) | 76 | 711433 | 10.7468 | 10.747 | 80.00- 120.00 | 100.00 |
| 26 3-Chloroprene | | | | | CAS #: 107-05-1 | | |
| 13.588 | 13.588 (0.843) | 76 | 109844 | 11.2496 | 11.250 | 80.00- 120.00 | 100.00 |
| 13.588 | 13.588 (0.843) | 41 | 179462 | | | 0.00- 30.00 | 163.38 |
| 25 2-Propanol | | | | | CAS #: 67-63-0 | | |
| 13.360 | 13.360 (0.828) | 45 | 272650 | 10.0238 | 10.024 | 80.00- 120.00 | 100.00 |
| 13.360 | 13.360 (0.828) | 43 | 69969 | | | 0.00- 30.00 | 25.66 |
| 13.360 | 13.360 (0.828) | 59 | 13356 | | | 0.00- 30.00 | 4.90 |
| 29 Methylene Chloride | | | | | CAS #: 75-09-2 | | |
| 13.885 | 13.885 (0.861) | 84 | 72130 | 5.80795 | 5.808 | 80.00- 120.00 | 100.00(R) |
| 13.885 | 13.885 (0.861) | 49 | 63601 | | | 0.00- 30.00 | 88.18 |

| RT | EXP RT (REL RT) | MASS | RESPONSE | CONCENTRATIONS ON-COL ( PPBV) | FINAL ( PPBV) | TARGET RANGE | RATIO |
|---|---|---|---|---|---|---|---|
| 29 Methylene Chloride (continued) | | | | | | | |
| 13.885 | 13.885 (0.861) | 51 | 19260 | | | 0.00- 30.00 | 26.70 |
| 30 tert-butyl alcohol | | | | | CAS #: 75-65-0 | | |
| 14.242 | 14.023 (0.883) | 59 | 15181 | 0.58864 | 0.5886 | 80.00- 120.00 | 100.00 |
| 14.187 | 14.023 (0.880) | 41 | 125769 | | | 0.00- 30.00 | 828.46 |
| 14.187 | 14.023 (0.880) | 57 | 133484 | | | 0.00- 30.00 | 879.28 |
| 31 MTBE | | | | | CAS #: 1634-04-4 | | |
| 14.187 | 14.187 (0.880) | 73 | 815478 | 10.1934 | 10.193 | 80.00- 120.00 | 100.00 |
| 14.187 | 14.187 (0.880) | 57 | 133484 | | | 0.00- 30.00 | 16.37 |
| 14.187 | 14.187 (0.880) | 41 | 125769 | | | 0.00- 30.00 | 15.42 |
| 32 trans-1,2-Dichloroethene | | | | | CAS #: 156-60-5 | | |
| 14.242 | 14.242 (0.883) | 98 | 177268 | 10.4889 | 10.489 | 80.00- 120.00 | 100.00 |
| 14.242 | 14.242 (0.883) | 61 | 366415 | | | 0.00- 30.00 | 206.70 |
| 14.242 | 14.242 (0.883) | 96 | 277340 | | | 0.00- 30.00 | 156.45 |
| 35 Hexane | | | | | CAS #: 110-54-3 | | |
| 14.517 | 14.517 (0.900) | 57 | 292928 | 10.0984 | 10.098 | 80.00- 120.00 | 100.00 |
| 14.517 | 14.517 (0.900) | 43 | 148890 | | | 0.00- 30.00 | 50.83 |
| 14.544 | 14.544 (0.902) | 86 | 71333 | | | 0.00- 30.00 | 24.35 |
| 37 1,1-Dichloroethane | | | | | CAS #: 75-34-3 | | |
| 14.928 | 14.928 (0.926) | 63 | 438450 | 9.17858 | 9.178 | 80.00- 120.00 | 100.00 |
| 14.928 | 14.956 (0.926) | 65 | 143644 | | | 0.00- 30.00 | 32.76 |
| 38 Vinyl Acetate | | | | | CAS #: 108-05-4 | | |
| 14.956 | 14.956 (0.927) | 86 | 68786 | 9.74683 | 9.747 | 80.00- 120.00 | 100.00 |
| 14.956 | 14.956 (0.927) | 42 | 44965 | | | 0.00- 30.00 | 65.37 |
| 14.956 | 14.956 (0.927) | 43 | 427863 | | | 0.00- 30.00 | 622.02 |
| 41 cis-1,2-Dichloroethene | | | | | CAS #: 156-59-2 | | |
| 15.787 | 15.787 (0.979) | 98 | 261233 | 10.2806 | 10.281 | 80.00- 120.00 | 100.00 |
| 15.766 | 15.766 (0.978) | 61 | 481601 | | | 0.00- 30.00 | 184.36 |
| 15.766 | 15.787 (0.978) | 96 | 402254 | | | 122.97- 182.97 | 153.98 |
| 42 2-Butanone | | | | | CAS #: 78-93-3 | | |
| 15.766 | 15.766 (0.978) | 72 | 168096 | 9.21579 | 9.216 | 80.00- 120.00 | 100.00 |
| 15.766 | 15.766 (0.978) | 43 | 471591 | | | 0.00- 30.00 | 280.55 |
| 15.766 | 15.766 (0.978) | 57 | 45518 | | | 0.00- 30.00 | 27.08 |
| 44 Tetrahydrofuran | | | | | CAS #: 109-99-9 | | |
| 16.127 | 16.128 (1.000) | 42 | 166819 | 9.17407 | 9.174 | 80.00- 120.00 | 100.00 |
| 16.127 | 16.128 (1.000) | 71 | 111604 | | | 0.00- 30.00 | 66.90 |
| 16.127 | 16.128 (1.000) | 72 | 128175 | | | 0.00- 30.00 | 76.83 |

| RT | EXP RT (REL RT) | MASS | RESPONSE | CONCENTRATIONS ON-COL ( PPBV) | FINAL ( PPBV) | TARGET RANGE | RATIO |
|---|---|---|---|---|---|---|---|
| 47 Chloroform | | | | | CAS #: 67-66-3 | | |
| 16.189 | 16.189 (1.004) | 83 | 674557 | 9.22501 | 9.225 | 80.00- 120.00 | 100.00 |
| 16.189 | 16.189 (1.004) | 85 | 435481 | | | 0.00- 30.00 | 64.56 |
| 48 Cyclohexane | | | | | CAS #: 110-82-7 | | |
| 16.466 | 16.467 (1.021) | 84 | 387683 | 9.92937 | 9.929 | 80.00- 120.00 | 100.00 |
| 16.466 | 16.467 (1.021) | 56 | 309258 | | | 0.00- 30.00 | 79.77 |
| 16.466 | 16.467 (1.021) | 41 | 162524 | | | 0.00- 30.00 | 41.92 |
| 49 1,1,1-Trichloroethane | | | | | CAS #: 71-55-6 | | |
| 16.466 | 16.467 (1.021) | 97 | 788465 | 9.43607 | 9.436 | 80.00- 120.00 | 100.00 |
| 16.466 | 16.467 (1.021) | 99 | 510689 | | | 0.00- 30.00 | 64.77 |
| 51 Carbon Tetrachloride | | | | | CAS #: 56-23-5 | | |
| 16.651 | 16.652 (1.032) | 119 | 441673 | 7.06436 | 7.064 | 80.00- 120.00 | 100.00 |
| 16.651 | 16.652 (1.032) | 117 | 451035 | | | 0.00- 30.00 | 102.12 |
| 52 2,2,4-Trimethylpentane | | | | | CAS #: 540-84-1 | | |
| 16.925 | 16.926 (1.049) | 56 | 398298 | 8.90520 | 8.905 | 80.00- 120.00 | 100.00 |
| 16.925 | 16.926 (1.049) | 57 | 1283482 | | | 0.00- 30.00 | 322.24 |
| 16.925 | 16.926 (1.049) | 41 | 353014 | | | 0.00- 30.00 | 88.63 |
| 53 Benzene | | | | | CAS #: 71-43-2 | | |
| 17.013 | 17.013 (0.967) | 78 | 812888 | 8.95799 | 8.958 | 80.00- 120.00 | 100.00 |
| 17.013 | 17.013 (0.967) | 77 | 189634 | | | 0.00- 30.00 | 23.33 |
| 56 1,2-Dichloroethane | | | | | CAS #: 107-06-2 | | |
| 17.129 | 17.130 (0.974) | 62 | 448916 | 8.77304 | 8.773 | 80.00- 120.00 | 100.00 |
| 17.129 | 17.130 (0.974) | 64 | 145700 | | | 0.00- 30.00 | 32.46 |
| 57 Heptane | | | | | CAS #: 142-82-5 | | |
| 17.159 | 17.159 (0.976) | 57 | 187952 | 10.0208 | 10.021 | 80.00- 120.00 | 100.00 |
| 17.159 | 17.159 (0.976) | 100 | 116791 | | | 0.00- 30.00 | 62.14 |
| 17.159 | 17.159 (0.976) | 43 | 277886 | | | 0.00- 30.00 | 147.85 |
| 59 Trichloroethene | | | | | CAS #: 79-01-6 | | |
| 18.025 | 18.025 (1.025) | 130 | 350039 | 8.73405 | 8.734 | 80.00- 120.00 | 100.00 |
| 18.025 | 18.025 (1.025) | 95 | 385424 | | | 0.00- 30.00 | 110.11 |
| 18.025 | 18.025 (1.025) | 97 | 253183 | | | 0.00- 30.00 | 72.33 |
| 60 Methylcyclohexane | | | | | CAS #: 108-87-2 | | |
| 18.272 | 18.272 (1.039) | 83 | 505866 | 9.77104 | 9.771 | 80.00- 120.00 | 100.00 |
| 18.272 | 18.272 (1.039) | 55 | 309611 | | | 0.00- 30.00 | 61.20 |
| 18.272 | 18.272 (1.039) | 56 | 92855 | | | 0.00- 30.00 | 18.36 |
| 61 1,2-Dichloropropane | | | | | CAS #: 78-87-5 | | |
| 18.519 | 18.519 (1.053) | 63 | 249277 | 8.93476 | 8.935 | 80.00- 120.00 | 100.00 |

| RT | EXP RT (REL RT) | MASS | RESPONSE | CONCENTRATIONS ON-COL ( PPBV) | FINAL ( PPBV) | TARGET RANGE | RATIO |
|---|---|---|---|---|---|---|---|
| 61 1,2-Dichloropropane (continued) | | | | | | | |
| 18.492 | 18.519 (1.052) | 62 | 173314 | | | 0.00- 30.00 | 69.53 |
| 18.492 | 18.492 (1.052) | 41 | 148571 | | | 28.17- 88.17 | 59.60 |
| 62 1,4-Dioxane | | | | | CAS #: 123-91-1 | | |
| 18.629 | 18.629 (1.059) | 88 | 199261 | 10.0147 | 10.015 | 80.00- 120.00 | 100.00 |
| 18.629 | 18.629 (1.059) | 58 | 109621 | | | 0.00- 30.00 | 55.01 |
| 18.629 | 18.629 (1.059) | 57 | 36968 | | | 0.00- 30.00 | 18.55 |
| 63 Bromodichloromethane | | | | | CAS #: 75-27-4 | | |
| 18.958 | 18.959 (1.078) | 83 | 714951 | 9.17349 | 9.173 | 80.00- 120.00 | 100.00 |
| 18.958 | 18.959 (1.078) | 85 | 453570 | | | 0.00- 30.00 | 63.44 |
| 64 cis-1,3-Dichloropropene | | | | | CAS #: 10061-01-5 | | |
| 19.865 | 19.865 (1.130) | 75 | 477797 | 9.89599 | 9.896 | 80.00- 120.00 | 100.00 |
| 19.865 | 19.865 (1.130) | 77 | 147838 | | | 0.00- 30.00 | 30.94 |
| 19.865 | 19.865 (1.130) | 39 | 187409 | | | 8.52- 68.52 | 39.22 |
| 65 4-Methyl-2-pentanone | | | | | CAS #: 108-10-1 | | |
| 20.076 | 20.076 (1.142) | 43 | 381312 | 10.5741 | 10.574 | 80.00- 120.00 | 100.00 |
| 20.076 | 20.076 (1.142) | 58 | 186085 | | | 0.00- 30.00 | 48.80 |
| 20.076 | 20.076 (1.142) | 85 | 114381 | | | 0.00- 30.00 | 30.00 |
| 68 Toluene | | | | | CAS #: 108-88-3 | | |
| 20.525 | 20.525 (1.167) | 91 | 989548 | 9.13840 | 9.138 | 80.00- 120.00 | 100.00 |
| 20.525 | 20.525 (1.167) | 92 | 588269 | | | 0.00- 30.00 | 59.45 |
| 69 trans-1,3-Dichloropropene | | | | | CAS #: 10061-02-6 | | |
| 20.995 | 20.995 (0.916) | 75 | 700704 | 10.9322 | 10.932 | 80.00- 120.00 | 100.00 |
| 20.995 | 20.995 (0.916) | 77 | 218951 | | | 0.00- 30.00 | 31.25 |
| 20.995 | 20.995 (0.916) | 39 | 182167 | | | 0.00- 56.18 | 26.00 |
| 70 1,1,2-Trichloroethane | | | | | CAS #: 79-00-5 | | |
| 21.335 | 21.335 (0.931) | 97 | 357876 | 9.26767 | 9.268 | 80.00- 120.00 | 100.00 |
| 21.335 | 21.335 (0.931) | 99 | 220750 | | | 0.00- 30.00 | 61.68 |
| 21.335 | 21.335 (0.931) | 83 | 296939 | | | 54.51- 114.51 | 82.97 |
| 71 Tetrachloroethene | | | | | CAS #: 127-18-4 | | |
| 21.497 | 21.497 (0.938) | 166 | 416795 | 9.29848 | 9.298 | 80.00- 120.00 | 100.00 |
| 21.497 | 21.497 (0.938) | 129 | 367644 | | | 0.00- 30.00 | 88.21 |
| 21.497 | 21.497 (0.938) | 131 | 342061 | | | 0.00- 30.00 | 82.07 |
| 72 2-Hexanone | | | | | CAS #: 591-78-6 | | |
| 21.660 | 21.660 (0.945) | 58 | 248735 | 10.1776 | 10.178 | 80.00- 120.00 | 100.00 |
| 21.660 | 21.660 (0.945) | 43 | 374541 | | | 0.00- 30.00 | 150.58 |
| 21.660 | 21.660 (0.945) | 100 | 69932 | | | 0.00- 30.00 | 28.12 |

| RT | EXP RT (REL RT) | MASS | RESPONSE | CONCENTRATIONS ON-COL ( PPBV) | CONCENTRATIONS FINAL ( PPBV) | TARGET RANGE | RATIO |
|---|---|---|---|---|---|---|---|
| 73 Dibromochloromethane | | | | | CAS #: 124-48-1 | | |
| 22.018 | 22.018 (0.960) | 129 | 656396 | 9.99038 | 9.990 | 80.00- 120.00 | 100.00 |
| 22.018 | 22.018 (0.960) | 127 | 502979 | | | 0.00- 30.00 | 76.63 |
| 74 1,2-Dibromoethane | | | | | CAS #: 106-93-4 | | |
| 22.278 | 22.278 (0.972) | 107 | 583039 | 9.84351 | 9.844 | 80.00- 120.00 | 100.00 |
| 22.278 | 22.278 (0.972) | 109 | 523188 | | | 0.00- 30.00 | 89.73 |
| 76 Chlorobenzene | | | | | CAS #: 108-90-7 | | |
| 22.951 | 22.951 (1.001) | 112 | 781087 | 9.16963 | 9.170 | 80.00- 120.00 | 100.00 |
| 22.951 | 22.951 (1.001) | 114 | 253361 | | | 0.00- 30.00 | 32.44 |
| 22.951 | 22.951 (1.001) | 77 | 512817 | | | 34.65- 94.65 | 65.65 |
| 77 Ethyl Benzene | | | | | CAS #: 100-41-4 | | |
| 23.023 | 23.023 (1.004) | 106 | 402680 | 9.67583 | 9.676 | 80.00- 120.00 | 100.00 |
| 23.023 | 23.023 (1.004) | 91 | 1415955 | | | 0.00- 30.00 | 351.63 |
| 80 m,p-Xylene | | | | | CAS #: 108-38-3 | | |
| 23.192 | 23.192 (1.012) | 106 | 512976 | 10.2443 | 10.244 | 80.00- 120.00 | 100.00 |
| 23.192 | 23.192 (1.012) | 91 | 1151681 | | | 0.00- 30.00 | 224.51 |
| 81 o-Xylene | | | | | CAS #: 95-47-6 | | |
| 23.770 | 23.770 (1.037) | 106 | 500563 | 10.3981 | 10.398 | 80.00- 120.00 | 100.00 |
| 23.770 | 23.770 (1.037) | 91 | 1186281 | | | 0.00- 30.00 | 236.99 |
| 83 Styrene | | | | | CAS #: 100-42-5 | | |
| 23.794 | 23.794 (1.038) | 104 | 756703 | 10.4133 | 10.413 | 80.00- 120.00 | 100.00 |
| 23.794 | 23.794 (1.038) | 78 | 454128 | | | 0.00- 30.00 | 60.01 |
| 84 Bromoform | | | | | CAS #: 75-25-2 | | |
| 24.131 | 24.132 (1.053) | 173 | 565661 | 9.95834 | 9.958 | 80.00- 120.00 | 100.00 |
| 24.131 | 24.132 (1.053) | 171 | 297316 | | | 0.00- 30.00 | 52.56 |
| 85 Cumene | | | | | CAS #: 98-82-8 | | |
| 24.228 | 24.228 (1.057) | 105 | 1642803 | 10.5396 | 10.540 | 80.00- 120.00 | 100.00 |
| 24.228 | 24.228 (1.057) | 120 | 391872 | | | 0.00- 30.00 | 23.85 |
| 89 1,1,2,2-Tetrachloroethane | | | | | CAS #: 79-34-5 | | |
| 24.680 | 24.680 (1.076) | 83 | 765017 | 9.49658 | 9.496 | 80.00- 120.00 | 100.00 |
| 24.680 | 24.680 (1.076) | 85 | 485252 | | | 0.00- 30.00 | 63.43 |
| 90 Propylbenzene | | | | | CAS #: 103-65-1 | | |
| 24.758 | 24.758 (1.080) | 91 | 1982282 | 9.92864 | 9.929 | 80.00- 120.00 | 100.00 |
| 24.758 | 24.758 (1.080) | 120 | 411201 | | | 0.00- 30.00 | 20.74 |
| 92 4-Ethyltoluene | | | | | CAS #: 622-96-8 | | |
| 24.886 | 24.887 (1.085) | 105 | 1658567 | 9.67445 | 9.674 | 80.00- 120.00 | 100.00 |

| RT | EXP RT (REL RT) | MASS | RESPONSE | CONCENTRATIONS ON-COL ( PPBV) | CONCENTRATIONS FINAL ( PPBV) | TARGET RANGE | RATIO |
|---|---|---|---|---|---|---|---|
| 92 4-Ethyltoluene (continued) | | | | | | | |
| 24.886 | 24.887 (1.085) | 120 | 449437 | | | 0.00- 30.00 | 27.10 |
| 94 1,3,5-Trimethylbenzene | | | | | CAS #: 108-67-8 | | |
| 24.938 | 24.938 (1.088) | 105 | 1464285 | 9.92301 | 9.923 | 80.00- 120.00 | 100.00 |
| 24.938 | 24.938 (1.088) | 120 | 630103 | | | 0.00- 30.00 | 43.03 |
| 98 1,2,4-Trimethylbenzene | | | | | CAS #: 95-63-6 | | |
| 25.410 | 25.410 (1.108) | 105 | 1352104 | 10.4084 | 10.408 | 80.00- 120.00 | 100.00 |
| 25.410 | 25.410 (1.108) | 120 | 548156 | | | 0.00- 30.00 | 40.54 |
| 101 1,3-Dichlorobenzene | | | | | CAS #: 541-73-1 | | |
| 25.791 | 25.791 (1.125) | 146 | 789434 | 9.58673 | 9.587 | 80.00- 120.00 | 100.00 |
| 25.791 | 25.791 (1.125) | 148 | 508348 | | | 0.00- 30.00 | 64.39 |
| 25.791 | 25.791 (1.125) | 111 | 377342 | | | 0.00- 30.00 | 47.80 |
| 104 1,4-Dichlorobenzene | | | | | CAS #: 106-46-7 | | |
| 25.903 | 25.903 (1.130) | 146 | 774897 | 9.40480 | 9.405 | 80.00- 120.00 | 100.00 |
| 25.903 | 25.903 (1.130) | 148 | 493142 | | | 0.00- 30.00 | 63.64 |
| 25.903 | 25.903 (1.130) | 111 | 357581 | | | 0.00- 30.00 | 46.15 |
| 105 alpha-chlorotoluene | | | | | CAS #: 100-44-7 | | |
| 26.060 | 26.060 (1.137) | 91 | 1239165 | 9.87384 | 9.874 | 80.00- 120.00 | 100.00 |
| 26.060 | 26.060 (1.137) | 126 | 211458 | | | 0.00- 30.00 | 17.06 |
| 108 1,2-Dichlorobenzene | | | | | CAS #: 95-50-1 | | |
| 26.352 | 26.352 (1.149) | 146 | 727380 | 9.31070 | 9.311 | 80.00- 120.00 | 100.00 |
| 26.352 | 26.352 (1.149) | 148 | 465863 | | | 34.68- 94.68 | 64.05 |
| 26.352 | 26.352 (1.149) | 111 | 363061 | | | 19.87- 79.87 | 49.91 |
| 112 1,2,4-Trichlorobenzene | | | | | CAS #: 120-82-1 | | |
| 28.145 | 28.145 (1.228) | 180 | 538922 | 10.5536 | 10.554 | 80.00- 120.00 | 100.00 |
| 28.145 | 28.145 (1.228) | 182 | 519972 | | | 0.00- 30.00 | 96.48 |
| 113 Hexachlorobutadiene | | | | | CAS #: 87-68-3 | | |
| 28.235 | 28.235 (1.232) | 225 | 460077 | 10.0840 | 10.084 | 80.00- 120.00 | 100.00 |
| 28.235 | 28.235 (1.232) | 223 | 284370 | | | 0.00- 30.00 | 61.81 |
| 114 Naphthalene | | | | | CAS #: 91-20-3 | | |
| 28.504 | 28.504 (1.243) | 128 | 88908 | 0.81769 | 0.8177 | 80.00- 120.00 | 100.00 |
| 28.504 | 28.504 (1.243) | 127 | 12462 | | | 0.00- 30.00 | 14.02 |

QC Flag Legend

R - Spike/Surrogate failed recovery limits.

Air Toxics Ltd.

EPA TO-15/Modified TO14A

Data file : /chem/msde.i/14Mar2012.b/e031404.d
Lab Smp Id: LCSD Client Smp ID: LCSD
Inj Date : 14-MAR-2012 09:39
Operator : LL Inst ID: msde.i
Smp Info : 50mL #2370-221; LCSD;LCSD
Misc Info : 10ppbv (50ppbv)
Comment : Low-Level/GC-MS
Method : /chem/msde.i/14Mar2012.b/e12l0308b.m
Meth Date : 14-Mar-2012 09:45 llarson Quant Type: ISTD
Cal Date : 10-MAR-2012 19:22 Cal File: e031014.d
Als bottle: 8 QC Sample: LCSD
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AT09.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

- NO TENTATIVELY IDENTIFIED COMPOUNDS -

Report Date: 14-Mar-2012 09:49

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msde.i
Lab File ID: e031404.d
Lab Smp Id: LCSD
Analysis Type: VOA
Quant Type: ISTD
Operator: LL
Method File: /chem/msde.i/14Mar2012.b/e12l0308b.m
Misc Info: 10ppbv (50ppbv)

Calibration Date: 14-MAR-2012
Calibration Time: 10:17
Client Smp ID: LCSD
Level: LOW
Sample Type: AIR

| | | AREA LIMIT | | | |
|---|---|---|---|---|---|
| COMPOUND | STANDARD | LOWER | UPPER | SAMPLE | %DIFF |
| 46 Bromochloromethan | 90443 | 54266 | 126620 | 89024 | -1.57 |
| 58 1,4-Difluorobenze | 374503 | 224702 | 524304 | 353753 | -5.54 |
| 75 Chlorobenzene-d5 | 310086 | 186052 | 434120 | 298888 | -3.61 |

| | | RT LIMIT | | | |
|---|---|---|---|---|---|
| COMPOUND | STANDARD | LOWER | UPPER | SAMPLE | %DIFF |
| 46 Bromochloromethan | 16.13 | 15.80 | 16.46 | 16.13 | 0.00 |
| 58 1,4-Difluorobenze | 17.59 | 17.26 | 17.92 | 17.59 | 0.00 |
| 75 Chlorobenzene-d5 | 22.93 | 22.60 | 23.26 | 22.93 | 0.00 |

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Data File: /chem/msde.i/14Mar2012.b/e031404.d

Page 1

Date : 14-MAR-2012 09:39

Client ID: LCSD

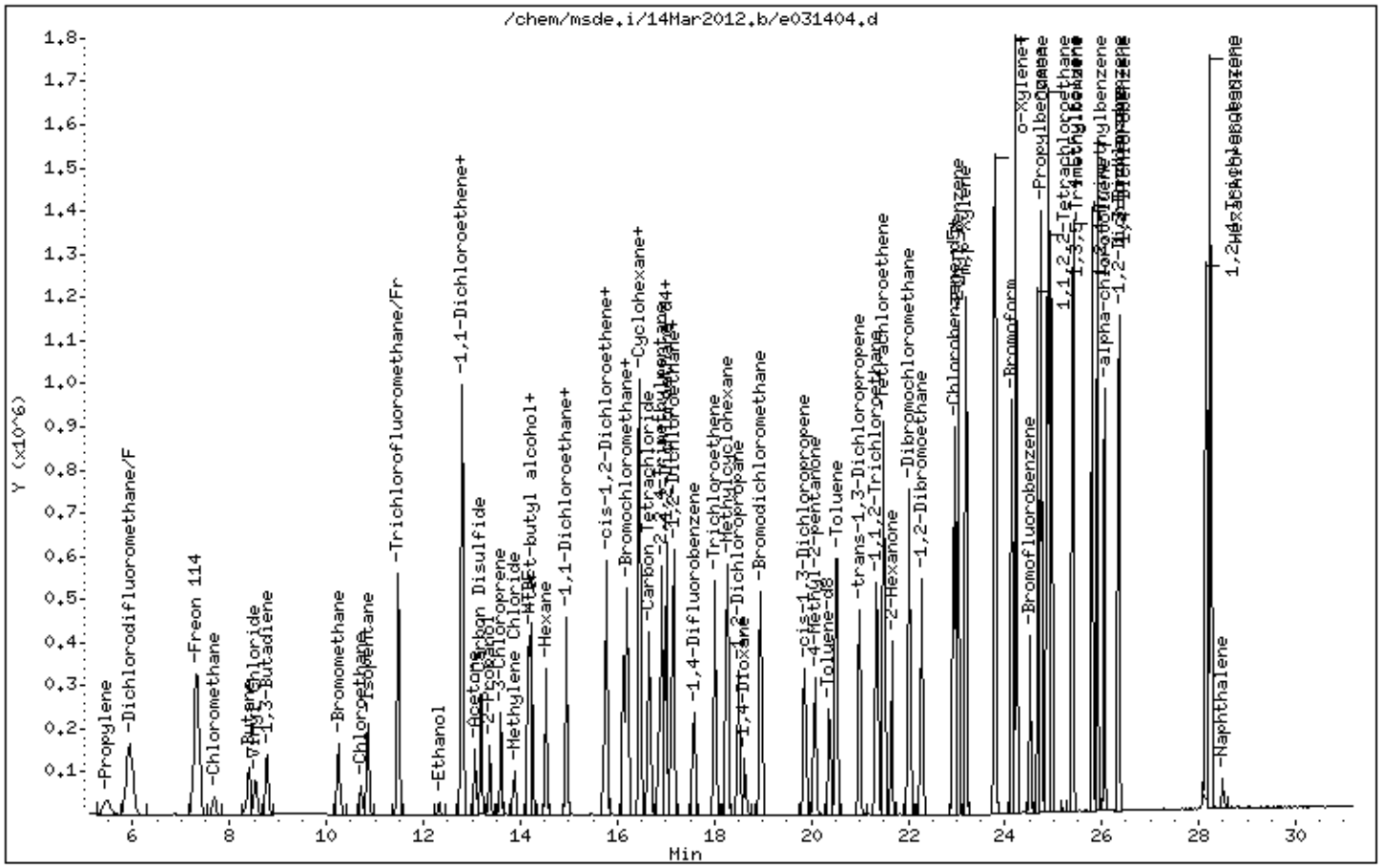
Instrument: msde.i

Sample Info: 50mL #2370-221; LCSD;LCSD

Operator: LL

Column phase: RTx-624

Column diameter: 0.32



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**Client Sample ID: LCS**

**Lab ID#: 1202444-06C**

**MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN**

| | | | |
|---|---|---|---|
| **File Name:** | **e032003** | **Date of Collection: NA** | |
| **Dil. Factor:** | **1.00** | **Date of Analysis: 3/20/12 11:04 AM** | |

| Compound | %Recovery |
|---|---|
| Freon 12 | 100 |
| Freon 114 | 104 |
| Chloromethane | 100 |
| Vinyl Chloride | 104 |
| 1,3-Butadiene | 104 |
| Bromomethane | 94 |
| Chloroethane | 102 |
| Freon 11 | 98 |
| Ethanol | 111 |
| Freon 113 | 104 |
| 1,1-Dichloroethene | 112 |
| Acetone | 93 |
| 2-Propanol | 104 |
| Carbon Disulfide | 114 |
| 3-Chloropropene | 121 |
| Methylene Chloride | 69 Q |
| Methyl tert-butyl ether | 112 |
| trans-1,2-Dichloroethene | 115 |
| Hexane | 105 |
| 1,1-Dichloroethane | 98 |
| 2-Butanone (Methyl Ethyl Ketone) | 105 |
| cis-1,2-Dichloroethene | 110 |
| Tetrahydrofuran | 94 |
| Chloroform | 100 |
| 1,1,1-Trichloroethane | 104 |
| Cyclohexane | 107 |
| Carbon Tetrachloride | 126 |
| 2,2,4-Trimethylpentane | 92 |
| Benzene | 98 |
| 1,2-Dichloroethane | 98 |
| Heptane | 106 |
| Trichloroethene | 98 |
| 1,2-Dichloropropane | 95 |
| 1,4-Dioxane | 110 |
| Bromodichloromethane | 104 |
| cis-1,3-Dichloropropene | 116 |
| 4-Methyl-2-pentanone | 115 |
| Toluene | 100 |
| trans-1,3-Dichloropropene | 92 |
| 1,1,2-Trichloroethane | 100 |
| Tetrachloroethene | 106 |
| 2-Hexanone | 109 |

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**Client Sample ID: LCS**

**Lab ID#: 1202444-06C**

**MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN**

| | | | |
|---|---|---|---|
| **File Name:** | **e032003** | **Date of Collection: NA** | |
| **Dil. Factor:** | **1.00** | **Date of Analysis: 3/20/12 11:04 AM** | |

| Compound | %Recovery |
|---|---|
| Dibromochloromethane | 115 |
| 1,2-Dibromoethane (EDB) | 107 |
| Chlorobenzene | 101 |
| Ethyl Benzene | 109 |
| m,p-Xylene | 114 |
| o-Xylene | 116 |
| Styrene | 116 |
| Bromoform | 120 |
| Cumene | 116 |
| 1,1,2,2-Tetrachloroethane | 100 |
| Propylbenzene | 109 |
| 4-Ethyltoluene | 106 |
| 1,3,5-Trimethylbenzene | 110 |
| 1,2,4-Trimethylbenzene | 115 |
| 1,3-Dichlorobenzene | 105 |
| 1,4-Dichlorobenzene | 102 |
| alpha-Chlorotoluene | 108 |
| 1,2-Dichlorobenzene | 102 |
| 1,2,4-Trichlorobenzene | 113 |
| Hexachlorobutadiene | 107 |
| 2,3-Dimethylpentane | Not Spiked |
| 2-Methylpentane | Not Spiked |
| Indene | Not Spiked |
| Indan | Not Spiked |
| Isopentane | 101 |
| Naphthalene | 91 |
| Thiophene | Not Spiked |

Q = Exceeds Quality Control limits.

**Container Type: NA - Not Applicable**

| Surrogates | %Recovery | Method Limits |
|---|---|---|
| 1,2-Dichloroethane-d4 | 95 | 70-130 |
| Toluene-d8 | 102 | 70-130 |
| 4-Bromofluorobenzene | 105 | 70-130 |

Report Date: 20-Mar-2012 10:44

Air Toxics Ltd.

RECOVERY REPORT

Client Name: Client SDG: 20Mar2012
Sample Matrix: GAS Fraction: VOA
Lab Smp Id: LCS Client Smp ID: LCS
Level: LOW Operator: ll
Data Type: MS DATA SampleType: LCS
SpikeList File: AT09.spk Quant Type: ISTD
Sublist File: AT09.sub
Method File: /chem/msde.i/20Mar2012.b/e12l0308c.m
Misc Info: 10ppbv (50ppbv)

| SPIKE COMPOUND | CONC ADDED PPBV | CONC RECOVERED PPBV | % RECOVERED | LIMITS |
|---|---|---|---|---|
| 4 Dichlorodifluorome | 10.000 | 10.009 | 100.09 | 70-130 |
| 2 Propylene | 10.000 | 7.906 | 79.06 | 60-140 |
| 6 Freon 114 | 10.000 | 10.418 | 104.18 | 70-130 |
| 7 Chloromethane | 10.000 | 10.026 | 100.26 | 70-130 |
| 10 Vinyl Chloride | 10.000 | 10.371 | 103.71 | 70-130 |
| 11 1,3-Butadiene | 10.000 | 10.364 | 103.64 | 60-140 |
| 12 Bromomethane | 10.000 | 9.380 | 93.80 | 70-130 |
| 13 Chloroethane | 10.000 | 10.254 | 102.54 | 70-130 |
| 16 Trichlorofluoromet | 10.000 | 9.824 | 98.25 | 70-130 |
| 18 Ethanol | 10.000 | 11.076 | 110.77 | 60-140 |
| 19 Freon 113 | 10.000 | 10.422 | 104.22 | 70-130 |
| 21 1,1-Dichloroethene | 10.000 | 11.210 | 112.10 | 70-130 |
| 22 Acetone | 10.000 | 9.306 | 93.07 | 60-140 |
| 23 Carbon Disulfide | 10.000 | 11.458 | 114.59 | 60-140 |
| 25 2-Propanol | 10.000 | 10.452 | 104.52 | 60-140 |
| 26 3-Chloroprene | 10.000 | 12.060 | 120.60 | 60-140 |
| 29 Methylene Chloride | 10.000 | 6.910 | 69.10* | 70-130 |
| 31 MTBE | 10.000 | 11.161 | 111.61 | 60-140 |
| 32 trans-1,2-Dichloro | 10.000 | 11.533 | 115.33 | 60-140 |
| 35 Hexane | 10.000 | 10.482 | 104.82 | 60-140 |
| 37 1,1-Dichloroethane | 10.000 | 9.830 | 98.30 | 70-130 |
| 38 Vinyl Acetate | 10.000 | 10.403 | 104.03 | 60-140 |
| 41 cis-1,2-Dichloroet | 10.000 | 10.980 | 109.80 | 70-130 |
| 42 2-Butanone | 10.000 | 10.472 | 104.72 | 60-140 |
| 44 Tetrahydrofuran | 10.000 | 9.419 | 94.19 | 60-140 |
| 47 Chloroform | 10.000 | 9.976 | 99.77 | 70-130 |
| 48 Cyclohexane | 10.000 | 10.685 | 106.85 | 60-140 |
| 49 1,1,1-Trichloroeth | 10.000 | 10.367 | 103.67 | 70-130 |
| 51 Carbon Tetrachlori | 10.000 | 12.604 | 126.04 | 70-130 |
| 52 2,2,4-Trimethylpen | 10.000 | 9.218 | 92.18 | 60-140 |
| 53 Benzene | 10.000 | 9.796 | 97.96 | 70-130 |
| 57 Heptane | 10.000 | 10.640 | 106.41 | 60-140 |
| 56 1,2-Dichloroethane | 10.000 | 9.807 | 98.07 | 70-130 |

| | SPIKE COMPOUND | CONC ADDED PPBV | CONC RECOVERED PPBV | % RECOVERED | LIMITS |
|---|---|---|---|---|---|
| 59 | Trichloroethene | 10.000 | 9.859 | 98.59 | 70-130 |
| 61 | 1,2-Dichloropropan | 10.000 | 9.494 | 94.94 | 70-130 |
| 62 | 1,4-Dioxane | 10.000 | 11.002 | 110.02 | 60-140 |
| 63 | Bromodichlorometha | 10.000 | 10.404 | 104.04 | 60-140 |
| 64 | cis-1,3-Dichloropr | 10.000 | 11.563 | 115.63 | 70-130 |
| 65 | 4-Methyl-2-pentano | 10.000 | 11.545 | 115.45 | 60-140 |
| 68 | Toluene | 10.000 | 10.054 | 100.54 | 70-130 |
| 69 | trans-1,3-Dichloro | 10.000 | 9.156 | 91.56 | 70-130 |
| 70 | 1,1,2-Trichloroeth | 10.000 | 9.987 | 99.87 | 70-130 |
| 72 | 2-Hexanone | 10.000 | 10.916 | 109.16 | 60-140 |
| 71 | Tetrachloroethene | 10.000 | 10.617 | 106.17 | 70-130 |
| 73 | Dibromochlorometha | 10.000 | 11.490 | 114.90 | 60-140 |
| 74 | 1,2-Dibromoethane | 10.000 | 10.665 | 106.65 | 70-130 |
| 76 | Chlorobenzene | 10.000 | 10.076 | 100.76 | 70-130 |
| 77 | Ethyl Benzene | 10.000 | 10.892 | 108.92 | 70-130 |
| 80 | m,p-Xylene | 10.000 | 11.427 | 114.27 | 70-130 |
| 81 | o-Xylene | 10.000 | 11.597 | 115.97 | 70-130 |
| 83 | Styrene | 10.000 | 11.582 | 115.82 | 70-130 |
| 84 | Bromoform | 10.000 | 11.984 | 119.85 | 60-140 |
| 85 | Cumene | 10.000 | 11.655 | 116.55 | 60-140 |
| 89 | 1,1,2,2-Tetrachlor | 10.000 | 9.982 | 99.82 | 70-130 |
| 90 | Propylbenzene | 10.000 | 10.864 | 108.64 | 70-130 |
| 92 | 4-Ethyltoluene | 10.000 | 10.636 | 106.36 | 60-140 |
| 94 | 1,3,5-Trimethylben | 10.000 | 10.977 | 109.77 | 70-130 |
| 98 | 1,2,4-Trimethylben | 10.000 | 11.480 | 114.80 | 70-130 |
| 101 | 1,3-Dichlorobenzen | 10.000 | 10.523 | 105.23 | 70-130 |
| 104 | 1,4-Dichlorobenzen | 10.000 | 10.176 | 101.76 | 70-130 |
| 105 | alpha-chlorotoluen | 10.000 | 10.750 | 107.50 | 70-130 |
| 108 | 1,2-Dichlorobenzen | 10.000 | 10.191 | 101.91 | 70-130 |
| 112 | 1,2,4-Trichloroben | 10.000 | 11.310 | 113.10 | 70-130 |
| 113 | Hexachlorobutadien | 10.000 | 10.748 | 107.49 | 70-130 |
| 114 | Naphthalene | 1.000 | 0.9103 | 91.03 | 60-140 |
| 14 | Isopentane | 10.000 | 10.083 | 100.83 | 60-140 |
| 9 | Butane | 10.000 | 11.399 | 113.99 | 60-140 |
| 60 | Methylcyclohexane | 10.000 | 10.688 | 106.89 | 60-140 |

| | SURROGATE COMPOUND | CONC ADDED PPBV | CONC RECOVERED PPBV | % RECOVERED | LIMITS |
|---|---|---|---|---|---|
| $ 54 | 1,2-Dichloroethane | 5.000 | 4.745 | 94.91 | 70-130 |
| $ 67 | Toluene-d8 | 5.000 | 5.077 | 101.54 | 70-130 |
| $ 87 | Bromofluorobenzene | 5.000 | 5.239 | 104.78 | 70-130 |

Air Toxics Ltd.

EPA TO-15/Modified TO14A

Data file : /chem/msde.i/20Mar2012.b/e032003.d
Lab Smp Id: LCS Client Smp ID: LCS
Inj Date : 20-MAR-2012 11:04
Operator : ll Inst ID: msde.i
Smp Info : 50mL #2730-226; LCS; LCS
Misc Info : 10ppbv (50ppbv)
Comment : Low-Level/GC-MS
Method : /chem/msde.i/20Mar2012.b/e12l0308c.m
Meth Date : 20-Mar-2012 09:50 llarson Quant Type: ISTD
Cal Date : 16-MAR-2012 11:53 Cal File: e031607.d
Als bottle: 4 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AT09.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

| Name | Value | Description |
|---|---|---|
| DF | 1.00000 | Dilution Factor |

| | | | | CONCENTRATIONS ON-COL | FINAL | | |
|---|---|---|---|---|---|---|---|
| RT | EXP RT (REL RT) | MASS | RESPONSE | ( PPBV) | ( PPBV) | TARGET RANGE | RATIO |
| * 46 Bromochloromethane | | | | | CAS #: 74-97-5 | | |
| 16.128 | 16.128 (1.000) | 130 | 100113 | 5.00000 | | 80.00- 120.00 | 100.00 |
| 16.128 | 16.128 (1.000) | 128 | 76640 | | | 0.00- 30.00 | 76.55 |
| 16.128 | 16.128 (1.000) | 49 | 142541 | | | 0.00- 30.00 | 142.38 |
| * 58 1,4-Difluorobenzene | | | | | CAS #: 540-36-3 | | |
| 17.586 | 17.586 (1.000) | 114 | 385229 | 5.00000 | | 80.00- 120.00 | 100.00 |
| 17.586 | 17.586 (1.000) | 88 | 66843 | | | 0.00- 30.00 | 17.35 |
| * 75 Chlorobenzene-d5 | | | | | CAS #: 3114-55-4 | | |
| 22.925 | 22.925 (1.000) | 117 | 329283 | 5.00000 | | 80.00- 120.00 | 100.00 |
| 22.925 | 22.925 (1.000) | 82 | 215735 | | | 0.00- 30.00 | 65.52 |
| $ 54 1,2-Dichloroethane-d4 | | | | | CAS #: 17060-07-0 | | |
| 17.013 | 17.013 (1.055) | 65 | 177040 | 4.74545 | 4.745 | 80.00- 120.00 | 100.00 |
| 17.013 | 17.013 (1.055) | 67 | 88750 | | | 0.00- 30.00 | 50.13 |

| RT | EXP RT (REL RT) | MASS | RESPONSE | CONCENTRATIONS ON-COL ( PPBV) | CONCENTRATIONS FINAL ( PPBV) | TARGET RANGE | RATIO |
|---|---|---|---|---|---|---|---|
| $ 67 Toluene-d8 | | | | | CAS #: 2037-26-5 | | |
| 20.368 | 20.368 (1.158) | 98 | 393948 | 5.07704 | 5.077 | 80.00- 120.00 | 100.00 |
| 20.368 | 20.368 (1.158) | 70 | 46246 | | | 0.00- 30.00 | 11.74 |
| 20.368 | 20.368 (1.158) | 100 | 248831 | | | 33.74- 93.74 | 63.16 |
| $ 87 Bromofluorobenzene | | | | | CAS #: 460-00-4 | | |
| 24.523 | 24.523 (1.070) | 174 | 197338 | 5.23878 | 5.239 | 80.00- 120.00 | 100.00 |
| 24.523 | 24.523 (1.070) | 95 | 309387 | | | 121.72- 181.72 | 156.78 |
| 24.523 | 24.523 (1.070) | 176 | 195640 | | | 65.45- 125.45 | 99.14 |
| 2 Propylene | | | | | CAS #: 115-07-1 | | |
| 5.449 | 5.473 (0.338) | 41 | 126169 | 7.90619 | 7.906 | 80.00- 120.00 | 100.00 |
| 5.473 | 5.449 (0.339) | 42 | 82365 | | | 0.00- 30.00 | 65.28 |
| 5.449 | 5.473 (0.338) | 39 | 111974 | | | 0.00- 30.00 | 88.75 |
| 4 Dichlorodifluoromethane/Fr12 | | | | | CAS #: 75-71-8 | | |
| 5.931 | 5.955 (0.368) | 85 | 1170921 | 10.0087 | 10.009 | 80.00- 120.00 | 100.00 |
| 5.931 | 5.955 (0.368) | 87 | 379128 | | | 2.47- 62.47 | 32.38 |
| 6 Freon 114 | | | | | CAS #: 76-14-2 | | |
| 7.329 | 7.329 (0.454) | 135 | 634153 | 10.4185 | 10.418 | 80.00- 120.00 | 100.00 |
| 7.329 | 7.329 (0.454) | 137 | 199093 | | | 0.00- 30.00 | 31.40 |
| 7 Chloromethane | | | | | CAS #: 74-87-3 | | |
| 7.691 | 7.691 (0.477) | 50 | 173350 | 10.0257 | 10.026 | 80.00- 120.00 | 100.00 |
| 7.691 | 7.691 (0.477) | 52 | 56842 | | | 0.00- 30.00 | 32.79 |
| 9 Butane | | | | | CAS #: 106-97-8 | | |
| 8.404 | 8.404 (0.521) | 58 | 67828 | 11.3986 | 11.399 | 80.00- 120.00 | 100.00 |
| 8.404 | 8.404 (0.521) | 43 | 338753 | | | 0.00- 30.00 | 499.43 |
| 10 Vinyl Chloride | | | | | CAS #: 75-01-4 | | |
| 8.543 | 8.543 (0.530) | 62 | 283042 | 10.3714 | 10.371 | 80.00- 120.00 | 100.00 |
| 8.543 | 8.543 (0.530) | 64 | 92284 | | | 2.81- 62.81 | 32.60 |
| 11 1,3-Butadiene | | | | | CAS #: 106-99-0 | | |
| 8.769 | 8.769 (0.544) | 54 | 177762 | 10.3636 | 10.364 | 80.00- 120.00 | 100.00 |
| 8.769 | 8.769 (0.544) | 39 | 162174 | | | 0.00- 30.00 | 91.23 |
| 12 Bromomethane | | | | | CAS #: 74-83-9 | | |
| 10.251 | 10.251 (0.636) | 94 | 283041 | 9.38016 | 9.380 | 80.00- 120.00 | 100.00 |
| 10.251 | 10.251 (0.636) | 96 | 277437 | | | 60.84- 120.84 | 98.02 |
| 13 Chloroethane | | | | | CAS #: 75-00-3 | | |
| 10.707 | 10.728 (0.664) | 64 | 149111 | 10.2541 | 10.254 | 80.00- 120.00 | 100.00 |
| 10.707 | 10.728 (0.664) | 49 | 33475 | | | 0.00- 30.00 | 22.45 |

| RT | EXP RT (REL RT) | MASS | RESPONSE | CONCENTRATIONS ON-COL ( PPBV) | FINAL ( PPBV) | TARGET RANGE | RATIO |
|---|---|---|---|---|---|---|---|
| 13 Chloroethane (continued) | | | | | | | |
| 10.707 | 10.707 (0.664) | 66 | 51165 | | | 0.00- 30.00 | 34.31 |
| 14 Isopentane | | | | | CAS #: 78-78-4 | | |
| 10.852 | 10.852 (0.673) | 57 | 185188 | 10.0829 | 10.083 | 80.00- 120.00 | 100.00 |
| 10.852 | 10.852 (0.673) | 43 | 201511 | | | 0.00- 30.00 | 108.81 |
| 10.852 | 10.852 (0.673) | 42 | 173350 | | | 0.00- 30.00 | 93.61 |
| 16 Trichlorofluoromethane/Fr11 | | | | | CAS #: 75-69-4 | | |
| 11.474 | 11.474 (0.711) | 101 | 1212128 | 9.82459 | 9.824 | 80.00- 120.00 | 100.00 |
| 11.474 | 11.474 (0.711) | 103 | 787657 | | | 34.63- 94.63 | 64.98 |
| 18 Ethanol | | | | | CAS #: 64-17-5 | | |
| 12.324 | 12.324 (0.764) | 45 | 71347 | 11.0765 | 11.076 | 80.00- 120.00 | 100.00 |
| 12.324 | 12.324 (0.764) | 46 | 24025 | | | 0.00- 30.00 | 33.67 |
| 12.324 | 12.324 (0.764) | 43 | 16459 | | | 0.00- 30.00 | 23.07 |
| 21 1,1-Dichloroethene | | | | | CAS #: 75-35-4 | | |
| 12.821 | 12.821 (0.795) | 98 | 198884 | 11.2098 | 11.210 | 80.00- 120.00 | 100.00 |
| 12.821 | 12.801 (0.795) | 61 | 483399 | | | 0.00- 30.00 | 243.06 |
| 12.821 | 12.821 (0.795) | 96 | 308071 | | | 0.00- 30.00 | 154.90 |
| 19 Freon 113 | | | | | CAS #: 76-13-1 | | |
| 12.780 | 12.780 (0.792) | 151 | 543755 | 10.4223 | 10.422 | 80.00- 120.00 | 100.00 |
| 12.780 | 12.780 (0.792) | 153 | 347659 | | | 34.56- 94.56 | 63.94 |
| 12.780 | 12.780 (0.792) | 101 | 710760 | | | 0.00- 30.00 | 130.71 |
| 22 Acetone | | | | | CAS #: 67-64-1 | | |
| 13.070 | 13.070 (0.810) | 58 | 105298 | 9.30655 | 9.306 | 80.00- 120.00 | 100.00 |
| 13.070 | 13.070 (0.810) | 43 | 352870 | | | 0.00- 30.00 | 335.12 |
| 23 Carbon Disulfide | | | | | CAS #: 75-15-0 | | |
| 13.194 | 13.174 (0.818) | 76 | 853042 | 11.4586 | 11.458 | 80.00- 120.00 | 100.00 |
| 26 3-Chloroprene | | | | | CAS #: 107-05-1 | | |
| 13.588 | 13.588 (0.843) | 76 | 132422 | 12.0597 | 12.060 | 80.00- 120.00 | 100.00 |
| 13.588 | 13.588 (0.843) | 41 | 217521 | | | 0.00- 30.00 | 164.26 |
| 25 2-Propanol | | | | | CAS #: 67-63-0 | | |
| 13.360 | 13.360 (0.828) | 45 | 319703 | 10.4518 | 10.452 | 80.00- 120.00 | 100.00 |
| 13.360 | 13.360 (0.828) | 43 | 87148 | | | 0.00- 30.00 | 27.26 |
| 13.360 | 13.360 (0.828) | 59 | 16237 | | | 0.00- 30.00 | 5.08 |
| 29 Methylene Chloride | | | | | CAS #: 75-09-2 | | |
| 13.885 | 13.885 (0.861) | 84 | 96510 | 6.91028 | 6.910 | 80.00- 120.00 | 100.00(R) |
| 13.885 | 13.885 (0.861) | 49 | 67538 | | | 0.00- 30.00 | 69.98 |

| RT | EXP RT (REL RT) | MASS | RESPONSE | CONCENTRATIONS ON-COL ( PPBV) | FINAL ( PPBV) | TARGET RANGE | RATIO |
|---|---|---|---|---|---|---|---|
| 29 Methylene Chloride (continued) | | | | | | | |
| 13.885 | 13.885 (0.861) | 51 | 22222 | | | 0.00- 30.00 | 23.03 |
| 30 tert-butyl alcohol | | | | | CAS #: 75-65-0 | | |
| 14.242 | 14.023 (0.883) | 59 | 19928 | 0.68712 | 0.6871 | 80.00- 120.00 | 100.00 |
| 14.187 | 14.023 (0.880) | 41 | 146508 | | | 0.00- 30.00 | 735.19 |
| 14.187 | 14.023 (0.880) | 57 | 159020 | | | 0.00- 30.00 | 797.97 |
| 31 MTBE | | | | | CAS #: 1634-04-4 | | |
| 14.187 | 14.187 (0.880) | 73 | 1004076 | 11.1606 | 11.161 | 80.00- 120.00 | 100.00 |
| 14.187 | 14.160 (0.880) | 57 | 159020 | | | 0.00- 30.00 | 15.84 |
| 14.187 | 14.160 (0.880) | 41 | 146515 | | | 0.00- 30.00 | 14.59 |
| 32 trans-1,2-Dichloroethene | | | | | CAS #: 156-60-5 | | |
| 14.242 | 14.242 (0.883) | 98 | 219195 | 11.5331 | 11.533 | 80.00- 120.00 | 100.00 |
| 14.242 | 14.242 (0.883) | 61 | 426231 | | | 0.00- 30.00 | 194.45 |
| 14.242 | 14.242 (0.883) | 96 | 330949 | | | 0.00- 30.00 | 150.98 |
| 35 Hexane | | | | | CAS #: 110-54-3 | | |
| 14.517 | 14.517 (0.900) | 57 | 341934 | 10.4821 | 10.482 | 80.00- 120.00 | 100.00 |
| 14.517 | 14.517 (0.900) | 43 | 171474 | | | 0.00- 30.00 | 50.15 |
| 14.517 | 14.517 (0.900) | 86 | 85979 | | | 0.00- 30.00 | 25.14 |
| 37 1,1-Dichloroethane | | | | | CAS #: 75-34-3 | | |
| 14.928 | 14.928 (0.926) | 63 | 528041 | 9.82969 | 9.830 | 80.00- 120.00 | 100.00 |
| 14.928 | 14.928 (0.926) | 65 | 167362 | | | 0.00- 30.00 | 31.69 |
| 38 Vinyl Acetate | | | | | CAS #: 108-05-4 | | |
| 14.956 | 14.956 (0.927) | 86 | 82562 | 10.4030 | 10.403 | 80.00- 120.00 | 100.00 |
| 14.956 | 14.956 (0.927) | 42 | 52678 | | | 0.00- 30.00 | 63.80 |
| 14.956 | 14.928 (0.927) | 43 | 503447 | | | 0.00- 30.00 | 609.78 |
| 41 cis-1,2-Dichloroethene | | | | | CAS #: 156-59-2 | | |
| 15.766 | 15.766 (0.978) | 98 | 313761 | 10.9801 | 10.980 | 80.00- 120.00 | 100.00 |
| 15.766 | 15.766 (0.978) | 61 | 569244 | | | 0.00- 30.00 | 181.43 |
| 15.766 | 15.766 (0.978) | 96 | 482130 | | | 126.85- 186.85 | 153.66 |
| 42 2-Butanone | | | | | CAS #: 78-93-3 | | |
| 15.766 | 15.766 (0.978) | 72 | 214795 | 10.4717 | 10.472 | 80.00- 120.00 | 100.00 |
| 15.766 | 15.766 (0.978) | 43 | 557149 | | | 0.00- 30.00 | 259.39 |
| 15.766 | 15.766 (0.978) | 57 | 56908 | | | 0.00- 30.00 | 26.49 |
| 44 Tetrahydrofuran | | | | | CAS #: 109-99-9 | | |
| 16.128 | 16.128 (1.000) | 42 | 192609 | 9.41910 | 9.419 | 80.00- 120.00 | 100.00 |
| 16.128 | 16.128 (1.000) | 71 | 134648 | | | 0.00- 30.00 | 69.91 |
| 16.128 | 16.128 (1.000) | 72 | 147477 | | | 0.00- 30.00 | 76.57 |

| RT | EXP RT (REL RT) | MASS | RESPONSE | CONCENTRATIONS ON-COL ( PPBV) | CONCENTRATIONS FINAL ( PPBV) | TARGET RANGE | RATIO |
|---|---|---|---|---|---|---|---|
| 47 Chloroform | | | | | CAS #: 67-66-3 | | |
| 16.189 | 16.189 (1.004) | 83 | 820380 | 9.97653 | 9.976 | 80.00- 120.00 | 100.00 |
| 16.189 | 16.189 (1.004) | 85 | 531631 | | | 0.00- 30.00 | 64.80 |
| 48 Cyclohexane | | | | | CAS #: 110-82-7 | | |
| 16.467 | 16.467 (1.021) | 84 | 469138 | 10.6847 | 10.685 | 80.00- 120.00 | 100.00 |
| 16.467 | 16.436 (1.021) | 56 | 364799 | | | 0.00- 30.00 | 77.76 |
| 16.436 | 16.436 (1.019) | 41 | 188592 | | | 0.00- 30.00 | 40.20 |
| 49 1,1,1-Trichloroethane | | | | | CAS #: 71-55-6 | | |
| 16.467 | 16.467 (1.021) | 97 | 974149 | 10.3669 | 10.367 | 80.00- 120.00 | 100.00 |
| 16.467 | 16.467 (1.021) | 99 | 623023 | | | 0.00- 30.00 | 63.96 |
| 51 Carbon Tetrachloride | | | | | CAS #: 56-23-5 | | |
| 16.652 | 16.652 (1.032) | 119 | 886184 | 12.6041 | 12.604 | 80.00- 120.00 | 100.00 |
| 16.652 | 16.652 (1.032) | 117 | 905169 | | | 0.00- 30.00 | 102.14 |
| 52 2,2,4-Trimethylpentane | | | | | CAS #: 540-84-1 | | |
| 16.926 | 16.926 (1.049) | 56 | 463668 | 9.21848 | 9.218 | 80.00- 120.00 | 100.00 |
| 16.926 | 16.926 (1.049) | 57 | 1481106 | | | 0.00- 30.00 | 319.43 |
| 16.926 | 16.926 (1.049) | 41 | 413955 | | | 0.00- 30.00 | 89.28 |
| 53 Benzene | | | | | CAS #: 71-43-2 | | |
| 17.013 | 17.013 (0.967) | 78 | 968046 | 9.79619 | 9.796 | 80.00- 120.00 | 100.00 |
| 17.013 | 17.013 (0.967) | 77 | 226081 | | | 0.00- 30.00 | 23.35 |
| 56 1,2-Dichloroethane | | | | | CAS #: 107-06-2 | | |
| 17.130 | 17.130 (0.974) | 62 | 546454 | 9.80663 | 9.807 | 80.00- 120.00 | 100.00 |
| 17.130 | 17.130 (0.974) | 64 | 180814 | | | 0.00- 30.00 | 33.09 |
| 57 Heptane | | | | | CAS #: 142-82-5 | | |
| 17.159 | 17.159 (0.976) | 57 | 217335 | 10.6406 | 10.640 | 80.00- 120.00 | 100.00 |
| 17.159 | 17.159 (0.976) | 100 | 140819 | | | 0.00- 30.00 | 64.79 |
| 17.159 | 17.159 (0.976) | 43 | 324010 | | | 0.00- 30.00 | 149.08 |
| 59 Trichloroethene | | | | | CAS #: 79-01-6 | | |
| 18.025 | 18.025 (1.025) | 130 | 430285 | 9.85908 | 9.859 | 80.00- 120.00 | 100.00 |
| 18.025 | 17.998 (1.025) | 95 | 480172 | | | 0.00- 30.00 | 111.59 |
| 18.025 | 18.025 (1.025) | 97 | 312317 | | | 0.00- 30.00 | 72.58 |
| 60 Methylcyclohexane | | | | | CAS #: 108-87-2 | | |
| 18.272 | 18.272 (1.039) | 83 | 602607 | 10.6886 | 10.688 | 80.00- 120.00 | 100.00 |
| 18.272 | 18.272 (1.039) | 55 | 368647 | | | 0.00- 30.00 | 61.18 |
| 18.272 | 18.272 (1.039) | 56 | 107695 | | | 0.00- 30.00 | 17.87 |
| 61 1,2-Dichloropropane | | | | | CAS #: 78-87-5 | | |
| 18.492 | 18.492 (1.052) | 63 | 288445 | 9.49391 | 9.494 | 80.00- 120.00 | 100.00 |

| RT | EXP RT (REL RT) | MASS | RESPONSE | CONCENTRATIONS ON-COL ( PPBV) | FINAL ( PPBV) | TARGET RANGE | RATIO |
|---|---|---|---|---|---|---|---|
| 61 1,2-Dichloropropane (continued) | | | | | | | |
| 18.492 | 18.492 (1.052) | 62 | 197619 | | | 0.00- 30.00 | 68.51 |
| 18.492 | 18.492 (1.052) | 41 | 175294 | | | 31.03- 91.03 | 60.77 |
| 62 1,4-Dioxane | | | | | CAS #: 123-91-1 | | |
| 18.629 | 18.629 (1.059) | 88 | 238381 | 11.0019 | 11.002 | 80.00- 120.00 | 100.00 |
| 18.629 | 18.629 (1.059) | 58 | 128469 | | | 0.00- 30.00 | 53.89 |
| 18.629 | 18.629 (1.059) | 57 | 42999 | | | 0.00- 30.00 | 18.04 |
| 63 Bromodichloromethane | | | | | CAS #: 75-27-4 | | |
| 18.959 | 18.959 (1.078) | 83 | 883006 | 10.4041 | 10.404 | 80.00- 120.00 | 100.00 |
| 18.959 | 18.959 (1.078) | 85 | 561802 | | | 0.00- 30.00 | 63.62 |
| 64 cis-1,3-Dichloropropene | | | | | CAS #: 10061-01-5 | | |
| 19.865 | 19.865 (1.130) | 75 | 607961 | 11.5631 | 11.563 | 80.00- 120.00 | 100.00 |
| 19.865 | 19.865 (1.130) | 77 | 190747 | | | 0.00- 30.00 | 31.37 |
| 19.865 | 19.865 (1.130) | 39 | 255525 | | | 10.14- 70.14 | 42.03 |
| 65 4-Methyl-2-pentanone | | | | | CAS #: 108-10-1 | | |
| 20.076 | 20.076 (1.142) | 43 | 453377 | 11.5453 | 11.545 | 80.00- 120.00 | 100.00 |
| 20.076 | 20.076 (1.142) | 58 | 221002 | | | 0.00- 30.00 | 48.75 |
| 20.076 | 20.076 (1.142) | 85 | 139398 | | | 0.00- 30.00 | 30.75 |
| 68 Toluene | | | | | CAS #: 108-88-3 | | |
| 20.502 | 20.502 (1.166) | 91 | 1185548 | 10.0539 | 10.054 | 80.00- 120.00 | 100.00 |
| 20.502 | 20.502 (1.166) | 92 | 704618 | | | 0.00- 30.00 | 59.43 |
| 69 trans-1,3-Dichloropropene | | | | | CAS #: 10061-02-6 | | |
| 20.995 | 20.995 (0.916) | 75 | 646504 | 9.15555 | 9.156 | 80.00- 120.00 | 100.00 |
| 20.995 | 20.995 (0.916) | 77 | 202216 | | | 0.00- 30.00 | 31.28 |
| 20.995 | 20.995 (0.916) | 39 | 222513 | | | 4.11- 64.11 | 34.42 |
| 70 1,1,2-Trichloroethane | | | | | CAS #: 79-00-5 | | |
| 21.335 | 21.335 (0.931) | 97 | 424874 | 9.98705 | 9.987 | 80.00- 120.00 | 100.00 |
| 21.335 | 21.335 (0.931) | 99 | 266894 | | | 0.00- 30.00 | 62.82 |
| 21.335 | 21.335 (0.931) | 83 | 352255 | | | 53.21- 113.21 | 82.91 |
| 71 Tetrachloroethene | | | | | CAS #: 127-18-4 | | |
| 21.497 | 21.497 (0.938) | 166 | 524276 | 10.6167 | 10.617 | 80.00- 120.00 | 100.00 |
| 21.497 | 21.497 (0.938) | 129 | 449829 | | | 0.00- 30.00 | 85.80 |
| 21.497 | 21.497 (0.938) | 131 | 427123 | | | 0.00- 30.00 | 81.47 |
| 72 2-Hexanone | | | | | CAS #: 591-78-6 | | |
| 21.660 | 21.660 (0.945) | 58 | 293899 | 10.9156 | 10.916 | 80.00- 120.00 | 100.00 |
| 21.660 | 21.660 (0.945) | 43 | 446817 | | | 0.00- 30.00 | 152.03 |
| 21.660 | 21.660 (0.945) | 100 | 89645 | | | 0.00- 30.00 | 30.50 |

| RT | EXP RT (REL RT) | MASS | RESPONSE | CONCENTRATIONS ON-COL ( PPBV) | CONCENTRATIONS FINAL ( PPBV) | TARGET RANGE | RATIO |
|---|---|---|---|---|---|---|---|
| 73 Dibromochloromethane | | | | | CAS #: 124-48-1 | | |
| 22.018 | 22.018 (0.960) | 129 | 831665 | 11.4896 | 11.490 | 80.00- 120.00 | 100.00 |
| 22.018 | 22.018 (0.960) | 127 | 646484 | | | 0.00- 30.00 | 77.73 |
| 74 1,2-Dibromoethane | | | | | CAS #: 106-93-4 | | |
| 22.278 | 22.278 (0.972) | 107 | 695956 | 10.6653 | 10.665 | 80.00- 120.00 | 100.00 |
| 22.278 | 22.278 (0.972) | 109 | 636280 | | | 0.00- 30.00 | 91.43 |
| 76 Chlorobenzene | | | | | CAS #: 108-90-7 | | |
| 22.949 | 22.949 (1.001) | 112 | 945536 | 10.0756 | 10.076 | 80.00- 120.00 | 100.00 |
| 22.949 | 22.949 (1.001) | 114 | 308705 | | | 0.00- 30.00 | 32.65 |
| 22.949 | 22.949 (1.001) | 77 | 613161 | | | 33.86- 93.86 | 64.85 |
| 77 Ethyl Benzene | | | | | CAS #: 100-41-4 | | |
| 23.021 | 23.021 (1.004) | 106 | 499389 | 10.8920 | 10.892 | 80.00- 120.00 | 100.00 |
| 23.021 | 23.021 (1.004) | 91 | 1713745 | | | 0.00- 30.00 | 343.17 |
| 80 m,p-Xylene | | | | | CAS #: 108-38-3 | | |
| 23.190 | 23.190 (1.012) | 106 | 630373 | 11.4267 | 11.427 | 80.00- 120.00 | 100.00 |
| 23.190 | 23.190 (1.012) | 91 | 1420959 | | | 0.00- 30.00 | 225.42 |
| 81 o-Xylene | | | | | CAS #: 95-47-6 | | |
| 23.768 | 23.768 (1.037) | 106 | 615072 | 11.5974 | 11.597 | 80.00- 120.00 | 100.00 |
| 23.768 | 23.768 (1.037) | 91 | 1442893 | | | 0.00- 30.00 | 234.59 |
| 83 Styrene | | | | | CAS #: 100-42-5 | | |
| 23.816 | 23.816 (1.039) | 104 | 927233 | 11.5822 | 11.582 | 80.00- 120.00 | 100.00 |
| 23.792 | 23.792 (1.038) | 78 | 561526 | | | 0.00- 30.00 | 60.56 |
| 84 Bromoform | | | | | CAS #: 75-25-2 | | |
| 24.129 | 24.129 (1.053) | 173 | 749985 | 11.9846 | 11.984 | 80.00- 120.00 | 100.00 |
| 24.129 | 24.129 (1.053) | 171 | 384820 | | | 0.00- 30.00 | 51.31 |
| 85 Cumene | | | | | CAS #: 98-82-8 | | |
| 24.226 | 24.226 (1.057) | 105 | 2001419 | 11.6550 | 11.655 | 80.00- 120.00 | 100.00 |
| 24.226 | 24.226 (1.057) | 120 | 471565 | | | 0.00- 30.00 | 23.56 |
| 89 1,1,2,2-Tetrachloroethane | | | | | CAS #: 79-34-5 | | |
| 24.678 | 24.678 (1.076) | 83 | 885914 | 9.98221 | 9.982 | 80.00- 120.00 | 100.00 |
| 24.678 | 24.678 (1.076) | 85 | 560117 | | | 0.00- 30.00 | 63.22 |
| 90 Propylbenzene | | | | | CAS #: 103-65-1 | | |
| 24.755 | 24.755 (1.080) | 91 | 2389615 | 10.8640 | 10.864 | 80.00- 120.00 | 100.00 |
| 24.755 | 24.755 (1.080) | 120 | 497729 | | | 0.00- 30.00 | 20.83 |
| 92 4-Ethyltoluene | | | | | CAS #: 622-96-8 | | |
| 24.884 | 24.884 (1.085) | 105 | 2008795 | 10.6358 | 10.636 | 80.00- 120.00 | 100.00 |

| RT | EXP RT (REL RT) | MASS | RESPONSE | CONCENTRATIONS ON-COL ( PPBV) | CONCENTRATIONS FINAL ( PPBV) | TARGET RANGE | RATIO |
|---|---|---|---|---|---|---|---|
| 92 4-Ethyltoluene (continued) | | | | | | | |
| 24.884 | 24.884 (1.085) | 120 | 547278 | | | 0.00- 30.00 | 27.24 |
| 94 1,3,5-Trimethylbenzene | | | | | CAS #: 108-67-8 | | |
| 24.936 | 24.936 (1.088) | 105 | 1784621 | 10.9775 | 10.977 | 80.00- 120.00 | 100.00 |
| 24.962 | 24.962 (1.089) | 120 | 765147 | | | 0.00- 30.00 | 42.87 |
| 98 1,2,4-Trimethylbenzene | | | | | CAS #: 95-63-6 | | |
| 25.408 | 25.408 (1.108) | 105 | 1642907 | 11.4795 | 11.480 | 80.00- 120.00 | 100.00 |
| 25.408 | 25.408 (1.108) | 120 | 665013 | | | 0.00- 30.00 | 40.48 |
| 101 1,3-Dichlorobenzene | | | | | CAS #: 541-73-1 | | |
| 25.789 | 25.789 (1.125) | 146 | 954649 | 10.5230 | 10.523 | 80.00- 120.00 | 100.00 |
| 25.789 | 25.789 (1.125) | 148 | 605446 | | | 0.00- 30.00 | 63.42 |
| 25.789 | 25.789 (1.125) | 111 | 454947 | | | 0.00- 30.00 | 47.66 |
| 104 1,4-Dichlorobenzene | | | | | CAS #: 106-46-7 | | |
| 25.901 | 25.901 (1.130) | 146 | 923713 | 10.1761 | 10.176 | 80.00- 120.00 | 100.00 |
| 25.901 | 25.901 (1.130) | 148 | 592120 | | | 0.00- 30.00 | 64.10 |
| 25.901 | 25.901 (1.130) | 111 | 429661 | | | 0.00- 30.00 | 46.51 |
| 105 alpha-chlorotoluene | | | | | CAS #: 100-44-7 | | |
| 26.058 | 26.058 (1.137) | 91 | 1486342 | 10.7502 | 10.750 | 80.00- 120.00 | 100.00 |
| 26.058 | 26.058 (1.137) | 126 | 256048 | | | 0.00- 30.00 | 17.23 |
| 108 1,2-Dichlorobenzene | | | | | CAS #: 95-50-1 | | |
| 26.349 | 26.349 (1.149) | 146 | 877114 | 10.1910 | 10.191 | 80.00- 120.00 | 100.00 |
| 26.349 | 26.349 (1.149) | 148 | 562725 | | | 33.82- 93.82 | 64.16 |
| 26.349 | 26.349 (1.149) | 111 | 434728 | | | 19.39- 79.39 | 49.56 |
| 112 1,2,4-Trichlorobenzene | | | | | CAS #: 120-82-1 | | |
| 28.143 | 28.143 (1.228) | 180 | 636258 | 11.3096 | 11.310 | 80.00- 120.00 | 100.00 |
| 28.143 | 28.143 (1.228) | 182 | 603326 | | | 0.00- 30.00 | 94.82 |
| 113 Hexachlorobutadiene | | | | | CAS #: 87-68-3 | | |
| 28.232 | 28.232 (1.232) | 225 | 540267 | 10.7486 | 10.748 | 80.00- 120.00 | 100.00 |
| 28.232 | 28.232 (1.232) | 223 | 347603 | | | 0.00- 30.00 | 64.34 |
| 114 Naphthalene | | | | | CAS #: 91-20-3 | | |
| 28.501 | 28.501 (1.243) | 128 | 109048 | 0.91034 | 0.9103 | 80.00- 120.00 | 100.00 |
| 28.501 | 28.501 (1.243) | 127 | 14318 | | | 0.00- 30.00 | 13.13 |

QC Flag Legend

R - Spike/Surrogate failed recovery limits.

Air Toxics Ltd.

EPA TO-15/Modified TO14A

Data file : /chem/msde.i/20Mar2012.b/e032003.d
Lab Smp Id: LCS Client Smp ID: LCS
Inj Date : 20-MAR-2012 11:04
Operator : ll Inst ID: msde.i
Smp Info : 50mL #2730-226; LCS; LCS
Misc Info : 10ppbv (50ppbv)
Comment : Low-Level/GC-MS
Method : /chem/msde.i/20Mar2012.b/e12l0308c.m
Meth Date : 20-Mar-2012 09:50 llarson Quant Type: ISTD
Cal Date : 16-MAR-2012 11:53 Cal File: e031607.d
Als bottle: 4 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AT09.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

- NO TENTATIVELY IDENTIFIED COMPOUNDS -

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msde.i
Lab File ID: e032003.d
Lab Smp Id: LCS
Analysis Type: VOA
Quant Type: ISTD
Operator: ll
Method File: /chem/msde.i/20Mar2012.b/e12l0308c.m
Misc Info: 10ppbv (50ppbv)

Calibration Date: 20-MAR-2012
Calibration Time: 10:17
Client Smp ID: LCS
Level: LOW
Sample Type: AIR

| | | AREA LIMIT | | | |
|---|---|---|---|---|---|
| COMPOUND | STANDARD | LOWER | UPPER | SAMPLE | %DIFF |
| 46 Bromochloromethan | 103496 | 62098 | 144894 | 100113 | -3.27 |
| 58 1,4-Difluorobenze | 407788 | 244673 | 570903 | 385229 | -5.53 |
| 75 Chlorobenzene-d5 | 335497 | 201298 | 469696 | 329283 | -1.85 |

| | | RT LIMIT | | | |
|---|---|---|---|---|---|
| COMPOUND | STANDARD | LOWER | UPPER | SAMPLE | %DIFF |
| 46 Bromochloromethan | 16.13 | 15.80 | 16.46 | 16.13 | 0.00 |
| 58 1,4-Difluorobenze | 17.59 | 17.26 | 17.92 | 17.59 | 0.00 |
| 75 Chlorobenzene-d5 | 22.92 | 22.59 | 23.25 | 22.92 | 0.00 |

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

A-

Data File: /chem/msde.i/20Mar2012.b/e032003.d



Date : 20-MAR-2012 11:04

Client ID: LCS

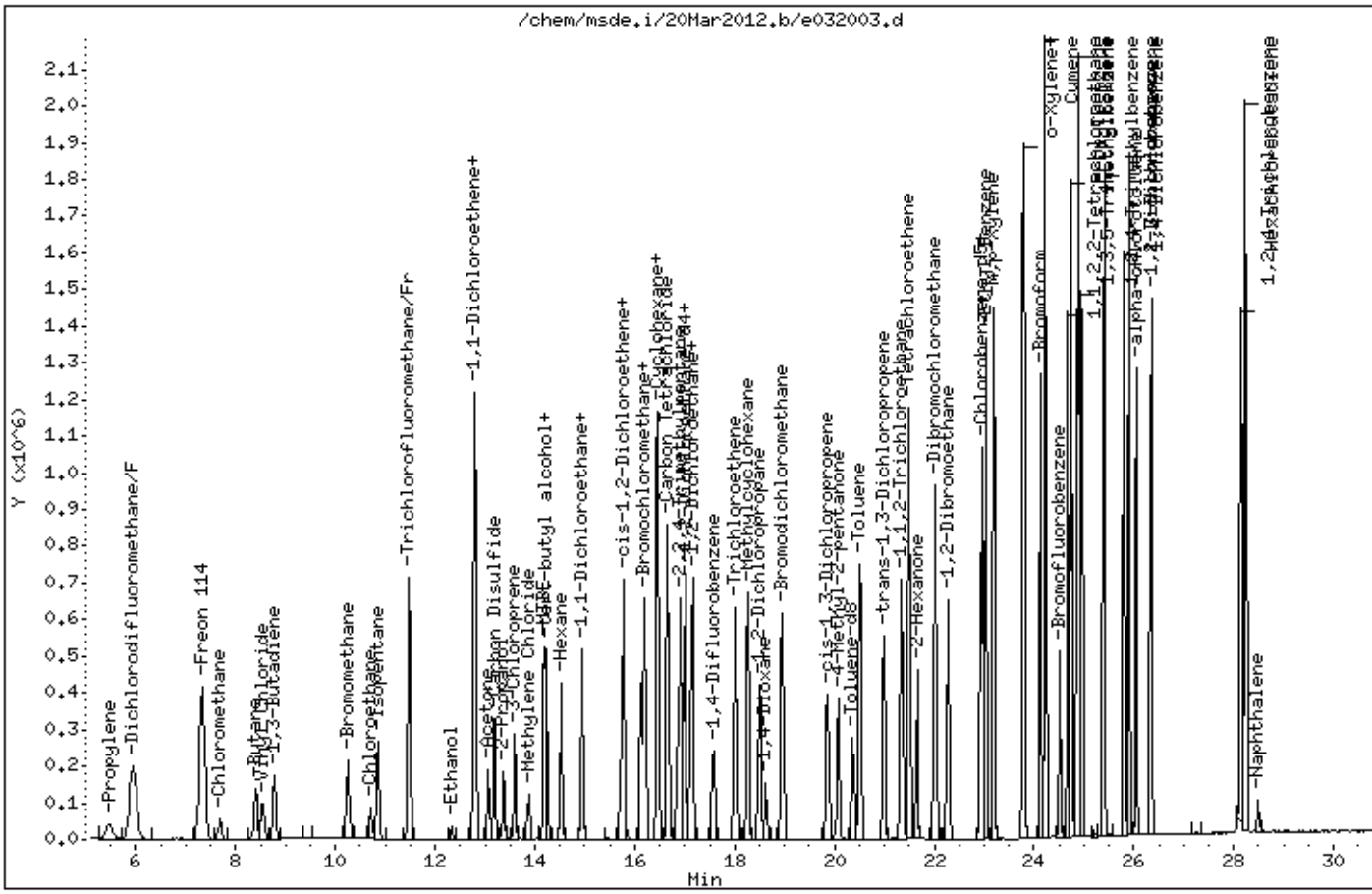
Instrument: msde.i

Sample Info: 50mL #2730-226; LCS; LCS

Operator: ll

Column phase: RTx-624

Column diameter: 0.32



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**Client Sample ID: LCSD**

**Lab ID#: 1202444-06CC**

**MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN**

| | | | |
|---|---|---|---|
| **File Name:** | **e032004** | **Date of Collection: NA** | |
| **Dil. Factor:** | **1.00** | **Date of Analysis: 3/20/12 11:55 AM** | |

| Compound | %Recovery |
|---|---|
| Freon 12 | 103 |
| Freon 114 | 107 |
| Chloromethane | 100 |
| Vinyl Chloride | 106 |
| 1,3-Butadiene | 105 |
| Bromomethane | 90 |
| Chloroethane | 99 |
| Freon 11 | 102 |
| Ethanol | 100 |
| Freon 113 | 104 |
| 1,1-Dichloroethene | 111 |
| Acetone | 95 |
| 2-Propanol | 109 |
| Carbon Disulfide | 118 |
| 3-Chloropropene | 124 |
| Methylene Chloride | 72 |
| Methyl tert-butyl ether | 114 |
| trans-1,2-Dichloroethene | 115 |
| Hexane | 103 |
| 1,1-Dichloroethane | 101 |
| 2-Butanone (Methyl Ethyl Ketone) | 108 |
| cis-1,2-Dichloroethene | 108 |
| Tetrahydrofuran | 95 |
| Chloroform | 101 |
| 1,1,1-Trichloroethane | 106 |
| Cyclohexane | 107 |
| Carbon Tetrachloride | 127 |
| 2,2,4-Trimethylpentane | 90 |
| Benzene | 99 |
| 1,2-Dichloroethane | 104 |
| Heptane | 106 |
| Trichloroethene | 100 |
| 1,2-Dichloropropane | 99 |
| 1,4-Dioxane | 112 |
| Bromodichloromethane | 108 |
| cis-1,3-Dichloropropene | 115 |
| 4-Methyl-2-pentanone | 117 |
| Toluene | 102 |
| trans-1,3-Dichloropropene | 92 |
| 1,1,2-Trichloroethane | 99 |
| Tetrachloroethene | 102 |
| 2-Hexanone | 107 |

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**Client Sample ID: LCSD**

**Lab ID#: 1202444-06CC**

**MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN**

| | | | |
|---|---|---|---|
| **File Name:** | **e032004** | **Date of Collection: NA** | |
| **Dil. Factor:** | **1.00** | **Date of Analysis: 3/20/12 11:55 AM** | |

| Compound | %Recovery |
|---|---|
| Dibromochloromethane | 115 |
| 1,2-Dibromoethane (EDB) | 108 |
| Chlorobenzene | 99 |
| Ethyl Benzene | 105 |
| m,p-Xylene | 114 |
| o-Xylene | 115 |
| Styrene | 114 |
| Bromoform | 119 |
| Cumene | 116 |
| 1,1,2,2-Tetrachloroethane | 99 |
| Propylbenzene | 108 |
| 4-Ethyltoluene | 106 |
| 1,3,5-Trimethylbenzene | 109 |
| 1,2,4-Trimethylbenzene | 115 |
| 1,3-Dichlorobenzene | 103 |
| 1,4-Dichlorobenzene | 102 |
| alpha-Chlorotoluene | 108 |
| 1,2-Dichlorobenzene | 101 |
| 1,2,4-Trichlorobenzene | 110 |
| Hexachlorobutadiene | 104 |
| 2,3-Dimethylpentane | Not Spiked |
| 2-Methylpentane | Not Spiked |
| Indene | Not Spiked |
| Indan | Not Spiked |
| Isopentane | 102 |
| Naphthalene | 88 |
| Thiophene | Not Spiked |

**Container Type: NA - Not Applicable**

| Surrogates | %Recovery | Method Limits |
|---|---|---|
| 1,2-Dichloroethane-d4 | 100 | 70-130 |
| Toluene-d8 | 102 | 70-130 |
| 4-Bromofluorobenzene | 107 | 70-130 |

Report Date: 20-Mar-2012 11:23

Air Toxics Ltd.

RECOVERY REPORT

Client Name: Client SDG: 20Mar2012
Sample Matrix: GAS Fraction: VOA
Lab Smp Id: LCSD Client Smp ID: LCSD
Level: LOW Operator: ll
Data Type: MS DATA SampleType: LCSD
SpikeList File: AT09.spk Quant Type: ISTD
Sublist File: AT09.sub
Method File: /chem/msde.i/20Mar2012.b/e12l0308c.m
Misc Info: 10ppbv (50ppbv)

| SPIKE COMPOUND | CONC ADDED PPBV | CONC RECOVERED PPBV | % RECOVERED | LIMITS |
|---|---|---|---|---|
| 4 Dichlorodifluorome | 10.000 | 10.308 | 103.08 | 70-130 |
| 2 Propylene | 10.000 | 8.136 | 81.36 | 60-140 |
| 6 Freon 114 | 10.000 | 10.744 | 107.44 | 70-130 |
| 7 Chloromethane | 10.000 | 10.033 | 100.33 | 70-130 |
| 10 Vinyl Chloride | 10.000 | 10.656 | 106.56 | 70-130 |
| 11 1,3-Butadiene | 10.000 | 10.463 | 104.63 | 60-140 |
| 12 Bromomethane | 10.000 | 8.968 | 89.68 | 70-130 |
| 13 Chloroethane | 10.000 | 9.949 | 99.49 | 70-130 |
| 16 Trichlorofluoromet | 10.000 | 10.157 | 101.57 | 70-130 |
| 18 Ethanol | 10.000 | 9.950 | 99.50 | 60-140 |
| 19 Freon 113 | 10.000 | 10.453 | 104.53 | 70-130 |
| 21 1,1-Dichloroethene | 10.000 | 11.139 | 111.39 | 70-130 |
| 22 Acetone | 10.000 | 9.519 | 95.19 | 60-140 |
| 23 Carbon Disulfide | 10.000 | 11.792 | 117.92 | 60-140 |
| 25 2-Propanol | 10.000 | 10.875 | 108.75 | 60-140 |
| 26 3-Chloroprene | 10.000 | 12.382 | 123.82 | 60-140 |
| 29 Methylene Chloride | 10.000 | 7.181 | 71.81 | 70-130 |
| 31 MTBE | 10.000 | 11.359 | 113.59 | 60-140 |
| 32 trans-1,2-Dichloro | 10.000 | 11.468 | 114.68 | 60-140 |
| 35 Hexane | 10.000 | 10.314 | 103.15 | 60-140 |
| 37 1,1-Dichloroethane | 10.000 | 10.136 | 101.36 | 70-130 |
| 38 Vinyl Acetate | 10.000 | 10.853 | 108.53 | 60-140 |
| 41 cis-1,2-Dichloroet | 10.000 | 10.766 | 107.66 | 70-130 |
| 42 2-Butanone | 10.000 | 10.820 | 108.20 | 60-140 |
| 44 Tetrahydrofuran | 10.000 | 9.485 | 94.85 | 60-140 |
| 47 Chloroform | 10.000 | 10.109 | 101.09 | 70-130 |
| 48 Cyclohexane | 10.000 | 10.738 | 107.38 | 60-140 |
| 49 1,1,1-Trichloroeth | 10.000 | 10.610 | 106.10 | 70-130 |
| 51 Carbon Tetrachlori | 10.000 | 12.733 | 127.33 | 70-130 |
| 52 2,2,4-Trimethylpen | 10.000 | 9.042 | 90.42 | 60-140 |
| 53 Benzene | 10.000 | 9.933 | 99.33 | 70-130 |
| 57 Heptane | 10.000 | 10.657 | 106.57 | 60-140 |
| 56 1,2-Dichloroethane | 10.000 | 10.393 | 103.93 | 70-130 |

| SPIKE COMPOUND | CONC ADDED PPBV | CONC RECOVERED PPBV | % RECOVERED | LIMITS |
|---|---|---|---|---|
| 59 Trichloroethene | 10.000 | 10.042 | 100.42 | 70-130 |
| 61 1,2-Dichloropropan | 10.000 | 9.932 | 99.32 | 70-130 |
| 62 1,4-Dioxane | 10.000 | 11.171 | 111.71 | 60-140 |
| 63 Bromodichlorometha | 10.000 | 10.762 | 107.62 | 60-140 |
| 64 cis-1,3-Dichloropr | 10.000 | 11.515 | 115.15 | 70-130 |
| 65 4-Methyl-2-pentano | 10.000 | 11.748 | 117.48 | 60-140 |
| 68 Toluene | 10.000 | 10.210 | 102.10 | 70-130 |
| 69 trans-1,3-Dichloro | 10.000 | 9.187 | 91.87 | 70-130 |
| 70 1,1,2-Trichloroeth | 10.000 | 9.937 | 99.37 | 70-130 |
| 72 2-Hexanone | 10.000 | 10.713 | 107.13 | 60-140 |
| 71 Tetrachloroethene | 10.000 | 10.194 | 101.94 | 70-130 |
| 73 Dibromochlorometha | 10.000 | 11.486 | 114.86 | 60-140 |
| 74 1,2-Dibromoethane | 10.000 | 10.805 | 108.05 | 70-130 |
| 76 Chlorobenzene | 10.000 | 9.870 | 98.71 | 70-130 |
| 77 Ethyl Benzene | 10.000 | 10.494 | 104.95 | 70-130 |
| 80 m,p-Xylene | 10.000 | 11.360 | 113.60 | 70-130 |
| 81 o-Xylene | 10.000 | 11.488 | 114.88 | 70-130 |
| 83 Styrene | 10.000 | 11.417 | 114.17 | 70-130 |
| 84 Bromoform | 10.000 | 11.940 | 119.40 | 60-140 |
| 85 Cumene | 10.000 | 11.556 | 115.56 | 60-140 |
| 89 1,1,2,2-Tetrachlor | 10.000 | 9.925 | 99.25 | 70-130 |
| 90 Propylbenzene | 10.000 | 10.858 | 108.58 | 70-130 |
| 92 4-Ethyltoluene | 10.000 | 10.622 | 106.22 | 60-140 |
| 94 1,3,5-Trimethylben | 10.000 | 10.874 | 108.74 | 70-130 |
| 98 1,2,4-Trimethylben | 10.000 | 11.472 | 114.72 | 70-130 |
| 101 1,3-Dichlorobenzen | 10.000 | 10.306 | 103.06 | 70-130 |
| 104 1,4-Dichlorobenzen | 10.000 | 10.204 | 102.04 | 70-130 |
| 105 alpha-chlorotoluen | 10.000 | 10.834 | 108.34 | 70-130 |
| 108 1,2-Dichlorobenzen | 10.000 | 10.103 | 101.03 | 70-130 |
| 112 1,2,4-Trichloroben | 10.000 | 10.958 | 109.58 | 70-130 |
| 113 Hexachlorobutadien | 10.000 | 10.366 | 103.66 | 70-130 |
| 114 Naphthalene | 1.000 | 0.8848 | 88.48 | 60-140 |
| 14 Isopentane | 10.000 | 10.188 | 101.88 | 60-140 |
| 9 Butane | 10.000 | 10.887 | 108.87 | 60-140 |
| 60 Methylcyclohexane | 10.000 | 10.697 | 106.97 | 60-140 |

| SURROGATE COMPOUND | CONC ADDED PPBV | CONC RECOVERED PPBV | % RECOVERED | LIMITS |
|---|---|---|---|---|
| $ 54 1,2-Dichloroethane | 5.000 | 4.987 | 99.75 | 70-130 |
| $ 67 Toluene-d8 | 5.000 | 5.110 | 102.21 | 70-130 |
| $ 87 Bromofluorobenzene | 5.000 | 5.336 | 106.73 | 70-130 |

Air Toxics Ltd.

EPA TO-15/Modified TO14A

Data file : /chem/msde.i/20Mar2012.b/e032004.d
Lab Smp Id: LCSD Client Smp ID: LCSD
Inj Date : 20-MAR-2012 11:55
Operator : ll Inst ID: msde.i
Smp Info : 50mL #2730-226
Misc Info : 10ppbv (50ppbv)
Comment : Low-Level/GC-MS
Method : /chem/msde.i/20Mar2012.b/e12l0308c.m
Meth Date : 20-Mar-2012 09:50 llarson Quant Type: ISTD
Cal Date : 16-MAR-2012 11:53 Cal File: e031607.d
Als bottle: 4 QC Sample: LCSD
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AT09.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

| Name | Value | Description |
|---|---|---|
| DF | 1.00000 | Dilution Factor |

| | | | | CONCENTRATIONS ON-COL | FINAL | | |
|---|---|---|---|---|---|---|---|
| RT | EXP RT (REL RT) | MASS | RESPONSE | ( PPBV) | ( PPBV) | TARGET RANGE | RATIO |
| * 46 Bromochloromethane | | | | | CAS #: 74-97-5 | | |
| 16.128 | 16.128 (1.000) | 130 | 95972 | 5.00000 | | 80.00- 120.00 | 100.00 |
| 16.128 | 16.128 (1.000) | 128 | 73165 | | | 0.00- 30.00 | 76.24 |
| 16.128 | 16.128 (1.000) | 49 | 132010 | | | 0.00- 30.00 | 137.55 |
| * 58 1,4-Difluorobenzene | | | | | CAS #: 540-36-3 | | |
| 17.586 | 17.586 (1.000) | 114 | 359442 | 5.00000 | | 80.00- 120.00 | 100.00 |
| 17.586 | 17.586 (1.000) | 88 | 65544 | | | 0.00- 30.00 | 18.23 |
| * 75 Chlorobenzene-d5 | | | | | CAS #: 3114-55-4 | | |
| 22.925 | 22.925 (1.000) | 117 | 316308 | 5.00000 | | 80.00- 120.00 | 100.00 |
| 22.925 | 22.925 (1.000) | 82 | 205544 | | | 0.00- 30.00 | 64.98 |
| $ 54 1,2-Dichloroethane-d4 | | | | | CAS #: 17060-07-0 | | |
| 17.013 | 17.013 (1.055) | 65 | 178368 | 4.98732 | 4.987 | 80.00- 120.00 | 100.00 |
| 17.013 | 17.013 (1.055) | 67 | 84721 | | | 0.00- 30.00 | 47.50 |

| RT | EXP RT (REL RT) | MASS | RESPONSE | CONCENTRATIONS ON-COL ( PPBV) | CONCENTRATIONS FINAL ( PPBV) | TARGET RANGE | RATIO |
|---|---|---|---|---|---|---|---|
| $ 67 Toluene-d8 | | | | | CAS #: 2037-26-5 | | |
| 20.368 | 20.368 (1.158) | 98 | 369995 | 5.11043 | 5.110 | 80.00- 120.00 | 100.00 |
| 20.368 | 20.368 (1.158) | 70 | 45629 | | | 0.00- 30.00 | 12.33 |
| 20.368 | 20.368 (1.158) | 100 | 241095 | | | 33.74- 93.74 | 65.16 |
| $ 87 Bromofluorobenzene | | | | | CAS #: 460-00-4 | | |
| 24.523 | 24.523 (1.070) | 174 | 193093 | 5.33636 | 5.336 | 80.00- 120.00 | 100.00 |
| 24.523 | 24.523 (1.070) | 95 | 298680 | | | 121.72- 181.72 | 154.68 |
| 24.523 | 24.523 (1.070) | 176 | 183447 | | | 65.45- 125.45 | 95.00 |
| 2 Propylene | | | | | CAS #: 115-07-1 | | |
| 5.473 | 5.473 (0.339) | 41 | 124471 | 8.13630 | 8.136 | 80.00- 120.00 | 100.00 |
| 5.473 | 5.449 (0.339) | 42 | 80807 | | | 0.00- 30.00 | 64.92 |
| 5.497 | 5.473 (0.341) | 39 | 108495 | | | 0.00- 30.00 | 87.16 |
| 4 Dichlorodifluoromethane/Fr12 | | | | | CAS #: 75-71-8 | | |
| 5.931 | 5.955 (0.368) | 85 | 1156111 | 10.3084 | 10.308 | 80.00- 120.00 | 100.00 |
| 5.931 | 5.955 (0.368) | 87 | 373992 | | | 2.47- 62.47 | 32.35 |
| 6 Freon 114 | | | | | CAS #: 76-14-2 | | |
| 7.329 | 7.329 (0.454) | 135 | 626951 | 10.7445 | 10.744 | 80.00- 120.00 | 100.00 |
| 7.329 | 7.329 (0.454) | 137 | 198633 | | | 0.00- 30.00 | 31.68 |
| 7 Chloromethane | | | | | CAS #: 74-87-3 | | |
| 7.691 | 7.691 (0.477) | 50 | 166306 | 10.0333 | 10.033 | 80.00- 120.00 | 100.00 |
| 7.691 | 7.691 (0.477) | 52 | 56216 | | | 0.00- 30.00 | 33.80 |
| 9 Butane | | | | | CAS #: 106-97-8 | | |
| 8.387 | 8.404 (0.520) | 58 | 62103 | 10.8869 | 10.887 | 80.00- 120.00 | 100.00 |
| 8.387 | 8.404 (0.520) | 43 | 327413 | | | 0.00- 30.00 | 527.20 |
| 10 Vinyl Chloride | | | | | CAS #: 75-01-4 | | |
| 8.526 | 8.543 (0.529) | 62 | 278775 | 10.6558 | 10.656 | 80.00- 120.00 | 100.00 |
| 8.526 | 8.543 (0.529) | 64 | 89088 | | | 2.81- 62.81 | 31.96 |
| 11 1,3-Butadiene | | | | | CAS #: 106-99-0 | | |
| 8.769 | 8.769 (0.544) | 54 | 172041 | 10.4627 | 10.463 | 80.00- 120.00 | 100.00 |
| 8.769 | 8.769 (0.544) | 39 | 159481 | | | 0.00- 30.00 | 92.70 |
| 12 Bromomethane | | | | | CAS #: 74-83-9 | | |
| 10.251 | 10.251 (0.636) | 94 | 259410 | 8.96790 | 8.968 | 80.00- 120.00 | 100.00 |
| 10.251 | 10.251 (0.636) | 96 | 259864 | | | 60.84- 120.84 | 100.18 |
| 13 Chloroethane | | | | | CAS #: 75-00-3 | | |
| 10.707 | 10.728 (0.664) | 64 | 138694 | 9.94930 | 9.949 | 80.00- 120.00 | 100.00 |
| 10.707 | 10.728 (0.664) | 49 | 32219 | | | 0.00- 30.00 | 23.23 |

| RT | EXP RT (REL RT) | MASS | RESPONSE | CONCENTRATIONS ON-COL ( PPBV) | FINAL ( PPBV) | TARGET RANGE | RATIO |
|---|---|---|---|---|---|---|---|
| 13 Chloroethane (continued) | | | | | | | |
| 10.707 | 10.707 (0.664) | 66 | 45743 | | | 0.00- 30.00 | 32.98 |
| 14 Isopentane | | | | | CAS #: 78-78-4 | | |
| 10.852 | 10.852 (0.673) | 57 | 179386 | 10.1883 | 10.188 | 80.00- 120.00 | 100.00 |
| 10.852 | 10.852 (0.673) | 43 | 195720 | | | 0.00- 30.00 | 109.11 |
| 10.852 | 10.852 (0.673) | 42 | 167615 | | | 0.00- 30.00 | 93.44 |
| 16 Trichlorofluoromethane/Fr11 | | | | | CAS #: 75-69-4 | | |
| 11.474 | 11.474 (0.711) | 101 | 1201325 | 10.1571 | 10.157 | 80.00- 120.00 | 100.00 |
| 11.474 | 11.474 (0.711) | 103 | 791697 | | | 34.63- 94.63 | 65.90 |
| 18 Ethanol | | | | | CAS #: 64-17-5 | | |
| 12.345 | 12.324 (0.765) | 45 | 61442 | 9.95032 | 9.950 | 80.00- 120.00 | 100.00 |
| 12.345 | 12.324 (0.765) | 46 | 24351 | | | 0.00- 30.00 | 39.63 |
| 12.324 | 12.324 (0.764) | 43 | 16877 | | | 0.00- 30.00 | 27.47 |
| 21 1,1-Dichloroethene | | | | | CAS #: 75-35-4 | | |
| 12.801 | 12.821 (0.794) | 98 | 189453 | 11.1390 | 11.139 | 80.00- 120.00 | 100.00 |
| 12.801 | 12.801 (0.794) | 61 | 481024 | | | 0.00- 30.00 | 253.90 |
| 12.801 | 12.821 (0.794) | 96 | 299498 | | | 0.00- 30.00 | 158.09 |
| 19 Freon 113 | | | | | CAS #: 76-13-1 | | |
| 12.780 | 12.780 (0.792) | 151 | 522800 | 10.4530 | 10.453 | 80.00- 120.00 | 100.00 |
| 12.780 | 12.780 (0.792) | 153 | 337067 | | | 34.56- 94.56 | 64.47 |
| 12.780 | 12.780 (0.792) | 101 | 698712 | | | 0.00- 30.00 | 133.65 |
| 22 Acetone | | | | | CAS #: 67-64-1 | | |
| 13.070 | 13.070 (0.810) | 58 | 103252 | 9.51943 | 9.519 | 80.00- 120.00 | 100.00 |
| 13.070 | 13.070 (0.810) | 43 | 350118 | | | 0.00- 30.00 | 339.09 |
| 23 Carbon Disulfide | | | | | CAS #: 75-15-0 | | |
| 13.174 | 13.174 (0.817) | 76 | 841545 | 11.7918 | 11.792 | 80.00- 120.00 | 100.00 |
| 26 3-Chloroprene | | | | | CAS #: 107-05-1 | | |
| 13.588 | 13.588 (0.843) | 76 | 130341 | 12.3823 | 12.382 | 80.00- 120.00 | 100.00 |
| 13.588 | 13.588 (0.843) | 41 | 209004 | | | 0.00- 30.00 | 160.35 |
| 25 2-Propanol | | | | | CAS #: 67-63-0 | | |
| 13.381 | 13.360 (0.830) | 45 | 318904 | 10.8754 | 10.875 | 80.00- 120.00 | 100.00 |
| 13.381 | 13.360 (0.830) | 43 | 86006 | | | 0.00- 30.00 | 26.97 |
| 13.381 | 13.360 (0.830) | 59 | 14876 | | | 0.00- 30.00 | 4.66 |
| 29 Methylene Chloride | | | | | CAS #: 75-09-2 | | |
| 13.885 | 13.885 (0.861) | 84 | 96138 | 7.18061 | 7.181 | 80.00- 120.00 | 100.00 |
| 13.885 | 13.885 (0.861) | 49 | 74225 | | | 0.00- 30.00 | 77.21 |

| RT | EXP RT (REL RT) | MASS | RESPONSE | CONCENTRATIONS ON-COL ( PPBV) | FINAL ( PPBV) | TARGET RANGE | RATIO |
|---|---|---|---|---|---|---|---|
| 29 Methylene Chloride (continued) | | | | | | | |
| 13.885 | 13.885 (0.861) | 51 | 22246 | | | 0.00- 30.00 | 23.14 |
| 30 tert-butyl alcohol | | | | | CAS #: 75-65-0 | | |
| 14.242 | 14.023 (0.883) | 59 | 18965 | 0.68215 | 0.6822 | 80.00- 120.00 | 100.00 |
| 14.187 | 14.023 (0.880) | 41 | 142934 | | | 0.00- 30.00 | 753.64 |
| 14.187 | 14.023 (0.880) | 57 | 153449 | | | 0.00- 30.00 | 809.09 |
| 31 MTBE | | | | | CAS #: 1634-04-4 | | |
| 14.187 | 14.187 (0.880) | 73 | 979693 | 11.3594 | 11.359 | 80.00- 120.00 | 100.00 |
| 14.187 | 14.160 (0.880) | 57 | 153449 | | | 0.00- 30.00 | 15.66 |
| 14.187 | 14.160 (0.880) | 41 | 143043 | | | 0.00- 30.00 | 14.60 |
| 32 trans-1,2-Dichloroethene | | | | | CAS #: 156-60-5 | | |
| 14.242 | 14.242 (0.883) | 98 | 208944 | 11.4681 | 11.468 | 80.00- 120.00 | 100.00 |
| 14.242 | 14.242 (0.883) | 61 | 421318 | | | 0.00- 30.00 | 201.64 |
| 14.242 | 14.242 (0.883) | 96 | 319750 | | | 0.00- 30.00 | 153.03 |
| 35 Hexane | | | | | CAS #: 110-54-3 | | |
| 14.517 | 14.517 (0.900) | 57 | 322551 | 10.3145 | 10.314 | 80.00- 120.00 | 100.00 |
| 14.517 | 14.517 (0.900) | 43 | 165669 | | | 0.00- 30.00 | 51.36 |
| 14.517 | 14.517 (0.900) | 86 | 86389 | | | 0.00- 30.00 | 26.78 |
| 37 1,1-Dichloroethane | | | | | CAS #: 75-34-3 | | |
| 14.929 | 14.928 (0.926) | 63 | 521997 | 10.1364 | 10.136 | 80.00- 120.00 | 100.00 |
| 14.929 | 14.928 (0.926) | 65 | 170547 | | | 0.00- 30.00 | 32.67 |
| 38 Vinyl Acetate | | | | | CAS #: 108-05-4 | | |
| 14.956 | 14.956 (0.927) | 86 | 82574 | 10.8534 | 10.853 | 80.00- 120.00 | 100.00 |
| 14.956 | 14.956 (0.927) | 42 | 51514 | | | 0.00- 30.00 | 62.39 |
| 14.956 | 14.928 (0.927) | 43 | 492837 | | | 0.00- 30.00 | 596.84 |
| 41 cis-1,2-Dichloroethene | | | | | CAS #: 156-59-2 | | |
| 15.787 | 15.766 (0.979) | 98 | 294928 | 10.7663 | 10.766 | 80.00- 120.00 | 100.00 |
| 15.766 | 15.766 (0.978) | 61 | 550773 | | | 0.00- 30.00 | 186.75 |
| 15.787 | 15.766 (0.979) | 96 | 463537 | | | 126.85- 186.85 | 157.17 |
| 42 2-Butanone | | | | | CAS #: 78-93-3 | | |
| 15.766 | 15.766 (0.978) | 72 | 212752 | 10.8195 | 10.820 | 80.00- 120.00 | 100.00 |
| 15.766 | 15.766 (0.978) | 43 | 518765 | | | 0.00- 30.00 | 243.84 |
| 15.766 | 15.766 (0.978) | 57 | 55604 | | | 0.00- 30.00 | 26.14 |
| 44 Tetrahydrofuran | | | | | CAS #: 109-99-9 | | |
| 16.128 | 16.128 (1.000) | 42 | 185939 | 9.48521 | 9.485 | 80.00- 120.00 | 100.00 |
| 16.128 | 16.128 (1.000) | 71 | 133706 | | | 0.00- 30.00 | 71.91 |
| 16.128 | 16.128 (1.000) | 72 | 142771 | | | 0.00- 30.00 | 76.78 |

| RT | EXP RT (REL RT) | MASS | RESPONSE | CONCENTRATIONS ON-COL ( PPBV) | CONCENTRATIONS FINAL ( PPBV) | TARGET RANGE | RATIO |
|---|---|---|---|---|---|---|---|
| 47 Chloroform | | | | | CAS #: 67-66-3 | | |
| 16.189 | 16.189 (1.004) | 83 | 796922 | 10.1093 | 10.109 | 80.00- 120.00 | 100.00 |
| 16.189 | 16.189 (1.004) | 85 | 512174 | | | 0.00- 30.00 | 64.27 |
| 48 Cyclohexane | | | | | CAS #: 110-82-7 | | |
| 16.467 | 16.467 (1.021) | 84 | 451995 | 10.7384 | 10.738 | 80.00- 120.00 | 100.00 |
| 16.467 | 16.436 (1.021) | 56 | 342616 | | | 0.00- 30.00 | 75.80 |
| 16.467 | 16.436 (1.021) | 41 | 183565 | | | 0.00- 30.00 | 40.61 |
| 49 1,1,1-Trichloroethane | | | | | CAS #: 71-55-6 | | |
| 16.467 | 16.467 (1.021) | 97 | 955716 | 10.6096 | 10.610 | 80.00- 120.00 | 100.00 |
| 16.467 | 16.467 (1.021) | 99 | 610455 | | | 0.00- 30.00 | 63.87 |
| 51 Carbon Tetrachloride | | | | | CAS #: 56-23-5 | | |
| 16.652 | 16.652 (1.032) | 119 | 858251 | 12.7334 | 12.733 | 80.00- 120.00 | 100.00 |
| 16.652 | 16.652 (1.032) | 117 | 895829 | | | 0.00- 30.00 | 104.38 |
| 52 2,2,4-Trimethylpentane | | | | | CAS #: 540-84-1 | | |
| 16.926 | 16.926 (1.049) | 56 | 435959 | 9.04151 | 9.042 | 80.00- 120.00 | 100.00 |
| 16.926 | 16.926 (1.049) | 57 | 1394867 | | | 0.00- 30.00 | 319.95 |
| 16.926 | 16.926 (1.049) | 41 | 393472 | | | 0.00- 30.00 | 90.25 |
| 53 Benzene | | | | | CAS #: 71-43-2 | | |
| 17.013 | 17.013 (0.967) | 78 | 915895 | 9.93338 | 9.933 | 80.00- 120.00 | 100.00 |
| 17.013 | 17.013 (0.967) | 77 | 214445 | | | 0.00- 30.00 | 23.41 |
| 56 1,2-Dichloroethane | | | | | CAS #: 107-06-2 | | |
| 17.130 | 17.130 (0.974) | 62 | 540349 | 10.3927 | 10.393 | 80.00- 120.00 | 100.00 |
| 17.130 | 17.130 (0.974) | 64 | 172376 | | | 0.00- 30.00 | 31.90 |
| 57 Heptane | | | | | CAS #: 142-82-5 | | |
| 17.159 | 17.159 (0.976) | 57 | 203095 | 10.6567 | 10.657 | 80.00- 120.00 | 100.00 |
| 17.159 | 17.159 (0.976) | 100 | 134983 | | | 0.00- 30.00 | 66.46 |
| 17.159 | 17.159 (0.976) | 43 | 306887 | | | 0.00- 30.00 | 151.11 |
| 59 Trichloroethene | | | | | CAS #: 79-01-6 | | |
| 18.025 | 18.025 (1.025) | 130 | 408913 | 10.0416 | 10.042 | 80.00- 120.00 | 100.00 |
| 18.025 | 17.998 (1.025) | 95 | 453713 | | | 0.00- 30.00 | 110.96 |
| 18.025 | 18.025 (1.025) | 97 | 296916 | | | 0.00- 30.00 | 72.61 |
| 60 Methylcyclohexane | | | | | CAS #: 108-87-2 | | |
| 18.272 | 18.272 (1.039) | 83 | 562709 | 10.6970 | 10.697 | 80.00- 120.00 | 100.00 |
| 18.272 | 18.272 (1.039) | 55 | 346125 | | | 0.00- 30.00 | 61.51 |
| 18.272 | 18.272 (1.039) | 56 | 100521 | | | 0.00- 30.00 | 17.86 |
| 61 1,2-Dichloropropane | | | | | CAS #: 78-87-5 | | |
| 18.492 | 18.492 (1.052) | 63 | 281550 | 9.93178 | 9.932 | 80.00- 120.00 | 100.00 |

| RT | EXP RT (REL RT) | MASS | RESPONSE | CONCENTRATIONS ON-COL ( PPBV) | FINAL ( PPBV) | TARGET RANGE | RATIO |
|---|---|---|---|---|---|---|---|
| 61 1,2-Dichloropropane (continued) | | | | | | | |
| 18.492 | 18.492 (1.052) | 62 | 195280 | | | 0.00- 30.00 | 69.36 |
| 18.492 | 18.492 (1.052) | 41 | 175204 | | | 31.03- 91.03 | 62.23 |
| 62 1,4-Dioxane | | | | | CAS #: 123-91-1 | | |
| 18.629 | 18.629 (1.059) | 88 | 225845 | 11.1712 | 11.171 | 80.00- 120.00 | 100.00 |
| 18.629 | 18.629 (1.059) | 58 | 121492 | | | 0.00- 30.00 | 53.79 |
| 18.629 | 18.629 (1.059) | 57 | 41535 | | | 0.00- 30.00 | 18.39 |
| 63 Bromodichloromethane | | | | | CAS #: 75-27-4 | | |
| 18.959 | 18.959 (1.078) | 83 | 852282 | 10.7625 | 10.762 | 80.00- 120.00 | 100.00 |
| 18.959 | 18.959 (1.078) | 85 | 535571 | | | 0.00- 30.00 | 62.84 |
| 64 cis-1,3-Dichloropropene | | | | | CAS #: 10061-01-5 | | |
| 19.865 | 19.865 (1.130) | 75 | 564924 | 11.5153 | 11.515 | 80.00- 120.00 | 100.00 |
| 19.865 | 19.865 (1.130) | 77 | 174495 | | | 0.00- 30.00 | 30.89 |
| 19.865 | 19.865 (1.130) | 39 | 246233 | | | 10.14- 70.14 | 43.59 |
| 65 4-Methyl-2-pentanone | | | | | CAS #: 108-10-1 | | |
| 20.077 | 20.076 (1.142) | 43 | 430470 | 11.7484 | 11.748 | 80.00- 120.00 | 100.00 |
| 20.077 | 20.076 (1.142) | 58 | 202843 | | | 0.00- 30.00 | 47.12 |
| 20.077 | 20.076 (1.142) | 85 | 130619 | | | 0.00- 30.00 | 30.34 |
| 68 Toluene | | | | | CAS #: 108-88-3 | | |
| 20.502 | 20.502 (1.166) | 91 | 1123404 | 10.2103 | 10.210 | 80.00- 120.00 | 100.00 |
| 20.502 | 20.502 (1.166) | 92 | 665845 | | | 0.00- 30.00 | 59.27 |
| 69 trans-1,3-Dichloropropene | | | | | CAS #: 10061-02-6 | | |
| 20.995 | 20.995 (0.916) | 75 | 623164 | 9.18700 | 9.187 | 80.00- 120.00 | 100.00 |
| 20.995 | 20.995 (0.916) | 77 | 196453 | | | 0.00- 30.00 | 31.53 |
| 20.995 | 20.995 (0.916) | 39 | 217368 | | | 4.11- 64.11 | 34.88 |
| 70 1,1,2-Trichloroethane | | | | | CAS #: 79-00-5 | | |
| 21.335 | 21.335 (0.931) | 97 | 406103 | 9.93738 | 9.937 | 80.00- 120.00 | 100.00 |
| 21.335 | 21.335 (0.931) | 99 | 250611 | | | 0.00- 30.00 | 61.71 |
| 21.335 | 21.335 (0.931) | 83 | 335594 | | | 53.21- 113.21 | 82.64 |
| 71 Tetrachloroethene | | | | | CAS #: 127-18-4 | | |
| 21.498 | 21.497 (0.938) | 166 | 483590 | 10.1945 | 10.194 | 80.00- 120.00 | 100.00 |
| 21.498 | 21.497 (0.938) | 129 | 425406 | | | 0.00- 30.00 | 87.97 |
| 21.498 | 21.497 (0.938) | 131 | 404277 | | | 0.00- 30.00 | 83.60 |
| 72 2-Hexanone | | | | | CAS #: 591-78-6 | | |
| 21.660 | 21.660 (0.945) | 58 | 277083 | 10.7131 | 10.713 | 80.00- 120.00 | 100.00 |
| 21.660 | 21.660 (0.945) | 43 | 424076 | | | 0.00- 30.00 | 153.05 |
| 21.660 | 21.660 (0.945) | 100 | 81677 | | | 0.00- 30.00 | 29.48 |

| RT | EXP RT (REL RT) | MASS | RESPONSE | CONCENTRATIONS ON-COL ( PPBV) | CONCENTRATIONS FINAL ( PPBV) | TARGET RANGE | RATIO |
|---|---|---|---|---|---|---|---|
| 73 Dibromochloromethane | | | | | CAS #: 124-48-1 | | |
| 22.018 | 22.018 (0.960) | 129 | 798653 | 11.4861 | 11.486 | 80.00- 120.00 | 100.00 |
| 22.018 | 22.018 (0.960) | 127 | 614818 | | | 0.00- 30.00 | 76.98 |
| 74 1,2-Dibromoethane | | | | | CAS #: 106-93-4 | | |
| 22.278 | 22.278 (0.972) | 107 | 677306 | 10.8052 | 10.805 | 80.00- 120.00 | 100.00 |
| 22.278 | 22.278 (0.972) | 109 | 604968 | | | 0.00- 30.00 | 89.32 |
| 76 Chlorobenzene | | | | | CAS #: 108-90-7 | | |
| 22.949 | 22.949 (1.001) | 112 | 889800 | 9.87056 | 9.870 | 80.00- 120.00 | 100.00 |
| 22.949 | 22.949 (1.001) | 114 | 285287 | | | 0.00- 30.00 | 32.06 |
| 22.949 | 22.949 (1.001) | 77 | 583613 | | | 33.86- 93.86 | 65.59 |
| 77 Ethyl Benzene | | | | | CAS #: 100-41-4 | | |
| 23.021 | 23.021 (1.004) | 106 | 462208 | 10.4945 | 10.494 | 80.00- 120.00 | 100.00 |
| 23.021 | 23.021 (1.004) | 91 | 1631491 | | | 0.00- 30.00 | 352.98 |
| 80 m,p-Xylene | | | | | CAS #: 108-38-3 | | |
| 23.190 | 23.190 (1.012) | 106 | 601997 | 11.3599 | 11.360 | 80.00- 120.00 | 100.00 |
| 23.190 | 23.190 (1.012) | 91 | 1354919 | | | 0.00- 30.00 | 225.07 |
| 81 o-Xylene | | | | | CAS #: 95-47-6 | | |
| 23.768 | 23.768 (1.037) | 106 | 585252 | 11.4878 | 11.488 | 80.00- 120.00 | 100.00 |
| 23.768 | 23.768 (1.037) | 91 | 1387358 | | | 0.00- 30.00 | 237.05 |
| 83 Styrene | | | | | CAS #: 100-42-5 | | |
| 23.816 | 23.816 (1.039) | 104 | 878015 | 11.4172 | 11.417 | 80.00- 120.00 | 100.00 |
| 23.792 | 23.792 (1.038) | 78 | 544761 | | | 0.00- 30.00 | 62.04 |
| 84 Bromoform | | | | | CAS #: 75-25-2 | | |
| 24.129 | 24.129 (1.053) | 173 | 717783 | 11.9405 | 11.940 | 80.00- 120.00 | 100.00 |
| 24.129 | 24.129 (1.053) | 171 | 373120 | | | 0.00- 30.00 | 51.98 |
| 85 Cumene | | | | | CAS #: 98-82-8 | | |
| 24.226 | 24.226 (1.057) | 105 | 1906179 | 11.5557 | 11.556 | 80.00- 120.00 | 100.00 |
| 24.226 | 24.226 (1.057) | 120 | 451804 | | | 0.00- 30.00 | 23.70 |
| 89 1,1,2,2-Tetrachloroethane | | | | | CAS #: 79-34-5 | | |
| 24.678 | 24.678 (1.076) | 83 | 846173 | 9.92550 | 9.925 | 80.00- 120.00 | 100.00 |
| 24.678 | 24.678 (1.076) | 85 | 535855 | | | 0.00- 30.00 | 63.33 |
| 90 Propylbenzene | | | | | CAS #: 103-65-1 | | |
| 24.755 | 24.755 (1.080) | 91 | 2294259 | 10.8584 | 10.858 | 80.00- 120.00 | 100.00 |
| 24.755 | 24.755 (1.080) | 120 | 474022 | | | 0.00- 30.00 | 20.66 |
| 92 4-Ethyltoluene | | | | | CAS #: 622-96-8 | | |
| 24.884 | 24.884 (1.085) | 105 | 1927179 | 10.6221 | 10.622 | 80.00- 120.00 | 100.00 |

| RT | EXP RT (REL RT) | MASS | RESPONSE | CONCENTRATIONS ON-COL ( PPBV) | CONCENTRATIONS FINAL ( PPBV) | TARGET RANGE | RATIO |
|---|---|---|---|---|---|---|---|
| 92 4-Ethyltoluene (continued) | | | | | | | |
| 24.884 | 24.884 (1.085) | 120 | 512637 | | | 0.00- 30.00 | 26.60 |
| 94 1,3,5-Trimethylbenzene | | | | | CAS #: 108-67-8 | | |
| 24.936 | 24.936 (1.088) | 105 | 1698184 | 10.8743 | 10.874 | 80.00- 120.00 | 100.00 |
| 24.962 | 24.962 (1.089) | 120 | 720194 | | | 0.00- 30.00 | 42.41 |
| 98 1,2,4-Trimethylbenzene | | | | | CAS #: 95-63-6 | | |
| 25.408 | 25.408 (1.108) | 105 | 1577082 | 11.4716 | 11.472 | 80.00- 120.00 | 100.00 |
| 25.408 | 25.408 (1.108) | 120 | 623181 | | | 0.00- 30.00 | 39.51 |
| 101 1,3-Dichlorobenzene | | | | | CAS #: 541-73-1 | | |
| 25.789 | 25.789 (1.125) | 146 | 898109 | 10.3058 | 10.306 | 80.00- 120.00 | 100.00 |
| 25.789 | 25.789 (1.125) | 148 | 586590 | | | 0.00- 30.00 | 65.31 |
| 25.789 | 25.789 (1.125) | 111 | 439955 | | | 0.00- 30.00 | 48.99 |
| 104 1,4-Dichlorobenzene | | | | | CAS #: 106-46-7 | | |
| 25.901 | 25.901 (1.130) | 146 | 889787 | 10.2044 | 10.204 | 80.00- 120.00 | 100.00 |
| 25.901 | 25.901 (1.130) | 148 | 565372 | | | 0.00- 30.00 | 63.54 |
| 25.901 | 25.901 (1.130) | 111 | 411395 | | | 0.00- 30.00 | 46.24 |
| 105 alpha-chlorotoluene | | | | | CAS #: 100-44-7 | | |
| 26.058 | 26.058 (1.137) | 91 | 1438876 | 10.8337 | 10.834 | 80.00- 120.00 | 100.00 |
| 26.058 | 26.058 (1.137) | 126 | 247137 | | | 0.00- 30.00 | 17.18 |
| 108 1,2-Dichlorobenzene | | | | | CAS #: 95-50-1 | | |
| 26.349 | 26.349 (1.149) | 146 | 835279 | 10.1030 | 10.103 | 80.00- 120.00 | 100.00 |
| 26.349 | 26.349 (1.149) | 148 | 533136 | | | 33.82- 93.82 | 63.83 |
| 26.349 | 26.349 (1.149) | 111 | 417153 | | | 19.39- 79.39 | 49.94 |
| 112 1,2,4-Trichlorobenzene | | | | | CAS #: 120-82-1 | | |
| 28.143 | 28.143 (1.228) | 180 | 592163 | 10.9575 | 10.958 | 80.00- 120.00 | 100.00 |
| 28.143 | 28.143 (1.228) | 182 | 562214 | | | 0.00- 30.00 | 94.94 |
| 113 Hexachlorobutadiene | | | | | CAS #: 87-68-3 | | |
| 28.233 | 28.232 (1.232) | 225 | 500531 | 10.3665 | 10.366 | 80.00- 120.00 | 100.00 |
| 28.233 | 28.232 (1.232) | 223 | 310270 | | | 0.00- 30.00 | 61.99 |
| 114 Naphthalene | | | | | CAS #: 91-20-3 | | |
| 28.502 | 28.501 (1.243) | 128 | 101816 | 0.88483 | 0.8848 | 80.00- 120.00 | 100.00 |
| 28.502 | 28.501 (1.243) | 127 | 13072 | | | 0.00- 30.00 | 12.84 |

Air Toxics Ltd.

EPA TO-15/Modified TO14A

Data file : /chem/msde.i/20Mar2012.b/e032004.d
Lab Smp Id: LCSD Client Smp ID: LCSD
Inj Date : 20-MAR-2012 11:55
Operator : ll Inst ID: msde.i
Smp Info : 50mL #2730-226
Misc Info : 10ppbv (50ppbv)
Comment : Low-Level/GC-MS
Method : /chem/msde.i/20Mar2012.b/e12l0308c.m
Meth Date : 20-Mar-2012 09:50 llarson Quant Type: ISTD
Cal Date : 16-MAR-2012 11:53 Cal File: e031607.d
Als bottle: 4 QC Sample: LCSD
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: AT09.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

- NO TENTATIVELY IDENTIFIED COMPOUNDS -

Air Toxics Ltd.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msde.i
Lab File ID: e032004.d
Lab Smp Id: LCSD
Analysis Type: VOA
Quant Type: ISTD
Operator: ll
Method File: /chem/msde.i/20Mar2012.b/e12l0308c.m
Misc Info: 10ppbv (50ppbv)

Calibration Date: 20-MAR-2012
Calibration Time: 10:17
Client Smp ID: LCSD
Level: LOW
Sample Type: AIR

| | | AREA LIMIT | | | |
|---|---|---|---|---|---|
| COMPOUND | STANDARD | LOWER | UPPER | SAMPLE | %DIFF |
| 46 Bromochloromethan | 103496 | 62098 | 144894 | 95972 | -7.27 |
| 58 1,4-Difluorobenze | 407788 | 244673 | 570903 | 359442 | -11.86 |
| 75 Chlorobenzene-d5 | 335497 | 201298 | 469696 | 316308 | -5.72 |

| | | RT LIMIT | | | |
|---|---|---|---|---|---|
| COMPOUND | STANDARD | LOWER | UPPER | SAMPLE | %DIFF |
| 46 Bromochloromethan | 16.13 | 15.80 | 16.46 | 16.13 | 0.00 |
| 58 1,4-Difluorobenze | 17.59 | 17.26 | 17.92 | 17.59 | 0.00 |
| 75 Chlorobenzene-d5 | 22.92 | 22.59 | 23.25 | 22.92 | 0.00 |

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

ß¨

Data File: /chem/msde.i/20Mar2012.b/e032004.d



Date : 20-MAR-2012 11:55

Client ID: LCSD

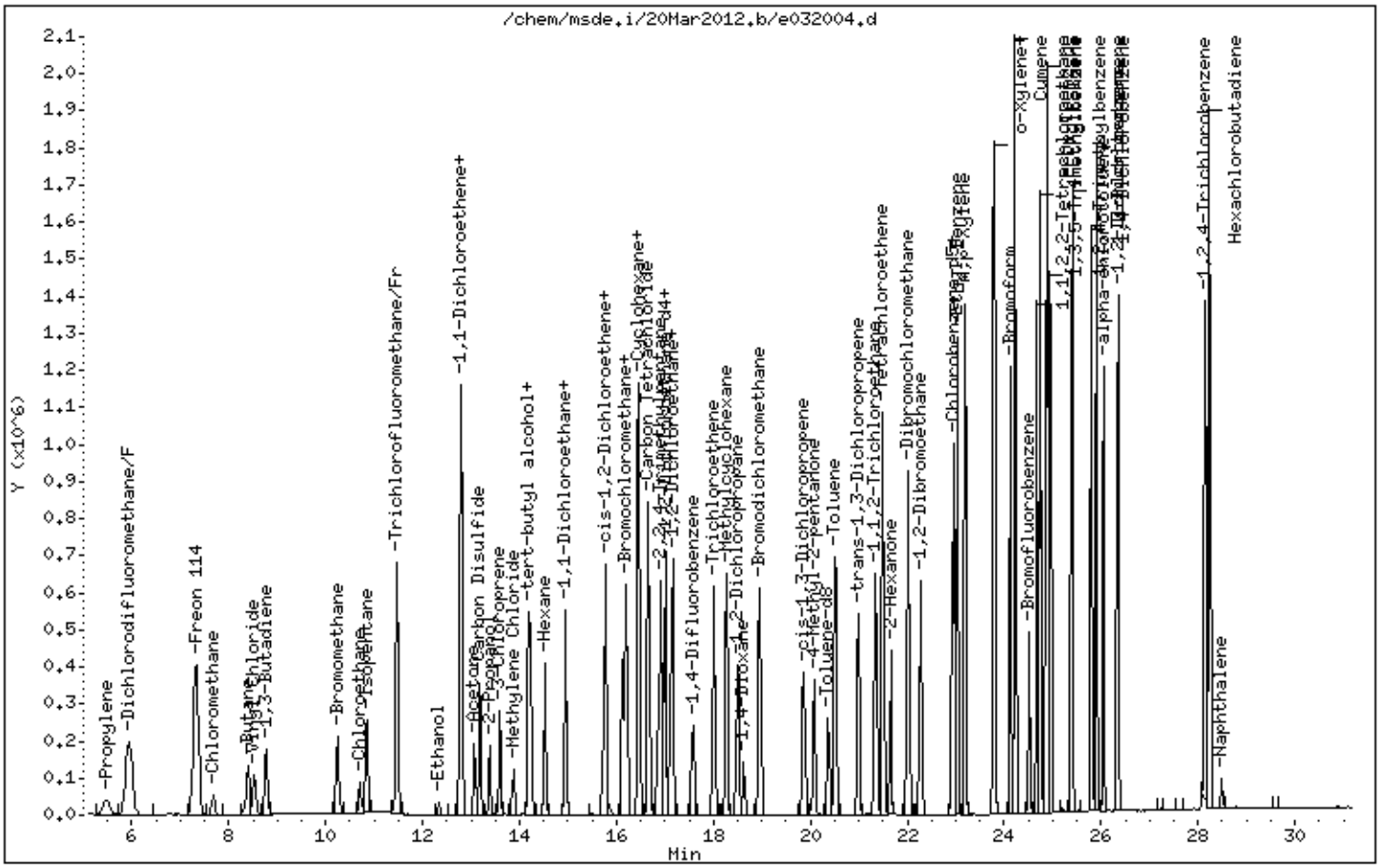
Instrument: msde.i

Sample Info: 50mL #2730-226

Operator: ll

Column phase: RTx-624

Column diameter: 0.32



| | |
|---|---|
| BFB Verification of 176/174 m/z Ratio: | 397705 / 409301 x 100 = |
| Tekmar Purge Flow: | |
| Vacuum: | 3/13/12 |

| | | |
|---|---|---|
| IS/S Std. #: | 2403 - 19 | Exp. Date: 5/27/12 |
| BCM | Sim: 80649 | LL: 78956 |
| 1,4-DFB | 329028 | 299545 |
| CB-d5 | 28854 | 258990 |

Verified CCV IS vs ICAL mid-point (-40%D): LL

| | |
|---|---|
| File ID: | E031302 |
| Compound: | Toluene-d8 |
| Initials: | LL |

Method Name: E12L0308B) E12S0308A

**Calculation Check:**

ppbv of compound = $\frac{\text{Area}_{\text{Sample}}}{\text{Area}_{\text{IS}}} \times \frac{\text{Conc}_{\text{IS}}}{\text{RRF}}$ = ( 305465 ) / ( 299545 ) x ( 5.00 ) / ( 1.00712 ) = 5.063

Reported Result: 5.063

| | Use | File | Lab ID# | Can# | Pressure | Amt. Loaded | DF | Loaded By Initials | Date Analyzed | Time Analyzed | Reviewed By Initials | Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | ✓ | E031301 | BFB Tune check | 1476-2725 | 50ng | 2.0mL | 1.00 | LL | 3/13/12 | 0849 | LL/CR | |
| 2 | ✓ | 02 | CCV (200ppbv) | 2370-196 | 10ppbv | 50mL | | | | 0939 | /CR | LL: 2 out. |
| 3 | ✓ | 03 | LCS | 2370-221 | | | | | | 1018 | /CR | 0 out |
| 4 | ✓ | 04 | LCSD | | | | | | | 1056 | /CR | |
| 5 | ✓ | 05 | CCVsp (5.0ppbv) | ~~2403-3~~ 3/13/12 2403-7 | 2.0ppbv | 100mL | | | | 1135 | /CR | AT-5 0 out |
| 6 | ✓ | 06 | CCVsp | 2403-72 | 1.5ppbv | 75mL | | | | 1213 | /CR | AT-3 |
| 7 | X ✓ | 07 | System Blank | 35279 | NA | 250mL | | | | 1321 | LL/— | |
| 8 | ✓ | 08 | Lab Blank | \| | Humid. | \| | | | | 1419 | EA | |
| 9 | ✓ | 09 ~~08~~ 3/14/12 | 1203222B-05A | 5578 | 4.6"Hg-5psi | 250mL | 1.58 | ~~EA~~ | | 1520 | EA | |
| 10 | ✓ | 10 | -04A | 13676 | 3.8"Hg-5psi | 250mL | 1.53 | EA | | 1603 | EA | |
| 11 | ✓ | 11 | -10A | 4200 | 2.4"Hg-5psi | 250mL | 1.46 | EA | | 1656 | EA | |
| 12 | ✓ | 12 | 1202639-02A | 9571 | 8.5"Hg-5psi | 250mL | 1.87 | SE | | 1751 | SE/EA | |
| 13 | ✓ | 13 | 01A | 33970 | 7.0"Hg-5psi | ~~250~~ 200mL 3/14/12 | 1.75 | SE | | 1829 | EA | 15mL = 29.2 dilution |
| 14 | ✓ | 14 | 1202444-04A | 34192 | 4.5"Hg-5psi | 250mL | 1.58 | EA | | 1928 | SE/CR | |

Signed — Date: 3/13/12

Reviewed — Date: 03/14/12

| BFB Verification of 176/174 m/z Ratio: 349858 / 363221 x100 = 96.32% |
|---|
| Tekmar Purge Flow: |
| Vacuum: w3/14/12 |

| IS/S Std. #: 2403-19 | Exp. Date: 5/27/12 |
|---|---|
| BCM Sim: 94785 | LL: 90443 |
| 1,4-DFB 416898 | 374503 |
| CB-d5 348932 | 310086 |

Verified CCV IS vs ICAL mid-point (-40%D): LL

| File ID: |
|---|
| Compound: Toluene-d8. |
| Initials: |

Method Name: E12L03088/E12S0308A

**Calculation Check:**

ppbv of compound = $\frac{\text{Area}_{\text{Sample}}}{\text{Area}_{\text{IS}}} \times \frac{\text{Conc}_{\text{IS}}}{\text{RRF}}$ = ( 375925 / 310086 ) x ( 5.06 / 1.00712 ) = 4.984

Reported Result: 4.984

| | Use | File | Lab ID# | Can# | Pressure | Amt. Loaded | DF | Loaded By Initials | Date Analyzed | Time Analyzed | Reviewed By Initials | Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | ✓ | E031401 | BFB Tune Check | 1476-2725 | 50ng | 2.0µL | 1.00 | LL | 3/14/12 | 0754 | LL/CR | |
| 2 | X | 02 | CCV (50 ccs 5/13 200ppbv) | 2370-196 | CR 03/15/12 1050ppbv | 50mL | | | | 0858 | /— | Mech↓ 40%. |
| 3 | ✓ | 03 | LCS | 2370-221 | | | | | | 0856 | /CR | Ø out |
| 4 | ✓ | 04 | LCSD | ↓ | | | | | | 0939 | /CR | |
| 5 | ✓ | 05 | CCV ↓ | 2370-196 | ↓ | ↓ | | | | 1017 | /CR | Ø out |
| 6 | ✓ | 06 | CCVsp (5.0ppbv) | 2403-72 | 1.5ppbv | 75mL | | | | 1055 | /CR | AT-3 Ø out |
| 7 | CAL | 07 | Manifold #8 cert | 33787 33878 w3/14/12 | NA | 250mL | | | | 1146 | /CR | 8-3-13-12 1122 |
| 8 | ✓ | 08 | Lab Blank | 36043 | ↓ | ↓ | ↓ | | | 1238 | /CR | 1,4-DCB NT >RL (SIM-04 sp) |
| 9 | ✓ | 09 | 1202444-02A | 94610 | 6.5"Hg→5psi | 12.5mL | 34.2 | | | 1325 | /CR | Diluted for TC |
| 10 | ✓ | 10 | 1203254-01AB | 5795 | 6.6"Hg→5psi | 250mL | 1.72 | | | 1418 | Ste/CR | |
| 11 | ✓ | 11 | -17AB | 31427 | ~~Hum-d~~ 28.8"Hg 7.5psi | 250mL | 1.00 | ET | | 1514 | Ste/CR | TB |
| 12 | ✓ | 12 | 02AB | 35163 | 7.0"Hg-5psi | 250mL | 1.75 | Ste | | 1609 | Ste/CR | |
| 13 | ✓ | 13 | 03AB | 5788 | 7.6"Hg-5psi | 250mL | 1.79 | Ste | | 1701 | Ste/CR | |
| 14 | ✓ | 14 | -04AB | 94609 | 8.2"Hg-5psi | 250mL | 1.84 | Ste | ↓ | 1745 | Ste/CR | |

Signed — 3/14/12 Date — Reviewed — 03/15/12 Date

| BFB Verification of 176/174 m/z Ratio: 480033/488874 *100% = 98.192% |
|---|
| Tekmar Purge Flow: NA |
| Vacuum: 8.00E-6 |

| IS/S Std. #: 2403-19 | Exp. Date: 05/27/12 |
|---|---|
| BCM 1034916 (LL) | 1048803 (SIM) |
| 1,4-DFB 407788 | 453345 |
| CB-d5 3354497 | 378205 |

Verified CCV IS vs ICAL mid-point (-40%D): CR

| File ID: E032005R |
|---|
| Compound: Toluene-d8 |
| Initials: CR |

Method Name: ERL0308C/ERL0308A

**Calculation Check:**

ppbv of compound = $\frac{\text{Area}_{\text{Sample}}}{\text{Area}_{\text{IS}}} \times \frac{\text{Conc}_{\text{IS}}}{\text{RRF}}$ = ( 405264 ) / ( 407788 ) x ( 5.00 ) / ( 1.00712 ) = 4.934

Reported Result: 4.934

| | Use | File | Lab ID# | Can# | Pressure | Amt. Loaded | DF | Loaded By Initials | Date Analyzed | Time Analyzed | Reviewed By Initials | Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | ✓ | E032001 E030 us 3/20/12 | BFB | 1476-2725 | 50ng | 2.0mL | 1.00 | LL | 3/20/12 | 0951 | CR | |
| 2 | ✓ | E032002 | CCV (25ppbv) | 2370-196A | 10ppbv | 100mL | | | | 1017 | CR | LL 2 out SIM 0 out |
| 3 | ✓ | 03 | LCS (50ppbv) | 2370-226 | | 50mL | | | | 1104 | CR | LL 1 out SIM 0 out |
| 4 | ✓ | 04 | LCSD | | | | | ↓ | | 1155 | CR | 0 out |
| 5 | ✓ | 05 | CCVsp (5.0ppbv) | 2403-72 | 1.5ppbv | 75mL | 1.00 | CR | | 1243 | CR | AT3 |
| 6 | ✓ | 06 | CCVsp (5.0ppbv) | 2403-82 | 2.5ppbv | 125mL | 1.00 | CR | | 1330 | W CR | AT2 |
| 7 | X | 07 | System Blank | ~~36043~~ 3/20/12 SFE | NA | 250mL | | LL | | 1424 | I/I – | can# 34377 |
| 8 | X | 08 | Lab Blank | ↓ | ↓ | ↓ | | | | 1523 | SFE/– | ↓ |
| 9 | ✓ | 09 | Lab Blank | 36043 | humid | 250mL | 1.00 | SFE | | 1622 | SFE/CR | J Flaged |
| 10 | ✓ | 10 | 1202444-03A | 35287 | 5"Hg-5psi | 200mL | 1.61 | SFE | | 1717 | SFE/CR | 80x Can 1st surr + matrix D.I. matrix + IC |
| 11 | ✓ | 11 | 1203356-01A | 33992 | 6.2"Hg-5psi | 250mL | 1.69 | SFE | | 1816 | SFE/CR | |
| 12 | ✓ | 12 | 02A | 33937 | 5.6"Hg-5psi | 250mL | 1.65 | SFE | | 1904 | SFE/CR | |
| 13 | ✓ | 13 | 03A | 33325 | 4.0"Hg-5psi | 250mL | 1.55 | SFE | | 2050 | SFE/CR | "E" Acetone |
| 14 | ✓ | 14 | 1203191-01A | 33938 | 27.4psi-80psi | 250mL | 1.00 | SFE | | 2134 | SFE/CR | 0 Acetone needed |

Signed — 3/20/12 Date — Reviewed — ~~03/20/12~~ 03/21/12 CR 03/21/12 Date

## Nitrogen Canister Pressurization #2

@Air Toxics Ltd.

Logbook #: 2390

0681 of 0747

*Manifold Certification (required every 24 hours and prior to sample pressurization):*

| Manifold Cert ID | Initials | Canister # | Cert. File # | Certified for : (Check one) | | | |
|---|---|---|---|---|---|---|---|
| | | | | SIM pptv No | SIM Hi/Lo | Low Level ✓ | QUAD |
| 2-3-19-12-1625 | [illegible] | 12330 | D031921 | | | | |

*Or indicate logbook page # with cert. information applicable to samples below: N/A .

Gauge ID: AT 0026

*Temperature Check →* *Temp:* 20.6°C *Date:* 3/20/12 *Time:* 0817 *Initials:* [illegible]

*Required per 20 samples*

**Manifold must be purged for ≥ 2 minutes between each sample.

| Date | Time** | Initials | Sample/Standard ID | Method Name | Canister # | Initial Pressure | Final Pressure (psi) |
|---|---|---|---|---|---|---|---|
| 3/20/12 | 0817 | [illegible] | 2403-3A (0.05 ppbv) (0.025 ppbv) | Hi/Lo | 10977 | 0.0"Hg | 15.0psi |
| ↓ | 0820 | [illegible] | 2403-2A (0.05 ppbv) (0.025 ppbv) | ↓ | 11307 | 0.0"Hg | 15.0psi |
| 3/20/12 | 0922 | BW | 1203408-01A | TO-15LL | 34425 | 9.5"Hg | 5psi |
| ↓ | 0931 | ↓ | -02A | ↓ | 5584 | 8.5"Hg | ↓ |
| | 0938 | | -03A | | 936 | 8.0"Hg | |
| | 0941 | | -04A | | 34503 | 9.0"Hg | |
| | 1034 | | -05A | | 12956 | 7.5"Hg | |
| ↓ | 1038 | ↓ | -06A | ↓ | 402 | 9.0"Hg | ↓ |
| 3/20/12 | 1059 | BW | 1203409-08A | TO-15 Hi/Lo | 5615 | 6.5"Hg | 5psi |
| ↓ | 1111 | ↓ | -09A | ↓ | 33922 | 7.5"Hg | ↓ |
| | 1117 | | -10A | | 5670 | 6.0"Hg | |
| | 1130 | | -11A | | 5603 | 6.0"Hg | |
| ↓ | 1134 | ↓ | -12A | ↓ | 94607 | 5.0"Hg | ↓ |
| 3/20/12 | 1138 | BW | 1202444-03A (CAN DILUTION) | TO-15 Hi/Lo | 24384 | 8.5"Hg | 15psi |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |



Signed:_____ Date:_____

Reviewed :_____ Date:_____

Air Toxics Ltd.

Data file : /chem/msde.i/08Mar2012.b/e030805.d
Lab Smp Id: BFB Client Smp ID: BFB
Inj Date : 08-MAR-2012 14:16
Operator : cr Inst ID: msde.i
Smp Info : 2.0ul #1476-2725; BFB Tune Check
Misc Info : 50ng
Comment :
Method : /chem/msde.i/08Mar2012.b/bfb60.m
Meth Date : 06-Mar-2012 11:48 Quant Type: ESTD
Cal Date : Cal File:
Als bottle: 31 QC Sample: BFB
Dil Factor: 1.58000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.50 Sample Matrix: WATER
Processing Host: eeyore

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

| Name | Value | Description |
|---|---|---|
| DF | 1.58000 | Dilution Factor |
| Uf | 1.00000 | ng unit correction factor |
| Vf | 1.00000 | Volumetric correction factor |
| Vi | 1.00000 | Injection Volume |

Cpnd Variable Local Compound Variable

| RT | EXP RT | DLT RT | MASS | RESPONSE | CONCENTRATIONS ON-COL ( ug/L) | CONCENTRATIONS FINAL ( ug/L) | TARGET RANGE | RATIO |
|---|---|---|---|---|---|---|---|---|
| 1 bfb | | | | | | | CAS #: 460-00-4 | |
| 7.082 | 7.100 | -0.018 | 95 | 537578 | | | 100.00- 100.00 | 100.00 |
| 7.082 | 7.100 | -0.018 | 50 | 78935 | | | 8.00- 40.00 | 14.68 |
| 7.082 | 7.100 | -0.018 | 75 | 271632 | | | 30.00- 66.00 | 50.53 |
| 7.082 | 7.100 | -0.018 | 96 | 36392 | | | 5.00- 9.00 | 6.77 |
| 7.082 | 7.100 | -0.018 | 173 | 2643 | | | 0.00- 1.99 | 0.71 |
| 7.082 | 7.100 | -0.018 | 174 | 369898 | | | 50.00- 120.00 | 68.81 |
| 7.082 | 7.100 | -0.018 | 175 | 26458 | | | 4.00- 9.00 | 7.15 |
| 7.082 | 7.100 | -0.018 | 176 | 357845 | | | 93.00- 101.00 | 96.74 |
| 7.082 | 7.100 | -0.018 | 177 | 23074 | | | 5.00- 9.00 | 6.45 |

Data File: /chem/msde.i/08Mar2012.b/e030805.d 

Date : 08-MAR-2012 14:16

Client ID: BFB

Instrument: msde.i

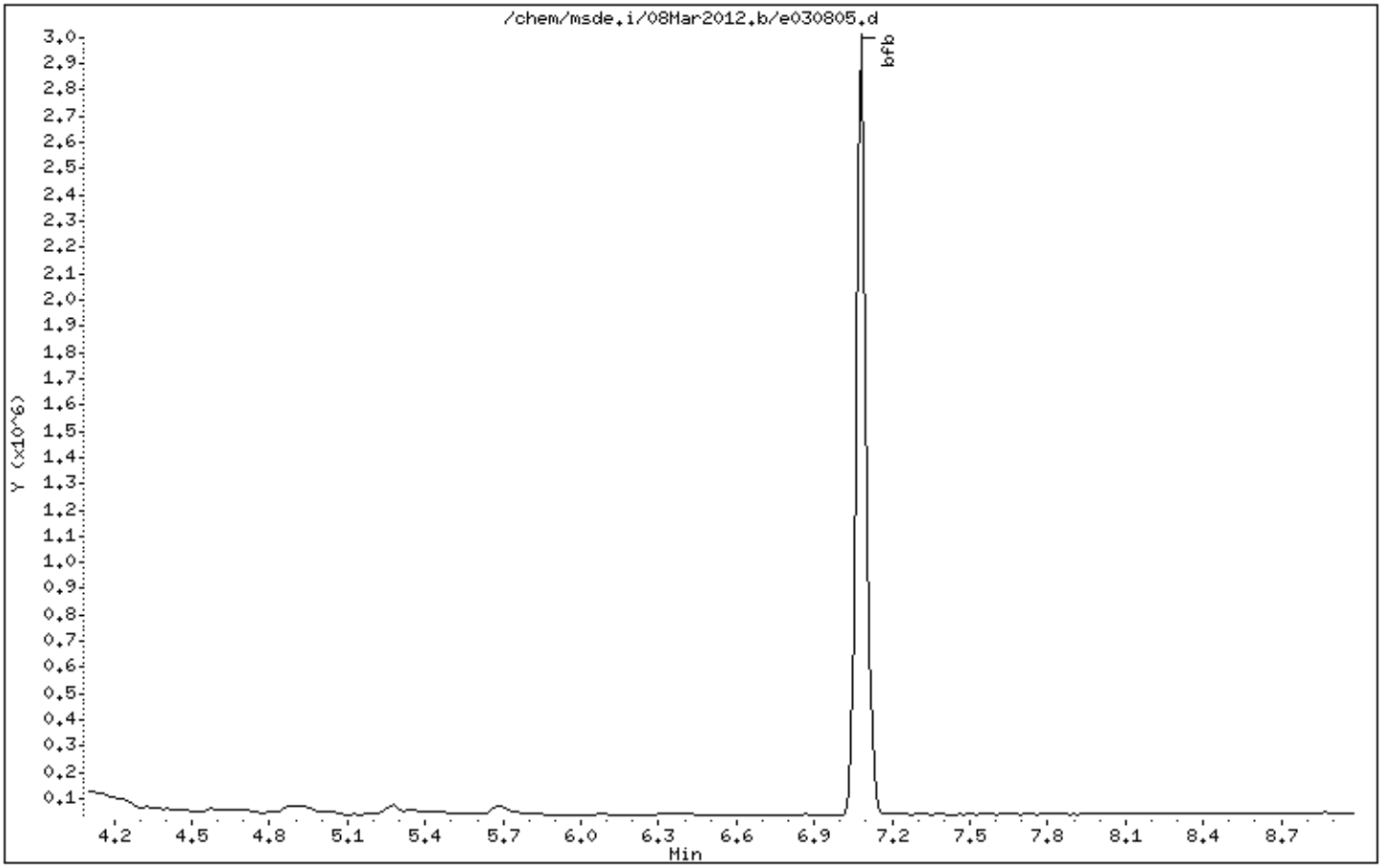
Sample Info: 2.0ul #1476-2725; BFB Tune Check

Volume Injected (uL): 1.0

Operator: cr

Column phase:

Column diameter: 2.00



Data File: /chem/msde.i/08Mar2012.b/e030805.d

Date : 08-MAR-2012 14:16

Client ID: BFB

Instrument: msde.i

Sample Info: 2.0ul #1476-2725; BFB Tune Check

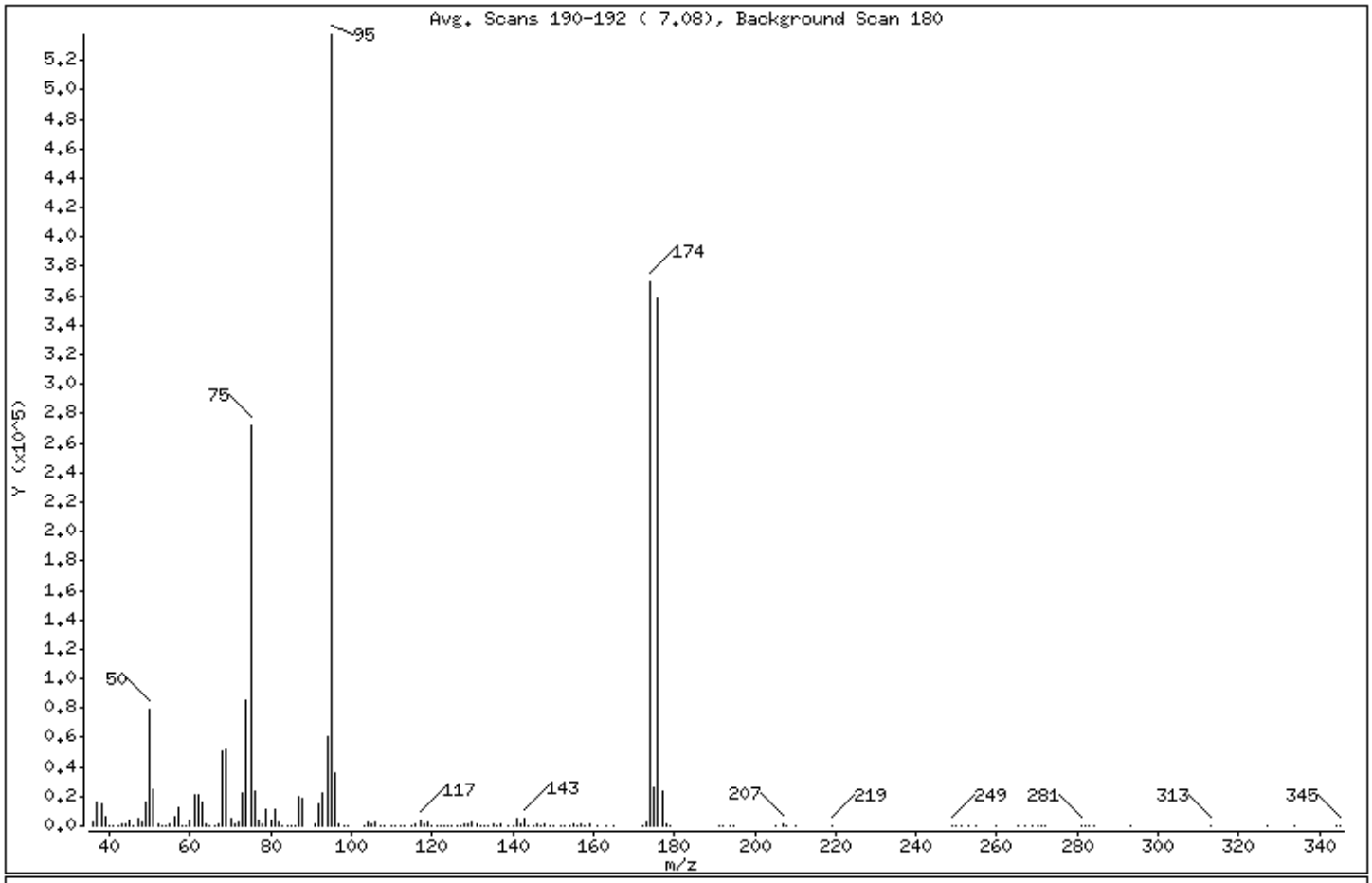
Volume Injected (uL): 1.0

Operator: cr

Column phase:

Column diameter: 2.00

1 bfb




| m/e | ION ABUNDANCE CRITERIA | % RELATIVE ABUNDANCE |
|---|---|---|
| 95 | Base Peak, 100% relative abundance | 100.00 |
| 50 | 8.00 - 40.00% of mass 95 | 14.68 |
| 75 | 30.00 - 66.00% of mass 95 | 50.53 |
| 96 | 5.00 - 9.00% of mass 95 | 6.77 |
| 173 | Less than 1.99% of mass 174 | 0.49 ( 0.71) |
| 174 | 50.00 - 120.00% of mass 95 | 68.81 |
| 175 | 4.00 - 9.00% of mass 174 | 4.92 ( 7.15) |
| 176 | 93.00 - 101.00% of mass 174 | 66.57 ( 96.74) |
| 177 | 5.00 - 9.00% of mass 176 | 4.29 ( 6.45) |

Data File: /chem/msde.i/08Mar2012.b/e030805.d

Date : 08-MAR-2012 14:16

Client ID: BFB

Instrument: msde.i

Sample Info: 2.0ul #1476-2725; BFB Tune Check

Volume Injected (uL): 1.0

Operator: cr

Column phase:

Column diameter: 2.00

Data File: e030805.d
Spectrum: Avg. Scans 190-192 ( 7.08), Background Scan 180
Location of Maximum: 95.00
Number of points: 157

| m/z | Y | m/z | Y | m/z | Y | m/z | Y |
|---|---|---|---|---|---|---|---|
| 36.00 | 3020 | 76.00 | 23504 | 123.00 | 172 | 174.00 | 369856 |
| 37.00 | 16672 | 77.00 | 3215 | 124.00 | 287 | 175.00 | 26456 |
| 38.00 | 14913 | 78.00 | 1803 | 125.00 | 367 | 176.00 | 357824 |
| 39.00 | 5886 | 79.00 | 10878 | 126.00 | 116 | 177.00 | 23072 |
| 40.00 | 138 | 80.00 | 3630 | 127.00 | 169 | 178.00 | 780 |
| 41.00 | 242 | 81.00 | 11509 | 128.00 | 1802 | 179.00 | 145 |
| 42.00 | 123 | 82.00 | 2532 | 129.00 | 890 | 191.00 | 141 |
| 43.00 | 711 | 83.00 | 287 | 130.00 | 1890 | 192.00 | 48 |
| 44.00 | 1500 | 84.00 | 196 | 131.00 | 797 | 194.00 | 24 |
| 45.00 | 3184 | 85.00 | 361 | 132.00 | 119 | 195.00 | 76 |
| 46.00 | 255 | 86.00 | 554 | 133.00 | 145 | 205.00 | 34 |
| 47.00 | 4450 | 87.00 | 19408 | 134.00 | 32 | 207.00 | 735 |
| 48.00 | 2231 | 88.00 | 18912 | 135.00 | 857 | 208.00 | 173 |
| 49.00 | 16384 | 91.00 | 1700 | 136.00 | 250 | 210.00 | 52 |
| 50.00 | 78928 | 92.00 | 14478 | 137.00 | 900 | 219.00 | 60 |
| 51.00 | 24224 | 93.00 | 21720 | 139.00 | 238 | 249.00 | 70 |
| 52.00 | 922 | 94.00 | 61048 | 140.00 | 313 | 250.00 | 33 |
| 53.00 | 141 | 95.00 | 537536 | 141.00 | 5178 | 251.00 | 48 |
| 54.00 | 34 | 96.00 | 36392 | 142.00 | 672 | 253.00 | 22 |
| 55.00 | 1146 | 97.00 | 1252 | 143.00 | 5471 | 255.00 | 54 |
| 56.00 | 6148 | 98.00 | 148 | 144.00 | 323 | 260.00 | 30 |
| 57.00 | 12208 | 99.00 | 116 | 145.00 | 539 | 265.00 | 35 |
| 58.00 | 563 | 103.00 | 307 | 146.00 | 848 | 267.00 | 63 |
| 59.00 | 85 | 104.00 | 2056 | 147.00 | 373 | 269.00 | 178 |
| 60.00 | 4140 | 105.00 | 625 | 148.00 | 1291 | 270.00 | 120 |
| 61.00 | 21048 | 106.00 | 1980 | 149.00 | 327 | 271.00 | 91 |
| 62.00 | 21200 | 107.00 | 600 | 150.00 | 508 | 272.00 | 43 |
| 63.00 | 15998 | 108.00 | 58 | 152.00 | 224 | 281.00 | 257 |
| 64.00 | 1616 | 110.00 | 284 | 153.00 | 361 | 282.00 | 73 |
| 65.00 | 534 | 111.00 | 348 | 154.00 | 337 | 283.00 | 20 |
| 66.00 | 151 | 112.00 | 314 | 155.00 | 1249 | 284.00 | 46 |
| 67.00 | 1118 | 113.00 | 364 | 156.00 | 410 | 293.00 | 40 |
| 68.00 | 50680 | 115.00 | 497 | 157.00 | 1012 | 313.00 | 38 |
| 69.00 | 51768 | 116.00 | 1772 | 158.00 | 293 | 327.00 | 51 |
| 70.00 | 4355 | 117.00 | 3305 | 159.00 | 687 | 334.00 | 70 |

Data File: /chem/msde.i/08Mar2012.b/e030805.d

Date : 08-MAR-2012 14:16

Client ID: BFB

Instrument: msde.i

Sample Info: 2.0ul #1476-2725; BFB Tune Check

Volume Injected (uL): 1.0

Operator: cr

Column phase:

Column diameter: 2.00

Data File: e030805.d
Spectrum: Avg. Scans 190-192 ( 7.08), Background Scan 180
Location of Maximum: 95.00
Number of points: 157

| m/z | Y | m/z | Y | m/z | Y | m/z | Y |
|---|---|---|---|---|---|---|---|
| 71.00 | 656 | 118.00 | 1844 | 161.00 | 568 | 344.00 | 35 |
| 72.00 | 2660 | 119.00 | 2612 | 163.00 | 50 | 345.00 | 72 |
| 73.00 | 21688 | 120.00 | 177 | 165.00 | 16 | | |
| 74.00 | 85304 | 121.00 | 127 | 172.00 | 504 | | |
| 75.00 | 271616 | 122.00 | 119 | 173.00 | 2643 | | |

Air Toxics Ltd.

Data file : /var/chem/msde.i/10Mar2012.b/e031001.d
Lab Smp Id: BFB Client Smp ID: BFB
Inj Date : 10-MAR-2012 10:00
Operator : cr Inst ID: msde.i
Smp Info : 2.0ul #1476-2725; BFB Tune Check
Misc Info : 50ng
Comment :
Method : /var/chem/msde.i/10Mar2012.b/bfb60.m
Meth Date : 10-Mar-2012 10:05 Quant Type: ESTD
Cal Date : Cal File:
Als bottle: 31 QC Sample: BFB
Dil Factor: 1.58000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.50 Sample Matrix: WATER
Processing Host: eeyore

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

| Name | Value | Description |
|---|---|---|
| DF | 1.58000 | Dilution Factor |
| Uf | 1.00000 | ng unit correction factor |
| Vf | 1.00000 | Volumetric correction factor |
| Vi | 1.00000 | Injection Volume |

Cpnd Variable Local Compound Variable

| RT | EXP RT | DLT RT | MASS | RESPONSE | CONCENTRATIONS ON-COL ( ug/L) | CONCENTRATIONS FINAL ( ug/L) | TARGET RANGE | RATIO |
|---|---|---|---|---|---|---|---|---|
| 1 bfb | | | | | | | CAS #: 460-00-4 | |
| 7.082 | 7.100 | -0.018 | 95 | 430080 | | | 100.00- 100.00 | 100.00 |
| 7.082 | 7.100 | -0.018 | 50 | 66845 | | | 8.00- 40.00 | 15.54 |
| 7.082 | 7.100 | -0.018 | 75 | 226657 | | | 30.00- 66.00 | 52.70 |
| 7.082 | 7.100 | -0.018 | 96 | 29780 | | | 5.00- 9.00 | 6.92 |
| 7.082 | 7.100 | -0.018 | 173 | 2240 | | | 0.00- 1.99 | 0.78 |
| 7.082 | 7.100 | -0.018 | 174 | 289002 | | | 50.00- 120.00 | 67.20 |
| 7.082 | 7.100 | -0.018 | 175 | 21218 | | | 4.00- 9.00 | 7.34 |
| 7.082 | 7.100 | -0.018 | 176 | 280362 | | | 93.00- 101.00 | 97.01 |
| 7.082 | 7.100 | -0.018 | 177 | 18711 | | | 5.00- 9.00 | 6.67 |

Data File: /var/chem/msde.i/10Mar2012.b/e031001.d 

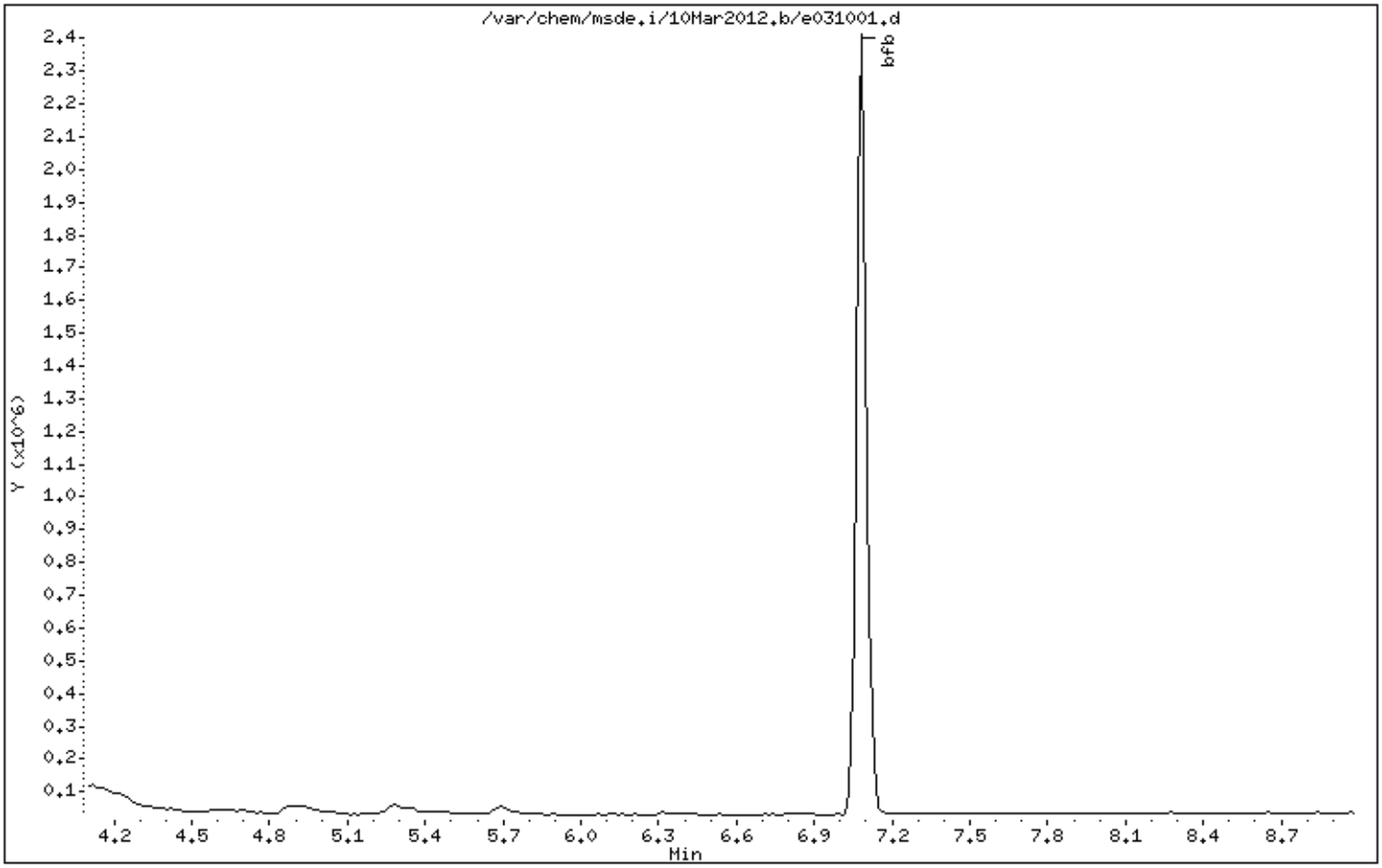
Date : 10-MAR-2012 10:00

Client ID: BFB Instrument: msde.i

Sample Info: 2.0ul #1476-2725; BFB Tune Check

Volume Injected (uL): 1.0 Operator: cr

Column phase: Column diameter: 2.00



Data File: /var/chem/msde.i/10Mar2012.b/e031001.d

Date : 10-MAR-2012 10:00

Client ID: BFB

Instrument: msde.i

Sample Info: 2.0ul #1476-2725; BFB Tune Check

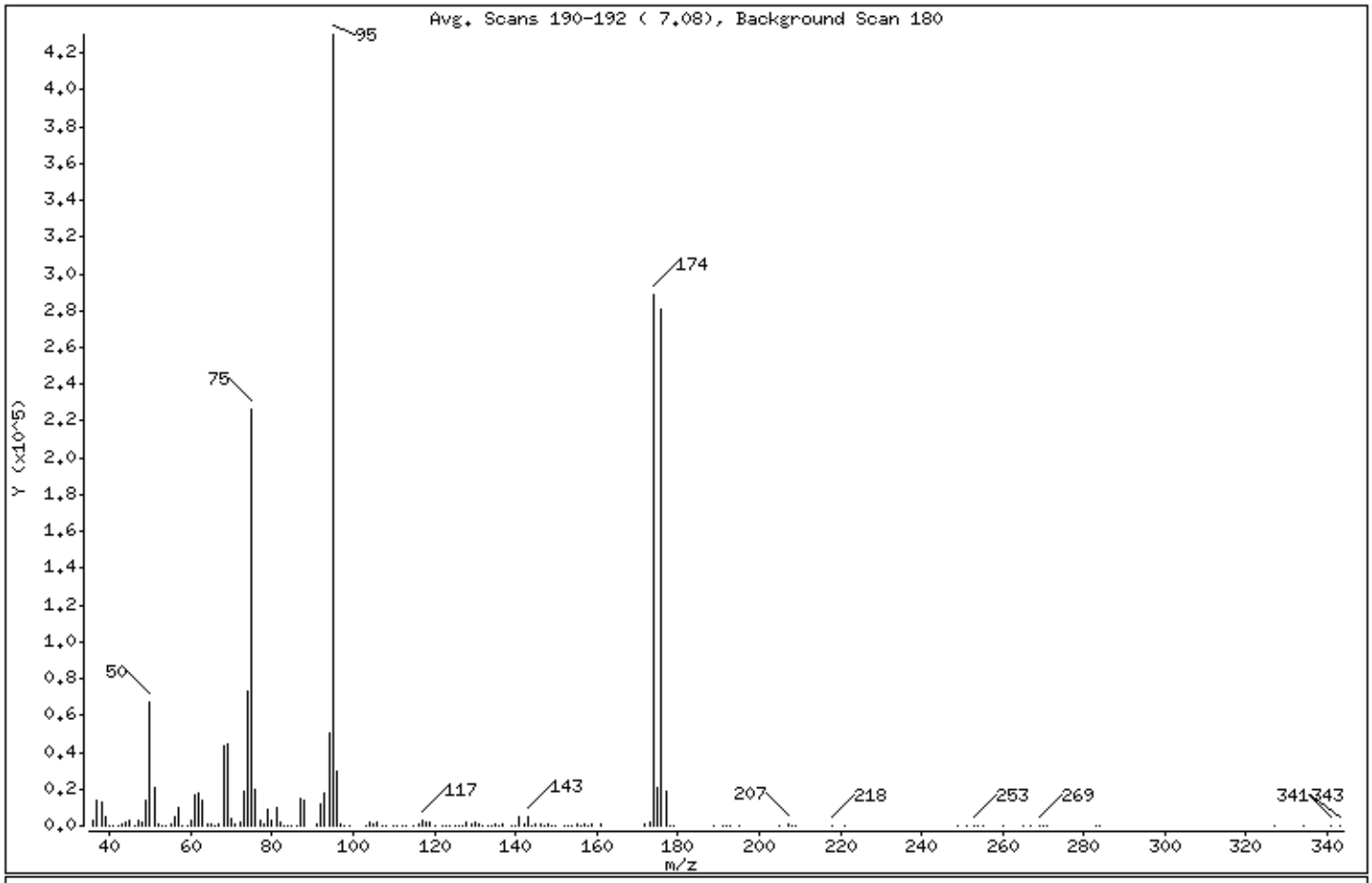
Volume Injected (uL): 1.0

Operator: cr

Column phase:

Column diameter: 2.00

1 bfb




| m/e | ION ABUNDANCE CRITERIA | % RELATIVE ABUNDANCE |
|---|---|---|
| 95 | Base Peak, 100% relative abundance | 100.00 |
| 50 | 8.00 - 40.00% of mass 95 | 15.54 |
| 75 | 30.00 - 66.00% of mass 95 | 52.70 |
| 96 | 5.00 - 9.00% of mass 95 | 6.92 |
| 173 | Less than 1.99% of mass 174 | 0.52 ( 0.78) |
| 174 | 50.00 - 120.00% of mass 95 | 67.20 |
| 175 | 4.00 - 9.00% of mass 174 | 4.93 ( 7.34) |
| 176 | 93.00 - 101.00% of mass 174 | 65.19 ( 97.01) |
| 177 | 5.00 - 9.00% of mass 176 | 4.35 ( 6.67) |

Date : 10-MAR-2012 10:00

Client ID: BFB Instrument: msde.i

Sample Info: 2.0ul #1476-2725; BFB Tune Check

Volume Injected (uL): 1.0 Operator: cr

Column phase: Column diameter: 2.00

Data File: e031001.d
Spectrum: Avg. Scans 190-192 ( 7.08), Background Scan 180
Location of Maximum: 95.00
Number of points: 151

| m/z | Y | m/z | Y | m/z | Y | m/z | Y |
|---|---|---|---|---|---|---|---|
| 36.00 | 2528 | 74.00 | 72768 | 119.00 | 2041 | 161.00 | 579 |
| 37.00 | 13791 | 75.00 | 226624 | 120.00 | 103 | 172.00 | 552 |
| 38.00 | 12401 | 76.00 | 19416 | 122.00 | 81 | 173.00 | 2240 |
| 39.00 | 5039 | 77.00 | 2649 | 123.00 | 127 | 174.00 | 288960 |
| 40.00 | 97 | 78.00 | 1293 | 124.00 | 186 | 175.00 | 21216 |
| 41.00 | 366 | 79.00 | 9318 | 125.00 | 229 | 176.00 | 280320 |
| 42.00 | 162 | 80.00 | 3055 | 126.00 | 211 | 177.00 | 18704 |
| 43.00 | 764 | 81.00 | 9888 | 127.00 | 31 | 178.00 | 477 |
| 44.00 | 1499 | 82.00 | 2144 | 128.00 | 1513 | 179.00 | 55 |
| 45.00 | 2833 | 83.00 | 271 | 129.00 | 703 | 189.00 | 81 |
| 46.00 | 160 | 84.00 | 126 | 130.00 | 1491 | 191.00 | 127 |
| 47.00 | 3147 | 85.00 | 250 | 131.00 | 656 | 192.00 | 51 |
| 48.00 | 1987 | 86.00 | 456 | 132.00 | 165 | 193.00 | 15 |
| 49.00 | 13357 | 87.00 | 14768 | 133.00 | 212 | 195.00 | 62 |
| 50.00 | 66840 | 88.00 | 14062 | 134.00 | 112 | 205.00 | 36 |
| 51.00 | 20368 | 91.00 | 1362 | 135.00 | 771 | 207.00 | 849 |
| 52.00 | 827 | 92.00 | 12313 | 136.00 | 181 | 208.00 | 53 |
| 53.00 | 53 | 93.00 | 18064 | 137.00 | 794 | 209.00 | 165 |
| 54.00 | 37 | 94.00 | 50416 | 139.00 | 185 | 218.00 | 75 |
| 55.00 | 934 | 95.00 | 430080 | 140.00 | 315 | 221.00 | 37 |
| 56.00 | 5109 | 96.00 | 29776 | 141.00 | 4685 | 249.00 | 90 |
| 57.00 | 9946 | 97.00 | 891 | 142.00 | 544 | 251.00 | 40 |
| 58.00 | 449 | 98.00 | 95 | 143.00 | 4838 | 253.00 | 156 |
| 59.00 | 64 | 99.00 | 71 | 144.00 | 297 | 254.00 | 37 |
| 60.00 | 3247 | 103.00 | 197 | 145.00 | 512 | 255.00 | 141 |
| 61.00 | 17232 | 104.00 | 1676 | 146.00 | 658 | 260.00 | 63 |
| 62.00 | 17736 | 105.00 | 500 | 147.00 | 336 | 265.00 | 35 |
| 63.00 | 13876 | 106.00 | 1764 | 148.00 | 1062 | 267.00 | 52 |
| 64.00 | 1347 | 107.00 | 434 | 149.00 | 424 | 269.00 | 171 |
| 65.00 | 504 | 108.00 | 38 | 150.00 | 430 | 270.00 | 19 |
| 66.00 | 61 | 110.00 | 242 | 152.00 | 209 | 271.00 | 91 |
| 67.00 | 810 | 111.00 | 350 | 153.00 | 274 | 283.00 | 46 |
| 68.00 | 43024 | 112.00 | 293 | 154.00 | 324 | 284.00 | 34 |
| 69.00 | 44424 | 113.00 | 405 | 155.00 | 1027 | 327.00 | 87 |
| 70.00 | 3597 | 115.00 | 432 | 156.00 | 307 | 334.00 | 35 |

Date : 10-MAR-2012 10:00

Client ID: BFB Instrument: msde.i

Sample Info: 2.0ul #1476-2725; BFB Tune Check

Volume Injected (uL): 1.0 Operator: cr

Column phase: Column diameter: 2.00

Data File: e031001.d
Spectrum: Avg. Scans 190-192 ( 7.08), Background Scan 180
Location of Maximum: 95.00
Number of points: 151

| m/z | Y | m/z | Y | m/z | Y | m/z | Y |
|---|---|---|---|---|---|---|---|
| 71.00 | 550 | 116.00 | 1448 | 157.00 | 803 | 341.00 | 99 |
| 72.00 | 2403 | 117.00 | 2556 | 158.00 | 383 | 343.00 | 107 |
| 73.00 | 18872 | 118.00 | 1513 | 159.00 | 495 | | |

Air Toxics Ltd.

Data file : /var/chem/msde.i/13Mar2012.b/e031301.d
Lab Smp Id: BFB Client Smp ID: BFB
Inj Date : 13-MAR-2012 08:49
Operator : ll Inst ID: msde.i
Smp Info : 2.0ul #1476-2725; BFB Tune Check
Misc Info : 50ng
Comment :
Method : /var/chem/msde.i/13Mar2012.b/bfb60.m
Meth Date : 13-Mar-2012 07:55 Quant Type: ESTD
Cal Date : Cal File:
Als bottle: 31 QC Sample: BFB
Dil Factor: 1.58000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.50 Sample Matrix: WATER
Processing Host: eeyore

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

| Name | Value | Description |
|---|---|---|
| DF | 1.58000 | Dilution Factor |
| Uf | 1.00000 | ng unit correction factor |
| Vf | 1.00000 | Volumetric correction factor |
| Vi | 1.00000 | Injection Volume |

Cpnd Variable Local Compound Variable

| RT | EXP RT | DLT RT | MASS | RESPONSE | CONCENTRATIONS ON-COL ( ug/L) | CONCENTRATIONS FINAL ( ug/L) | TARGET RANGE | RATIO |
|---|---|---|---|---|---|---|---|---|
| 1 bfb | | | | | | | CAS #: 460-00-4 | |
| 7.082 | 7.100 | -0.018 | 95 | 610552 | | | 100.00- 100.00 | 100.00 |
| 7.082 | 7.100 | -0.018 | 50 | 98047 | | | 8.00- 40.00 | 16.06 |
| 7.082 | 7.100 | -0.018 | 75 | 332734 | | | 30.00- 66.00 | 54.50 |
| 7.082 | 7.100 | -0.018 | 96 | 41473 | | | 5.00- 9.00 | 6.79 |
| 7.082 | 7.100 | -0.018 | 173 | 3438 | | | 0.00- 1.99 | 0.84 |
| 7.082 | 7.100 | -0.018 | 174 | 409301 | | | 50.00- 120.00 | 67.04 |
| 7.082 | 7.100 | -0.018 | 175 | 29304 | | | 4.00- 9.00 | 7.16 |
| 7.082 | 7.100 | -0.018 | 176 | 397705 | | | 93.00- 101.00 | 97.17 |
| 7.082 | 7.100 | -0.018 | 177 | 25542 | | | 5.00- 9.00 | 6.42 |

Data File: /var/chem/msde.i/13Mar2012.b/e031301.d 

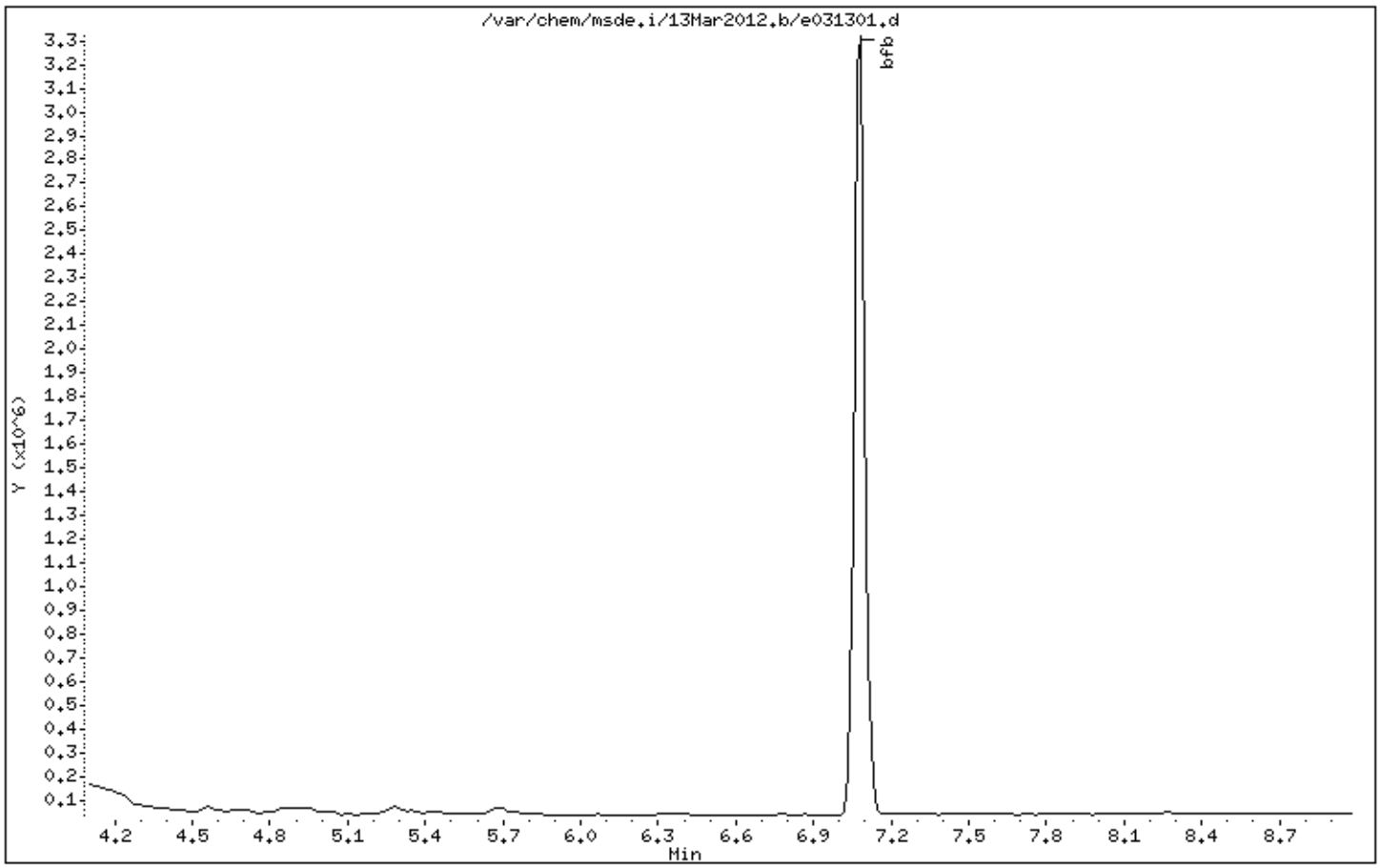
Date : 13-MAR-2012 08:49

Client ID: BFB Instrument: msde.i

Sample Info: 2.0ul #1476-2725; BFB Tune Check

Volume Injected (uL): 1.0 Operator: ll

Column phase: Column diameter: 2.00



Data File: /var/chem/msde.i/13Mar2012.b/e031301.d

Date : 13-MAR-2012 08:49

Client ID: BFB

Instrument: msde.i

Sample Info: 2.0ul #1476-2725; BFB Tune Check

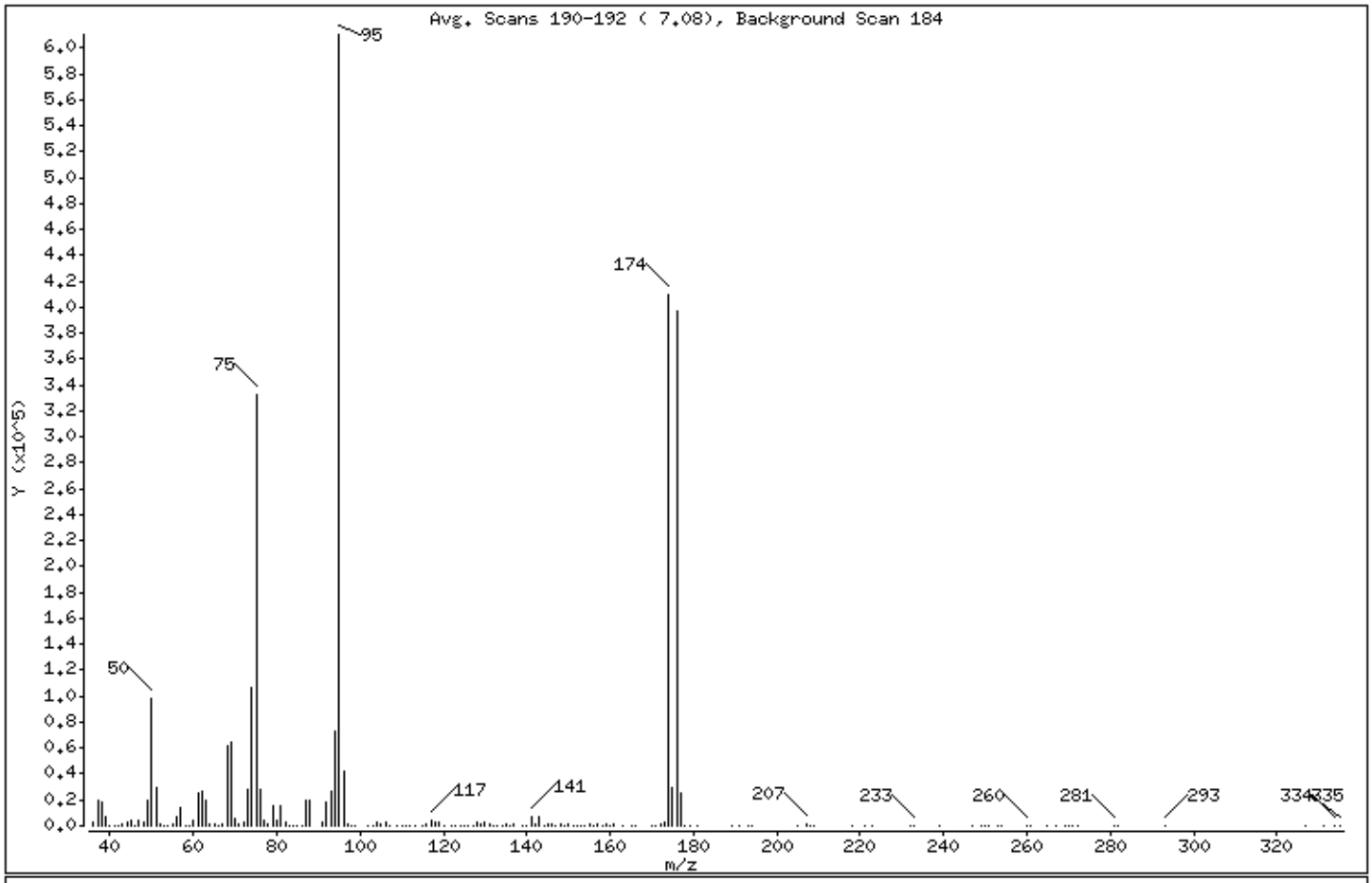
Volume Injected (uL): 1.0

Operator: ll

Column phase:

Column diameter: 2.00

1 bfb




| m/e | ION ABUNDANCE CRITERIA | % RELATIVE ABUNDANCE |
|---|---|---|
| 95 | Base Peak, 100% relative abundance | 100.00 |
| 50 | 8.00 - 40.00% of mass 95 | 16.06 |
| 75 | 30.00 - 66.00% of mass 95 | 54.50 |
| 96 | 5.00 - 9.00% of mass 95 | 6.79 |
| 173 | Less than 1.99% of mass 174 | 0.56 ( 0.84) |
| 174 | 50.00 - 120.00% of mass 95 | 67.04 |
| 175 | 4.00 - 9.00% of mass 174 | 4.80 ( 7.16) |
| 176 | 93.00 - 101.00% of mass 174 | 65.14 ( 97.17) |
| 177 | 5.00 - 9.00% of mass 176 | 4.18 ( 6.42) |

Date : 13-MAR-2012 08:49

Client ID: BFB Instrument: msde.i

Sample Info: 2.0ul #1476-2725; BFB Tune Check

Volume Injected (uL): 1.0 Operator: ll

Column phase: Column diameter: 2.00

Data File: e031301.d
Spectrum: Avg. Scans 190-192 ( 7.08), Background Scan 184
Location of Maximum: 95.00
Number of points: 167

| m/z | Y | m/z | Y | m/z | Y | m/z | Y |
|---|---|---|---|---|---|---|---|
| 36.00 | 3458 | 78.00 | 1999 | 127.00 | 137 | 175.00 | 29304 |
| 37.00 | 19864 | 79.00 | 14924 | 128.00 | 2302 | 176.00 | 397696 |
| 38.00 | 17680 | 80.00 | 4598 | 129.00 | 1114 | 177.00 | 25536 |
| 39.00 | 7407 | 81.00 | 15808 | 130.00 | 2356 | 178.00 | 672 |
| 40.00 | 277 | 82.00 | 3479 | 131.00 | 802 | 179.00 | 55 |
| 41.00 | 299 | 83.00 | 476 | 132.00 | 175 | 181.00 | 79 |
| 42.00 | 4 | 84.00 | 163 | 133.00 | 130 | 189.00 | 38 |
| 43.00 | 894 | 85.00 | 425 | 134.00 | 62 | 191.00 | 111 |
| 44.00 | 2573 | 86.00 | 592 | 135.00 | 1047 | 193.00 | 268 |
| 45.00 | 3980 | 87.00 | 20136 | 136.00 | 251 | 194.00 | 109 |
| 46.00 | 216 | 88.00 | 19944 | 137.00 | 1100 | 205.00 | 40 |
| 47.00 | 4187 | 91.00 | 2135 | 139.00 | 268 | 207.00 | 911 |
| 48.00 | 2690 | 92.00 | 18400 | 140.00 | 392 | 208.00 | 229 |
| 49.00 | 20240 | 93.00 | 26920 | 141.00 | 7524 | 209.00 | 26 |
| 50.00 | 98040 | 94.00 | 73616 | 142.00 | 945 | 218.00 | 37 |
| 51.00 | 29840 | 95.00 | 610496 | 143.00 | 7459 | 221.00 | 35 |
| 52.00 | 1281 | 96.00 | 41472 | 144.00 | 469 | 223.00 | 35 |
| 53.00 | 116 | 97.00 | 1128 | 145.00 | 751 | 232.00 | 69 |
| 54.00 | 102 | 98.00 | 115 | 146.00 | 975 | 233.00 | 77 |
| 55.00 | 1524 | 99.00 | 99 | 147.00 | 519 | 239.00 | 61 |
| 56.00 | 7314 | 102.00 | 81 | 148.00 | 1313 | 247.00 | 138 |
| 57.00 | 14653 | 103.00 | 357 | 149.00 | 326 | 249.00 | 38 |
| 58.00 | 604 | 104.00 | 2873 | 150.00 | 747 | 250.00 | 52 |
| 59.00 | 76 | 105.00 | 863 | 151.00 | 34 | 251.00 | 43 |
| 60.00 | 4649 | 106.00 | 2560 | 152.00 | 318 | 253.00 | 36 |
| 61.00 | 25592 | 107.00 | 598 | 153.00 | 542 | 254.00 | 91 |
| 62.00 | 26200 | 109.00 | 41 | 154.00 | 452 | 260.00 | 143 |
| 63.00 | 19936 | 110.00 | 428 | 155.00 | 1474 | 261.00 | 113 |
| 64.00 | 1872 | 111.00 | 477 | 156.00 | 559 | 265.00 | 97 |
| 65.00 | 746 | 112.00 | 457 | 157.00 | 1155 | 267.00 | 41 |
| 66.00 | 163 | 113.00 | 507 | 158.00 | 467 | 269.00 | 232 |
| 67.00 | 1424 | 115.00 | 557 | 159.00 | 900 | 270.00 | 100 |
| 68.00 | 61768 | 116.00 | 1976 | 160.00 | 43 | 271.00 | 122 |
| 69.00 | 64080 | 117.00 | 3764 | 161.00 | 741 | 272.00 | 41 |
| 70.00 | 5039 | 118.00 | 2242 | 163.00 | 114 | 281.00 | 243 |

Date : 13-MAR-2012 08:49

Client ID: BFB Instrument: msde.i

Sample Info: 2.0ul #1476-2725; BFB Tune Check

Volume Injected (uL): 1.0 Operator: ll

Column phase: Column diameter: 2.00

Data File: e031301.d
Spectrum: Avg. Scans 190-192 ( 7.08), Background Scan 184
Location of Maximum: 95.00
Number of points: 167

| m/z | Y | m/z | Y | m/z | Y | m/z | Y |
|---|---|---|---|---|---|---|---|
| 71.00 | 754 | 119.00 | 3106 | 165.00 | 38 | 282.00 | 211 |
| 72.00 | 3185 | 120.00 | 172 | 166.00 | 34 | 293.00 | 44 |
| 73.00 | 27400 | 122.00 | 145 | 170.00 | 34 | 327.00 | 52 |
| 74.00 | 106832 | 123.00 | 212 | 171.00 | 35 | 331.00 | 52 |
| 75.00 | 332672 | 124.00 | 390 | 172.00 | 982 | 334.00 | 91 |
| 76.00 | 28288 | 125.00 | 223 | 173.00 | 3438 | 335.00 | 89 |
| 77.00 | 3597 | 126.00 | 170 | 174.00 | 409280 | | |

Air Toxics Ltd.

Data file : /var/chem/msde.i/14Mar2012.b/e031401.d
Lab Smp Id: BFB Client Smp ID: BFB
Inj Date : 14-MAR-2012 07:54
Operator : LL Inst ID: msde.i
Smp Info : 2.0ul #1476-2725; BFB Tune Check
Misc Info : 50ng
Comment :
Method : /var/chem/msde.i/14Mar2012.b/bfb60.m
Meth Date : 14-Mar-2012 06:59 Quant Type: ESTD
Cal Date : Cal File:
Als bottle: 31 QC Sample: BFB
Dil Factor: 1.58000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.50 Sample Matrix: WATER
Processing Host: eeyore

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

| Name | Value | Description |
|---|---|---|
| DF | 1.58000 | Dilution Factor |
| Uf | 1.00000 | ng unit correction factor |
| Vf | 1.00000 | Volumetric correction factor |
| Vi | 1.00000 | Injection Volume |

Cpnd Variable Local Compound Variable

| | | | | | CONCENTRATIONS ON-COL | FINAL | | |
|---|---|---|---|---|---|---|---|---|
| RT | EXP RT | DLT RT | MASS | RESPONSE | ( ug/L) | ( ug/L) | TARGET RANGE | RATIO |
| 1 bfb | | | | | | | CAS #: 460-00-4 | |
| 7.066 | 7.100 | -0.034 | 95 | 574208 | | | 100.00- 100.00 | 100.00 |
| 7.066 | 7.100 | -0.034 | 50 | 92127 | | | 8.00- 40.00 | 16.04 |
| 7.066 | 7.100 | -0.034 | 75 | 309176 | | | 30.00- 66.00 | 53.84 |
| 7.066 | 7.100 | -0.034 | 96 | 39888 | | | 5.00- 9.00 | 6.95 |
| 7.066 | 7.100 | -0.034 | 173 | 2935 | | | 0.00- 1.99 | 0.81 |
| 7.066 | 7.100 | -0.034 | 174 | 363221 | | | 50.00- 120.00 | 63.26 |
| 7.066 | 7.100 | -0.034 | 175 | 26764 | | | 4.00- 9.00 | 7.37 |
| 7.066 | 7.100 | -0.034 | 176 | 349858 | | | 93.00- 101.00 | 96.32 |
| 7.066 | 7.100 | -0.034 | 177 | 22434 | | | 5.00- 9.00 | 6.41 |

Data File: /var/chem/msde.i/14Mar2012.b/e031401.d 

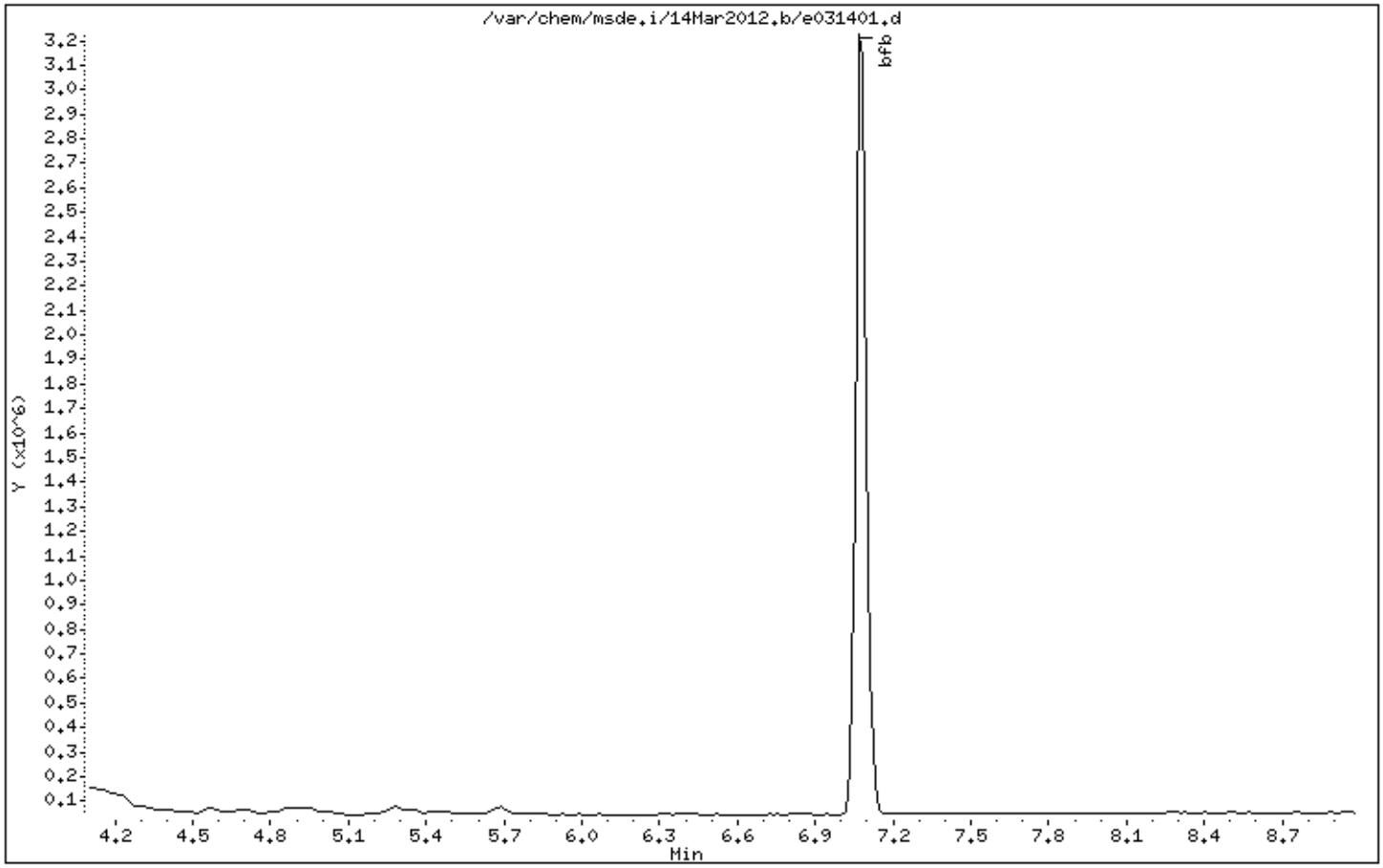
Date : 14-MAR-2012 07:54

Client ID: BFB Instrument: msde.i

Sample Info: 2.0ul #1476-2725; BFB Tune Check

Volume Injected (uL): 1.0 Operator: LL

Column phase: Column diameter: 2.00



Data File: /var/chem/msde.i/14Mar2012.b/e031401.d

Date : 14-MAR-2012 07:54

Client ID: BFB

Instrument: msde.i

Sample Info: 2.0ul #1476-2725; BFB Tune Check

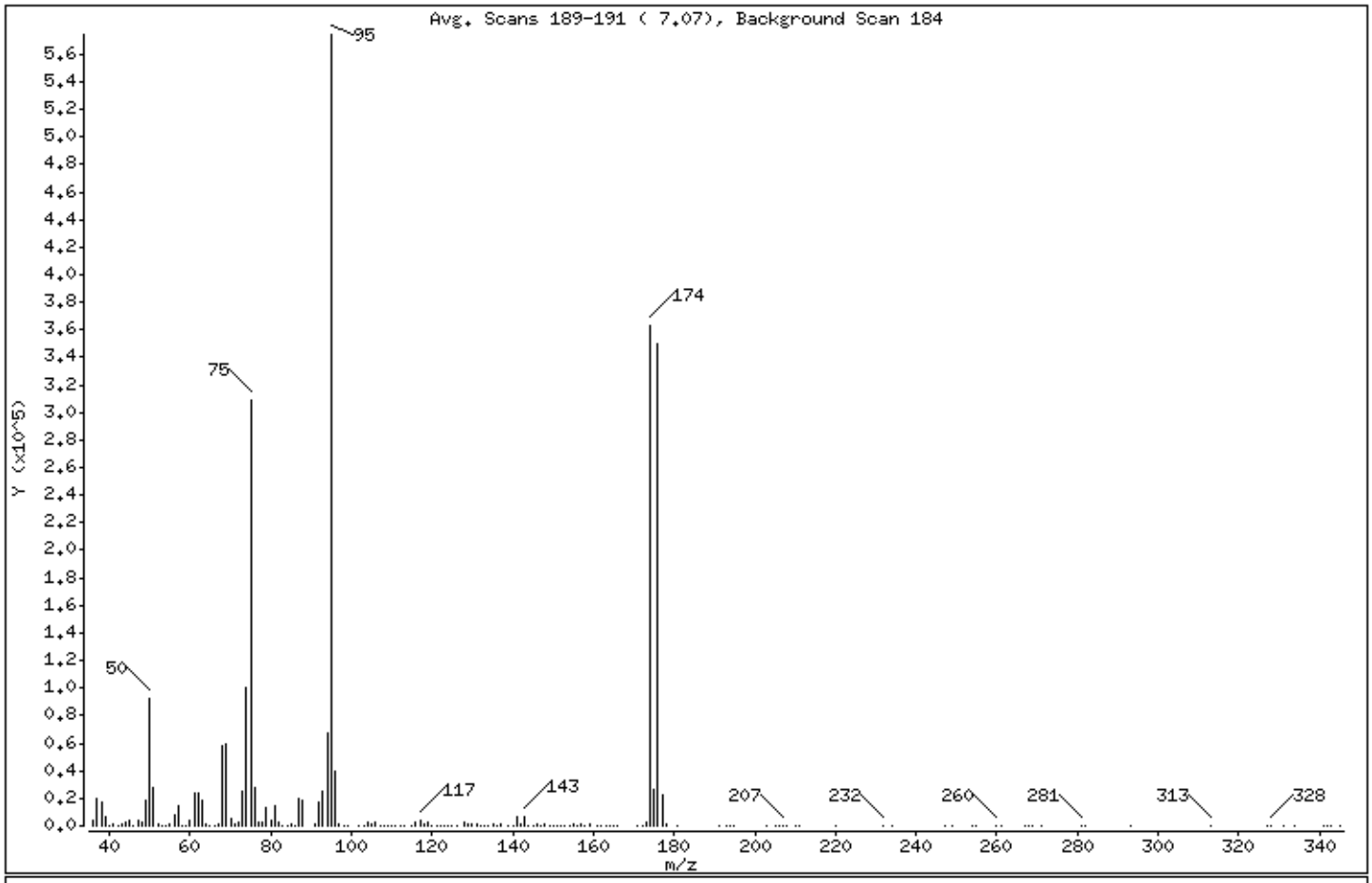
Volume Injected (uL): 1.0

Operator: LL

Column phase:

Column diameter: 2.00

1 bfb




| m/e | ION ABUNDANCE CRITERIA | % RELATIVE ABUNDANCE |
|---|---|---|
| 95 | Base Peak, 100% relative abundance | 100.00 |
| 50 | 8.00 - 40.00% of mass 95 | 16.04 |
| 75 | 30.00 - 66.00% of mass 95 | 53.84 |
| 96 | 5.00 - 9.00% of mass 95 | 6.95 |
| 173 | Less than 1.99% of mass 174 | 0.51 ( 0.81) |
| 174 | 50.00 - 120.00% of mass 95 | 63.26 |
| 175 | 4.00 - 9.00% of mass 174 | 4.66 ( 7.37) |
| 176 | 93.00 - 101.00% of mass 174 | 60.93 ( 96.32) |
| 177 | 5.00 - 9.00% of mass 176 | 3.91 ( 6.41) |

Date : 14-MAR-2012 07:54

Client ID: BFB Instrument: msde.i

Sample Info: 2.0ul #1476-2725; BFB Tune Check

Volume Injected (uL): 1.0 Operator: LL

Column phase: Column diameter: 2.00

Data File: e031401.d
Spectrum: Avg. Scans 189-191 ( 7.07), Background Scan 184
Location of Maximum: 95.00
Number of points: 168

| m/z | Y | m/z | Y | m/z | Y | m/z | Y |
|---|---|---|---|---|---|---|---|
| 36.00 | 3386 | 79.00 | 13151 | 128.00 | 2067 | 177.00 | 22432 |
| 37.00 | 19592 | 80.00 | 4337 | 129.00 | 942 | 178.00 | 722 |
| 38.00 | 17480 | 81.00 | 13923 | 130.00 | 1948 | 181.00 | 33 |
| 39.00 | 6986 | 82.00 | 2948 | 131.00 | 827 | 191.00 | 97 |
| 40.00 | 282 | 83.00 | 337 | 132.00 | 140 | 193.00 | 99 |
| 41.00 | 787 | 84.00 | 395 | 133.00 | 164 | 194.00 | 13 |
| 42.00 | 392 | 85.00 | 832 | 134.00 | 183 | 195.00 | 49 |
| 43.00 | 1922 | 86.00 | 538 | 135.00 | 836 | 203.00 | 43 |
| 44.00 | 2050 | 87.00 | 19448 | 136.00 | 116 | 205.00 | 105 |
| 45.00 | 3814 | 88.00 | 18312 | 137.00 | 927 | 206.00 | 38 |
| 46.00 | 251 | 91.00 | 1879 | 139.00 | 225 | 207.00 | 416 |
| 47.00 | 4436 | 92.00 | 17176 | 140.00 | 397 | 208.00 | 152 |
| 48.00 | 2567 | 93.00 | 24952 | 141.00 | 6087 | 210.00 | 4 |
| 49.00 | 19128 | 94.00 | 66744 | 142.00 | 874 | 211.00 | 41 |
| 50.00 | 92120 | 95.00 | 574208 | 143.00 | 6375 | 220.00 | 38 |
| 51.00 | 28088 | 96.00 | 39888 | 144.00 | 369 | 232.00 | 143 |
| 52.00 | 1194 | 97.00 | 1154 | 145.00 | 622 | 234.00 | 38 |
| 53.00 | 114 | 98.00 | 265 | 146.00 | 881 | 247.00 | 138 |
| 54.00 | 132 | 99.00 | 177 | 147.00 | 271 | 249.00 | 44 |
| 55.00 | 1605 | 102.00 | 84 | 148.00 | 1295 | 254.00 | 122 |
| 56.00 | 7472 | 103.00 | 207 | 149.00 | 417 | 255.00 | 41 |
| 57.00 | 14974 | 104.00 | 2244 | 150.00 | 649 | 260.00 | 155 |
| 58.00 | 609 | 105.00 | 805 | 151.00 | 50 | 261.00 | 11 |
| 59.00 | 113 | 106.00 | 2209 | 152.00 | 280 | 267.00 | 131 |
| 60.00 | 4594 | 107.00 | 659 | 153.00 | 456 | 268.00 | 35 |
| 61.00 | 23840 | 108.00 | 72 | 154.00 | 407 | 269.00 | 179 |
| 62.00 | 23984 | 109.00 | 79 | 155.00 | 1308 | 271.00 | 85 |
| 63.00 | 18616 | 110.00 | 307 | 156.00 | 644 | 281.00 | 254 |
| 64.00 | 1779 | 111.00 | 410 | 157.00 | 959 | 282.00 | 159 |
| 65.00 | 531 | 112.00 | 422 | 158.00 | 359 | 293.00 | 81 |
| 66.00 | 181 | 113.00 | 525 | 159.00 | 760 | 313.00 | 34 |
| 67.00 | 1459 | 115.00 | 616 | 161.00 | 581 | 327.00 | 30 |
| 68.00 | 58544 | 116.00 | 2083 | 162.00 | 136 | 328.00 | 135 |
| 69.00 | 59616 | 117.00 | 3360 | 163.00 | 5 | 331.00 | 84 |
| 70.00 | 5008 | 118.00 | 1937 | 164.00 | 94 | 334.00 | 1 |

Date : 14-MAR-2012 07:54

Client ID: BFB Instrument: msde.i

Sample Info: 2.0ul #1476-2725; BFB Tune Check

Volume Injected (uL): 1.0 Operator: LL

Column phase: Column diameter: 2.00

Data File: e031401.d
Spectrum: Avg. Scans 189-191 ( 7.07), Background Scan 184
Location of Maximum: 95.00
Number of points: 168

| m/z | Y | m/z | Y | m/z | Y | m/z | Y |
|---|---|---|---|---|---|---|---|
| 71.00 | 1302 | 119.00 | 2958 | 165.00 | 52 | 341.00 | 30 |
| 72.00 | 3012 | 120.00 | 70 | 166.00 | 35 | 342.00 | 35 |
| 73.00 | 25208 | 121.00 | 70 | 171.00 | 44 | 343.00 | 1 |
| 74.00 | 99744 | 122.00 | 124 | 172.00 | 411 | 345.00 | 19 |
| 75.00 | 309120 | 123.00 | 190 | 173.00 | 2935 | | |
| 76.00 | 27272 | 124.00 | 323 | 174.00 | 363200 | | |
| 77.00 | 3188 | 125.00 | 283 | 175.00 | 26760 | | |
| 78.00 | 2020 | 126.00 | 310 | 176.00 | 349824 | | |

Air Toxics Ltd.

Data file : /var/chem/msde.i/15Mar2012.b/e031501.d
Lab Smp Id: BFB Client Smp ID: BFB
Inj Date : 15-MAR-2012 07:25
Operator : ll Inst ID: msde.i
Smp Info : 2.0ul #1476-2725; BFB Tune Check
Misc Info : 50ng
Comment :
Method : /var/chem/msde.i/15Mar2012.b/bfb60.m
Meth Date : 15-Mar-2012 06:30 Quant Type: ESTD
Cal Date : Cal File:
Als bottle: 31 QC Sample: BFB
Dil Factor: 1.58000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.50 Sample Matrix: WATER
Processing Host: eeyore

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

| Name | Value | Description |
|---|---|---|
| DF | 1.58000 | Dilution Factor |
| Uf | 1.00000 | ng unit correction factor |
| Vf | 1.00000 | Volumetric correction factor |
| Vi | 1.00000 | Injection Volume |

Cpnd Variable Local Compound Variable

| RT | EXP RT | DLT RT | MASS | RESPONSE | CONCENTRATIONS ON-COL ( ug/L) | CONCENTRATIONS FINAL ( ug/L) | TARGET RANGE | RATIO |
|---|---|---|---|---|---|---|---|---|
| 1 bfb | | | | | | | CAS #: 460-00-4 | |
| 7.082 | 7.100 | -0.018 | 95 | 436928 | | | 100.00- 100.00 | 100.00 |
| 7.082 | 7.100 | -0.018 | 50 | 69551 | | | 8.00- 40.00 | 15.92 |
| 7.082 | 7.100 | -0.018 | 75 | 237295 | | | 30.00- 66.00 | 54.31 |
| 7.082 | 7.100 | -0.018 | 96 | 30207 | | | 5.00- 9.00 | 6.91 |
| 7.082 | 7.100 | -0.018 | 173 | 2275 | | | 0.00- 1.99 | 0.83 |
| 7.082 | 7.100 | -0.018 | 174 | 275709 | | | 50.00- 120.00 | 63.10 |
| 7.082 | 7.100 | -0.018 | 175 | 20138 | | | 4.00- 9.00 | 7.30 |
| 7.082 | 7.100 | -0.018 | 176 | 266837 | | | 93.00- 101.00 | 96.78 |
| 7.082 | 7.100 | -0.018 | 177 | 17430 | | | 5.00- 9.00 | 6.53 |

Data File: /var/chem/msde.i/15Mar2012.b/e031501.d 

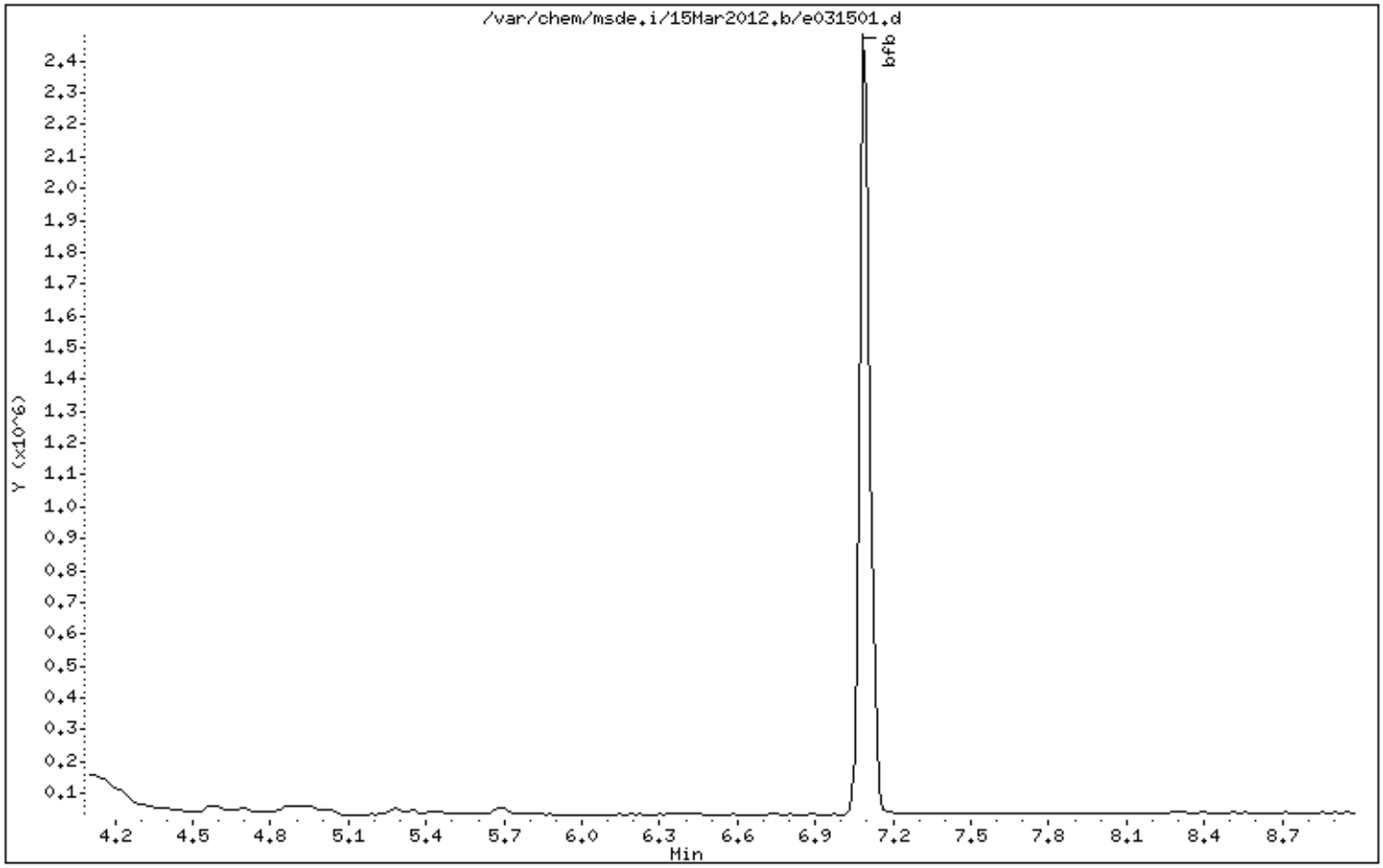
Date : 15-MAR-2012 07:25

Client ID: BFB Instrument: msde.i

Sample Info: 2.0ul #1476-2725; BFB Tune Check

Volume Injected (uL): 1.0 Operator: ll

Column phase: Column diameter: 2.00



Data File: /var/chem/msde.i/15Mar2012.b/e031501.d

Date : 15-MAR-2012 07:25

Client ID: BFB

Instrument: msde.i

Sample Info: 2.0ul #1476-2725; BFB Tune Check

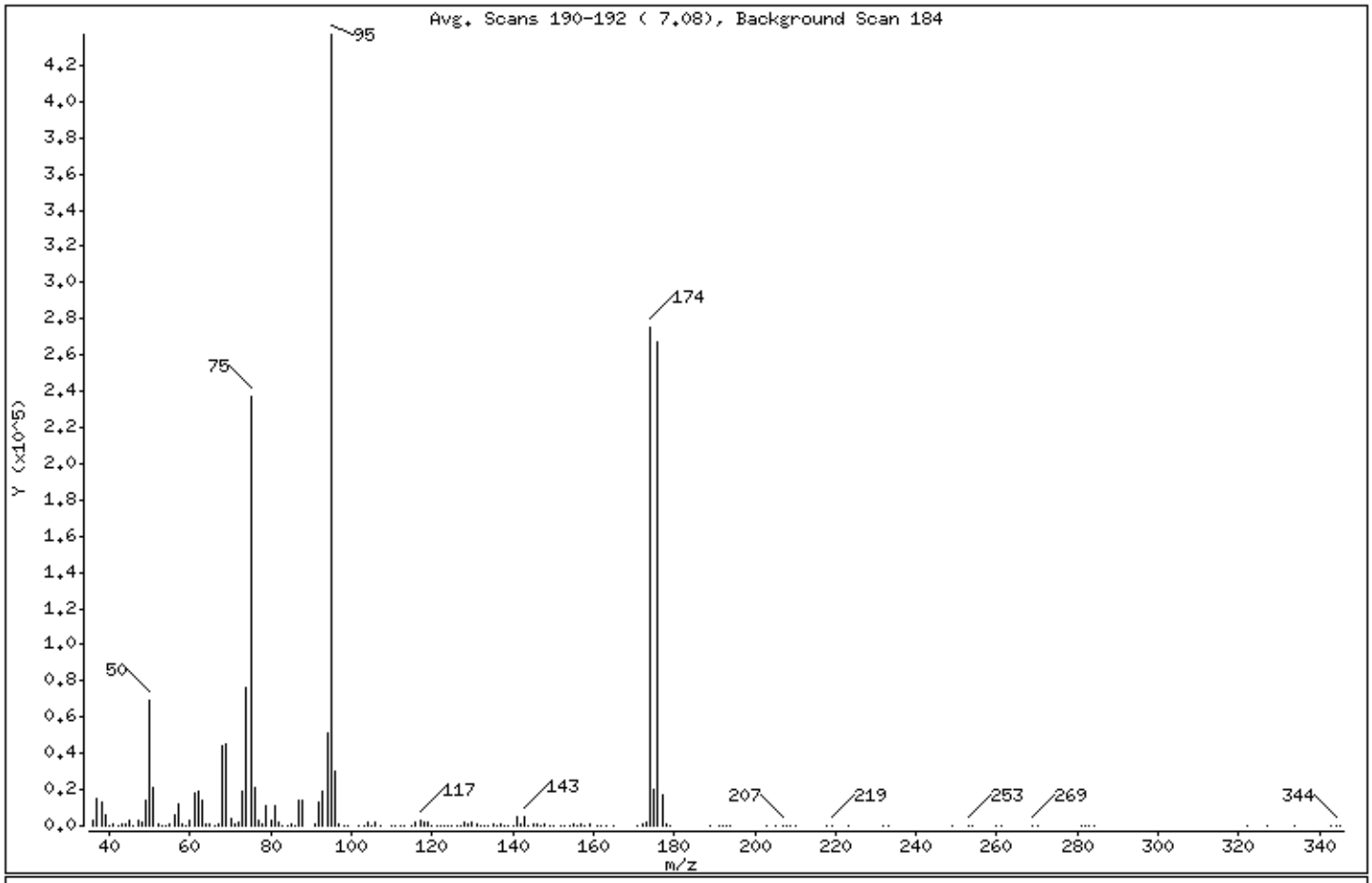
Volume Injected (uL): 1.0

Operator: ll

Column phase:

Column diameter: 2.00

1 bfb




| m/e | ION ABUNDANCE CRITERIA | % RELATIVE ABUNDANCE |
|---|---|---|
| 95 | Base Peak, 100% relative abundance | 100.00 |
| 50 | 8.00 - 40.00% of mass 95 | 15.92 |
| 75 | 30.00 - 66.00% of mass 95 | 54.31 |
| 96 | 5.00 - 9.00% of mass 95 | 6.91 |
| 173 | Less than 1.99% of mass 174 | 0.52 ( 0.83) |
| 174 | 50.00 - 120.00% of mass 95 | 63.10 |
| 175 | 4.00 - 9.00% of mass 174 | 4.61 ( 7.30) |
| 176 | 93.00 - 101.00% of mass 174 | 61.07 ( 96.78) |
| 177 | 5.00 - 9.00% of mass 176 | 3.99 ( 6.53) |

Date : 15-MAR-2012 07:25

Client ID: BFB Instrument: msde.i

Sample Info: 2.0ul #1476-2725; BFB Tune Check

Volume Injected (uL): 1.0 Operator: ll

Column phase: Column diameter: 2.00

Data File: e031501.d
Spectrum: Avg. Scans 190-192 ( 7.08), Background Scan 184
Location of Maximum: 95.00
Number of points: 162

| m/z | Y | m/z | Y | m/z | Y | m/z | Y |
|---|---|---|---|---|---|---|---|
| 36.00 | 2596 | 77.00 | 2533 | 125.00 | 250 | 174.00 | 275648 |
| 37.00 | 14649 | 78.00 | 1390 | 126.00 | 241 | 175.00 | 20136 |
| 38.00 | 13077 | 79.00 | 10590 | 127.00 | 144 | 176.00 | 266816 |
| 39.00 | 5682 | 80.00 | 3255 | 128.00 | 1618 | 177.00 | 17424 |
| 40.00 | 242 | 81.00 | 10957 | 129.00 | 825 | 178.00 | 516 |
| 41.00 | 853 | 82.00 | 2448 | 130.00 | 1591 | 179.00 | 74 |
| 42.00 | 221 | 83.00 | 352 | 131.00 | 713 | 189.00 | 36 |
| 43.00 | 1280 | 84.00 | 306 | 132.00 | 129 | 191.00 | 52 |
| 44.00 | 1479 | 85.00 | 773 | 133.00 | 158 | 192.00 | 16 |
| 45.00 | 2608 | 86.00 | 336 | 134.00 | 111 | 193.00 | 148 |
| 46.00 | 213 | 87.00 | 13904 | 135.00 | 803 | 194.00 | 131 |
| 47.00 | 3102 | 88.00 | 14063 | 136.00 | 211 | 203.00 | 80 |
| 48.00 | 2058 | 91.00 | 1327 | 137.00 | 738 | 205.00 | 73 |
| 49.00 | 14200 | 92.00 | 12892 | 138.00 | 49 | 207.00 | 241 |
| 50.00 | 69544 | 93.00 | 19288 | 139.00 | 119 | 208.00 | 55 |
| 51.00 | 20936 | 94.00 | 51424 | 140.00 | 377 | 209.00 | 150 |
| 52.00 | 940 | 95.00 | 436928 | 141.00 | 4818 | 210.00 | 83 |
| 53.00 | 168 | 96.00 | 30200 | 142.00 | 665 | 218.00 | 49 |
| 54.00 | 96 | 97.00 | 1095 | 143.00 | 5185 | 219.00 | 101 |
| 55.00 | 1186 | 98.00 | 150 | 144.00 | 336 | 223.00 | 34 |
| 56.00 | 5526 | 99.00 | 234 | 145.00 | 548 | 232.00 | 97 |
| 57.00 | 11610 | 102.00 | 48 | 146.00 | 603 | 233.00 | 40 |
| 58.00 | 539 | 103.00 | 190 | 147.00 | 168 | 249.00 | 6 |
| 59.00 | 122 | 104.00 | 1990 | 148.00 | 864 | 253.00 | 148 |
| 60.00 | 3419 | 105.00 | 454 | 149.00 | 295 | 254.00 | 54 |
| 61.00 | 18536 | 106.00 | 1765 | 150.00 | 462 | 260.00 | 85 |
| 62.00 | 18720 | 107.00 | 489 | 152.00 | 193 | 261.00 | 47 |
| 63.00 | 14269 | 110.00 | 268 | 153.00 | 308 | 269.00 | 172 |
| 64.00 | 1403 | 111.00 | 362 | 154.00 | 281 | 270.00 | 10 |
| 65.00 | 758 | 112.00 | 371 | 155.00 | 980 | 281.00 | 15 |
| 66.00 | 176 | 113.00 | 408 | 156.00 | 445 | 282.00 | 31 |
| 67.00 | 1113 | 115.00 | 162 | 157.00 | 782 | 283.00 | 79 |
| 68.00 | 44480 | 116.00 | 1549 | 158.00 | 374 | 284.00 | 150 |
| 69.00 | 45544 | 117.00 | 2777 | 159.00 | 591 | 322.00 | 96 |
| 70.00 | 4056 | 118.00 | 1632 | 161.00 | 500 | 327.00 | 84 |

Date : 15-MAR-2012 07:25

Client ID: BFB Instrument: msde.i

Sample Info: 2.0ul #1476-2725; BFB Tune Check

Volume Injected (uL): 1.0 Operator: ll

Column phase: Column diameter: 2.00

Data File: e031501.d
Spectrum: Avg. Scans 190-192 ( 7.08), Background Scan 184
Location of Maximum: 95.00
Number of points: 162

| m/z | Y | m/z | Y | m/z | Y | m/z | Y |
|---|---|---|---|---|---|---|---|
| 71.00 | 1116 | 119.00 | 2275 | 162.00 | 36 | 334.00 | 36 |
| 72.00 | 2409 | 120.00 | 124 | 163.00 | 30 | 343.00 | 174 |
| 73.00 | 19112 | 121.00 | 57 | 165.00 | 219 | 344.00 | 234 |
| 74.00 | 76032 | 122.00 | 112 | 171.00 | 89 | 345.00 | 14 |
| 75.00 | 237248 | 123.00 | 111 | 172.00 | 749 | | |
| 76.00 | 20672 | 124.00 | 209 | 173.00 | 2275 | | |

Air Toxics Ltd.

Data file : /var/chem/msde.i/16Mar2012.b/e031601.d
Lab Smp Id: BFB Client Smp ID: BFB
Inj Date : 16-MAR-2012 07:24
Operator : ll Inst ID: msde.i
Smp Info : 2.0ul #1476-2725; BFB Tune Check
Misc Info : 50ng
Comment :
Method : /var/chem/msde.i/16Mar2012.b/bfb60.m
Meth Date : 16-Mar-2012 06:29 Quant Type: ESTD
Cal Date : Cal File:
Als bottle: 31 QC Sample: BFB
Dil Factor: 1.58000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.50 Sample Matrix: WATER
Processing Host: eeyore

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

| Name | Value | Description |
|---|---|---|
| DF | 1.58000 | Dilution Factor |
| Uf | 1.00000 | ng unit correction factor |
| Vf | 1.00000 | Volumetric correction factor |
| Vi | 1.00000 | Injection Volume |

Cpnd Variable Local Compound Variable

| RT | EXP RT | DLT RT | MASS | RESPONSE | CONCENTRATIONS ON-COL ( ug/L) | CONCENTRATIONS FINAL ( ug/L) | TARGET RANGE | RATIO |
|---|---|---|---|---|---|---|---|---|
| 1 bfb | | | | | | | CAS #: 460-00-4 | |
| 7.082 | 7.100 | -0.018 | 95 | 473450 | | | 100.00- 100.00 | 100.00 |
| 7.082 | 7.100 | -0.018 | 50 | 74764 | | | 8.00- 40.00 | 15.79 |
| 7.082 | 7.100 | -0.018 | 75 | 251351 | | | 30.00- 66.00 | 53.09 |
| 7.082 | 7.100 | -0.018 | 96 | 32394 | | | 5.00- 9.00 | 6.84 |
| 7.082 | 7.100 | -0.018 | 173 | 2194 | | | 0.00- 1.99 | 0.72 |
| 7.082 | 7.100 | -0.018 | 174 | 306349 | | | 50.00- 120.00 | 64.71 |
| 7.082 | 7.100 | -0.018 | 175 | 22595 | | | 4.00- 9.00 | 7.38 |
| 7.082 | 7.100 | -0.018 | 176 | 295432 | | | 93.00- 101.00 | 96.44 |
| 7.082 | 7.100 | -0.018 | 177 | 19210 | | | 5.00- 9.00 | 6.50 |

Data File: /var/chem/msde.i/16Mar2012.b/e031601.d 

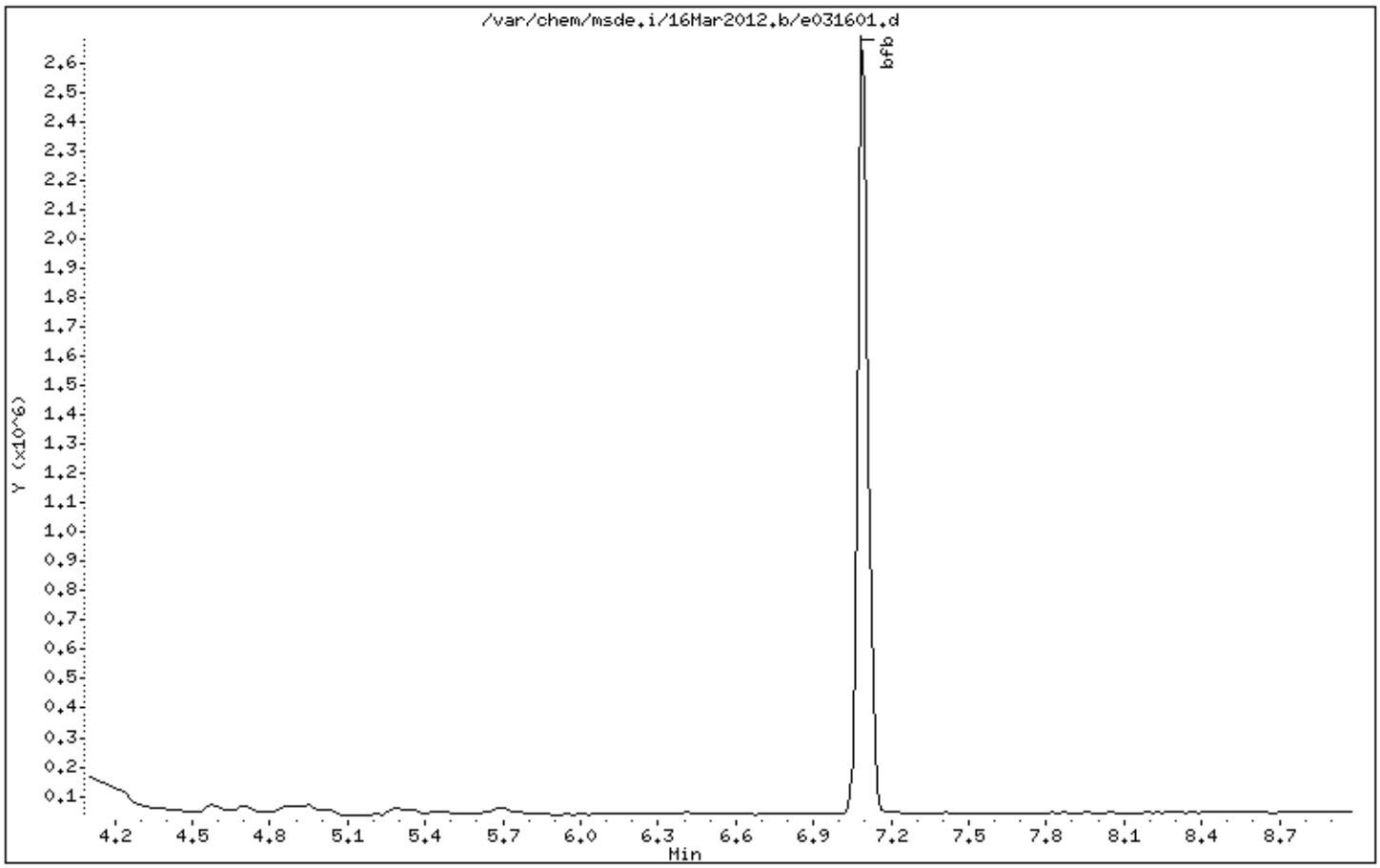
Date : 16-MAR-2012 07:24

Client ID: BFB Instrument: msde.i

Sample Info: 2.0ul #1476-2725; BFB Tune Check

Volume Injected (uL): 1.0 Operator: ll

Column phase: Column diameter: 2.00



Data File: /var/chem/msde.i/16Mar2012.b/e031601.d

Date : 16-MAR-2012 07:24

Client ID: BFB

Instrument: msde.i

Sample Info: 2.0ul #1476-2725; BFB Tune Check

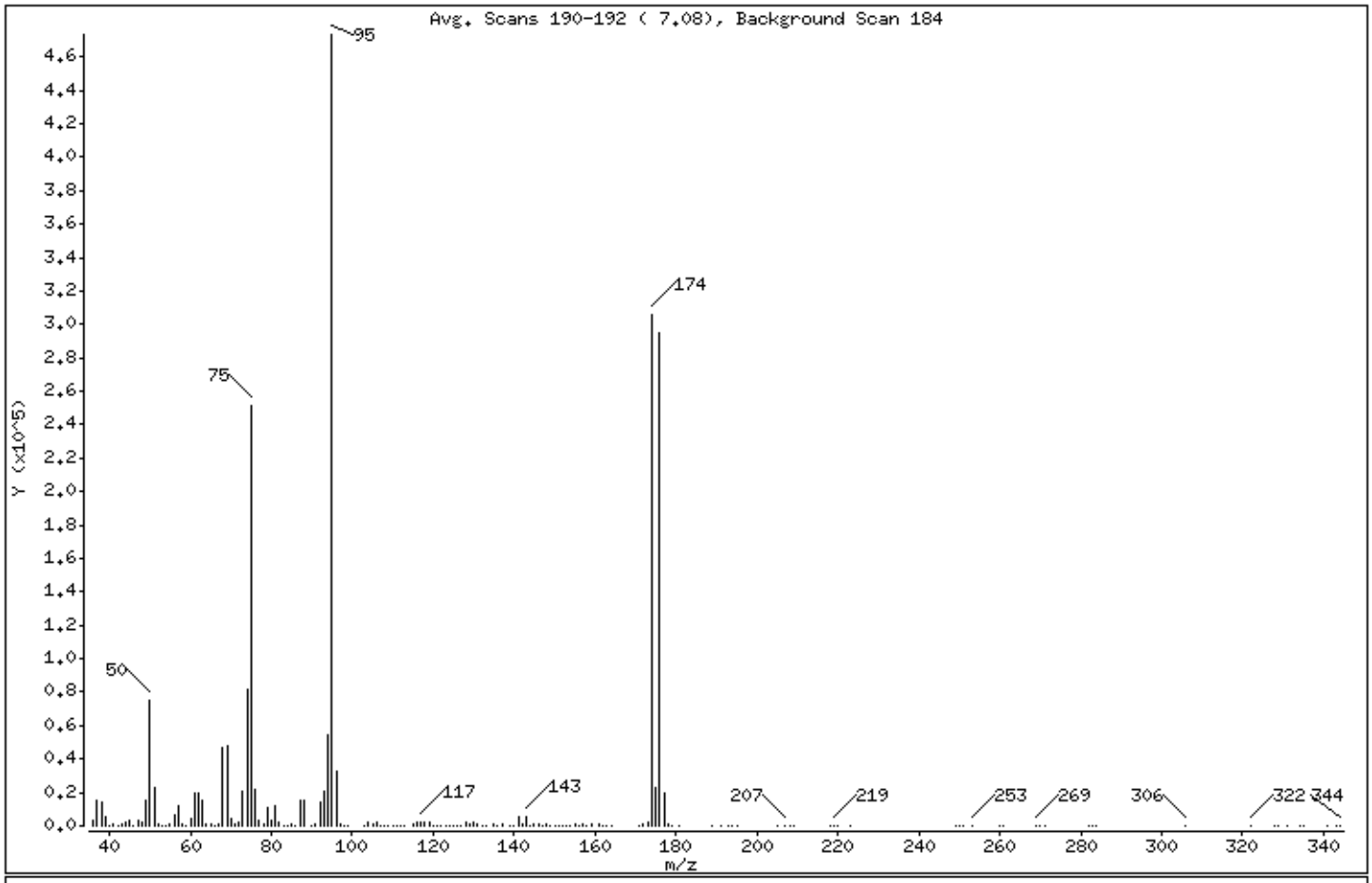
Volume Injected (uL): 1.0

Operator: ll

Column phase:

Column diameter: 2.00

1 bfb




| m/e | ION ABUNDANCE CRITERIA | % RELATIVE ABUNDANCE |
|---|---|---|
| 95 | Base Peak, 100% relative abundance | 100.00 |
| 50 | 8.00 - 40.00% of mass 95 | 15.79 |
| 75 | 30.00 - 66.00% of mass 95 | 53.09 |
| 96 | 5.00 - 9.00% of mass 95 | 6.84 |
| 173 | Less than 1.99% of mass 174 | 0.46 ( 0.72) |
| 174 | 50.00 - 120.00% of mass 95 | 64.71 |
| 175 | 4.00 - 9.00% of mass 174 | 4.77 ( 7.38) |
| 176 | 93.00 - 101.00% of mass 174 | 62.40 ( 96.44) |
| 177 | 5.00 - 9.00% of mass 176 | 4.06 ( 6.50) |

Date : 16-MAR-2012 07:24

Client ID: BFB Instrument: msde.i

Sample Info: 2.0ul #1476-2725; BFB Tune Check

Volume Injected (uL): 1.0 Operator: ll

Column phase: Column diameter: 2.00

Data File: e031601.d
Spectrum: Avg. Scans 190-192 ( 7.08), Background Scan 184
Location of Maximum: 95.00
Number of points: 166

| m/z | Y | m/z | Y | m/z | Y | m/z | Y |
|---|---|---|---|---|---|---|---|
| 36.00 | 2767 | 78.00 | 1424 | 125.00 | 279 | 176.00 | 295424 |
| 37.00 | 15596 | 79.00 | 10794 | 126.00 | 255 | 177.00 | 19208 |
| 38.00 | 14196 | 80.00 | 3317 | 127.00 | 227 | 178.00 | 570 |
| 39.00 | 5779 | 81.00 | 11555 | 128.00 | 1667 | 179.00 | 73 |
| 40.00 | 263 | 82.00 | 2546 | 129.00 | 807 | 181.00 | 44 |
| 41.00 | 888 | 83.00 | 348 | 130.00 | 1721 | 189.00 | 40 |
| 42.00 | 161 | 84.00 | 361 | 131.00 | 675 | 191.00 | 343 |
| 43.00 | 1402 | 85.00 | 582 | 132.00 | 130 | 193.00 | 93 |
| 44.00 | 2038 | 86.00 | 504 | 133.00 | 94 | 194.00 | 28 |
| 45.00 | 3105 | 87.00 | 15511 | 135.00 | 832 | 195.00 | 17 |
| 46.00 | 207 | 88.00 | 15394 | 136.00 | 184 | 205.00 | 36 |
| 47.00 | 3093 | 90.00 | 77 | 137.00 | 811 | 207.00 | 404 |
| 48.00 | 2155 | 91.00 | 1557 | 139.00 | 187 | 208.00 | 242 |
| 49.00 | 15533 | 92.00 | 14127 | 140.00 | 327 | 209.00 | 281 |
| 50.00 | 74760 | 93.00 | 20200 | 141.00 | 5154 | 218.00 | 95 |
| 51.00 | 22728 | 94.00 | 54904 | 142.00 | 598 | 219.00 | 147 |
| 52.00 | 985 | 95.00 | 473408 | 143.00 | 5765 | 220.00 | 87 |
| 53.00 | 272 | 96.00 | 32392 | 144.00 | 346 | 223.00 | 37 |
| 54.00 | 116 | 97.00 | 891 | 145.00 | 580 | 249.00 | 17 |
| 55.00 | 1435 | 98.00 | 267 | 146.00 | 752 | 250.00 | 83 |
| 56.00 | 6287 | 99.00 | 234 | 147.00 | 349 | 251.00 | 52 |
| 57.00 | 12119 | 103.00 | 221 | 148.00 | 1125 | 253.00 | 165 |
| 58.00 | 558 | 104.00 | 1899 | 149.00 | 320 | 260.00 | 66 |
| 59.00 | 71 | 105.00 | 639 | 150.00 | 506 | 261.00 | 73 |
| 60.00 | 4004 | 106.00 | 1823 | 151.00 | 56 | 269.00 | 236 |
| 61.00 | 19656 | 107.00 | 543 | 152.00 | 260 | 270.00 | 31 |
| 62.00 | 19792 | 108.00 | 123 | 153.00 | 425 | 271.00 | 107 |
| 63.00 | 14701 | 109.00 | 78 | 154.00 | 371 | 282.00 | 25 |
| 64.00 | 1546 | 110.00 | 268 | 155.00 | 1107 | 283.00 | 17 |
| 65.00 | 594 | 111.00 | 366 | 156.00 | 330 | 284.00 | 89 |
| 66.00 | 181 | 112.00 | 356 | 157.00 | 931 | 306.00 | 37 |
| 67.00 | 982 | 113.00 | 470 | 158.00 | 345 | 322.00 | 172 |
| 68.00 | 47048 | 115.00 | 610 | 159.00 | 669 | 328.00 | 36 |
| 69.00 | 48136 | 116.00 | 1640 | 161.00 | 623 | 329.00 | 38 |
| 70.00 | 4220 | 117.00 | 2617 | 162.00 | 33 | 331.00 | 51 |

Date : 16-MAR-2012 07:24

Client ID: BFB Instrument: msde.i

Sample Info: 2.0ul #1476-2725; BFB Tune Check

Volume Injected (uL): 1.0 Operator: ll

Column phase: Column diameter: 2.00

Data File: e031601.d
Spectrum: Avg. Scans 190-192 ( 7.08), Background Scan 184
Location of Maximum: 95.00
Number of points: 166

| m/z | Y | m/z | Y | m/z | Y | m/z | Y |
|---|---|---|---|---|---|---|---|
| 71.00 | 1019 | 118.00 | 1719 | 163.00 | 127 | 334.00 | 4 |
| 72.00 | 2443 | 119.00 | 2362 | 164.00 | 145 | 335.00 | 80 |
| 73.00 | 20928 | 120.00 | 91 | 171.00 | 64 | 341.00 | 1 |
| 74.00 | 81416 | 121.00 | 98 | 172.00 | 654 | 343.00 | 75 |
| 75.00 | 251328 | 122.00 | 131 | 173.00 | 2194 | 344.00 | 11 |
| 76.00 | 21704 | 123.00 | 102 | 174.00 | 306304 | | |
| 77.00 | 2758 | 124.00 | 284 | 175.00 | 22592 | | |

Air Toxics Ltd.

Data file : /var/chem/msde.i/20Mar2012.b/e032001.d
Lab Smp Id: BFB Client Smp ID: BFB
Inj Date : 20-MAR-2012 09:51
Operator : ll Inst ID: msde.i
Smp Info : 2.0ul #1476-2725; BFB Tune Check
Misc Info : 50ng
Comment :
Method : /var/chem/msde.i/20Mar2012.b/bfb60.m
Meth Date : 20-Mar-2012 08:57 Quant Type: ESTD
Cal Date : Cal File:
Als bottle: 31 QC Sample: BFB
Dil Factor: 1.58000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.50 Sample Matrix: WATER
Processing Host: eeyore

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

| Name | Value | Description |
|---|---|---|
| DF | 1.58000 | Dilution Factor |
| Uf | 1.00000 | ng unit correction factor |
| Vf | 1.00000 | Volumetric correction factor |
| Vi | 1.00000 | Injection Volume |

Cpnd Variable Local Compound Variable

| RT | EXP RT | DLT RT | MASS | RESPONSE | CONCENTRATIONS ON-COL ( ug/L) | CONCENTRATIONS FINAL ( ug/L) | TARGET RANGE | RATIO |
|---|---|---|---|---|---|---|---|---|
| 1 bfb | | | | | | | CAS #: 460-00-4 | |
| 7.082 | 7.100 | -0.018 | 95 | 710592 | | | 100.00- 100.00 | 100.00 |
| 7.082 | 7.100 | -0.018 | 50 | 103364 | | | 8.00- 40.00 | 14.55 |
| 7.082 | 7.100 | -0.018 | 75 | 365457 | | | 30.00- 66.00 | 51.43 |
| 7.082 | 7.100 | -0.018 | 96 | 48772 | | | 5.00- 9.00 | 6.86 |
| 7.082 | 7.100 | -0.018 | 173 | 3949 | | | 0.00- 1.99 | 0.81 |
| 7.082 | 7.100 | -0.018 | 174 | 488874 | | | 50.00- 120.00 | 68.80 |
| 7.082 | 7.100 | -0.018 | 175 | 36661 | | | 4.00- 9.00 | 7.50 |
| 7.082 | 7.100 | -0.018 | 176 | 480033 | | | 93.00- 101.00 | 98.19 |
| 7.082 | 7.100 | -0.018 | 177 | 31492 | | | 5.00- 9.00 | 6.56 |

Data File: /var/chem/msde.i/20Mar2012.b/e032001.d 

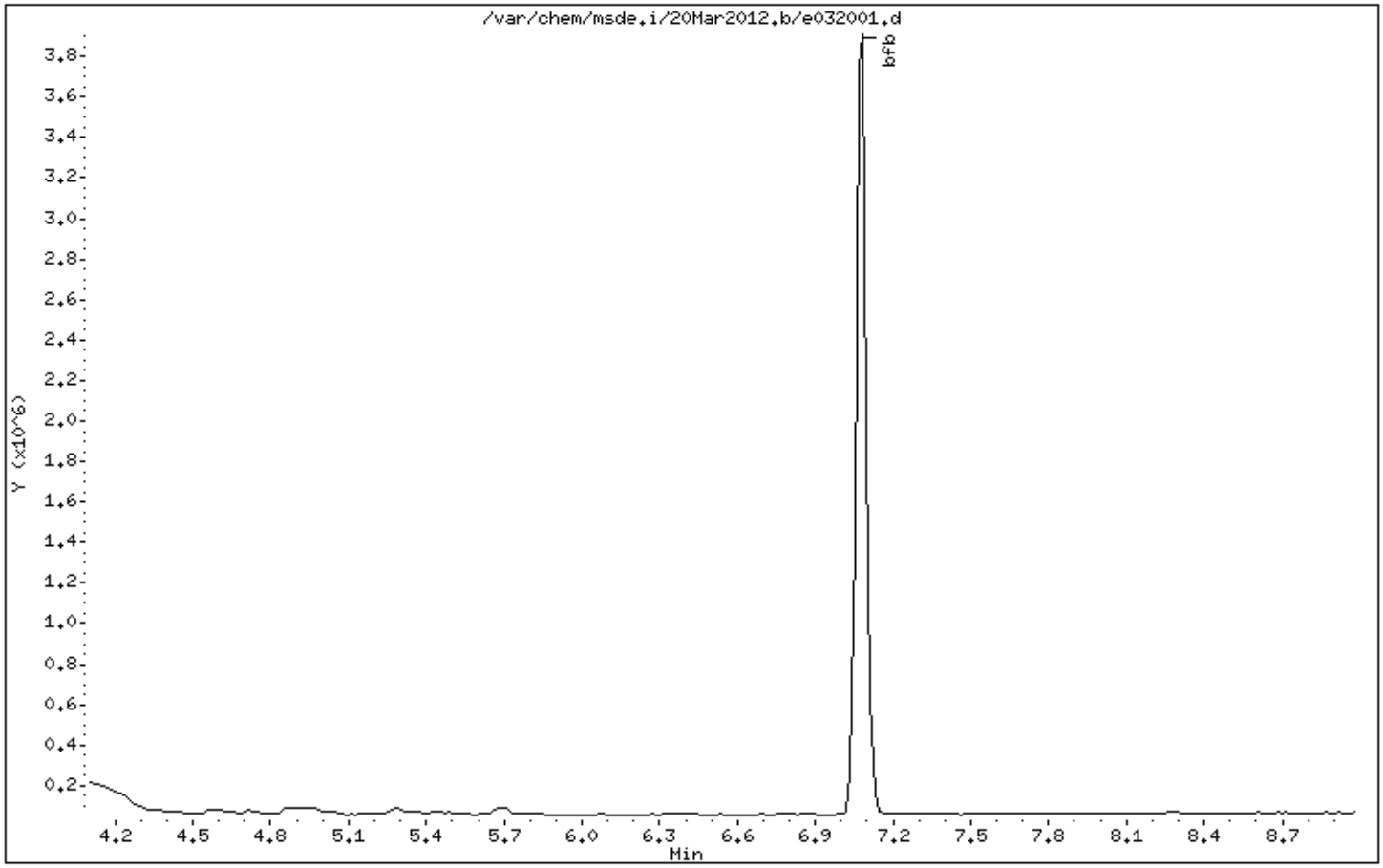
Date : 20-MAR-2012 09:51

Client ID: BFB Instrument: msde.i

Sample Info: 2.0ul #1476-2725; BFB Tune Check

Volume Injected (uL): 1.0 Operator: ll

Column phase: Column diameter: 2.00



Data File: /var/chem/msde.i/20Mar2012.b/e032001.d

Date : 20-MAR-2012 09:51

Client ID: BFB

Instrument: msde.i

Sample Info: 2.0ul #1476-2725; BFB Tune Check

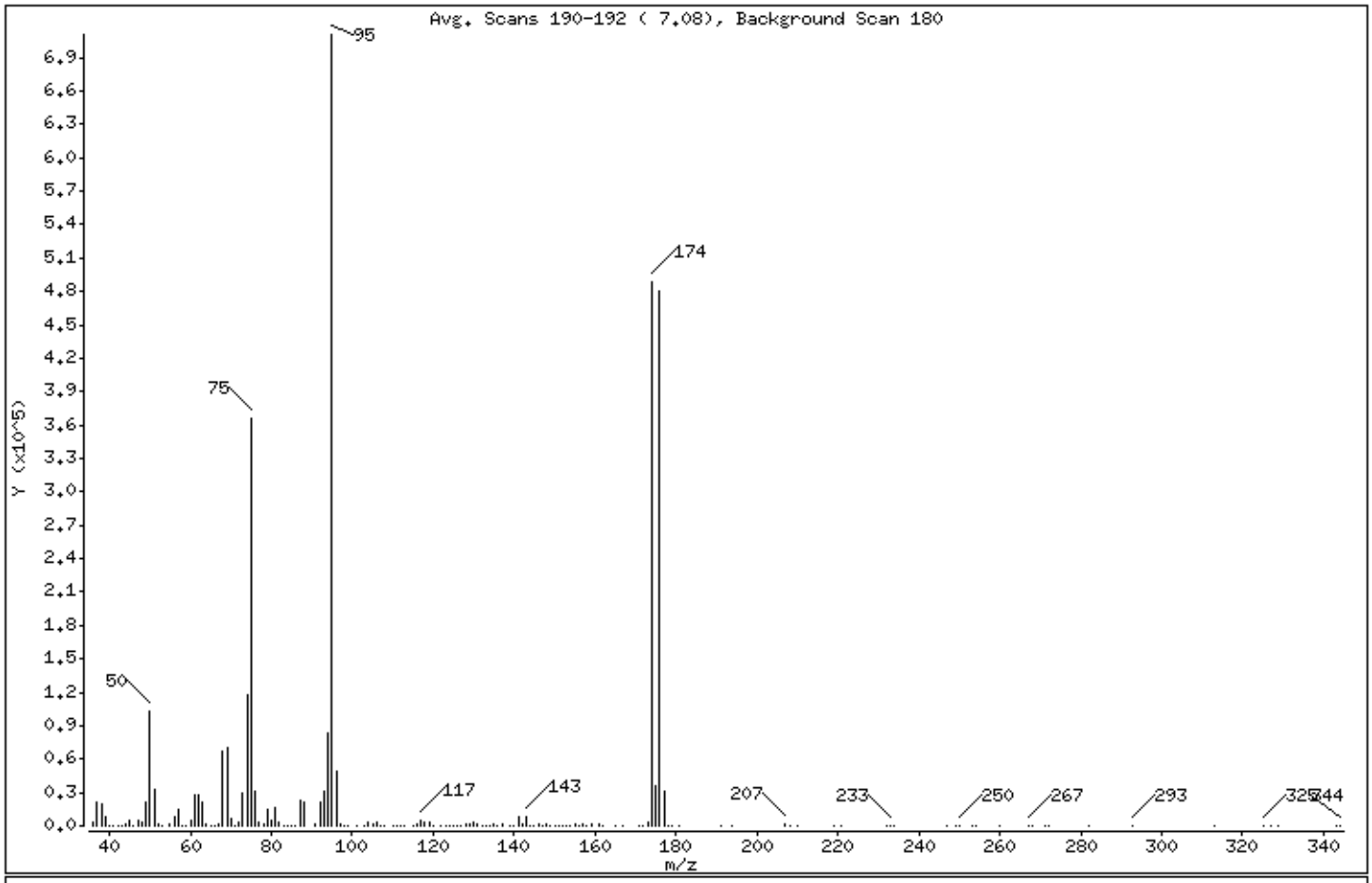
Volume Injected (uL): 1.0

Operator: ll

Column phase:

Column diameter: 2.00

1 bfb




| m/e | ION ABUNDANCE CRITERIA | % RELATIVE ABUNDANCE |
|---|---|---|
| 95 | Base Peak, 100% relative abundance | 100.00 |
| 50 | 8.00 - 40.00% of mass 95 | 14.55 |
| 75 | 30.00 - 66.00% of mass 95 | 51.43 |
| 96 | 5.00 - 9.00% of mass 95 | 6.86 |
| 173 | Less than 1.99% of mass 174 | 0.56 ( 0.81) |
| 174 | 50.00 - 120.00% of mass 95 | 68.80 |
| 175 | 4.00 - 9.00% of mass 174 | 5.16 ( 7.50) |
| 176 | 93.00 - 101.00% of mass 174 | 67.55 ( 98.19) |
| 177 | 5.00 - 9.00% of mass 176 | 4.43 ( 6.56) |

Date : 20-MAR-2012 09:51

Client ID: BFB Instrument: msde.i

Sample Info: 2.0ul #1476-2725; BFB Tune Check

Volume Injected (uL): 1.0 Operator: ll

Column phase: Column diameter: 2.00

Data File: e032001.d
Spectrum: Avg. Scans 190-192 ( 7.08), Background Scan 180
Location of Maximum: 95.00
Number of points: 157

| m/z | Y | m/z | Y | m/z | Y | m/z | Y |
|---|---|---|---|---|---|---|---|
| 36.00 | 3976 | 77.00 | 3671 | 124.00 | 437 | 172.00 | 704 |
| 37.00 | 21816 | 78.00 | 2296 | 125.00 | 323 | 173.00 | 3949 |
| 38.00 | 19160 | 79.00 | 15181 | 126.00 | 404 | 174.00 | 488832 |
| 39.00 | 7474 | 80.00 | 4972 | 127.00 | 398 | 175.00 | 36656 |
| 40.00 | 189 | 81.00 | 15743 | 128.00 | 2322 | 176.00 | 480000 |
| 41.00 | 325 | 82.00 | 3525 | 129.00 | 1236 | 177.00 | 31488 |
| 42.00 | 210 | 83.00 | 430 | 130.00 | 2627 | 178.00 | 778 |
| 43.00 | 754 | 84.00 | 179 | 131.00 | 971 | 179.00 | 45 |
| 44.00 | 2200 | 85.00 | 211 | 132.00 | 37 | 181.00 | 146 |
| 45.00 | 4087 | 86.00 | 664 | 133.00 | 53 | 191.00 | 383 |
| 46.00 | 333 | 87.00 | 22616 | 134.00 | 155 | 194.00 | 60 |
| 47.00 | 4431 | 88.00 | 21840 | 135.00 | 1074 | 207.00 | 1056 |
| 48.00 | 3119 | 91.00 | 2223 | 136.00 | 122 | 208.00 | 384 |
| 49.00 | 20760 | 92.00 | 20472 | 137.00 | 1219 | 210.00 | 31 |
| 50.00 | 103360 | 93.00 | 30368 | 139.00 | 278 | 219.00 | 67 |
| 51.00 | 32264 | 94.00 | 82736 | 140.00 | 479 | 221.00 | 56 |
| 52.00 | 1206 | 95.00 | 710592 | 141.00 | 8165 | 232.00 | 140 |
| 53.00 | 36 | 96.00 | 48768 | 142.00 | 1022 | 233.00 | 159 |
| 55.00 | 1362 | 97.00 | 1564 | 143.00 | 8500 | 234.00 | 82 |
| 56.00 | 8071 | 98.00 | 88 | 144.00 | 462 | 247.00 | 59 |
| 57.00 | 15343 | 99.00 | 136 | 145.00 | 726 | 249.00 | 43 |
| 58.00 | 687 | 101.00 | 34 | 146.00 | 999 | 250.00 | 119 |
| 59.00 | 42 | 103.00 | 258 | 147.00 | 478 | 253.00 | 94 |
| 60.00 | 5384 | 104.00 | 2759 | 148.00 | 1716 | 254.00 | 109 |
| 61.00 | 28464 | 105.00 | 1124 | 149.00 | 545 | 260.00 | 65 |
| 62.00 | 28176 | 106.00 | 2738 | 150.00 | 751 | 267.00 | 194 |
| 63.00 | 21992 | 107.00 | 659 | 151.00 | 154 | 268.00 | 75 |
| 64.00 | 2093 | 108.00 | 176 | 152.00 | 390 | 271.00 | 10 |
| 65.00 | 559 | 110.00 | 394 | 153.00 | 565 | 272.00 | 41 |
| 66.00 | 94 | 111.00 | 542 | 154.00 | 570 | 282.00 | 11 |
| 67.00 | 1464 | 112.00 | 530 | 155.00 | 1733 | 293.00 | 108 |
| 68.00 | 67600 | 113.00 | 541 | 156.00 | 485 | 313.00 | 41 |
| 69.00 | 69784 | 115.00 | 559 | 157.00 | 1321 | 325.00 | 203 |
| 70.00 | 5757 | 116.00 | 2371 | 158.00 | 316 | 327.00 | 112 |
| 71.00 | 619 | 117.00 | 4121 | 159.00 | 1046 | 329.00 | 77 |

Data File: /var/chem/msde.i/20Mar2012.b/e032001.d

Date : 20-MAR-2012 09:51

Client ID: BFB

Instrument: msde.i

Sample Info: 2.0ul #1476-2725; BFB Tune Check

Volume Injected (uL): 1.0

Operator: ll

Column phase:

Column diameter: 2.00

Data File: e032001.d
Spectrum: Avg. Scans 190-192 ( 7.08), Background Scan 180
Location of Maximum: 95.00
Number of points: 157

| m/z | Y | m/z | Y | m/z | Y | m/z | Y |
|---|---|---|---|---|---|---|---|
| 72.00 | 3426 | 118.00 | 2644 | 161.00 | 853 | 343.00 | 4 |
| 73.00 | 29680 | 119.00 | 3386 | 162.00 | 161 | 344.00 | 66 |
| 74.00 | 117920 | 120.00 | 259 | 165.00 | 55 | | |
| 75.00 | 365440 | 122.00 | 173 | 167.00 | 37 | | |
| 76.00 | 31848 | 123.00 | 321 | 171.00 | 85 | | |

# Shipping/ Receiving Documents

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# Air Toxics Ltd. Sample Receipt Confirmation Cover Page

Thank you for choosing Air Toxics Ltd. We have received your samples and have listed any Sample Receipt Descrepancies below.

In order to expedite analysis and reporting, please review the attached information for

For corrections ca **Ausha Scott at 916-985-1000**

ATL will proceed with the analysis as specified on the Chain of Custody and Sample Receipt Summary page.

**Please note** : The Sample Receipt Confirmation, including the total workorder charge, is subject to change upon secondary review. Our aim is to provide a confirmation to you in a timely manner. Sample Receipt Discrepancies, if any, may not include discrepancies regarding sample receipt pressure(s). Additionally, the Chain of Custody (COC) will be provided with the final report.

**180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 95630**

**(916) 985-1000 .FAX (916) 985-1020**
**Hours 6:30 A.M to 5:30 P.M. PST**

# Air Toxics LTD.

## CHAIN-OF-CUSTODY RECORD

**Sample Transportation Notice**
Relinquishing signature on this document indicates that sample is being shipped in compliance with all applicable local, State, Federal, national, and international laws, regulations and ordinances of any kind. Air Toxics Limited assumes no liability with respect to the collection, handling or shipping of these samples. Relinquishing signature also indicates agreement to hold harmless, defend, and indemnify Air Toxics Limited against any claim, demand, or action, of any kind, related to the collection, handling, or shipping of samples. D.O.T. Hotline (800) 467-4922

180 BLUE RAVINE ROAD, SUITE B
FOLSOM, CA 95630-4719
(916) 985-1000 FAX (916) 985-1020



Project Manager Dan Martocci
**Collected by:** (Print and Sign) Zahar Levy
Company Parsons Email
Address 200 Lathertail Dr City Somerset State NJ Zip 08873
Phone 732 537 3557 Fax 732-868-3110

**Project Info:**
P.O. # 446109-03000
Project #
Project Name Farrington St.

**Turn Around Time:**
☒ Normal
☐ Rush
specify

*Lab Use Only*
Pressurized by:
Date:
Pressurization Gas: $N_2$ He

| Lab I.D. | Field Sample I.D. (Location) | Can # | Date of Collection | Time of Collection | Analyses Requested | Canister Pressure/Vacuum Initial | Final | Receipt | Final (psi) |
|---|---|---|---|---|---|---|---|---|---|
| 01A | SG-3 | 34192 | 2/20/12 | 0910 | TO-15 Modified *See Note | -30 | -7.5 | | |
| 02A | SG-4 | 34610 | ↓ | 0955 | ↓ | -29 | -7.5 | | |
| 03A | SG-5 | 35287 | ↓ | 1020 | ↓ | -30 | -6 | | |

Relinquished by: (signature) Date/Time 2/20/12 1600 (to UPS)
Received by: (signature) Date/Time 2.21.12 1015
Relinquished by: (signature) Date/Time
Received by: (signature) Date/Time
Relinquished by: (signature) Date/Time
Received by: (signature) Date/Time

**Notes:**
Please add: Naphthalene, indan, indene, thiophene, styrene, 2-methylpentane, isopentane, 2,3-dimethylpentane, isooctane.

**Lab Use Only**

| Shipper Name | Air Bill # | Temp (°C) | Condition | Custody Seals Intact? | Work Order # |
|---|---|---|---|---|---|
| UPS | 1Z9 368 8945 | NA | Good | Yes No None | 1202444 |

Form 1293 rev.11

# Canister Dilution Form

**Workorder #:** 1202444

**Date Prepared:** 3/20/12 **Expiration Date:** 3/21/12 **Initials:** LL

**Pressurized By:** LL **1L pressurized to 15psi = 2000mL**

| Sample ID | Sample Can # | Transfer Can # | Volume Sample Added (mL) | Final Volume | Final Dilution Factor |
|---|---|---|---|---|---|
| 03A | ~~24384~~ 3121/12 | 24384 | 40mL | 2000mL | 80x |
| | | | | | |
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# SAMPLE RECEIPT SUMMARY

## WORKORDER 1202444

**Client**

Mr. Shane Blauvelt
Parsons
290 Elwood Davis Road
Suite 312
Liverpool, NY 13088

**Sales Rep:** JAS

**Phone**

315-451-9560 x2120

**Fax**

**Date Promised:** 03/06/12
**Date Completed:** 3/21/12
**Date Received:** 2/21/12
**PO#:** 446109-03000
**Project#:** Farrington St.

**Total $:** $ 750.00
**Logged By:** JCW

| Fraction | Sample # | Analysis | Collected | Receipt Vac./Pres. | Amount$ |
|---|---|---|---|---|---|
| 01A | SG-3 | Modified TO-15 | 2/20/2012 | 4.5 "Hg | $180.00 |
| 02A | SG-4 | Modified TO-15 | 2/20/2012 | 6.5 "Hg | $180.00 |
| 03A | SG-5 | Modified TO-15 | 2/20/2012 | 5.0 "Hg | $180.00 |
| 04A | Lab Blank | Modified TO-15 | NA | NA | $0.00 |
| 04B | Lab Blank | Modified TO-15 | NA | NA | $0.00 |
| 04C | Lab Blank | Modified TO-15 | NA | NA | $0.00 |
| 05A | CCV | Modified TO-15 | NA | NA | $0.00 |
| 05B | CCV | Modified TO-15 | NA | NA | $0.00 |
| 05C | CCV | Modified TO-15 | NA | NA | $0.00 |
| 06A | LCS | Modified TO-15 | NA | NA | $0.00 |
| 06AA | LCSD | Modified TO-15 | NA | NA | $0.00 |
| 06B | LCS | Modified TO-15 | NA | NA | $0.00 |
| 06BB | LCSD | Modified TO-15 | NA | NA | $0.00 |
| 06C | LCS | Modified TO-15 | NA | NA | $0.00 |
| 06CC | LCSD | Modified TO-15 | NA | NA | $0.00 |

| | | |
|---|---|---|
| Misc. Charges | 6 Liter Summa Special (100% Certified) (3) @ $40.00 each., Shipmen | $120.00 |
| | Blue Body Flow Controller (100% Certified) (3) @ $15.00 each. | $45.00 |
| | Fuel Surcharge (3) @ $5.00 each. | $15.00 |
| | Client Specific EDD (3) @ $5.00 each. | $15.00 |
| | eCVP (3) @ $5.00 each. | $15.00 |

**Note:** Samples received after 3 P.M. PST are considered to be received on the following work day.
Atlas Project Name/Profile#: Con Edison-Farrington Street/16136

**BILL TO:** Accounts Payable-Syracuse
Parsons
301 Plainfield Rd, Suite 350
Syracuse, NY 13212

Analysis Code: pptv

**TERMS:**

Reporting Method: Modified TO-15-LL (Sp)/TICs (10)-Parsons (ConEd)

# Other Records

Air Toxics Ltd.

EPA TO-15/Modified TO14A

Data file : /chem/msde.i/14Mar2012.b/e031409a.d
Lab Smp Id: 1202444-02A
Inj Date : 14-MAR-2012 13:25
Operator : LL Inst ID: msde.i
Smp Info : 12.5mL #94610
Misc Info : 6.5"Hg->5.0psi
Comment : Low-Level/GC-MS
Method : /chem/msde.i/14Mar2012.b/e12l0308b.m
Meth Date : 14-Mar-2012 15:02 scarter Quant Type: ISTD
Cal Date : 10-MAR-2012 19:22 Cal File: e031014.d
Als bottle: 24
Dil Factor: 34.20000
Integrator: HP RTE Compound Sublist: PAR16136.sub
Target Version: 3.50 Sample Matrix: AIR
Processing Host: eeyore

Concentration Formula: Amt * DF * CpndVariable

| Name | Value | Description |
|---|---|---|
| DF | 34.20000 | Dilution Factor |

1st IS deleted to calculate conc of unknowns due to coelution

| ISTD | RT | AREA | AMOUNT |
|---|---|---|---|
| * 58 1,4-Difluorobenzene | 17.586 | 907222 | 5.000 |
| * 75 Chlorobenzene-d5 | 22.927 | 1603328 | 5.000 |

| | CONCENTRATIONS | | | | QUANT | | |
|---|---|---|---|---|---|---|---|
| RT | AREA | ON-COL( PPBV) | FINAL( PPBV) | QUAL | LIBRARY | LIB ENTRY | CPND # |
| Cyclopropane, methylmethylene- | | | | CAS #: 18631-84-0 | | | |
| 13.609 | 4616183 | 25.4412989 | 870.09 | 90 | NBS54K.1 | 182 | 58(L) |
| Cyclopentene, 1-methyl- | | | | CAS #: 693-89-0 | | | |
| 16.158 | 3781447 | 20.8407903 | 712.76 | 76 | NBS54K.1 | 459 | 58(L) |
| Cyclohexane, methyl- | | | | CAS #: 108-87-2 | | | |
| 18.272 | 575340 | 3.17088551 | 108.44 | 91 | NBS54K.1 | 1211 | 58 |

| | | CONCENTRATIONS | | | QUANT | | |
|---|---|---|---|---|---|---|---|
| RT | AREA | ON-COL( PPBV) | FINAL( PPBV) | QUAL | LIBRARY | LIB ENTRY | CPND # |
| Cyclopentane, 1,3-dichloro-, trans- | | | | CAS #: 26688-50-6 | | | |
| 19.288 | 590059 | 3.25200683 | 111.22 | 25 | NBS54K.l | 5939 | 58(L) |
| Cyclohexene, 4-methyl- | | | | CAS #: 591-47-9 | | | |
| 19.987 | 436720 | 2.40690487 | 82.316 | 91 | NBS54K.l | 1033 | 58 |
| Heptane, 2,2,4,6,6-pentamethyl- | | | | CAS #: 13475-82-6 | | | |
| 25.186 | 1507074 | 4.69982780 | 160.73 | 59 | NBS54K.l | 13159 | 75(L) |
| Nonane, 3,7-dimethyl- | | | | CAS #: 17302-32-8 | | | |
| 25.522 | 1845857 | 5.75632716 | 196.87 | 64 | NBS54K.l | 9970 | 75 |
| Decane, 2,2-dimethyl- | | | | CAS #: 17302-37-3 | | | |
| 25.679 | 752834 | 2.34772215 | 80.292 | 72 | NBS54K.l | 13151 | 75 |
| Cyclopropane, 1-(2-methylbutyl)-1-(1-met | | | | CAS #: 64723-36-0 | | | |
| 25.791 | 3003016 | 9.36494205 | 320.28 | 64 | NBS54K.l | 12668 | 75 |
| Undecane, 4,6-dimethyl- | | | | CAS #: 17312-82-2 | | | |
| 26.015 | 1356824 | 4.23127115 | 144.71 | 56 | NBS54K.l | 16199 | 75 |

## QC Flag Legend

L - Operator selected an alternate library search match.

$$\text{Dilution Factor} = \frac{\text{Final Pressure}}{\text{Initial Vacuum}} = \frac{14.7\text{psi} + \text{Final Pressure (psi)}}{14.7\text{psi} - [\text{Init. Pressure (“Hg)})*(14.7\text{psi}/30\text{”Hg})]}$$

$$\text{Dilution Factor} = \frac{\text{Final Pressure}}{\text{Initial Pressure}} = \frac{14.7\text{psi} + \text{Final Pressure (psi)}}{14.7\text{psi} + \text{Initial Pressure (psi)}}$$

| Initial Vacuum (" of Hg) | 5 psi Final Pressure Dilution Factor | 15 psi Final Pressure Dilution Factor |
|---|---|---|
| 0.0 | 1.34 | 2.02 |
| 0.2 | 1.35 | 2.03 |
| 0.4 | 1.36 | 2.05 |
| 0.5 | 1.36 | 2.05 |
| 0.6 | 1.37 | 2.06 |
| 0.8 | 1.38 | 2.08 |
| 1.0 | 1.39 | 2.09 |
| 1.2 | 1.40 | 2.10 |
| 1.4 | 1.40 | 2.12 |
| 1.5 | 1.41 | 2.13 |
| 1.6 | 1.42 | 2.13 |
| 1.8 | 1.42 | 2.15 |
| 2.0 | 1.44 | 2.16 |
| 2.2 | 1.45 | 2.18 |
| 2.4 | 1.46 | 2.20 |
| 2.5 | 1.46 | 2.20 |
| 2.6 | 1.47 | 2.21 |
| 2.8 | 1.48 | 2.23 |
| 3.0 | 1.49 | 2.24 |
| 3.2 | 1.50 | 2.26 |
| 3.4 | 1.51 | 2.28 |
| 3.5 | 1.52 | 2.29 |
| 3.6 | 1.52 | 2.30 |
| 3.8 | 1.53 | 2.31 |
| 4.0 | 1.55 | 2.33 |
| 4.2 | 1.56 | 2.35 |
| 4.4 | 1.57 | 2.37 |
| 4.5 | 1.58 | 2.38 |
| 4.6 | 1.58 | 2.39 |
| 4.8 | 1.60 | 2.40 |
| 5.0 | 1.61 | 2.42 |
| 5.2 | 1.62 | 2.44 |
| 5.4 | 1.63 | 2.46 |
| 5.5 | 1.64 | 2.47 |
| 5.6 | 1.65 | 2.48 |
| 5.8 | 1.66 | 2.50 |
| 6.0 | 1.68 | 2.52 |
| 6.2 | 1.69 | 2.55 |
| 6.4 | 1.70 | 2.57 |
| 6.5 | 1.71 | 2.58 |
| 6.6 | 1.72 | 2.59 |
| 6.8 | 1.73 | 2.61 |
| 7.0 | 1.75 | 2.64 |
| 7.2 | 1.76 | 2.66 |
| 7.4 | 1.78 | 2.68 |
| 7.5 | 1.79 | 2.69 |
| 7.6 | 1.79 | 2.70 |

| Initial Vacuum (" of Hg) | 5 psi Final Pressure Dilution Factor | 15 psi Final Pressure Dilution Factor |
|---|---|---|
| 7.7 | 1.80 | 2.72 |
| 7.8 | 1.81 | 2.73 |
| 8.0 | 1.83 | 2.76 |
| 8.2 | 1.84 | 2.78 |
| 8.4 | 1.86 | 2.81 |
| 8.5 | 1.87 | 2.82 |
| 8.6 | 1.88 | 2.83 |
| 8.8 | 1.90 | 2.86 |
| 9.0 | 1.91 | 2.89 |
| 9.2 | 1.93 | 2.91 |
| 9.4 | 1.95 | 2.94 |
| 9.5 | 1.96 | 2.96 |
| 9.6 | 1.97 | 2.97 |
| 9.8 | 1.99 | 3.00 |
| 10.0 | 2.01 | 3.03 |
| 10.2 | 2.03 | 3.06 |
| 10.4 | 2.05 | 3.09 |
| 10.5 | 2.06 | 3.11 |
| 10.6 | 2.07 | 3.12 |
| 10.8 | 2.09 | 3.16 |
| 11.0 | 2.12 | 3.19 |
| 11.2 | 2.14 | 3.22 |
| 11.4 | 2.16 | 3.26 |
| 11.5 | 2.17 | 3.28 |
| 11.6 | 2.18 | 3.29 |
| 11.8 | 2.21 | 3.33 |
| 12.0 | 2.23 | 3.37 |
| 12.2 | 2.26 | 3.40 |
| 12.4 | 2.28 | 3.44 |
| 12.5 | 2.30 | 3.46 |
| 12.6 | 2.31 | 3.48 |
| 12.8 | 2.34 | 3.52 |
| 13.0 | 2.36 | 3.56 |
| 13.2 | 2.39 | 3.61 |
| 13.4 | 2.42 | 3.65 |
| 13.5 | 2.44 | 3.67 |
| 13.6 | 2.45 | 3.70 |
| 13.8 | 2.48 | 3.74 |
| 14.0 | 2.51 | 3.79 |
| 14.2 | 2.54 | 3.84 |
| 14.4 | 2.58 | 3.88 |
| 14.5 | 2.59 | 3.91 |
| 14.6 | 2.61 | 3.94 |
| 14.8 | 2.64 | 3.99 |
| 15.0 | 2.68 | 4.04 |
| 15.2 | 2.72 | 4.10 |
| 15.4 | 2.75 | 4.15 |

| Initial Vacuum (" of Hg) | 5 psi Final Pressure Dilution Factor | 15 psi Final Pressure Dilution Factor |
|---|---|---|
| 15.5 | 2.77 | 4.18 |
| 15.6 | 2.79 | 4.21 |
| 15.8 | 2.83 | 4.27 |
| 16.0 | 2.87 | 4.33 |
| 16.2 | 2.91 | 4.39 |
| 16.4 | 2.96 | 4.46 |
| 16.5 | 2.98 | 4.49 |
| 16.6 | 3.00 | 4.52 |
| 16.8 | 3.05 | 4.59 |
| 17.0 | 3.09 | 4.66 |
| 17.2 | 3.14 | 4.74 |
| 17.4 | 3.19 | 4.81 |
| 17.5 | 3.22 | 4.85 |
| 17.6 | 3.24 | 4.89 |
| 17.8 | 3.30 | 4.97 |
| 18.0 | 3.35 | 5.05 |
| 18.2 | 3.41 | 5.14 |
| 18.4 | 3.47 | 5.22 |
| 18.5 | 3.50 | 5.27 |
| 18.6 | 3.53 | 5.32 |
| 18.8 | 3.59 | 5.41 |
| 19.0 | 3.65 | 5.51 |
| 19.2 | 3.72 | 5.61 |
| 19.4 | 3.79 | 5.72 |
| 19.5 | 3.83 | 5.77 |
| 19.6 | 3.87 | 5.83 |
| 19.8 | 3.94 | 5.94 |
| 20.0 | 4.02 | 6.06 |
| 20.2 | 4.10 | 6.18 |
| 20.4 | 4.19 | 6.31 |
| 20.5 | 4.23 | 6.38 |
| 20.6 | 4.28 | 6.45 |
| 20.8 | 4.37 | 6.59 |
| 21.0 | 4.47 | 6.73 |
| 21.2 | 4.57 | 6.89 |
| 21.4 | 4.67 | 7.05 |
| 21.5 | 4.73 | 7.13 |
| 21.6 | 4.79 | 7.22 |
| 21.8 | 4.90 | 7.39 |
| 22.0 | 5.03 | 7.58 |
| 22.4 | 5.29 | 7.98 |

| Initial Vacuum (" of Hg) | 5 psi Final Pressure Dilution Factor | 15 psi Final Pressure Dilution Factor |
|---|---|---|
| 22.5 | 5.36 | 8.08 |
| 22.6 | 5.43 | 8.19 |
| 22.8 | 5.58 | 8.42 |
| 23.0 | 5.74 | 8.66 |
| 23.2 | 5.91 | 8.91 |
| 23.4 | 6.09 | 9.18 |
| 23.5 | 6.19 | 9.32 |
| 23.6 | 6.28 | 9.47 |
| 23.8 | 6.48 | 9.78 |
| 24.0 | 6.70 | 10.10 |
| 24.2 | 6.93 | 10.45 |
| 24.4 | 7.18 | 10.82 |
| 24.5 | 7.31 | 11.02 |
| 24.6 | 7.45 | 11.22 |
| 24.8 | 7.73 | 11.66 |
| 25.0 | 8.04 | 12.12 |
| 25.2 | 8.38 | 12.63 |
| 25.4 | 8.74 | 13.18 |
| 25.5 | 8.93 | 13.47 |
| 25.6 | 9.14 | 13.78 |
| 25.8 | 9.57 | 14.43 |
| 26.0 | 10.05 | 15.15 |
| 26.2 | 10.58 | 15.95 |
| 26.4 | 11.17 | 16.84 |
| 26.5 | 11.49 | 17.32 |
| 26.6 | 11.82 | 17.83 |
| 26.8 | 12.56 | 18.94 |
| 27.0 | 13.40 | 20.20 |
| 27.2 | 14.36 | 21.65 |
| 27.4 | 15.46 | 23.31 |
| 27.5 | 16.08 | 24.24 |
| 27.6 | 16.75 | 25.26 |
| 27.8 | 18.27 | 27.55 |
| 28.0 | 20.10 | 30.31 |
| 28.2 | 22.34 | 33.67 |
| 28.4 | 25.13 | 37.88 |
| 28.5 | 26.80 | 40.41 |
| 28.6 | 28.72 | 43.29 |
| 28.8 | 33.50 | 50.51 |
| 29.0 | 40.20 | 60.61 |

# Compound List

**Modified TO-15-LL (Sp)/TICs (10)-Parsons (ConEd)**

| CAS Number | Compound | Detection Limit ppbv | Type |
|---|---|---|---|
| 75-71-8 | Freon 12 | 0.10 | |
| 76-14-2 | Freon 114 | 0.10 | |
| 106-99-0 | 1,3-Butadiene | 0.10 | |
| 74-83-9 | Bromomethane | 0.10 | |
| 75-00-3 | Chloroethane | 0.50 | |
| 75-69-4 | Freon 11 | 0.10 | |
| 64-17-5 | Ethanol | 0.50 | |
| 76-13-1 | Freon 113 | 0.10 | |
| 75-35-4 | 1,1-Dichloroethene | 0.10 | |
| 67-64-1 | Acetone | 0.50 | |
| 67-63-0 | 2-Propanol | 0.50 | |
| 75-15-0 | Carbon Disulfide | 0.50 | |
| 107-05-1 | 3-Chloropropene | 0.50 | |
| 75-09-2 | Methylene Chloride | 0.20 | |
| 1634-04-4 | Methyl tert-butyl ether | 0.10 | |
| 156-60-5 | trans-1,2-Dichloroethene | 0.10 | |
| 110-54-3 | Hexane | 0.10 | |
| 75-34-3 | 1,1-Dichloroethane | 0.10 | |
| 78-93-3 | 2-Butanone (Methyl Ethyl Ketone) | 0.50 | |
| 156-59-2 | cis-1,2-Dichloroethene | 0.10 | |
| 109-99-9 | Tetrahydrofuran | 0.50 | |
| 67-66-3 | Chloroform | 0.10 | |
| 71-55-6 | 1,1,1-Trichloroethane | 0.10 | |
| 110-82-7 | Cyclohexane | 0.10 | |
| 56-23-5 | Carbon Tetrachloride | 0.10 | |
| 540-84-1 | 2,2,4-Trimethylpentane | 0.50 | |
| 71-43-2 | Benzene | 0.10 | |
| 107-06-2 | 1,2-Dichloroethane | 0.10 | |
| 142-82-5 | Heptane | 0.10 | |
| 79-01-6 | Trichloroethene | 0.10 | |
| 78-87-5 | 1,2-Dichloropropane | 0.10 | |
| 123-91-1 | 1,4-Dioxane | 0.10 | |
| 75-27-4 | Bromodichloromethane | 0.10 | |
| 10061-01-5 | cis-1,3-Dichloropropene | 0.10 | |
| 108-10-1 | 4-Methyl-2-pentanone | 0.10 | |
| 108-88-3 | Toluene | 0.10 | |
| 10061-02-6 | trans-1,3-Dichloropropene | 0.10 | |
| 79-00-5 | 1,1,2-Trichloroethane | 0.10 | |
| 127-18-4 | Tetrachloroethene | 0.10 | |
| 591-78-6 | 2-Hexanone | 0.50 | |
| 124-48-1 | Dibromochloromethane | 0.10 | |
| 106-93-4 | 1,2-Dibromoethane (EDB) | 0.10 | |
| 108-90-7 | Chlorobenzene | 0.10 | |
| 100-41-4 | Ethyl Benzene | 0.10 | |
| 108-38-3 | m,p-Xylene | 0.10 | |
| 95-47-6 | o-Xylene | 0.10 | |

# Compound List

**Modified TO-15-LL (Sp)/TICs (10)-Parsons (ConEd)**

| CAS Number | Compound | Detection Limit ppbv | Type |
|---|---|---|---|
| 100-42-5 | Styrene | 0.10 | |
| 75-25-2 | Bromoform | 0.10 | |
| 98-82-8 | Cumene | 0.10 | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 0.10 | |
| 103-65-1 | Propylbenzene | 0.10 | |
| 622-96-8 | 4-Ethyltoluene | 0.10 | |
| 108-67-8 | 1,3,5-Trimethylbenzene | 0.10 | |
| 95-63-6 | 1,2,4-Trimethylbenzene | 0.10 | |
| 541-73-1 | 1,3-Dichlorobenzene | 0.10 | |
| 106-46-7 | 1,4-Dichlorobenzene | 0.10 | |
| 100-44-7 | alpha-Chlorotoluene | 0.10 | |
| 95-50-1 | 1,2-Dichlorobenzene | 0.10 | |
| 120-82-1 | 1,2,4-Trichlorobenzene | 0.50 | |
| 87-68-3 | Hexachlorobutadiene | 0.50 | |
| 17060-07-0 | 1,2-Dichloroethane-d4 | | |
| 2037-26-5 | Toluene-d8 | | |
| 460-00-4 | 4-Bromofluorobenzene | | |
| 565-59-3 | 2,3-Dimethylpentane | 0.50 | |
| 107-83-5 | 2-Methylpentane | 0.50 | |
| 95-13-6 | Indene | 0.50 | |
| 496-11-7 | Indan | 0.50 | |
| 78-78-4 | Isopentane | 0.50 | |
| 91-20-3 | Naphthalene | 0.50 | |
| 110-02-1 | Thiophene | 0.50 | |
| 74-87-3 | Chloromethane | 0.10 | |
| 75-01-4 | Vinyl Chloride | 0.10 | |

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# Media Certification Report

Canister Number: 6L#34192 w/42mL#40671
Can#: 83788-34192
Date : 02/16/12 3:08
Data File: i021527.d

| Name | CAS | Conc. | Units |
|---|---|---|---|
| 2-Methylpentane | 107-83-5 | ND | ppbv |
| Thiophene | 110-02-1 | ND | ppbv |
| Indan | 496-11-7 | ND | ppbv |
| 2,2,4-Trimethylpentane | 540-84-1 | ND | ppbv |
| 2,3-Dimethylpentane | 565-59-3 | ND | ppbv |
| Indene | 95-13-6 | ND | ppbv |
| 1,2-Dichloroethane-d4 | 17060-07-0 | 68.00 | % Recovery |
| Toluene-d8 | 2037-26-5 | 96.00 | % Recovery |
| 4-Bromofluorobenzene | 460-00-4 | 116.00 | % Recovery |

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# Media Certification Report

Canister Number: 6L#34192 w/42mL#40671
Can#: 83788-34192a
Date : 02/16/12 3:08
Data File: i021527sim.d

| Name | CAS | Conc. | Units |
|---|---|---|---|
| Ethyl Benzene | 100-41-4 | ND | ppbv |
| Styrene | 100-42-5 | ND | ppbv |
| alpha-Chlorotoluene | 100-44-7 | ND | ppbv |
| cis-1,3-Dichloropropene | 10061-01-5 | ND | ppbv |
| trans-1,3-Dichloropropene | 10061-02-6 | ND | ppbv |
| Propylbenzene | 103-65-1 | ND | ppbv |
| 1,4-Dichlorobenzene | 106-46-7 | ND | ppbv |
| 1,2-Dibromoethane (EDB) | 106-93-4 | ND | ppbv |
| 1,3-Butadiene | 106-99-0 | ND | ppbv |
| 3-Chloropropene | 107-05-1 | ND | ppbv |
| 1,2-Dichloroethane | 107-06-2 | ND | ppbv |
| 4-Methyl-2-pentanone | 108-10-1 | ND | ppbv |
| m,p-Xylene | 108-38-3 | ND | ppbv |
| 1,3,5-Trimethylbenzene | 108-67-8 | ND | ppbv |
| Toluene | 108-88-3 | ND | ppbv |
| Chlorobenzene | 108-90-7 | ND | ppbv |
| Tetrahydrofuran | 109-99-9 | ND | ppbv |
| Hexane | 110-54-3 | ND | ppbv |
| Cyclohexane | 110-82-7 | ND | ppbv |
| 1,2,4-Trichlorobenzene | 120-82-1 | ND | ppbv |
| 1,4-Dioxane | 123-91-1 | ND | ppbv |
| Dibromochloromethane | 124-48-1 | ND | ppbv |
| Tetrachloroethene | 127-18-4 | ND | ppbv |
| Heptane | 142-82-5 | ND | ppbv |
| cis-1,2-Dichloroethene | 156-59-2 | ND | ppbv |
| trans-1,2-Dichloroethene | 156-60-5 | ND | ppbv |
| Methyl tert-butyl ether | 1634-04-4 | ND | ppbv |
| 2,2,4-Trimethylpentane | 540-84-1 | ND | ppbv |
| 1,3-Dichlorobenzene | 541-73-1 | ND | ppbv |
| Carbon Tetrachloride | 56-23-5 | ND | ppbv |
| 2-Hexanone | 591-78-6 | ND | ppbv |
| 4-Ethyltoluene | 622-96-8 | ND | ppbv |
| Ethanol | 64-17-5 | ND | ppbv |
| 2-Propanol | 67-63-0 | ND | ppbv |
| Acetone | 67-64-1 | ND | ppbv |
| Chloroform | 67-66-3 | ND | ppbv |
| Benzene | 71-43-2 | ND | ppbv |
| 1,1,1-Trichloroethane | 71-55-6 | ND | ppbv |
| Bromomethane | 74-83-9 | ND | ppbv |
| Chloromethane | 74-87-3 | ND | ppbv |
| Chloroethane | 75-00-3 | ND | ppbv |
| Vinyl Chloride | 75-01-4 | ND | ppbv |
| Methylene Chloride | 75-09-2 | ND | ppbv |

| Name | CAS | Conc. | Units |
|---|---|---|---|
| Carbon Disulfide | 75-15-0 | ND | ppbv |
| Bromoform | 75-25-2 | ND | ppbv |
| Bromodichloromethane | 75-27-4 | ND | ppbv |
| 1,1-Dichloroethane | 75-34-3 | ND | ppbv |
| 1,1-Dichloroethene | 75-35-4 | ND | ppbv |
| Freon 11 | 75-69-4 | ND | ppbv |
| Freon 12 | 75-71-8 | ND | ppbv |
| Freon 113 | 76-13-1 | ND | ppbv |
| Freon 114 | 76-14-2 | ND | ppbv |
| Isopentane | 78-78-4 | ND | ppbv |
| 1,2-Dichloropropane | 78-87-5 | ND | ppbv |
| 2-Butanone (Methyl Ethyl | 78-93-3 | ND | ppbv |
| 1,1,2-Trichloroethane | 79-00-5 | ND | ppbv |
| Trichloroethene | 79-01-6 | ND | ppbv |
| 1,1,2,2-Tetrachloroethane | 79-34-5 | ND | ppbv |
| Hexachlorobutadiene | 87-68-3 | ND | ppbv |
| Naphthalene | 91-20-3 | ND | ppbv |
| o-Xylene | 95-47-6 | ND | ppbv |
| 1,2-Dichlorobenzene | 95-50-1 | ND | ppbv |
| 1,2,4-Trimethylbenzene | 95-63-6 | ND | ppbv |
| Cumene | 98-82-8 | ND | ppbv |
| 1,2-Dichloroethane-d4 | 17060-07-0 | 110.00 | % Recovery |
| Toluene-d8 | 2037-26-5 | 108.00 | % Recovery |
| 4-Bromofluorobenzene | 460-00-4 | 93.00 | % Recovery |

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# Media Certification Report

Canister Number: 6L#94610 w/42mL#FC00710
Can#: 83788-94610
Date : 02/16/12 4:23
Data File: i021529.d

| Name | CAS | Conc. | Units |
|---|---|---|---|
| 2-Methylpentane | 107-83-5 | ND | ppbv |
| Thiophene | 110-02-1 | ND | ppbv |
| Indan | 496-11-7 | ND | ppbv |
| 2,2,4-Trimethylpentane | 540-84-1 | ND | ppbv |
| 2,3-Dimethylpentane | 565-59-3 | ND | ppbv |
| Indene | 95-13-6 | ND | ppbv |
| 1,2-Dichloroethane-d4 | 17060-07-0 | 60.00 | % Recovery |
| Toluene-d8 | 2037-26-5 | 116.00 | % Recovery |
| 4-Bromofluorobenzene | 460-00-4 | 107.00 | % Recovery |

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# Media Certification Report

Canister Number: 6L#94610 w/42mL#FC00710
Can#: 83788-94610a
Date : 02/16/12 4:23
Data File: i021529sim.d

| Name | CAS | Conc. | Units |
|---|---|---|---|
| Ethyl Benzene | 100-41-4 | ND | ppbv |
| Styrene | 100-42-5 | ND | ppbv |
| alpha-Chlorotoluene | 100-44-7 | ND | ppbv |
| cis-1,3-Dichloropropene | 10061-01-5 | ND | ppbv |
| trans-1,3-Dichloropropene | 10061-02-6 | ND | ppbv |
| Propylbenzene | 103-65-1 | ND | ppbv |
| 1,4-Dichlorobenzene | 106-46-7 | ND | ppbv |
| 1,2-Dibromoethane (EDB) | 106-93-4 | ND | ppbv |
| 1,3-Butadiene | 106-99-0 | ND | ppbv |
| 3-Chloropropene | 107-05-1 | ND | ppbv |
| 1,2-Dichloroethane | 107-06-2 | ND | ppbv |
| 4-Methyl-2-pentanone | 108-10-1 | ND | ppbv |
| m,p-Xylene | 108-38-3 | ND | ppbv |
| 1,3,5-Trimethylbenzene | 108-67-8 | ND | ppbv |
| Toluene | 108-88-3 | ND | ppbv |
| Chlorobenzene | 108-90-7 | ND | ppbv |
| Tetrahydrofuran | 109-99-9 | ND | ppbv |
| Hexane | 110-54-3 | ND | ppbv |
| Cyclohexane | 110-82-7 | ND | ppbv |
| 1,2,4-Trichlorobenzene | 120-82-1 | ND | ppbv |
| 1,4-Dioxane | 123-91-1 | ND | ppbv |
| Dibromochloromethane | 124-48-1 | ND | ppbv |
| Tetrachloroethene | 127-18-4 | ND | ppbv |
| Heptane | 142-82-5 | ND | ppbv |
| cis-1,2-Dichloroethene | 156-59-2 | ND | ppbv |
| trans-1,2-Dichloroethene | 156-60-5 | ND | ppbv |
| Methyl tert-butyl ether | 1634-04-4 | ND | ppbv |
| 2,2,4-Trimethylpentane | 540-84-1 | ND | ppbv |
| 1,3-Dichlorobenzene | 541-73-1 | ND | ppbv |
| Carbon Tetrachloride | 56-23-5 | ND | ppbv |
| 2-Hexanone | 591-78-6 | ND | ppbv |
| 4-Ethyltoluene | 622-96-8 | ND | ppbv |
| Ethanol | 64-17-5 | ND | ppbv |
| 2-Propanol | 67-63-0 | ND | ppbv |
| Acetone | 67-64-1 | ND | ppbv |
| Chloroform | 67-66-3 | ND | ppbv |
| Benzene | 71-43-2 | ND | ppbv |
| 1,1,1-Trichloroethane | 71-55-6 | ND | ppbv |
| Bromomethane | 74-83-9 | ND | ppbv |
| Chloromethane | 74-87-3 | ND | ppbv |
| Chloroethane | 75-00-3 | ND | ppbv |
| Vinyl Chloride | 75-01-4 | ND | ppbv |
| Methylene Chloride | 75-09-2 | ND | ppbv |

| Name | CAS | Conc. | Units |
|---|---|---|---|
| Carbon Disulfide | 75-15-0 | ND | ppbv |
| Bromoform | 75-25-2 | ND | ppbv |
| Bromodichloromethane | 75-27-4 | ND | ppbv |
| 1,1-Dichloroethane | 75-34-3 | ND | ppbv |
| 1,1-Dichloroethene | 75-35-4 | ND | ppbv |
| Freon 11 | 75-69-4 | ND | ppbv |
| Freon 12 | 75-71-8 | ND | ppbv |
| Freon 113 | 76-13-1 | ND | ppbv |
| Freon 114 | 76-14-2 | ND | ppbv |
| Isopentane | 78-78-4 | ND | ppbv |
| 1,2-Dichloropropane | 78-87-5 | ND | ppbv |
| 2-Butanone (Methyl Ethyl | 78-93-3 | ND | ppbv |
| 1,1,2-Trichloroethane | 79-00-5 | ND | ppbv |
| Trichloroethene | 79-01-6 | ND | ppbv |
| 1,1,2,2-Tetrachloroethane | 79-34-5 | ND | ppbv |
| Hexachlorobutadiene | 87-68-3 | ND | ppbv |
| Naphthalene | 91-20-3 | ND | ppbv |
| o-Xylene | 95-47-6 | ND | ppbv |
| 1,2-Dichlorobenzene | 95-50-1 | ND | ppbv |
| 1,2,4-Trimethylbenzene | 95-63-6 | ND | ppbv |
| Cumene | 98-82-8 | ND | ppbv |
| 1,2-Dichloroethane-d4 | 17060-07-0 | 109.00 | % Recovery |
| Toluene-d8 | 2037-26-5 | 110.00 | % Recovery |
| 4-Bromofluorobenzene | 460-00-4 | 90.00 | % Recovery |

Air Toxics LTD.

www.airtoxics.com
1-800-985-5955

# Media Certification Report

Canister Number: 6L#35287 w/42mL#6717
Can#: 83788-35287
Date : 02/16/12 3:46
Data File: i021528.d

| Name | CAS | Conc. | Units |
|---|---|---|---|
| 2-Methylpentane | 107-83-5 | ND | ppbv |
| Thiophene | 110-02-1 | ND | ppbv |
| Indan | 496-11-7 | ND | ppbv |
| 2,2,4-Trimethylpentane | 540-84-1 | ND | ppbv |
| 2,3-Dimethylpentane | 565-59-3 | ND | ppbv |
| Indene | 95-13-6 | ND | ppbv |
| 1,2-Dichloroethane-d4 | 17060-07-0 | 59.00 | % Recovery |
| Toluene-d8 | 2037-26-5 | 107.00 | % Recovery |
| 4-Bromofluorobenzene | 460-00-4 | 117.00 | % Recovery |

Air Toxics LTD.
www.airtoxics.com
1-800-985-5955

# Media Certification Report

Canister Number: 6L#35287 w/42mL#6717
Can#: 83788-35287a
Date : 02/16/12 3:46
Data File: i021528sim.d

| Name | CAS | Conc. | Units |
|---|---|---|---|
| Ethyl Benzene | 100-41-4 | ND | ppbv |
| Styrene | 100-42-5 | ND | ppbv |
| alpha-Chlorotoluene | 100-44-7 | ND | ppbv |
| cis-1,3-Dichloropropene | 10061-01-5 | ND | ppbv |
| trans-1,3-Dichloropropene | 10061-02-6 | ND | ppbv |
| Propylbenzene | 103-65-1 | ND | ppbv |
| 1,4-Dichlorobenzene | 106-46-7 | ND | ppbv |
| 1,2-Dibromoethane (EDB) | 106-93-4 | ND | ppbv |
| 1,3-Butadiene | 106-99-0 | ND | ppbv |
| 3-Chloropropene | 107-05-1 | ND | ppbv |
| 1,2-Dichloroethane | 107-06-2 | ND | ppbv |
| 4-Methyl-2-pentanone | 108-10-1 | ND | ppbv |
| m,p-Xylene | 108-38-3 | ND | ppbv |
| 1,3,5-Trimethylbenzene | 108-67-8 | ND | ppbv |
| Toluene | 108-88-3 | ND | ppbv |
| Chlorobenzene | 108-90-7 | ND | ppbv |
| Tetrahydrofuran | 109-99-9 | ND | ppbv |
| Hexane | 110-54-3 | ND | ppbv |
| Cyclohexane | 110-82-7 | ND | ppbv |
| 1,2,4-Trichlorobenzene | 120-82-1 | ND | ppbv |
| 1,4-Dioxane | 123-91-1 | ND | ppbv |
| Dibromochloromethane | 124-48-1 | ND | ppbv |
| Tetrachloroethene | 127-18-4 | ND | ppbv |
| Heptane | 142-82-5 | ND | ppbv |
| cis-1,2-Dichloroethene | 156-59-2 | ND | ppbv |
| trans-1,2-Dichloroethene | 156-60-5 | ND | ppbv |
| Methyl tert-butyl ether | 1634-04-4 | ND | ppbv |
| 2,2,4-Trimethylpentane | 540-84-1 | ND | ppbv |
| 1,3-Dichlorobenzene | 541-73-1 | ND | ppbv |
| Carbon Tetrachloride | 56-23-5 | ND | ppbv |
| 2-Hexanone | 591-78-6 | ND | ppbv |
| 4-Ethyltoluene | 622-96-8 | ND | ppbv |
| Ethanol | 64-17-5 | ND | ppbv |
| 2-Propanol | 67-63-0 | ND | ppbv |
| Acetone | 67-64-1 | ND | ppbv |
| Chloroform | 67-66-3 | ND | ppbv |
| Benzene | 71-43-2 | ND | ppbv |
| 1,1,1-Trichloroethane | 71-55-6 | ND | ppbv |
| Bromomethane | 74-83-9 | ND | ppbv |
| Chloromethane | 74-87-3 | ND | ppbv |
| Chloroethane | 75-00-3 | ND | ppbv |
| Vinyl Chloride | 75-01-4 | ND | ppbv |
| Methylene Chloride | 75-09-2 | ND | ppbv |

| Name | CAS | Conc. | Units |
|---|---|---|---|
| Carbon Disulfide | 75-15-0 | ND | ppbv |
| Bromoform | 75-25-2 | ND | ppbv |
| Bromodichloromethane | 75-27-4 | ND | ppbv |
| 1,1-Dichloroethane | 75-34-3 | ND | ppbv |
| 1,1-Dichloroethene | 75-35-4 | ND | ppbv |
| Freon 11 | 75-69-4 | ND | ppbv |
| Freon 12 | 75-71-8 | ND | ppbv |
| Freon 113 | 76-13-1 | ND | ppbv |
| Freon 114 | 76-14-2 | ND | ppbv |
| Isopentane | 78-78-4 | ND | ppbv |
| 1,2-Dichloropropane | 78-87-5 | ND | ppbv |
| 2-Butanone (Methyl Ethyl | 78-93-3 | ND | ppbv |
| 1,1,2-Trichloroethane | 79-00-5 | ND | ppbv |
| Trichloroethene | 79-01-6 | ND | ppbv |
| 1,1,2,2-Tetrachloroethane | 79-34-5 | ND | ppbv |
| Hexachlorobutadiene | 87-68-3 | ND | ppbv |
| Naphthalene | 91-20-3 | ND | ppbv |
| o-Xylene | 95-47-6 | ND | ppbv |
| 1,2-Dichlorobenzene | 95-50-1 | ND | ppbv |
| 1,2,4-Trimethylbenzene | 95-63-6 | ND | ppbv |
| Cumene | 98-82-8 | ND | ppbv |
| 1,2-Dichloroethane-d4 | 17060-07-0 | 109.00 | % Recovery |
| Toluene-d8 | 2037-26-5 | 104.00 | % Recovery |
| 4-Bromofluorobenzene | 460-00-4 | 93.00 | % Recovery |

# DATA REVIEW CHECKLIST

**Work Order #:** 202449

| $A_1$ | $A_2$ | W | T | R | Q | |
|---|---|---|---|---|---|---|
| ☑ | ☐ | ☑ | ☐ | ☐ | ☐ | Analysis/Reporting vs. Project Profile/SOP requirements checked (i.e. 100% Dups, J-Flag to MDL, etc) |
| | | ☑ | ☐ | ☐ | ☐ | The final report has the correct reporting list, special units, and header info. |
| ☑ | ☑ | ☑ | | | | Non-Standard sublist printed/verified, LOQ and LOD verified |
| | | ☐ | ☐ | ☐ | ☐ | Lab Narrative is correct (proper method & description/Receiving & Analytical notes correct) |
| | | NA | ☐ | ☐ | ☐ | Sample Discrepancy Report (SDR) is completed |
| NA | NA | ☐ | ☐ | ☐ | ☐ | Corrective Action issued - # |
| ☑ | ☑ | ☑ | ☐ | | ☐ | Unusual circumstances have been documented in the notes section below |

**LUMEN** *validation report present and initialed* ***CIRCLE ( YES / NO )***

| | | | | | | |
|---|---|---|---|---|---|---|
| ☑ | ☑ | ☐ | ☐ | ☐ | ☐ | Lab Blank, CCV, LCS and DUP met QC criteria |
| ☑ | ☑ | ☐ | ☐ | ☐ | ☐ | Hold time is met for all samples |
| | | ☐ | ☐ | ☐ | ☐ | Appropriate data qualifier flags are applied |
| | | ☐ | ☐ | ☐ | ☐ | Manual integrations for samples and QC are properly documented |
| ☑ | ☑ | ☐ | ☐ | | ☐ | Samples analyzed within the project or method specific clock |
| | | ☐ | ☐ | | | Retention times have been verified |
| ☑ | ☑ | ☐ | ☐ | | ☐ | Appropriate ICAL(s) included, %RSD Recalculation |
| | | ☑ | ☐ | | ☐ | At least one result per sample is verified against the target quant sheets/raw data |
| ☑ | ☑ | ☑ | ☐ | | ☐ | Dilution factor correctly calculated (sample load volume, syringe and bag dilutions, can pressurization(s)) |
| ☑ | ☑ | ☑ | ☐ | | | Correct amount of sample analyzed (i.e. sample not over-diluted) |
| | | ☑ | ☐ | | | Spectra verified - documentation of spectral defense included (Section 5A of eCVP pkg) |
| | | ☑ | ☐ | | | TICs resemble reference spectra |
| | | NA | ☐ | | | TICs between duplicate samples are consistent |
| ☑ | ☑ | ☑ | ☐ | ☐ | ☐ | Checked samples for trends (i.e. Influent vs. Effluent, Field Dups, Field/Trip Blank, etc.) |
| ☑ | ☑ | ☑ | ☐ | | | Data for multiple analyses of sample(s) has been evaluated for comparability of results |
| | | NA | ☐ | | | Special units for all samples in the final report are correctly calculated |
| | | ☑ | ☐ | | | Manually entered results checked (i.e. TPH/NMOC) |
| ☑ | ☑ | ☑ | | | | Chain of Custody verified for any special comments (i.e. different compounds/RLs, action levels) |
| | | ☑ | | | | Chain of Custody scanned correctly |
| | | | | ☐ | | Verify sample id's vs. chain of custody |
| ☑ | ☑ | ☑ | | | | Date MDL(s) performed per instrument(s) MSD-E 11/16/11 |
| ☑ | ☑ | ☑ | | | | Samples pressurized w/ appropriate gas ($N_2$ or He) ☐ Other (i.e. Tedlar bag, cartridge, sorbent) |
| ☑ | ☑ | ☑ | | | | Final pressure consistent with canister size (6L vs. 1L) |
| ☑ | ☑ | ☑ | | | | Verify receipt pressures |
| ☑ | ☑ | ☑ | | | | Verify canister ID #'s |
| | | ☑ | ☐ | ☐ | | Final invoice amount correct (adjusted for TAT, Penalties, Re-issue Charges etc.) |
| | | ☑ | ☐ | ☐ | | Final PDF report, COC and EDD reviewed for correctness |

***Notes:*** *(to include: noting samples with QA/QC problems, Blanks with positive hits, narratives, etc.)*

A/R: 3/13/12: 2 out ↑ CCV; 0 out LCS/LCSD;
3/14/12: 0 out CCV; 0 out LCS; 1 out ↓ LCSD; 02A Dil TC; Specials Curved up to 5ppbv 02A - 1st IS deleted to calculate conc. of TICs due to evolution
3/20/12: 1 out ↓ 1 out ↑ CCV; 1 out ↓ LCS; 80x can dil for 03A for matrix

T/Q: 1st SOFT out ↑ matrix; 03A moved back to LL

| $A_1/A_2$ (Analytical Review/Date) | W/T (Write-up/Tech Review/Date) | R* (Report Review/Date) | Q (QA Review/Date) |
|---|---|---|---|
| $A_1$: 3/14/12 | W: 3/21/12 | R: | |
| $A_2$: 3/20/12 | T: | | |

**Note (1): Please check all the appropriate boxes. Indicate "NA" for any statement that does not apply.**
**Note (2): Report reviewer and write-up reviewer must be separate individuals for DoD & Client Specific projects.**
*** Report Review is completed for DoD & Client Specific projects only.**

# Not Applicable

# APPENDIX D

# FORENSIC HYDROCARBON FINGERPRINT LABORATORY ANALYTICAL REPORTS

# Environmental Forensic Report

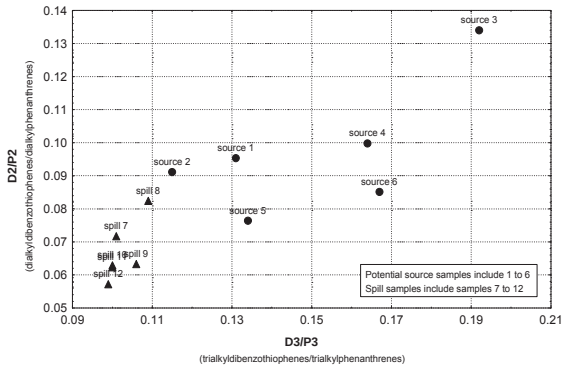
## Con Edison - Farrington St.

**SDG: PA111010**





Figure 1. Double Ratio Plot




*Report To:*

**Parsons**
**301 Plainfield Road**
**Syracuse, NY 13212**

*Report By:*

**META Environmental, Inc.**
**49 Clarendon Street**
**Watertown, MA 02472**

**November 7, 2011**

***Identifying and allocating sources of pollutants in complex environments.***

META Environmental, Inc.
ENGINEERING & CHEMISTRY

Final Laboratory Report

META Environmental, Inc.
49 Clarendon Street
Watertown, MA 02472
Phone: 617-923-4662
Fax: 617-923-4610
E-Mail meta@metaenv.com

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Conference and/or state specific certification programs as applicable.

New York Certification Number: 11886

## Certification

This certifies that this package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed herein. The results included in this data report relate only to the samples as received and analyzed by the laboratory.

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

Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager and Quality Assurance Officer, as verified by the following signatures.

James A. Roush — November 7, 2011
Environmental Scientist, Laboratory Manager

David M. Mauro — November 7, 2011
Senior Scientist, Quality Assurance Officer

# Sample Delivery Group Narrative

| | |
|---|---|
| Project: | Farrington St. |
| Client | Parsons<br>301 Plainfield Road<br>Syracuse, NY 13212 |
| Report Contact: | Shane Blauvelt |
| Dates of Receipt: | October 10, 2011 |
| Sample Summary: | The samples received for this project are summarized in the attached sample login forms in Appendix A. |
| META Project Number: | P06011 |
| SDG No.: | PA111010 |
| Total Pages in Report: | 58 |

# Chain of Custody

The sample was received in good condition. The internal temperature of the shipping container was above the recommended 0-6°C range and was as follows:

Samples received: 10/10/2011 19.1°C Ice melted

Internal chain of custody procedures were followed after sample receipt. Samples were stored in a locked refrigerator. A sample custody logbook contains the record of sample removal from the secure sample storage area to the sample preparation laboratory. The custody record for the sample extracts is present on the sample extraction logbook page.

The disposal of samples and extracts will be authorized one month after the release of this data report. Sample disposal will be documented.

# Methods

The soil sample was prepared by solvent extraction (EPA 3570) using dichloromethane (DCM). The extracts were spiked with internal standard and analyzed by GC/FID (EPA 8100M) for fingerprinting and by GC/MS/SIM (EPA 8270M) for mono- and polycyclic aromatic hydrocarbons (MAHs and PAHs), alkyl PAH homologues and other selected compounds.

# Results

Sample results are presented in several appendices which follow this narrative.

Appendix B: GC/FID Fingerprints
Appendix C: MAH/PAH Concentrations
Appendix D: Extended MAH/PAH Profiles - Histograms
Appendix E: Extracted Ion Current Profiles (EICPs)

# Quality Control

**Analyte Flags**

The detection limits were determined as the sample equivalent of the lowest linear initial calibration standard. Analytes measured between 50% and 100% of the lowest standard were reported as "estimated" and flagged with the letter "J." Undetected analytes were reported as null and flagged with the letter, "U." Analytes marked with a "B" were detected in the associated blank and should be reviewed for a possible positive bias. No deviations were thought significant enough to compromise the integrity of the reported values.

**Holding Times**

The sample was extracted 17 days after collection. This is 3 days outside of the recommended 14-day holding time for SVOCs. The sample and extracts were stored at 4°C ± 2°C prior to extraction and analysis. The extracts were analyzed within 40 days of sample preparation.

**Surrogate Spikes**

Extraction surrogates were added to all samples prior to extraction. All surrogate compounds were recovered within the 50%-120% acceptable criterion.

**Blanks**

Various MAHs and PAHs were detected below or just above the reporting limit (RL) in soil blank QC111014-SB. With the exception of heptadecane and octadecane, these compounds were detected in the field sample at much higher relative concentrations (greater than 10x the blank levels), so positive bias does not appear to be significant. Heptadecane and octadecane were not detected above the RL in the field sample.

**Blank Spikes**

A blank spike sample was extracted with each analytical batch. All spiked compounds were recovered within the 70%-120% recommended criterion with the exception of benzene, which was under-recovered in soil blank spike QC111014-SBS.

**Duplicates**

Sample CMW-38 (13-15) NAPL was extracted and analyzed in duplicate. Relative percent differences are reported with the sample results in Appendix C.

**Internal Standards**

Internal standards were recovered within acceptable QC limits (50%-200%) relative to the continuing calibration standards.

# Interpretation

**Introduction**

One soil sample was received by META from the Farrington St. site on October 10, 2011. The sample was analyzed for hydrocarbon fingerprint and an expanded list of MAHs and PAHs.

This report summarizes the findings and compares the samples.

**Sample-Specific Observations**

CMW-38 (13-15) NAPL

Sample CMW-38 (13-15) NAPL contained a mixture of petrogenic and pyrogenic material (see definitions). The concentration of total $PAHs_{(42)}$ was 1,050 mg/kg, indicating that the sample contained PAHs from other sources in addition to general urban background.

The pyrogenic material was indicated by the wide range distribution of unsubstituted mono- and polycyclic aromatic hydrocarbons (MAHs & PAHs), with naphthalene most abundant. The ratio of fluoranthene to pyrene, as well as the double ratio plots of dibenzofuran/fluorene (D/F) to F/P (Figure 1) and benzofluorenes/methylpyrenes (BF/MP) to F/P (Figure 2), show that this material is similar to tars in META's reference library that were formed from manufactured gas plants (MGPs) utilizing carbureted water gas processes.

The petrogenic material was indicated by an unresolved complex mixture (UCM) that eluted from about 10 minutes (C9 - nonane) to about 45 minutes (C34 – tetratriacontane) with a maximum at about 32 minutes (C21 – heneicosane) in the GC/FID chromatogram (Appendix B). The UCM exhibited a bimodal baseline that may indicate the presence of a mixture of fuel types.

The presence of isoprenoid compounds including pristane and phytane as well as alkyl-cyclohexane hydrocarbons and sesquiterpane petroleum biomarkers in the GC/MS extracted ion current profiles (EICPs - Appendix E) confirm that this material was produced from petroleum. Normal alkanes were absent from the sample, suggesting that the petrogenic material also experienced substantial environmentally induced degradation. Examples of common petroleum products with these features include blended fuel oils such as No. 4 or No, 6 fuel oils, and other mixed materials containing No. 2 fuel oils and heavier oils.

The petrogenic and pyrogenic components found in sample CMW-38 (13-15) NAPL are similar to other materials META has detected in samples from the Con-Edison - Farrington St. site. See results for the sample delivery groups PA090421, PA090514, PA090520, PA090711, and PA110919.

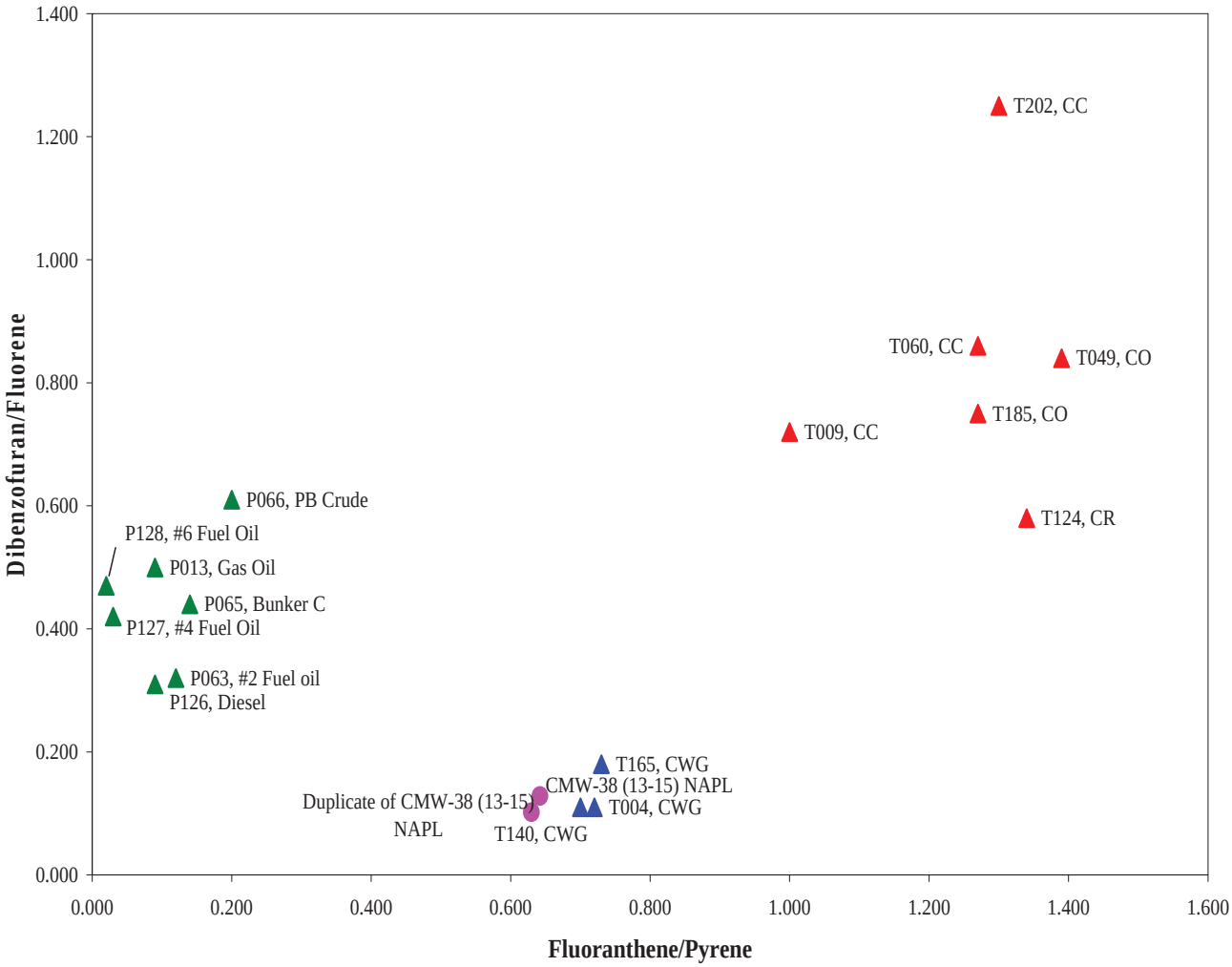
## Table 1. Selected Source and Weathering Ratios

| Field ID | Fl/Py | D/F | C17/Pri | C18/Phy | Pri/Phy | C3D/C3PA | C2D/C2PA | BF/MP |
|---|---|---|---|---|---|---|---|---|
| CMW-38 (13-15) NAPL | 0.642 | 0.128 | NC | NC | 1.423 | 0.450 | 0.336 | 0.325 |
| Duplicate of CMW-38 (13-15) NAPL | 0.630 | 0.102 | NC | NC | 1.406 | 0.438 | 0.320 | 0.361 |

**Ratios:**

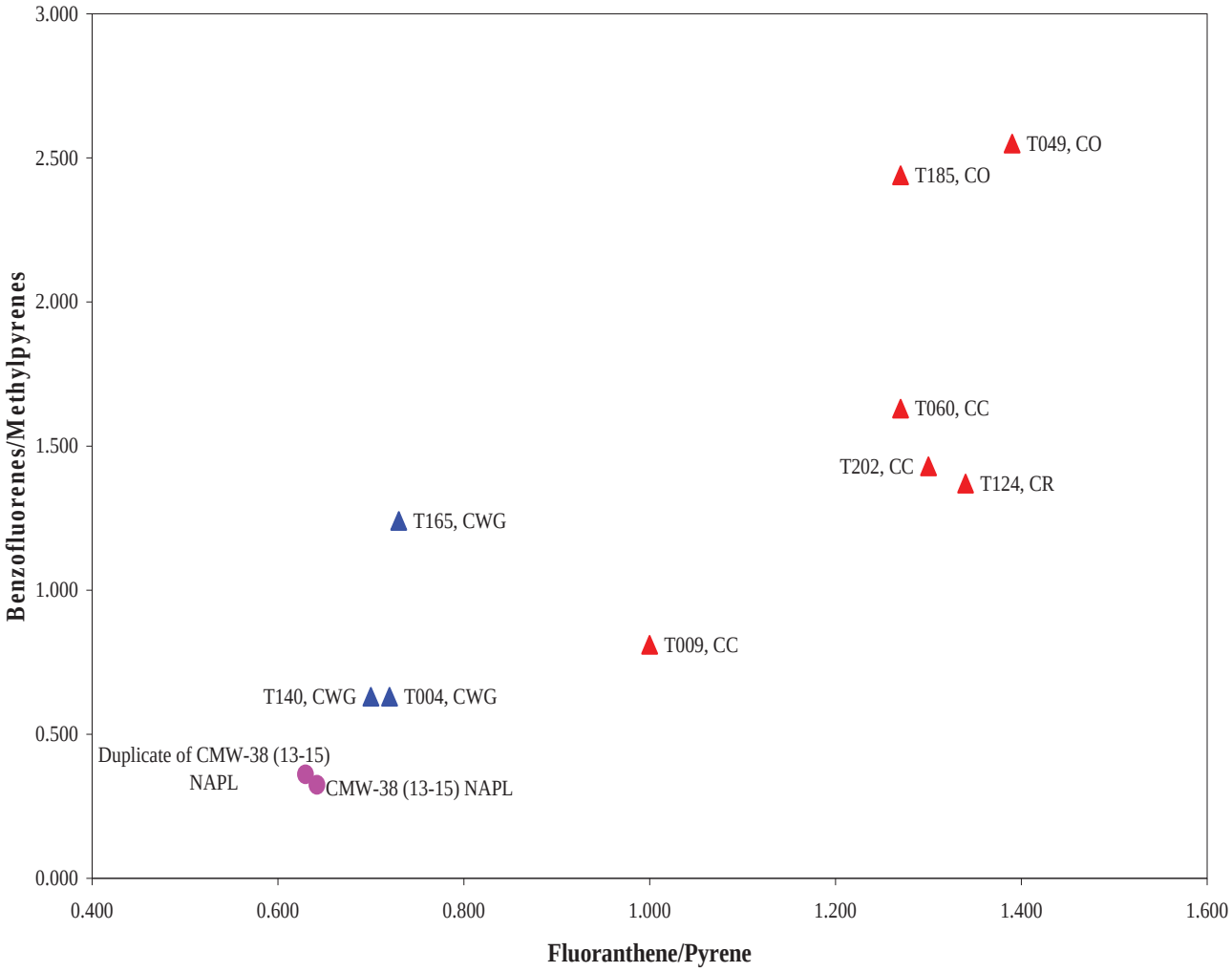
| | |
|---|---|
| Fl/Py | fluoranthene/pyrene |
| D/F | dibenzofuran/fluorene |
| C17/Pris | heptadecane/pristane |
| C18/Phy | octadecane/phytane |
| Pris/Phy | pristane/phytane |
| C3D/C3PA | trialkyldibenzothiophenes/trialkylphenanthrenes/anthracenes |
| C2D/C2PA | dialkyldibenzothiophenes/dialkylphenanthrenes/anthracenes |
| BF/MP | benzofluorenes/methylpyrenes |
| NC | Not calculable |

## Figure 1. Selected Diagnostic Ratios – Fl/Py v. D/F




TXXX Tar Sample from META's in house source library
CC Coal Carbonization Tar
CO Coke Oven Tar
CR Creosote
CWG Carbureted Water Gas Tar
● Field Samples

## Figure 2. Selected Diagnostic Ratios – Fl/Py v. BF/MP




TXXX Tar Sample from META's in house source library
CC Coal Carbonization Tar
CO Coke Oven Tar
CR Creosote
CWG Carbureted Water Gas Tar
● Field Samples

# Sources of MAHs and PAHs in the Environment

Aromatic hydrocarbons include monocyclic aromatic hydrocarbons (MAHs) such as benzene, toluene, xylenes, and alkylated benzenes, and polycyclic aromatic hydrocarbons (PAHs) such as naphthalene, phenanthrene, and pyrene. MAHs and PAHs originate from many sources and are ubiquitous in the environment. This section briefly reviews the sources of MAHs and PAHs in urban soils and sediment.

Crude petroleum, many of its refined products, coal, coal tar, and many coal tar products consist primarily of hydrocarbons. Hydrocarbons are organic molecules that are made up of only carbon and hydrogen atoms. Some simple hydrocarbons include hexane and benzene. There are several types of hydrocarbons that are commonly grouped by similar chemical structures, such as alkanes, cyclic alkanes, and aromatic hydrocarbons.

MAHs and PAHs are one group of hydrocarbons that are present at high relative amounts in crude oil, coal, coal tar, and many of their products. In environmental forensic chemistry and geochemistry, MAHs and PAHs are placed in subgroups according to their origins. These groups include *diagenic*, or recently produced; *petrogenic*, produced at relatively low temperatures over long periods of time; and *pyrogenic*, produced at high temperatures with a shortage of oxygen. *Petrogenic* MAHs and PAHs are those found in crude oil and similar materials. *Pyrogenic* MAHs and PAHs are those found in coal tar and related substances, and from the incomplete combustion of organic matter.

Some MAHs and PAHs can be formed by natural biological and chemical processes at ambient temperatures. When present, these MAHs and PAHs are found at very low concentrations. Further, these MAHs and PAHs are rarely the subjects of environmental investigations and few, if any, are regulated.

MAHs and PAHs also can be formed at relatively low temperatures. In particular, crude oils contain MAHs and PAHs that formed over millions of years at temperatures as low as 100°C to 150°C. MAHs and PAHs formed during crude oil maturation and similar processes are called ***petrogenic***. Similarly, coal was formed at low temperatures over long periods of time and therefore is included in the petrogenic group. Both crude oil and coal contain hundreds of different MAH and PAH compounds, including many that are the subject of environmental investigations and are regulated.

***Petrogenic*** MAHs and PAHs have been released into urban environments from numerous anthropogenic sources over the past two centuries. For example, it has been a common practice to spray roads with oil to manage dust. Asphalt is produced from petroleum and the small particles that are created as roads wear away contain PAHs. Cars and trucks drip fuels and lubricating oils that contain petrogenic MAHs and PAHs. Many industries have stored and ultimately spilled petroleum products that range from gasoline to heavy oils. Further, the potential impacts from coal cannot be ignored. For many years, residential and commercial buildings were heated with coal and small amounts of coal and coal dust accumulated wherever coal was handled. All of these sources of petrogenic PAHs, and many others, contributed to a

pervasive background of PAHs in urban settings. Because many releases occurred years ago at unanticipated locations and because soil was moved around as the urban environment expanded and was modified for various uses, it is difficult to predict where and at what levels MAHs and PAHs might be found.

Finally, MAHs and PAHs are formed whenever organic substances are exposed to high temperatures under low oxygen or no oxygen conditions in a process called ***pyrolysis***. Pyrolytic processes occur intentionally, such as in the destructive distillation of coal into coke and coal tar, or the thermal cracking of petroleum residuals into lighter hydrocarbons and oil tar. Similar processes occur unintentionally, such as the incomplete combustion of motor fuels in cars and trucks, the incomplete combustion of wood in forest fires and fireplaces, and the incomplete combustion of fuel oils in heating systems. These processes occur at temperatures that range from about 350°C to more than 1200°C, and their products are called ***pyrogenic***.

Like petrogenic MAHs and PAHs, pyrogenic MAHs and PAHs have been released into urban environments from numerous sources. These include some obvious sources, such as building fires and industrial smoke stacks. They also include less obvious sources, such as debris from coal tar-treated roofing and building materials. The incomplete combustion of gasoline and diesel fuel in cars, trucks, and buses produces substantial amounts of pyrogenic MAHs and PAHs that attach to small particles and accumulate along roadsides. Any commerical or industrial facility that utilized high temperatures in their operation probably produced MAHs and PAHs. These included such industries as foundries, steel mills, coke plants, smelters, and others. Similar to petrogenic MAHs and PAHs, pyrogenic MAHs and PAHs accumulated in soil and sediment and are found throughout all urban areas.

Pyrogenic MAHs and PAHs often are further classified as coal tar-derived, oil tar-derived, and combustion-derived. Several rules of thumb have been developed over the past 20 years or so based on detailed analyses of reference samples and sampling and analysis of “background” samples. The following section briefly summarizes the compositional characteristics of petrogenic and pyrogenic substances that are used to identify and attribute MAHs and PAHs to specific sources.

**Composition of Pyrogenic and Petrogenic Materials**

Both pyrogenic and petrogenic sources of MAHs and PAHs have been found to contain hundreds of individual MAHs and PAH compounds in generally predictable patterns. For example, it is known that the temperature of formation of MAHs and PAHs largely determines the distribution of the various parent and alkylated PAHs. Variations in these MAH and PAH distributions are measured using gas chromatography (GC) methods, particularly GC/MS. Of particular importance to environmental forensic chemistry is the fact that petrogenic and pyrogenic substances from different sources can have measurably different amounts of MAHs and PAHs. For example, crude oils from different reservoirs can exhibit notably different ratios of trialkylated dibenzothiophenes to trialkylated phenanthrenes. Similarly, the ratio of dialkylated chrysene to chrysene varies among certain pyrogenic sources. Consequently, the determination of PAH profiles forms an important component of environmental forensic studies where hydrocarbon releases, either petrogenic or pyrogenic, are known or suspected to be involved.

In addition to MAHs and PAHs, pyrogenic and petrogenic substances can contain paraffinic hydrocarbons, olefinic hydrocarbons, naphthenic hydrocarbons, and other types of compounds. The presence and relative amounts of these compounds also is used to identify the nature and source of hydrocarbon-based materials in environmental samples.

**Description of Chemical Fingerprinting Methodology**

PAHs commonly form the basis for source attribution and allocation at sites involving petrogenic or pyrogenic materials. Studies have shown that the pattern of PAHs clearly distinguishes petrogenic from pyrogenic substances and can be used to identify and classify petrogenic or pyrogenic substances of different origins. For example, ASTM Method D 5739-06 is the method used extensively by the U.S. Coast Guard to determine the source of oil spilled in public waterways. That method relies on the determination of selected PAHs and alkylated PAHs in oil, soil, or water samples by gas chromatography with mass spectrometric detection (GC/MS) and the use of the qualitative patterns and quantitative ratios of those PAHs to determine which oil samples have a common origin. Similarly, work by META Environmental, Inc. (META) has shown that the same methodology can be used to identify the sources of PAHs at former MGP sites, coke plants, tar refineries and wood treating facilities (among others). Further, META has modified the typical sample preparation and analysis procedures for hydrocarbon fingerprinting to include MAHs and other diagnostic compounds, as well as PAHs.

The following is a more detailed discussion of the forensic methods used by META is presented in the next subsection as background.

GC/FID Fingerprinting

Typically, soil samples are analyzed by gas chromatography with flame ionization detection (GC/FID) as part of any forensic study of hydrocarbon releases. With GC/FID, organic compounds in a sample are vaporized and then separated in a long, narrow fused silica capillary column. Separation follows boiling point approximately with the most volatile compounds exiting the column first followed by increasingly less volatile compounds. Therefore, certain refined petroleum products, generated by the distillation of crude oil and which differ in their boiling point ranges, are distinguishable by where they appear on a chromatogram. Once they exit the column, the compounds are detected using the flame ionization technique. As the compounds exit and are detected, their responses are recorded and shown as peaks on a continuous plot. The height and area of a peak are proportional to the concentration of that compound in the sample. When done in a controlled and reproducible manner, the GC/FID method produces a “fingerprint” of a sample where the presence and relative amounts of the compounds are immediately visible as peaks of varying height appearing at different times.

GC/FID methods are commonly used for fingerprinting in a number of forensic fields. The patterns of individual peaks and the sizes and shapes of any baseline features are examined qualitatively for similarities and differences among samples.

The instrumental conditions for the GC/FID analyses conducted by META have been adjusted so that compounds with boiling points between about hexane (C6) and n-tetracontane (C40) are detectable in one analytical run. This range includes most of the VOCs and all of the SVOCs commonly measured in environmental investigations. In particular, it includes benzene, toluene,

ethylbenzene, xylenes, and the 16 priority pollutant PAHs that comprise a major portion of tars and other pyrogenic substances. It also includes the range of compounds that are measurable in pyrogenic substances by gas chromatographic methods. Finally, META's GC/FID conditions detect most of the constituents of gasoline, as well as all of the constituents of higher boiling petroleum products (e.g., kerosene, diesel, refined oils).

Source identification using GC/FID is mostly qualitatively applied. An experienced chemist examines the chromatograms, compares them to those of reference materials, and makes a judgment regarding the nature and source of the contamination in the sample. The chemist might go "peak-by-peak" looking for similarities and differences, comparing peak ratios, and looking for indicator compounds.

For some samples, GC/FID fingerprinting is accurate and sufficient. However, the reliability of GC/FID fingerprinting decreases when multiple sources are present in a sample and when the sample composition becomes extensively altered by environmental weathering processes. Other testing methods, such as GC/MS, are complementary for source identification under these conditions.

Extended PAH Profiles (EPPs) by GC/MS

Typically, soil, water, and NAPL samples also are analyzed by GC/MS as part of any forensic study of hydrocarbon releases. META has modified the EPA Method 8270 conditions to include an expanded list of MAHs and PAHs (we call this target compound list, Expanded PAH Profiles or EPPs). Separation is accomplished with gas chromatography using a method similar to the GC/FID method discussed previously. However, in GC/MS, once compounds exit the column, they are detected using a mass spectrometer. In the mass spectrometer, the molecules of each compound are ionized at high temperature and vacuum. The ionic fragments are unstable and fragment into smaller ions. The ions are then counted and the mass spectrum recorded. Thus, the mass spectrum for a compound is the pattern of ionic fragments that forms when that compound is ionized. Mass spectra vary widely and are characteristic of their source compound. For example, the mass spectrum of hexane is very different from the mass spectrum of benzene even though both compounds contain six carbon atoms plus hydrogen atoms.

In GC/MS, one obtains both a chromatogram of peaks and additional compound-specific information in the mass spectrum. When executed in a controlled and reproducible manner, the GC/MS method produces multiple "fingerprints" of a sample when specific fragment ions are isolated.

GC/MS is utilized in two general ways in environmental forensic chemistry. First, samples are analyzed under the conditions required by various standard methods, particularly EPA Methods 8260 and 8270 (U.S. EPA SW-846). The concentrations of certain target compounds are determined and the mass spectrum of each peak in the chromatogram is generated and stored. These mass spectra can be used to identify non-target compounds or to generate extracted ion current profiles (EICPs). Second, various specialty methods are utilized where the GC/MS operating conditions are setup to measure only certain groups of compounds. For example, the method described in 40 CFR Subchapter J Part 300 Subpart L Appendix C for PAHs, alkylated PAHs, and biomarkers is used extensively in oil spill and UST release analyses. This method is similar to ASTM Method D 5739-06, "Standard Practice for Oil Spill Source Identification by

Gas Chromatography and Positive Ion Electron Impact Low Resolution Mass Spectrometry."

GC/MS data are used both qualitatively and quantitatively. An experienced chemist examines the chromatograms, compares them to those of reference materials, and makes judgments regarding the nature and source of the contamination in the sample. The chemist might go "peak-by-peak" looking for similarities and differences, comparing peak ratios, and looking for indicator compounds. This process is described in detail in ASTM Method D 5739-06.

GC/MS data are more commonly used quantitatively by calculating the concentrations of selected compounds, by comparing compound ratios, or by applying chemometric or pattern recognition techniques to the raw or adjusted data. These data analysis methods are used extensively with EPPs and with biomarker compound data. Various degrees of statistical confidence can be achieved by examining chemical concentrations and compound ratios or patterns from multiple samples and replicate samples. This characteristic of GC/MS quantitative data is particularly valuable when assessing the degree of similarity or difference between samples, particularly when multiple sources of hydrocarbons are present in the sample or when environmental weathering has altered the original distributions of hydrocarbons.

Finally, the GC/MS data can be examined to determine whether any diagnostic or indicator chemicals are present in the sample. Further, unknown compounds can be identified and their presence used as clues to the source(s) of the chemicals.

META's GC/MS method quantifies a relatively large list of MAHs, including many individual alkylated benzenes, PAHs, alkylated PAHs, several sulfur- and oxygen-containing compounds, and several common petroleum biomarker compounds. These data are used to generate bar graphs, compound ratios, double ratio plots, and other diagnostic and display methods. Also, we generate certain extracted ion current profiles (EICPs) for selected compounds and compound groups of forensic value. For example, the EICPs for selected "biomarker" compounds including normal alkanes, isoprenoid hydrocarbons, alkylcyclohexanes, triterpanes and steranes are shown on the first page of the EICP report for each sample. These compound groups are commonly used in hydrocarbon source identifications and weathering evaluations. For example, the estimated boiling point range of a refined petroleum product, as indicated by the location of the alkanes and unresolved complex mixture (UCM) on the chromatogram, can be used to determine whether the material is kerosene, diesel, No. 6 fuel oil, or some other product. Similarly, triterpanes and steranes are known to be present in crude oils and some refined petroleum products, but not found in coke oven tars and rarely found in MGP tars. Therefore, the presence of triterpanes and steranes is monitored to confirm and refine the petrogenic verses pyrogenic assessment conducted with the PAH profiles.

# Definitions

Pyrogenic substances are complex mixtures of primarily hydrocarbons produced from organic matter subjected to high temperatures but with insufficient oxygen for complete combustion. Pyrogenic materials are produced by fires, internal combustion engines, and furnaces. They also are formed when coke or gas are produced from coal or oil. Coal-tar based products, such as roofing, pavement sealers, waterproofing, pesticides, and some shampoos contain pyrogenic materials.

Petrogenic substances include crude oil and crude oil derivatives such as gasoline, heating oil, and asphalt.

Pitch is the semi-solid or solid material consisting of high molecular weight hydrocarbons that remain following coal tar distillation.

# References

McNicoll, D., Tousignant, L.P., Augustine, P. "Facts and Fallacies: Petroleum Degradation in a Subsurface Environment." Contaminated Soil Sediment and Water, 17-21, June,July 2001

"Chemical Fingerprinting of Hydrocarbons," in: Introduction to Environmental Forensics. B.L. Murphy and R.D. Morrison editors, Academic Press, San Diego, CA 2002.

Mauro, D.M., "Chemical Source Attribution at former MGP Sites," EPRI Report 1000728, December 2000.

# Appendix A

# Chain of Custody

# CHAIN OF CUSTODY RECORD

**PROJECT** Farrington St.
**CONTACT** Shane Blauvelt
**COMPANY** Parsons
**ADDRESS** 301 Plainfield Rd
Syracuse, NY 13212
**EMAIL** Shane.blauvelt@parsons.com
**PHONE** 315 552 9675 **FAX** 315 451 9570
**SAMPLED BY**
Print Name Zohar Lavy Sign

**Turn Around Time**
Standard [X]
If Authorized *
1 Week [ ]
Other [ ] ____

**META Environmental, Inc.**
49 Clarendon St. - Watertown, Massachusetts - 02472
Tel (617) 923-4662 - Fax (617) 923-4610 - www.metaenv.com

| Samp # | Date | Time | Field Sample ID | Container Size | Container G/P | Grab | Composite | # of Containers | Matrix | Preserv. | Parameters: Hydrogen and Methane by RSK 175 | Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 9/27/11 | 1040 | CMW-38(13-15)NAPL | 40z | | ✓ | | 1 | Soil | | X | PACE LAB ID PA11010-01 |
| | | | | | | | | | | | | |
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| Relinquished by | Date & Time | Relinquished by | Date & Time | Relinquished by | Date & Time |
|---|---|---|---|---|---|
| (to UPS) | 10/7/11 1800 | | | | |
| **Received by** | **Date & Time** | **Received by** | **Date & Time** | **Received by** | **Date & Time** |
| | 10/14/11 0930 | | | | |

Shipping Info.

Remarks

Temp °C 19.1

* Surcharges may apply

**META Environmental, Inc.**

Sample Receipt Log

| Lab ID | Field ID | Matrix | Date Sampled | Date Received | Project # | Container | Comments | Client Name | Project Name |
|---|---|---|---|---|---|---|---|---|---|
| PA111010-01 | CMW-38 (13-15) NAPL | Soil | 9/27/2011 | 10/10/2011 | P06011-60 | 1 x 4 oz jar | | Parsons | Farrington St. |

Logged By: EB

Date: 10/10/11

Reviewed By: JM

Date: 10/11/11

META Environmental, Inc.

**Sample Receipt Checklist**

Receipt date: 10/10/11

Login date: 10/10/11

Login personnel: GB

**Client Information:.**

Company Name: Parsons

Project Manager: Shane Maxwell

Project Name: Carrington St.

**Shipping Information:**

How were samples received? (UPS) FedEx DHL Other:

Number of coolers: 1

Internal temperature of coolers: 19.1°C

Was ice present? Yes / (No) (Melted)

*Note: if cooler is outside the 0-6° range, META's project manager should be notified.*

**Documentation:**

Was a Chain of Custody present? (Yes) / No

Was it signed? (Yes) / No

Was all project information present on the COC? (Yes) / No

Was a bill of lading or shipping label retained? Yes / (No)

**Sample Information:**

Number of sample containers: 1

Does this match the COC? (Yes) / No

Were all sample containers Intact? (Yes) / No

If no, list samples and problems:

*Note: if samples are damaged, META's project manager should be notified.*

For aqueous 40ml Voas; was headspace present? Yes / No (NA)

**Comments:**

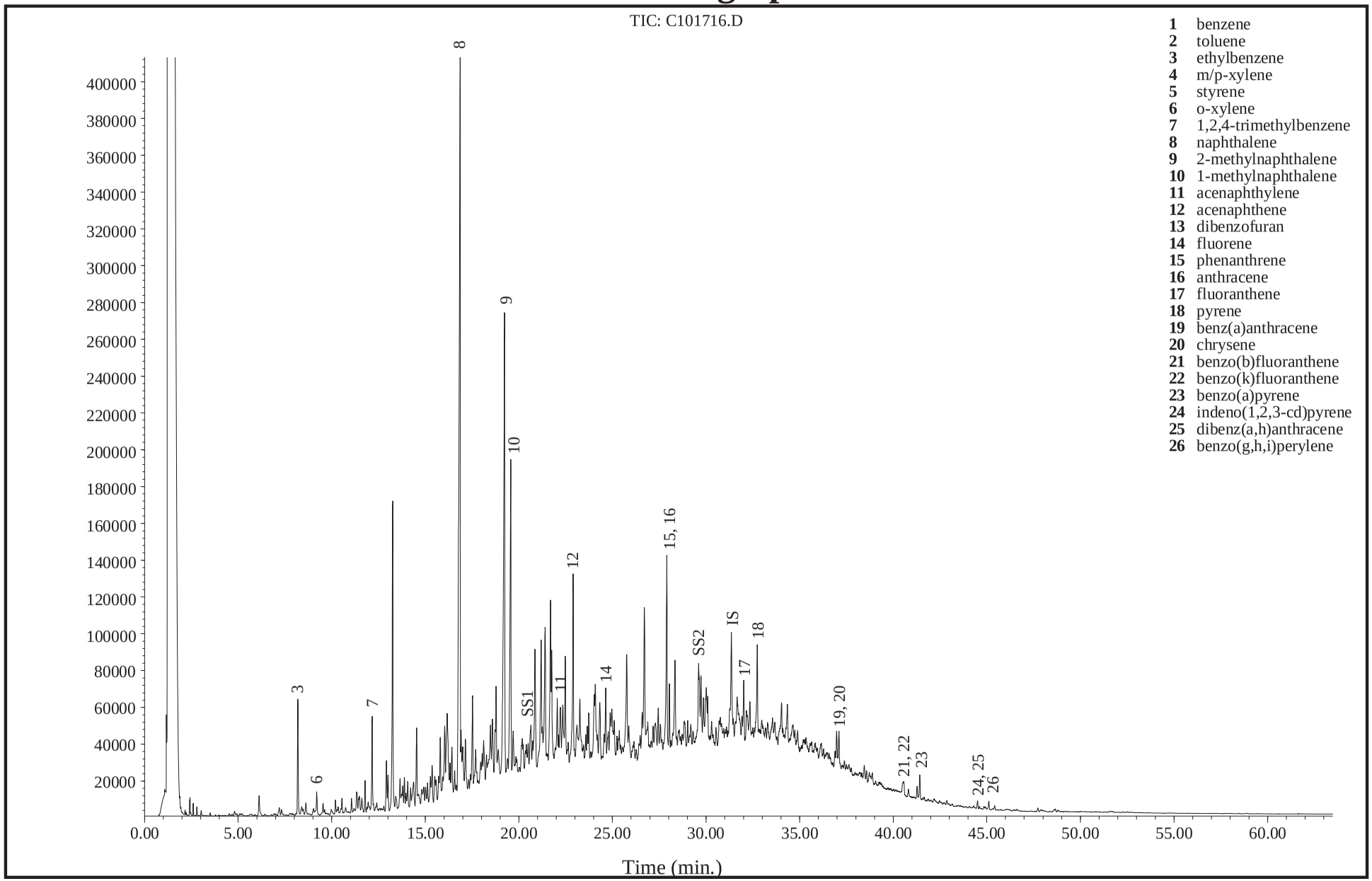
Custodian: GD

Project Manager: [signature]

# Appendix B

# GC/FID Fingerprints

# GC/FID Fingerprint

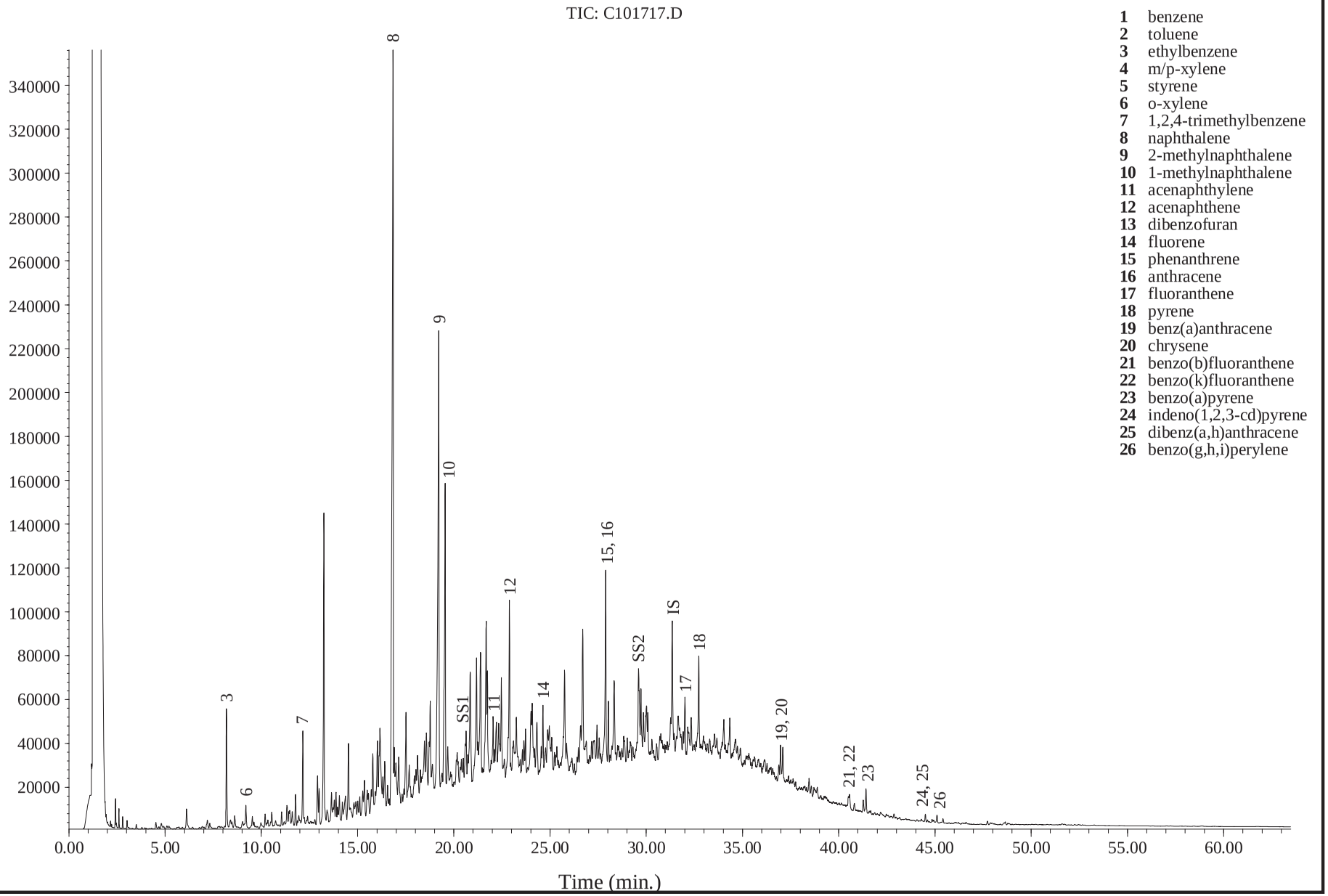



***Extraction Date: 10/14/2011***
***Analysis Date: 10/18/2011***

**Field ID:** **CMW-38 (13-15) NAPL**
Laboratory ID: PA111010-01
Method: EPA 8100M

*IS – 5a-androstane*
*SS1 – 2-fluorobiphenyl*
*SS2 – o-terphenyl*

# GC/FID Fingerprint

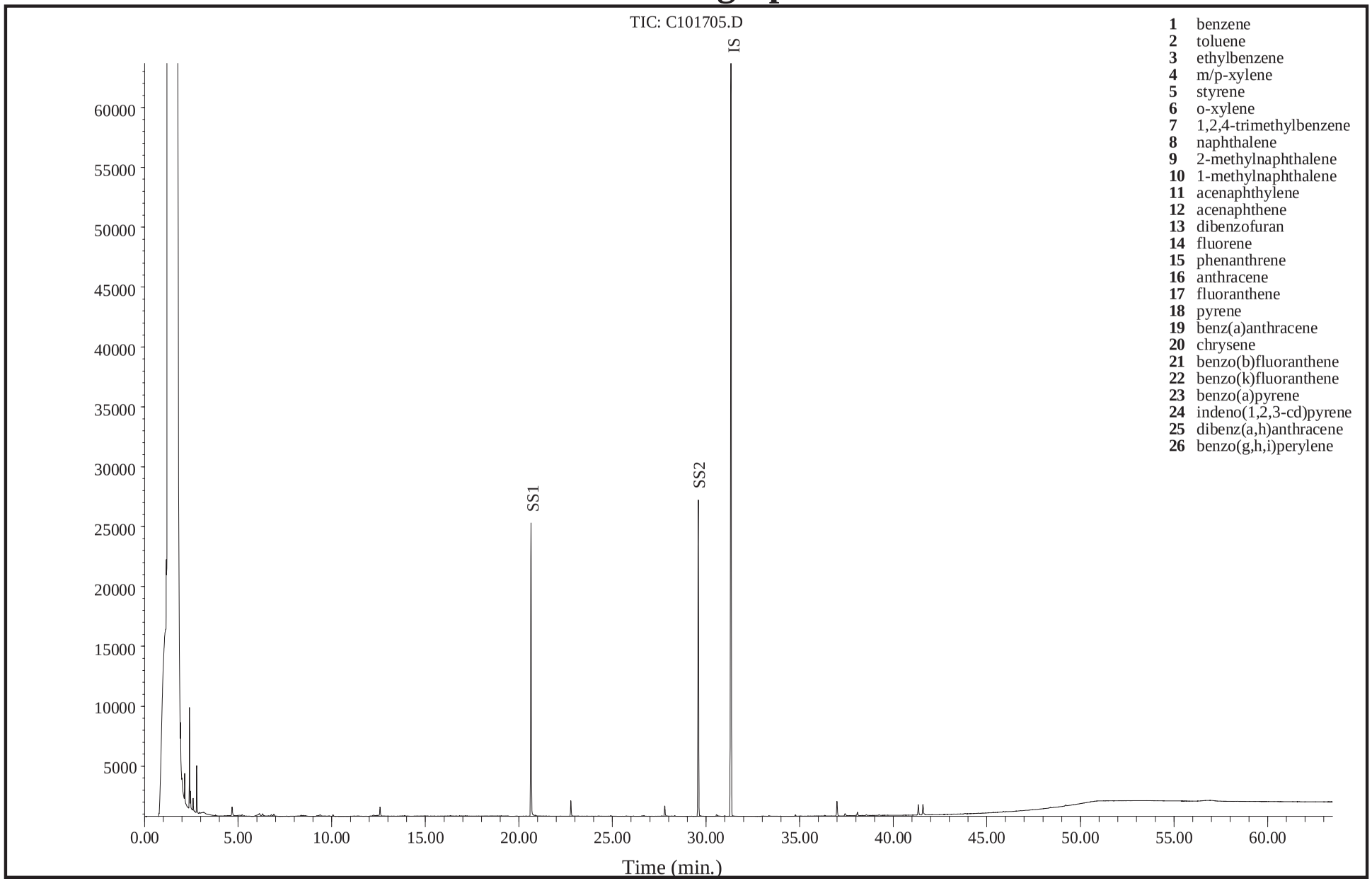



***Extraction Date: 10/14/2011***
***Analysis Date: 10/18/2011***

**Field ID:** **CMW-38 (13-15) NAPL**
Laboratory ID: PA111010-01DUP
Method: EPA 8100M

*IS – 5a-androstane*
*SS1 – 2-fluorobiphenyl*
*SS2 – o-terphenyl*

# GC/FID Fingerprint




***Extraction Date: 10/14/2011***
***Analysis Date: 10/17/2011***

*IS – 5a-androstane*
*SS1 – 2-fluorobiphenyl*
*SS2 – o-terphenyl*

**Field ID:** **Soil Blank**
Laboratory ID: QC111014-SB
Method: EPA 8100M

# Appendix C

# MAH/PAH Concentrations

# Analytical Results for Volatile and Semivolatile Organics
## META Environmental, Inc.

## Field ID: CMW-38 (13-15) NAPL

| | | | |
|---|---|---|---|
| Client: | Parsons | Preparation Method: | EPA 3570 |
| Project: | Farrington St. | Cleanup Method(s): | NA |
| | | Analysis Method: | EPA 8270M |
| Lab ID | PA111010-01 | | |
| File ID: | G102414.D | Matrix: | Soil |
| | | Preservation: | None |
| Date Sampled: | 9/27/2011 | Decanted: | None |
| Date Received: | 10/10/2011 | | |
| Date Prepared: | 10/14/2011 | Sample Size (g): | 3.029 |
| Date Cleanup: | NA | Percent Solid: | 80.6% |
| Date Analyzed: | 10/25/2011 | Extract Volume (µl): | 2000 |
| Instrument: | GTO | Prep DF: | 1 |
| Operator: | CAM | Analysis DF: | 1 |
| | | Injection Volume (µl): | 1.00 |
| Batch QC: | QC111014-SB | | |

| Analyte | Concentration (mg/kg dry wt.) | | RL | EDL | Comments |
|---|---|---|---|---|---|
| MAH & PAH COMPOUNDS: | | | | | |
| Benzene | 2.06 | B | 0.004 | 0.002 | |
| Toluene | 0.081 | B | 0.004 | 0.002 | |
| Ethylbenzene | 36.2 | DB | 0.004 | 0.002 | |
| m/p-Xylenes | 1.36 | B | 0.004 | 0.002 | |
| Styrene | 2.37 | B | 0.004 | 0.002 | |
| o-Xylene | 6.26 | B | 0.004 | 0.002 | |
| Isopropylbenzene | 4.63 | | 0.004 | 0.002 | |
| n-Propylbenzene | 2.03 | | 0.004 | 0.002 | |
| 1,3,5-Trimethylbenzene | 4.21 | | 0.004 | 0.002 | |
| 1,2,4-Trimethylbenzene | 29.6 | D | 0.004 | 0.002 | |
| t-Butylbenzene | 3.93 | | 0.004 | 0.002 | |
| sec-Butylbenzene | 0.433 | | 0.004 | 0.002 | |
| p-Isopropyltoluene | 4.22 | | 0.004 | 0.002 | |
| n-Butylbenzene | 2.91 | | 0.004 | 0.002 | |
| C1 - Benzene | 0.240 | B | 0.004 | 0.002 | |
| C2 - Benzene | 20.0 | B | 0.004 | 0.002 | |
| C3 - Benzene | 35.4 | | 0.004 | 0.002 | |
| C4 - Benzene | 43.3 | | 0.004 | 0.002 | |
| C5 - Benzene | 26.0 | | 0.004 | 0.002 | |
| trans-Decalin | 3.47 | | 0.004 | 0.002 | |
| cis-Decalin | 0.616 | | 0.004 | 0.002 | |
| Naphthalene | 361 | D | 0.004 | 0.002 | |
| 2-Methylnaphthalene | 206 | D | 0.004 | 0.002 | |
| 1-Methylnaphthalene | 122 | D | 0.004 | 0.002 | |
| C1 - Naphthalene | 209 | D | 0.004 | 0.002 | |
| C2 - Naphthalene | 124 | D | 0.004 | 0.002 | |
| C3 - Naphthalene | 51.1 | | 0.004 | 0.002 | |
| C4 - Naphthalene | 25.3 | | 0.004 | 0.002 | |
| Acenaphthylene | 9.17 | | 0.004 | 0.002 | |
| Acenaphthene | 61.4 | D | 0.004 | 0.002 | |
| Dibenzofuran | 3.3 | | 0.004 | 0.002 | |
| Fluorene | 25.7 | D | 0.004 | 0.002 | |
| C1 - Fluorene | 18.8 | | 0.004 | 0.002 | |
| C2 - Fluorene | 23.6 | | 0.004 | 0.002 | |
| C3 - Fluorene | 16.6 | | 0.004 | 0.002 | |
| Phenanthrene | 74.3 | D | 0.004 | 0.002 | |
| Anthracene | 26.5 | D | 0.004 | 0.002 | |

# Analytical Results for Volatile and Semivolatile Organics
META Environmental, Inc.

## Field ID: CMW-38 (13-15) NAPL

| | | | |
|---|---|---|---|
| Client: | Parsons | Preparation Method: | EPA 3570 |
| Project: | Farrington St. | Cleanup Method(s): | NA |
| | | Analysis Method: | EPA 8270M |
| Lab ID | PA111010-01 | | |
| File ID: | G102414.D | Matrix: | Soil |
| | | Preservation: | None |
| Date Sampled: | 9/27/2011 | Decanted: | None |
| Date Received: | 10/10/2011 | | |
| Date Prepared: | 10/14/2011 | Sample Size (g): | 3.029 |
| Date Cleanup: | NA | Percent Solid: | 80.6% |
| Date Analyzed: | 10/25/2011 | Extract Volume (µl): | 2000 |
| Instrument: | GTO | Prep DF: | 1 |
| Operator: | CAM | Analysis DF: | 1 |
| | | Injection Volume (µl): | 1.00 |
| Batch QC: | QC111014-SB | | |

| Analyte | Concentration (mg/kg dry wt.) | | RL | EDL | Comments |
|---|---|---|---|---|---|
| C1 - Phenanthrene/Anthracene | 70.6 | | 0.004 | 0.002 | |
| C2 - Phenanthrene/Anthracene | 44.4 | | 0.004 | 0.002 | |
| C3 - Phenanthrene/Anthracene | 21.0 | | 0.004 | 0.002 | |
| C4 - Phenanthrene/Anthracene | 8.82 | | 0.004 | 0.002 | |
| Dibenzothiophene | 8.16 | | 0.004 | 0.002 | |
| C1 - Dibenzothiophene | 14.4 | | 0.004 | 0.002 | |
| C2 - Dibenzothiophene | 14.9 | | 0.004 | 0.002 | |
| C3 - Dibenzothiophene | 9.45 | | 0.004 | 0.002 | |
| C4 - Dibenzothiophene | 4.06 | | 0.004 | 0.002 | |
| Benzo(b)naphtho(2,1-d)thiophene | 2.51 | | 0.004 | 0.002 | |
| Fluoranthene | 20.8 | D | 0.004 | 0.002 | |
| Pyrene | 32.4 | D | 0.004 | 0.002 | |
| C1 - Fluoranthene/Pyrene | 35.8 | | 0.004 | 0.002 | |
| C2 - Fluoranthene/Pyrene | 14.8 | | 0.004 | 0.002 | |
| C3 - Fluoranthene/Pyrene | 6.51 | | 0.004 | 0.002 | |
| Benz(a)anthracene | 14.5 | | 0.004 | 0.002 | |
| Chrysene* | 13.0 | | 0.004 | 0.002 | |
| C1 - Benz(a)anthracene/Chrysene | 11.5 | | 0.004 | 0.002 | |
| C2 - Benz(a)anthracene/Chrysene | 5.38 | | 0.004 | 0.002 | |
| C3 - Benz(a)anthracene/Chrysene | 2.33 | | 0.004 | 0.002 | |
| C4 - Benz(a)anthracene/Chrysene | 1.11 | | 0.004 | 0.002 | |
| Benzo(b)fluoranthene | 3.65 | | 0.004 | 0.002 | |
| Benzo(j/k)fluoranthene | 5.11 | | 0.004 | 0.002 | |
| Benzo(e)pyrene | 4.36 | | 0.004 | 0.002 | |
| Benzo(a)pyrene | 7.66 | | 0.004 | 0.002 | |
| Perylene | 1.25 | | 0.004 | 0.002 | |
| Indeno(1,2,3-cd)pyrene | 2.35 | | 0.004 | 0.002 | |
| Dibenz(a,h)anthracene | 0.891 | | 0.004 | 0.002 | |
| Benzo(g,h,i)perylene | 2.72 | | 0.004 | 0.002 | |
| Coronene | 0.691 | | 0.004 | 0.002 | |
| Retene | 1.36 | | 0.004 | 0.002 | |
| Benzo(b/c)fluorenes | 4.83 | | 0.004 | 0.002 | |
| 2-Methylpyrene | 5.36 | | 0.004 | 0.002 | |
| 4-Methylpyrene | 4.47 | | 0.004 | 0.002 | |
| 1-Methylpyrene | 5.05 | | 0.004 | 0.002 | |
| Heptadecane | | BU | 0.004 | 0.002 | |
| Pristane | 54.2 | DB | 0.004 | 0.002 | |
| Octadecane | | BU | 0.004 | 0.002 | |
| Phytane | 38.1 | DB | 0.004 | 0.002 | |

# Analytical Results for Volatile and Semivolatile Organics
## META Environmental, Inc.

## Field ID: CMW-38 (13-15) NAPL

| | | | |
|---|---|---|---|
| Client: | Parsons | Preparation Method: | EPA 3570 |
| Project: | Farrington St. | Cleanup Method(s): | NA |
| | | Analysis Method: | EPA 8270M |
| Lab ID | PA111010-01 | | |
| File ID: | G102414.D | Matrix: | Soil |
| | | Preservation: | None |
| Date Sampled: | 9/27/2011 | Decanted: | None |
| Date Received: | 10/10/2011 | | |
| Date Prepared: | 10/14/2011 | Sample Size (g): | 3.029 |
| Date Cleanup: | NA | Percent Solid: | 80.6% |
| Date Analyzed: | 10/25/2011 | Extract Volume (µl): | 2000 |
| Instrument: | GTO | Prep DF: | 1 |
| Operator: | CAM | Analysis DF: | 1 |
| | | Injection Volume (µl): | 1.00 |
| Batch QC: | QC111014-SB | | |

| Analyte | Concentration (mg/kg dry wt.) | | RL | EDL | Comments |
|---|---|---|---|---|---|
| 2,6,10-trimethyldodecane | 34.1 | D | 0.004 | 0.002 | |
| 2,6,10-trimethyltridecane | 33.0 | D | 0.004 | 0.002 | |
| Norpristane | 32.0 | DB | 0.004 | 0.002 | |
| Total PAH (16) | 59.0 | | 0.004 | 0.002 | |
| Total PAH (42) | 1,050 | | 0.004 | 0.002 | |

| *Extraction Surrogate Recoveries (%)* | | Limits |
|---|---|---|
| Toluene-d8 | 58 | 50 - 120 |
| Phenanthrene-d10 | 72 | 50 - 120 |
| Benzo(a)pyrene-d12 | 69 | 50 - 120 |
| Perylene-d12 | 79 | 50 - 120 |

NA - Not applicable.
B - Analyte detected in the Blank.
J - Estimated value; detected between the RL and EDL.
U - Analyte not detected above EDL.
D - Analyte reported from a diluted extract.
E - Estimate, result detected above calibration range.
I - Concentration/Peak ID uncertain due to potential interference.
RL - Reporting limit is the sample equivalent of the lowest linear calibration concentration.
EDL - Estimated detection limit is 50% of RL.
* - Triphenylene is known to coelute with this compound.

# Analytical Results for Volatile and Semivolatile Organics
## META Environmental, Inc.

## Field ID: Soil Blank

| | | | |
|---|---|---|---|
| Client: | Parsons | Preparation Method: | EPA 3570 |
| Project: | Farrington St. | Cleanup Method(s): | NA |
| | | Analysis Method: | EPA 8270M |
| Lab ID | QC111014-SB | | |
| File ID: | G102412.D | Matrix: | Soil |
| | | Preservation: | None |
| Date Sampled: | NA | Decanted: | None |
| Date Received: | NA | | |
| Date Prepared: | 10/14/2011 | Sample Size (g): | 4.00 |
| Date Cleanup: | NA | Percent Solid: | 100.0% |
| Date Analyzed: | 10/25/2011 | Extract Volume (µl): | 2000 |
| Instrument: | GTO | Prep DF: | 1 |
| Operator: | CAM | Analysis DF: | 1 |
| | | Injection Volume (µl): | 1.00 |
| Batch QC: | QC111014-SB | | |

| Analyte | Concentration (mg/kg dry wt.) | RL | EDL | Comments |
|---|---|---|---|---|
| MAH & PAH COMPOUNDS: | | | | |
| Benzene | 0.023 | 0.003 | 0.001 | |
| Toluene | 0.004 | 0.003 | 0.001 | |
| Ethylbenzene | 0.006 | 0.003 | 0.001 | |
| m/p-Xylenes | 0.030 | 0.003 | 0.001 | |
| Styrene | 0.005 | 0.003 | 0.001 | |
| o-Xylene | 0.016 | 0.003 | 0.001 | |
| Isopropylbenzene | U | 0.003 | 0.001 | |
| n-Propylbenzene | U | 0.003 | 0.001 | |
| 1,3,5-Trimethylbenzene | U | 0.003 | 0.001 | |
| 1,2,4-Trimethylbenzene | U | 0.003 | 0.001 | |
| t-Butylbenzene | U | 0.003 | 0.001 | |
| sec-Butylbenzene | U | 0.003 | 0.001 | |
| p-Isopropyltoluene | U | 0.003 | 0.001 | |
| n-Butylbenzene | U | 0.003 | 0.001 | |
| C1 - Benzene | 0.005 | 0.003 | 0.001 | |
| C2 - Benzene | 0.030 | 0.003 | 0.001 | |
| C3 - Benzene | U | 0.003 | 0.001 | |
| C4 - Benzene | U | 0.003 | 0.001 | |
| C5 - Benzene | U | 0.003 | 0.001 | |
| trans-Decalin | U | 0.003 | 0.001 | |
| cis-Decalin | U | 0.003 | 0.001 | |
| Naphthalene | U | 0.003 | 0.001 | |
| 2-Methylnaphthalene | U | 0.003 | 0.001 | |
| 1-Methylnaphthalene | U | 0.003 | 0.001 | |
| C1 - Naphthalene | U | 0.003 | 0.001 | |
| C2 - Naphthalene | U | 0.003 | 0.001 | |
| C3 - Naphthalene | U | 0.003 | 0.001 | |
| C4 - Naphthalene | U | 0.003 | 0.001 | |
| Acenaphthylene | U | 0.003 | 0.001 | |
| Acenaphthene | U | 0.003 | 0.001 | |
| Dibenzofuran | U | 0.003 | 0.001 | |
| Fluorene | U | 0.003 | 0.001 | |
| C1 - Fluorene | U | 0.003 | 0.001 | |
| C2 - Fluorene | U | 0.003 | 0.001 | |
| C3 - Fluorene | U | 0.003 | 0.001 | |
| Phenanthrene | U | 0.003 | 0.001 | |
| Anthracene | U | 0.003 | 0.001 | |

# Analytical Results for Volatile and Semivolatile Organics
## META Environmental, Inc.

**Field ID: Soil Blank**

| | | | |
|---|---|---|---|
| Client: | Parsons | Preparation Method: | EPA 3570 |
| Project: | Farrington St. | Cleanup Method(s): | NA |
| | | Analysis Method: | EPA 8270M |
| Lab ID | QC111014-SB | | |
| File ID: | G102412.D | Matrix: | Soil |
| | | Preservation: | None |
| Date Sampled: | NA | Decanted: | None |
| Date Received: | NA | | |
| Date Prepared: | 10/14/2011 | Sample Size (g): | 4.00 |
| Date Cleanup: | NA | Percent Solid: | 100.0% |
| Date Analyzed: | 10/25/2011 | Extract Volume (µl): | 2000 |
| Instrument: | GTO | Prep DF: | 1 |
| Operator: | CAM | Analysis DF: | 1 |
| | | Injection Volume (µl): | 1.00 |
| Batch QC: | QC111014-SB | | |

| Analyte | Concentration (mg/kg dry wt.) | RL | EDL | Comments |
|---|---|---|---|---|
| C1 - Phenanthrene/Anthracene | U | 0.003 | 0.001 | |
| C2 - Phenanthrene/Anthracene | U | 0.003 | 0.001 | |
| C3 - Phenanthrene/Anthracene | U | 0.003 | 0.001 | |
| C4 - Phenanthrene/Anthracene | U | 0.003 | 0.001 | |
| Dibenzothiophene | U | 0.003 | 0.001 | |
| C1 - Dibenzothiophene | U | 0.003 | 0.001 | |
| C2 - Dibenzothiophene | U | 0.003 | 0.001 | |
| C3 - Dibenzothiophene | U | 0.003 | 0.001 | |
| C4 - Dibenzothiophene | U | 0.003 | 0.001 | |
| Benzo(b)naphtho(2,1-d)thiophene | U | 0.003 | 0.001 | |
| Fluoranthene | U | 0.003 | 0.001 | |
| Pyrene | U | 0.003 | 0.001 | |
| C1 - Fluoranthene/Pyrene | U | 0.003 | 0.001 | |
| C2 - Fluoranthene/Pyrene | U | 0.003 | 0.001 | |
| C3 - Fluoranthene/Pyrene | U | 0.003 | 0.001 | |
| Benz(a)anthracene | U | 0.003 | 0.001 | |
| Chrysene* | U | 0.003 | 0.001 | |
| C1 - Benz(a)anthracene/Chrysene | U | 0.003 | 0.001 | |
| C2 - Benz(a)anthracene/Chrysene | U | 0.003 | 0.001 | |
| C3 - Benz(a)anthracene/Chrysene | U | 0.003 | 0.001 | |
| C4 - Benz(a)anthracene/Chrysene | U | 0.003 | 0.001 | |
| Benzo(b)fluoranthene | U | 0.003 | 0.001 | |
| Benzo(j/k)fluoranthene | U | 0.003 | 0.001 | |
| Benzo(e)pyrene | U | 0.003 | 0.001 | |
| Benzo(a)pyrene | U | 0.003 | 0.001 | |
| Perylene | U | 0.003 | 0.001 | |
| Indeno(1,2,3-cd)pyrene | U | 0.003 | 0.001 | |
| Dibenz(a,h)anthracene | U | 0.003 | 0.001 | |
| Benzo(g,h,i)perylene | U | 0.003 | 0.001 | |
| Coronene | U | 0.003 | 0.001 | |
| Retene | U | 0.003 | 0.001 | |
| Benzo(b/c)fluorenes | U | 0.003 | 0.001 | |
| 2-Methylpyrene | U | 0.003 | 0.001 | |
| 4-Methylpyrene | U | 0.003 | 0.001 | |
| 1-Methylpyrene | U | 0.003 | 0.001 | |
| Heptadecane | 0.024 | 0.003 | 0.001 | |
| Pristane | 0.031 | 0.003 | 0.001 | |
| Octadecane | 0.019 | 0.003 | 0.001 | |
| Phytane | 0.028 | 0.003 | 0.001 | |

# Analytical Results for Volatile and Semivolatile Organics
## META Environmental, Inc.

## Field ID: Soil Blank

| | | | |
|---|---|---|---|
| Client: | Parsons | Preparation Method: | EPA 3570 |
| Project: | Farrington St. | Cleanup Method(s): | NA |
| | | Analysis Method: | EPA 8270M |
| Lab ID | QC111014-SB | | |
| File ID: | G102412.D | Matrix: | Soil |
| | | Preservation: | None |
| Date Sampled: | NA | Decanted: | None |
| Date Received: | NA | | |
| Date Prepared: | 10/14/2011 | Sample Size (g): | 4.00 |
| Date Cleanup: | NA | Percent Solid: | 100.0% |
| Date Analyzed: | 10/25/2011 | Extract Volume (µl): | 2000 |
| Instrument: | GTO | Prep DF: | 1 |
| Operator: | CAM | Analysis DF: | 1 |
| | | Injection Volume (µl): | 1.00 |
| Batch QC: | QC111014-SB | | |

| Analyte | Concentration (mg/kg dry wt.) | | RL | EDL | Comments |
|---|---|---|---|---|---|
| 2,6,10-trimethyldodecane | | U | 0.003 | 0.001 | |
| 2,6,10-trimethyltridecane | | U | 0.003 | 0.001 | |
| Norpristane | 0.014 | | 0.003 | 0.001 | |
| Total PAH (16) | | U | 0.003 | 0.001 | |
| Total PAH (42) | | U | 0.003 | 0.001 | |

| *Extraction Surrogate Recoveries (%)* | | Limits |
|---|---|---|
| Toluene-d8 | 69 | 50 - 120 |
| Phenanthrene-d10 | 80 | 50 - 120 |
| Benzo(a)pyrene-d12 | 58 | 50 - 120 |
| Perylene-d12 | 64 | 50 - 120 |

NA - Not applicable.
B - Analyte detected in the Blank.
J - Estimated value; detected between the RL and EDL.
U - Analyte not detected above EDL.
D - Analyte reported from a diluted extract.
E - Estimate, result detected above calibration range.
I - Concentration/Peak ID uncertain due to potential interference.
RL - Reporting limit is the sample equivalent of the lowest linear calibration concentration.
EDL - Estimated detection limit is 50% of RL.
* - Triphenylene is known to coelute with this compound.

# Analytical Results for Volatile and Semivolatile Organics
# META Environmental, Inc.

## Field ID: Soil Blank Spike

| | | | |
|---|---|---|---|
| Client: | Parsons | Preparation Method: | EPA 3570 |
| Project: | Farrington St. | Cleanup Method(s): | NA |
| | | Analysis Method: | EPA 8270M |
| Lab ID | QC111014-SBS | | |
| File ID: | G102417D.D | Matrix: | Soil |
| | | Preservation: | None |
| Date Sampled: | NA | Decanted: | None |
| Date Received: | NA | | |
| Date Prepared: | 10/14/2011 | Sample Size (g): | 4.00 |
| Date Cleanup: | NA | Percent Solid: | 100.0% |
| Date Analyzed: | 10/25/2011 | Extract Volume (µl): | 2000 |
| Instrument: | GTO | Prep DF: | 1 |
| Operator: | CAM | Analysis DF: | 1 |
| | | Injection Volume (µl): | 1.00 |
| Batch QC: | QC111014-SB | | |

| Analyte | Concentration (mg/kg dry wt.) | | RL | EDL | Comments |
|---|---|---|---|---|---|
| MAH & PAH COMPOUNDS: | Spike Amount | | | | % Recovery |
| Benzene | 2.5 | 1.52 B | 0.003 | 0.001 | 61 |
| Toluene | 2.5 | 1.93 B | 0.003 | 0.001 | 77 |
| Ethylbenzene | 2.5 | 1.93 B | 0.003 | 0.001 | 77 |
| m/p-Xylenes | 2.5 | 1.93 B | 0.003 | 0.001 | 77 |
| Styrene | 2.5 | 2.01 B | 0.003 | 0.001 | 80 |
| o-Xylene | 2.5 | 1.9 B | 0.003 | 0.001 | 76 |
| Isopropylbenzene | 2.5 | 1.97 | 0.003 | 0.001 | 79 |
| n-Propylbenzene | 2.5 | 1.95 | 0.003 | 0.001 | 78 |
| 1,3,5-Trimethylbenzene | 2.5 | 1.98 | 0.003 | 0.001 | 79 |
| 1,2,4-Trimethylbenzene | 2.5 | 1.94 | 0.003 | 0.001 | 78 |
| t-Butylbenzene | | U | 0.003 | 0.001 | |
| sec-Butylbenzene | 2.5 | 2.02 | 0.003 | 0.001 | 81 |
| p-Isopropyltoluene | 2.5 | 2.11 | 0.003 | 0.001 | 84 |
| n-Butylbenzene | 2.5 | 2.08 | 0.003 | 0.001 | 83 |
| C1 - Benzene | | BU | 0.003 | 0.001 | |
| C2 - Benzene | | BU | 0.003 | 0.001 | |
| C3 - Benzene | | U | 0.003 | 0.001 | |
| C4 - Benzene | | U | 0.003 | 0.001 | |
| C5 - Benzene | | U | 0.003 | 0.001 | |
| trans-Decalin | | U | 0.003 | 0.001 | |
| cis-Decalin | | U | 0.003 | 0.001 | |
| Naphthalene | 2.5 | 2.06 | 0.003 | 0.001 | 82 |
| 2-Methylnaphthalene | 2.5 | 2.07 | 0.003 | 0.001 | 83 |
| 1-Methylnaphthalene | 2.5 | 2.06 | 0.003 | 0.001 | 82 |
| C1 - Naphthalene | | U | 0.003 | 0.001 | |
| C2 - Naphthalene | | U | 0.003 | 0.001 | |
| C3 - Naphthalene | | U | 0.003 | 0.001 | |
| C4 - Naphthalene | | U | 0.003 | 0.001 | |
| Acenaphthylene | 2.5 | 2.33 | 0.003 | 0.001 | 93 |
| Acenaphthene | 2.5 | 2.16 | 0.003 | 0.001 | 86 |
| Dibenzofuran | 2.5 | 2.21 | 0.003 | 0.001 | 88 |
| Fluorene | 2.5 | 2.23 | 0.003 | 0.001 | 89 |
| C1 - Fluorene | | U | 0.003 | 0.001 | |
| C2 - Fluorene | | U | 0.003 | 0.001 | |
| C3 - Fluorene | | U | 0.003 | 0.001 | |
| Phenanthrene | 2.5 | 2.21 | 0.003 | 0.001 | 88 |
| Anthracene | 2.5 | 2.14 | 0.003 | 0.001 | 86 |

# Analytical Results for Volatile and Semivolatile Organics
# META Environmental, Inc.

## Field ID: Soil Blank Spike

| | | | |
|---|---|---|---|
| Client: | Parsons | Preparation Method: | EPA 3570 |
| Project: | Farrington St. | Cleanup Method(s): | NA |
| | | Analysis Method: | EPA 8270M |
| Lab ID | QC111014-SBS | | |
| File ID: | G102417D.D | Matrix: | Soil |
| | | Preservation: | None |
| Date Sampled: | NA | Decanted: | None |
| Date Received: | NA | | |
| Date Prepared: | 10/14/2011 | Sample Size (g): | 4.00 |
| Date Cleanup: | NA | Percent Solid: | 100.0% |
| Date Analyzed: | 10/25/2011 | Extract Volume (µl): | 2000 |
| Instrument: | GTO | Prep DF: | 1 |
| Operator: | CAM | Analysis DF: | 1 |
| | | Injection Volume (µl): | 1.00 |
| Batch QC: | QC111014-SB | | |

| Analyte | Concentration (mg/kg dry wt.) | | RL | EDL | Comments |
|---|---|---|---|---|---|
| C1 - Phenanthrene/Anthracene | | U | 0.003 | 0.001 | |
| C2 - Phenanthrene/Anthracene | | U | 0.003 | 0.001 | |
| C3 - Phenanthrene/Anthracene | | U | 0.003 | 0.001 | |
| C4 - Phenanthrene/Anthracene | | U | 0.003 | 0.001 | |
| Dibenzothiophene | 2.5 | 2.34 | 0.003 | 0.001 | 94 |
| C1 - Dibenzothiophene | | U | 0.003 | 0.001 | |
| C2 - Dibenzothiophene | | U | 0.003 | 0.001 | |
| C3 - Dibenzothiophene | | U | 0.003 | 0.001 | |
| C4 - Dibenzothiophene | | U | 0.003 | 0.001 | |
| Benzo(b)naphtho(2,1-d)thiophene | | U | 0.003 | 0.001 | |
| Fluoranthene | 2.5 | 2.37 | 0.003 | 0.001 | 95 |
| Pyrene | 2.5 | 2.4 | 0.003 | 0.001 | 96 |
| C1 - Fluoranthene/Pyrene | | U | 0.003 | 0.001 | |
| C2 - Fluoranthene/Pyrene | | U | 0.003 | 0.001 | |
| C3 - Fluoranthene/Pyrene | | U | 0.003 | 0.001 | |
| Benz(a)anthracene | 2.5 | 2.51 | 0.003 | 0.001 | 100 |
| Chrysene* | 2.5 | 2.43 | 0.003 | 0.001 | 97 |
| C1 - Benz(a)anthracene/Chrysene | | U | 0.003 | 0.001 | |
| C2 - Benz(a)anthracene/Chrysene | | U | 0.003 | 0.001 | |
| C3 - Benz(a)anthracene/Chrysene | | U | 0.003 | 0.001 | |
| C4 - Benz(a)anthracene/Chrysene | | U | 0.003 | 0.001 | |
| Benzo(b)fluoranthene | 2.5 | 2.54 | 0.003 | 0.001 | 102 |
| Benzo(j/k)fluoranthene | 2.5 | 2.54 | 0.003 | 0.001 | 102 |
| Benzo(e)pyrene | 2.5 | 2.6 | 0.003 | 0.001 | 104 |
| Benzo(a)pyrene | 2.5 | 2.04 | 0.003 | 0.001 | 82 |
| Perylene | | U | 0.003 | 0.001 | |
| Indeno(1,2,3-cd)pyrene | 2.5 | 1.76 | 0.003 | 0.001 | 70 |
| Dibenz(a,h)anthracene | 2.5 | 1.83 | 0.003 | 0.001 | 73 |
| Benzo(g,h,i)perylene | 2.5 | 2.11 | 0.003 | 0.001 | 84 |
| Coronene | | U | 0.003 | 0.001 | |
| | | | | | |
| Retene | | U | 0.003 | 0.001 | |
| Benzo(b/c)fluorenes | | U | 0.003 | 0.001 | |
| 2-Methylpyrene | | U | 0.003 | 0.001 | |
| 4-Methylpyrene | | U | 0.003 | 0.001 | |
| 1-Methylpyrene | | U | 0.003 | 0.001 | |
| Heptadecane | | BU | 0.003 | 0.001 | |
| Pristane | | BU | 0.003 | 0.001 | |
| Octadecane | | BU | 0.003 | 0.001 | |
| Phytane | | BU | 0.003 | 0.001 | |

# Analytical Results for Volatile and Semivolatile Organics
# META Environmental, Inc.

## Field ID: Soil Blank Spike

| | | | |
|---|---|---|---|
| Client: | Parsons | Preparation Method: | EPA 3570 |
| Project: | Farrington St. | Cleanup Method(s): | NA |
| | | Analysis Method: | EPA 8270M |
| Lab ID | QC111014-SBS | | |
| File ID: | G102417D.D | Matrix: | Soil |
| | | Preservation: | None |
| Date Sampled: | NA | Decanted: | None |
| Date Received: | NA | | |
| Date Prepared: | 10/14/2011 | Sample Size (g): | 4.00 |
| Date Cleanup: | NA | Percent Solid: | 100.0% |
| Date Analyzed: | 10/25/2011 | Extract Volume (µl): | 2000 |
| Instrument: | GTO | Prep DF: | 1 |
| Operator: | CAM | Analysis DF: | 1 |
| | | Injection Volume (µl): | 1.00 |
| Batch QC: | QC111014-SB | | |

| Analyte | Concentration (mg/kg dry wt.) | | RL | EDL | Comments |
|---|---|---|---|---|---|
| 2,6,10-trimethyldodecane | | U | 0.003 | 0.001 | |
| 2,6,10-trimethyltridecane | | U | 0.003 | 0.001 | |
| Norpristane | | BU | 0.003 | 0.001 | |

| *Extraction Surrogate Recoveries (%)* | | Limits |
|---|---|---|
| Toluene-d8 | 74 | 50 - 120 |
| Phenanthrene-d10 | 92 | 50 - 120 |
| Benzo(a)pyrene-d12 | 76 | 50 - 120 |
| Perylene-d12 | 82 | 50 - 120 |

NA - Not applicable.
B - Analyte detected in the Blank.
J - Estimated value; detected between the RL and EDL.
U - Analyte not detected above EDL.
D - Analyte reported from a diluted extract.
E - Estimate, result detected above calibration range.
I - Concentration/Peak ID uncertain due to potential interference.
RL - Reporting limit is the sample equivalent of the lowest linear calibration concentration.
EDL - Estimated detection limit is 50% of RL.
* - Triphenylene is known to coelute with this compound.

# Analytical Results for Volatile and Semivolatile Organics
## META Environmental, Inc.

## Field ID: Duplicate of CMW-38 (13-15) NAPL

| | | | |
|---|---|---|---|
| Client: | Parsons | Preparation Method: | EPA 3570 |
| Project: | Farrington St. | Cleanup Method(s): | NA |
| | | Analysis Method: | EPA 8270M |
| Lab ID | PA111010-01DUP | | |
| File ID: | G102417E.D | Matrix: | Soil |
| | | Preservation: | None |
| Date Sampled: | 9/27/2011 | Decanted: | None |
| Date Received: | 10/10/2011 | | |
| Date Prepared: | 10/14/2011 | Sample Size (g): | 2.899 |
| Date Cleanup: | NA | Percent Solid: | 80.6% |
| Date Analyzed: | 10/25/2011 | Extract Volume (µl): | 2000 |
| Instrument: | GTO | Prep DF: | 1 |
| Operator: | CAM | Analysis DF: | 1 |
| | | Injection Volume (µl): | 1.00 |
| Batch QC: | QC111014-SB | | |

| Analyte | Concentration (mg/kg dry wt.) | | RL | EDL | Comments |
|---|---|---|---|---|---|
| MAH & PAH COMPOUNDS: | | | | | RPD |
| Benzene | 2.56 | B | 0.004 | 0.002 | 21.6 |
| Toluene | 0.075 | B | 0.004 | 0.002 | 7.7 |
| Ethylbenzene | 33.4 | DB | 0.004 | 0.002 | 8 |
| m/p-Xylenes | 1.1 | B | 0.004 | 0.002 | 21.1 |
| Styrene | 1.92 | B | 0.004 | 0.002 | 21 |
| o-Xylene | 4.83 | B | 0.004 | 0.002 | 25.8 |
| Isopropylbenzene | 3.6 | | 0.004 | 0.002 | 25 |
| n-Propylbenzene | 1.57 | | 0.004 | 0.002 | 25.6 |
| 1,3,5-Trimethylbenzene | 3.16 | | 0.004 | 0.002 | 28.5 |
| 1,2,4-Trimethylbenzene | 25.8 | D | 0.004 | 0.002 | 13.7 |
| t-Butylbenzene | 3.05 | | 0.004 | 0.002 | 25.2 |
| sec-Butylbenzene | 0.341 | | 0.004 | 0.002 | 23.8 |
| p-Isopropyltoluene | 3.24 | | 0.004 | 0.002 | 26.3 |
| n-Butylbenzene | 2.28 | | 0.004 | 0.002 | 24.3 |
| C1 - Benzene | 0.198 | B | 0.004 | 0.002 | 19.2 |
| C2 - Benzene | 16.2 | B | 0.004 | 0.002 | 21 |
| C3 - Benzene | 26.9 | | 0.004 | 0.002 | 27.3 |
| C4 - Benzene | 32.5 | | 0.004 | 0.002 | 28.5 |
| C5 - Benzene | 19.5 | | 0.004 | 0.002 | 28.6 |
| trans-Decalin | 2.66 | | 0.004 | 0.002 | 26.4 |
| cis-Decalin | 0.473 | | 0.004 | 0.002 | 26.3 |
| Naphthalene | 306 | D | 0.004 | 0.002 | 16.5 |
| 2-Methylnaphthalene | 173 | D | 0.004 | 0.002 | 17.4 |
| 1-Methylnaphthalene | 103 | D | 0.004 | 0.002 | 16.9 |
| C1 - Naphthalene | 176 | D | 0.004 | 0.002 | 17.1 |
| C2 - Naphthalene | 101 | D | 0.004 | 0.002 | 20.4 |
| C3 - Naphthalene | 41.5 | | 0.004 | 0.002 | 20.7 |
| C4 - Naphthalene | 19.7 | | 0.004 | 0.002 | 24.9 |
| Acenaphthylene | 7.59 | | 0.004 | 0.002 | 18.9 |
| Acenaphthene | 51.4 | D | 0.004 | 0.002 | 17.7 |
| Dibenzofuran | 2.62 | | 0.004 | 0.002 | 23 |
| Fluorene | 21.4 | D | 0.004 | 0.002 | 18.3 |
| C1 - Fluorene | 14.4 | | 0.004 | 0.002 | 26.5 |
| C2 - Fluorene | 14.1 | | 0.004 | 0.002 | 50.4 |
| C3 - Fluorene | 10.3 | | 0.004 | 0.002 | 46.8 |
| Phenanthrene | 62.1 | D | 0.004 | 0.002 | 17.9 |
| Anthracene | 22.0 | D | 0.004 | 0.002 | 18.6 |

# Analytical Results for Volatile and Semivolatile Organics
# META Environmental, Inc.

## Field ID: Duplicate of CMW-38 (13-15) NAPL

| | | | |
|---|---|---|---|
| Client: | Parsons | Preparation Method: | EPA 3570 |
| Project: | Farrington St. | Cleanup Method(s): | NA |
| | | Analysis Method: | EPA 8270M |
| Lab ID | PA111010-01DUP | | |
| File ID: | G102417E.D | Matrix: | Soil |
| | | Preservation: | None |
| Date Sampled: | 9/27/2011 | Decanted: | None |
| Date Received: | 10/10/2011 | | |
| Date Prepared: | 10/14/2011 | Sample Size (g): | 2.899 |
| Date Cleanup: | NA | Percent Solid: | 80.6% |
| Date Analyzed: | 10/25/2011 | Extract Volume (µl): | 2000 |
| Instrument: | GTO | Prep DF: | 1 |
| Operator: | CAM | Analysis DF: | 1 |
| | | Injection Volume (µl): | 1.00 |
| Batch QC: | QC111014-SB | | |

| Analyte | Concentration (mg/kg dry wt.) | | RL | EDL | Comments |
|---|---|---|---|---|---|
| C1 - Phenanthrene/Anthracene | 44.7 | | 0.004 | 0.002 | 44.9 |
| C2 - Phenanthrene/Anthracene | 29.3 | | 0.004 | 0.002 | 41 |
| C3 - Phenanthrene/Anthracene | 13.9 | | 0.004 | 0.002 | 40.7 |
| C4 - Phenanthrene/Anthracene | 6.38 | | 0.004 | 0.002 | 32.1 |
| Dibenzothiophene | 6.43 | | 0.004 | 0.002 | 23.7 |
| C1 - Dibenzothiophene | 9.04 | | 0.004 | 0.002 | 45.7 |
| C2 - Dibenzothiophene | 9.38 | | 0.004 | 0.002 | 45.5 |
| C3 - Dibenzothiophene | 6.09 | | 0.004 | 0.002 | 43.2 |
| C4 - Dibenzothiophene | 2.6 | | 0.004 | 0.002 | 43.8 |
| Benzo(b)naphtho(2,1-d)thiophene | 1.7 | | 0.004 | 0.002 | 38.5 |
| Fluoranthene | 17.0 | D | 0.004 | 0.002 | 20.1 |
| Pyrene | 27.0 | D | 0.004 | 0.002 | 18.2 |
| C1 - Fluoranthene/Pyrene | 3.33 | | 0.004 | 0.002 | 166 |
| C2 - Fluoranthene/Pyrene | 9.76 | | 0.004 | 0.002 | 41 |
| C3 - Fluoranthene/Pyrene | 4.53 | | 0.004 | 0.002 | 35.9 |
| Benz(a)anthracene | 9.7 | | 0.004 | 0.002 | 39.7 |
| Chrysene* | 8.63 | | 0.004 | 0.002 | 40.4 |
| C1 - Benz(a)anthracene/Chrysene | 7.94 | | 0.004 | 0.002 | 36.6 |
| C2 - Benz(a)anthracene/Chrysene | 3.65 | | 0.004 | 0.002 | 38.3 |
| C3 - Benz(a)anthracene/Chrysene | 1.69 | | 0.004 | 0.002 | 31.8 |
| C4 - Benz(a)anthracene/Chrysene | 0.726 | | 0.004 | 0.002 | 41.8 |
| Benzo(b)fluoranthene | 2.51 | | 0.004 | 0.002 | 37 |
| Benzo(j/k)fluoranthene | 3.47 | | 0.004 | 0.002 | 38.2 |
| Benzo(e)pyrene | 2.98 | | 0.004 | 0.002 | 37.6 |
| Benzo(a)pyrene | 5.2 | | 0.004 | 0.002 | 38.3 |
| Perylene | 0.869 | | 0.004 | 0.002 | 36 |
| Indeno(1,2,3-cd)pyrene | 1.63 | | 0.004 | 0.002 | 36.2 |
| Dibenz(a,h)anthracene | 0.616 | | 0.004 | 0.002 | 36.5 |
| Benzo(g,h,i)perylene | 1.88 | | 0.004 | 0.002 | 36.5 |
| Coronene | 0.505 | | 0.004 | 0.002 | 31.1 |
| | | | | | |
| Retene | 0.921 | | 0.004 | 0.002 | 38.5 |
| Benzo(b/c)fluorenes | 3.34 | | 0.004 | 0.002 | 36.5 |
| 2-Methylpyrene | 3.51 | | 0.004 | 0.002 | 41.7 |
| 4-Methylpyrene | 2.86 | | 0.004 | 0.002 | 43.9 |
| 1-Methylpyrene | 2.88 | | 0.004 | 0.002 | 54.7 |
| Heptadecane | | BU | 0.004 | 0.002 | NA |
| Pristane | 47.8 | DB | 0.004 | 0.002 | 12.5 |
| Octadecane | | BU | 0.004 | 0.002 | NA |
| Phytane | 34.0 | DB | 0.004 | 0.002 | 11.4 |

# Analytical Results for Volatile and Semivolatile Organics
# META Environmental, Inc.

## Field ID: Duplicate of CMW-38 (13-15) NAPL

| | | | |
|---|---|---|---|
| Client: | Parsons | Preparation Method: | EPA 3570 |
| Project: | Farrington St. | Cleanup Method(s): | NA |
| | | Analysis Method: | EPA 8270M |
| Lab ID | PA111010-01DUP | | |
| File ID: | G102417E.D | Matrix: | Soil |
| | | Preservation: | None |
| Date Sampled: | 9/27/2011 | Decanted: | None |
| Date Received: | 10/10/2011 | | |
| Date Prepared: | 10/14/2011 | Sample Size (g): | 2.899 |
| Date Cleanup: | NA | Percent Solid: | 80.6% |
| Date Analyzed: | 10/25/2011 | Extract Volume (µl): | 2000 |
| Instrument: | GTO | Prep DF: | 1 |
| Operator: | CAM | Analysis DF: | 1 |
| | | Injection Volume (µl): | 1.00 |
| Batch QC: | QC111014-SB | | |

| Analyte | Concentration (mg/kg dry wt.) | | RL | EDL | Comments |
|---|---|---|---|---|---|
| 2,6,10-trimethyldodecane | 30.6 | D | 0.004 | 0.002 | 10.8 |
| 2,6,10-trimethyltridecane | 29.8 | D | 0.004 | 0.002 | 10.2 |
| Norpristane | 28.1 | DB | 0.004 | 0.002 | 13 |
| Total PAH (16) | 56.8 | | 0.004 | 0.002 | 3.8 |
| Total PAH (42) | 787 | | 0.004 | 0.002 | 28.6 |

| *Extraction Surrogate Recoveries (%)* | | Limits |
|---|---|---|
| Toluene-d8 | 60 | 50 - 120 |
| Phenanthrene-d10 | 72 | 50 - 120 |
| Benzo(a)pyrene-d12 | 64 | 50 - 120 |
| Perylene-d12 | 71 | 50 - 120 |

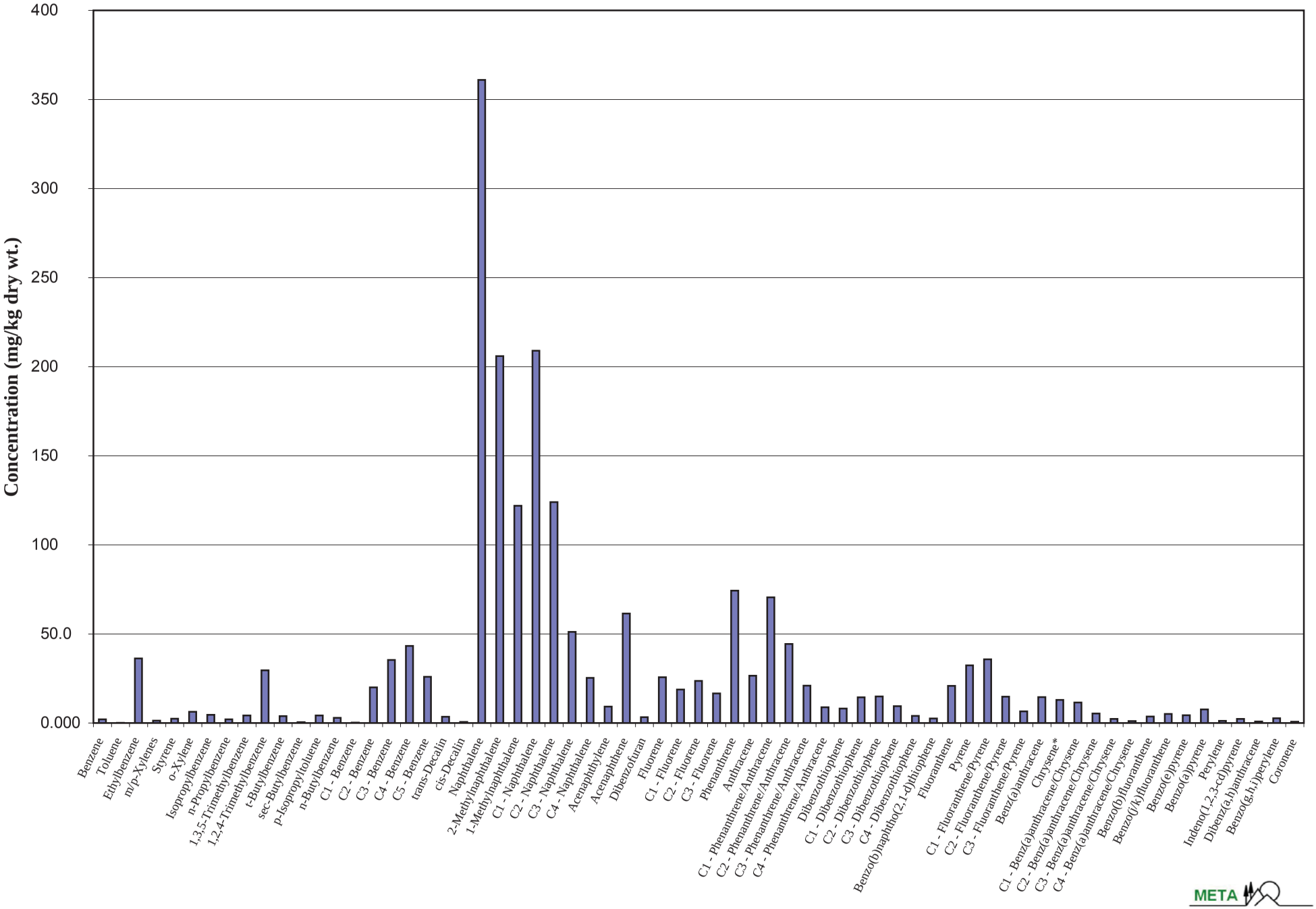
NA - Not applicable.
B - Analyte detected in the Blank.
J - Estimated value; detected between the RL and EDL.
U - Analyte not detected above EDL.
D - Analyte reported from a diluted extract.
E - Estimate, result detected above calibration range.
I - Concentration/Peak ID uncertain due to potential interference.
RL - Reporting limit is the sample equivalent of the lowest linear calibration concentration.
EDL - Estimated detection limit is 50% of RL.
* - Triphenylene is known to coelute with this compound.

# Appendix D

# Extended MAH/PAH Profiles – Histograms

# CMW-38 (13-15) NAPL

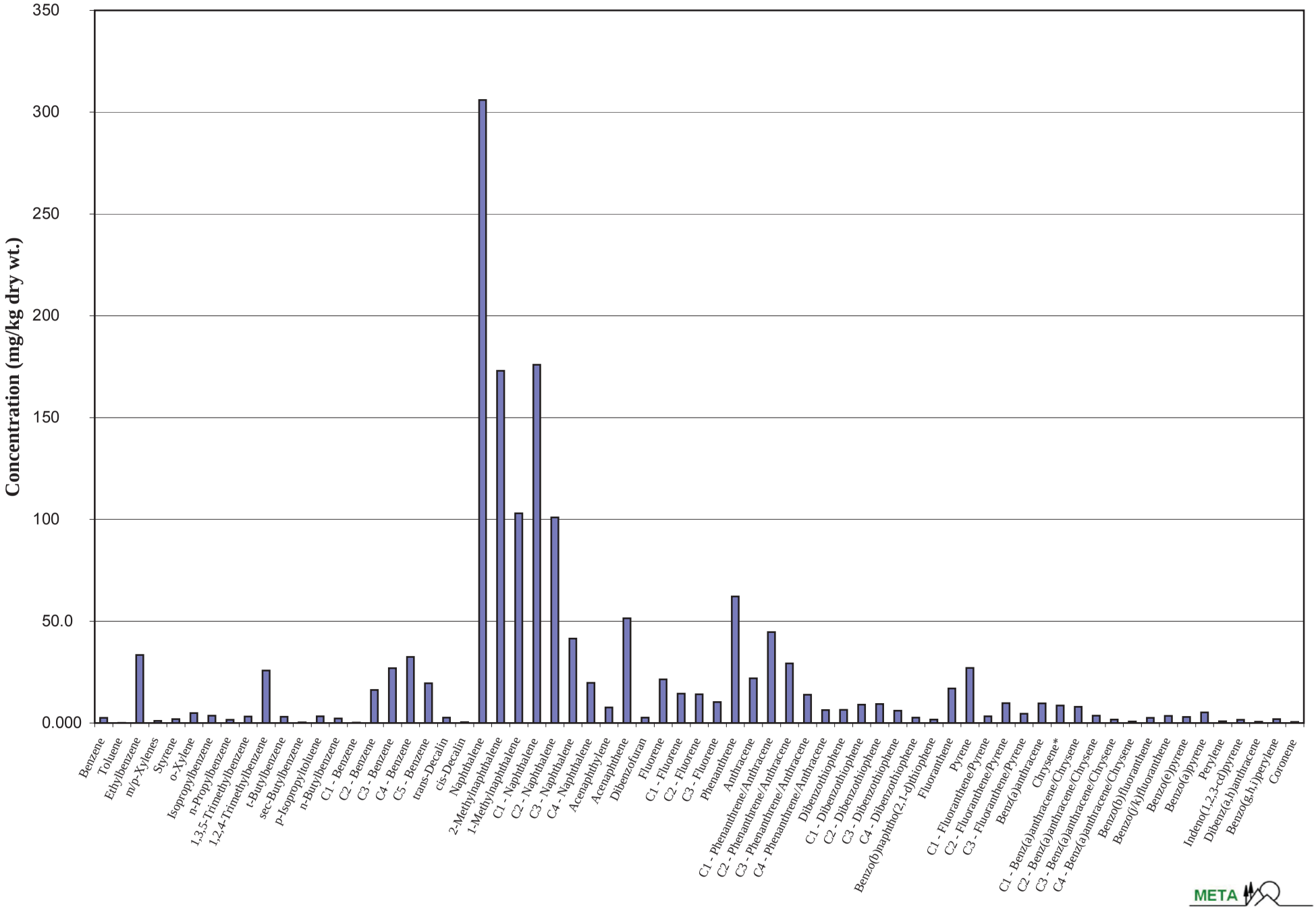
PA111010-01




META

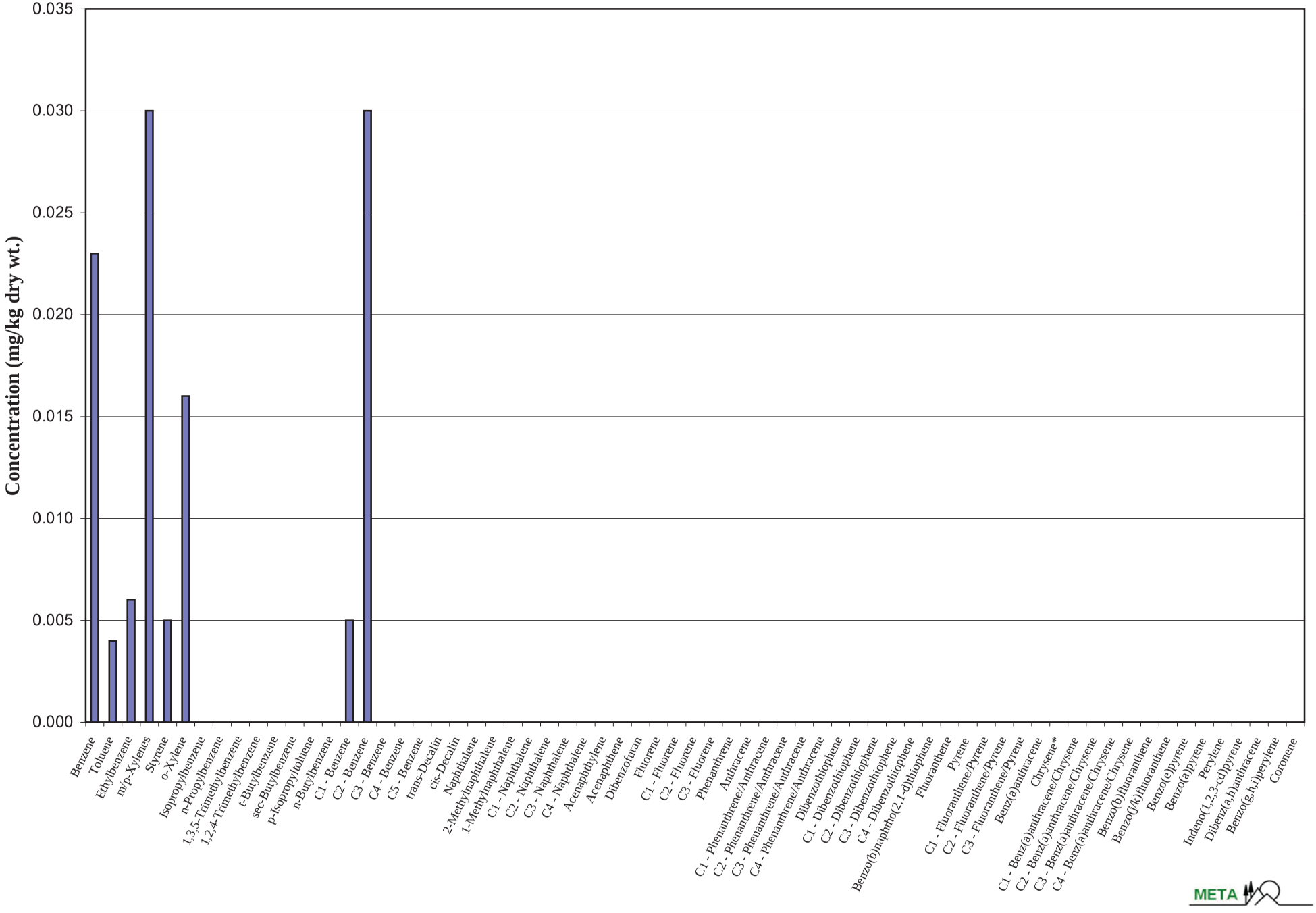
# Duplicate of CMW-38 (13-15) NAPL

PA111010-01DUP



# Soil Blank

QC111014-SB



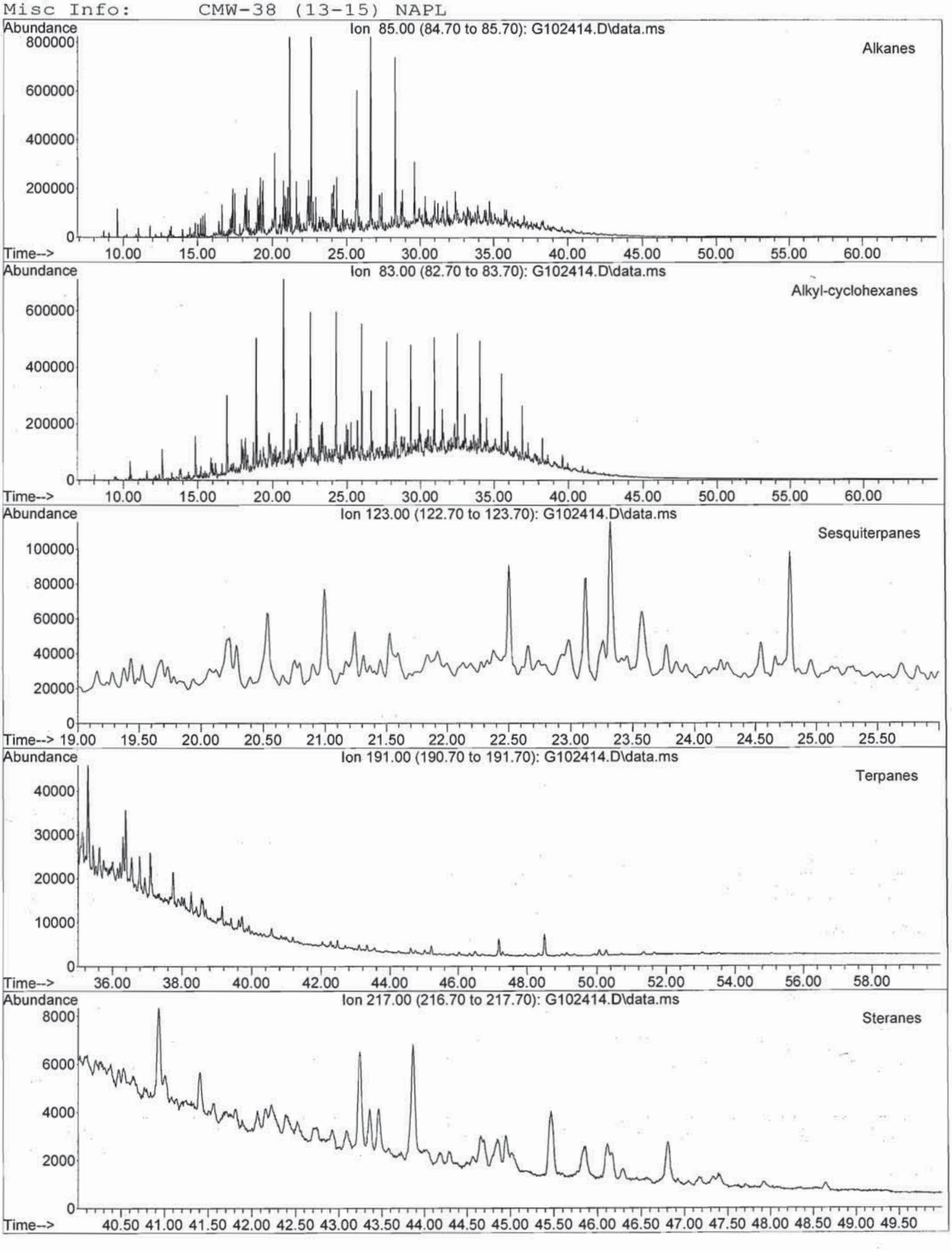
# Appendix E

# Extracted Ion Current Profiles (EICPs)

META Environmental, Inc.

GC/MS EXTRACTED ION CHROMATOGRAM

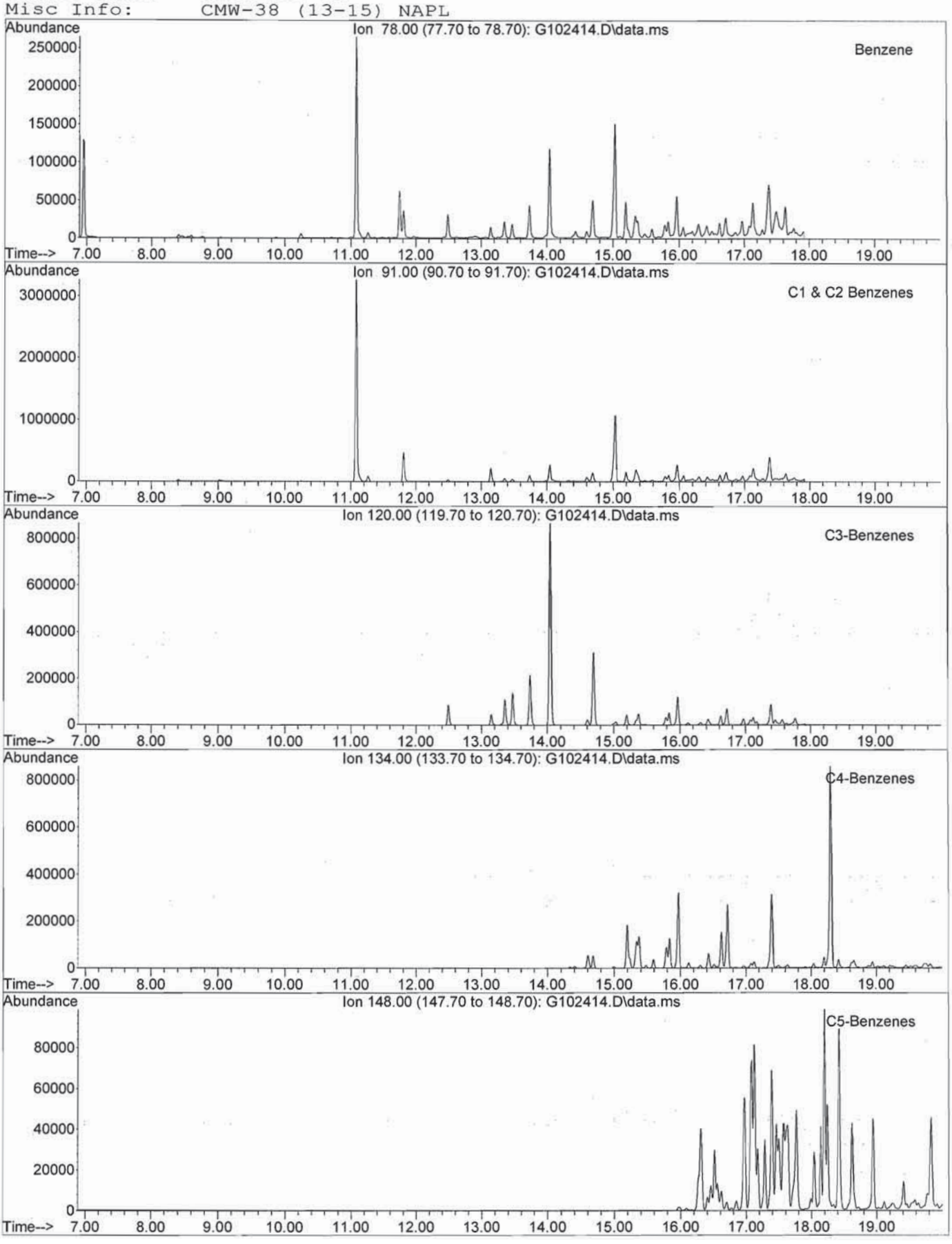
File: \\INSTRUMENT-EG\msdchem\2\data\G111024\G102414.D
Date Acquired: 25 Oct 2011 4:54 am
Sample Name: PA111010-01
Misc Info: CMW-38 (13-15) NAPL



META Environmental, Inc.

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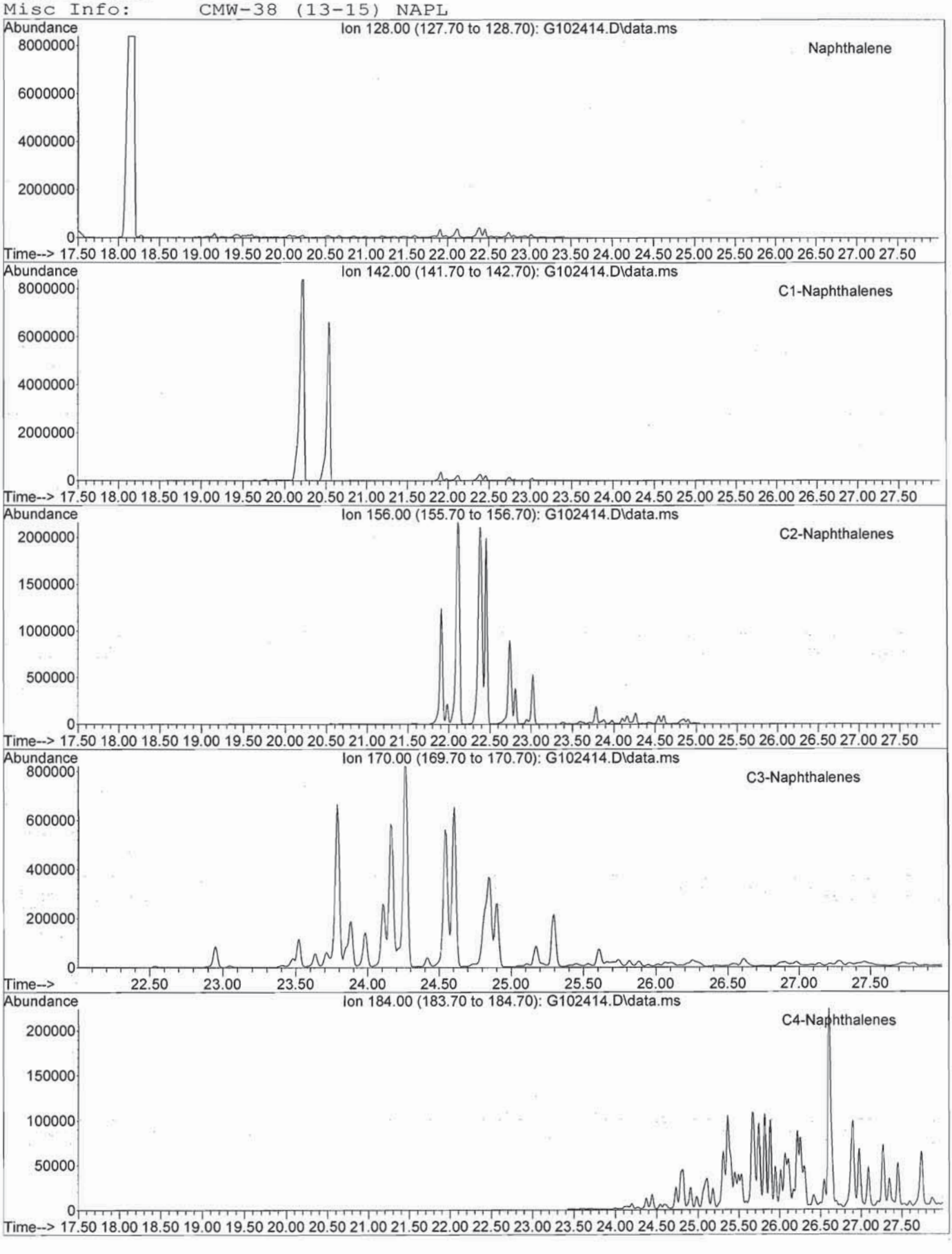
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Sample Name: PA111010-01
Misc Info: CMW-38 (13-15) NAPL



META Environmental, Inc.

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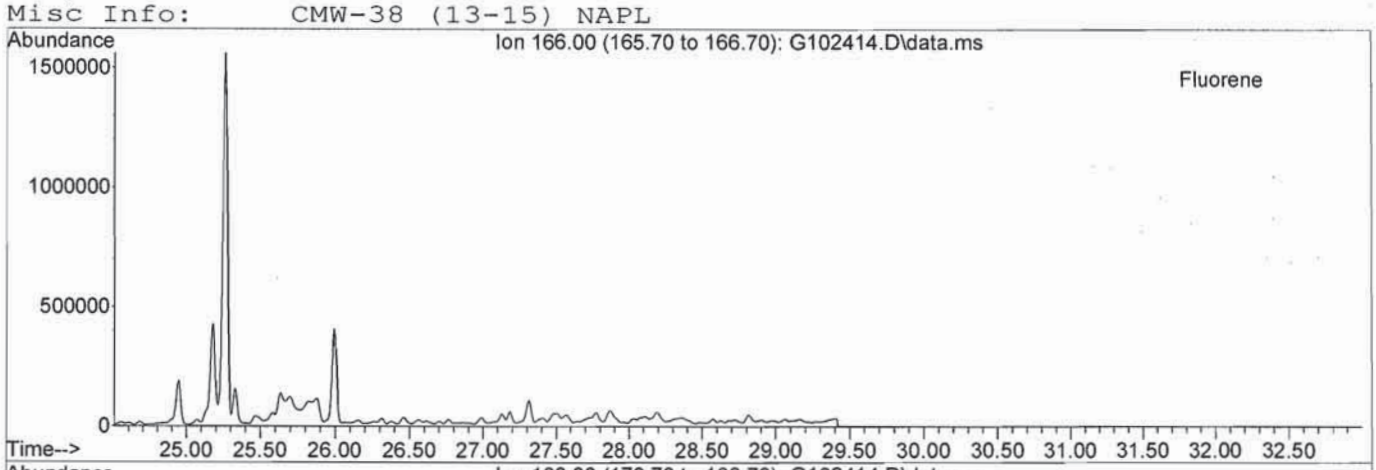
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Misc Info: CMW-38 (13-15) NAPL

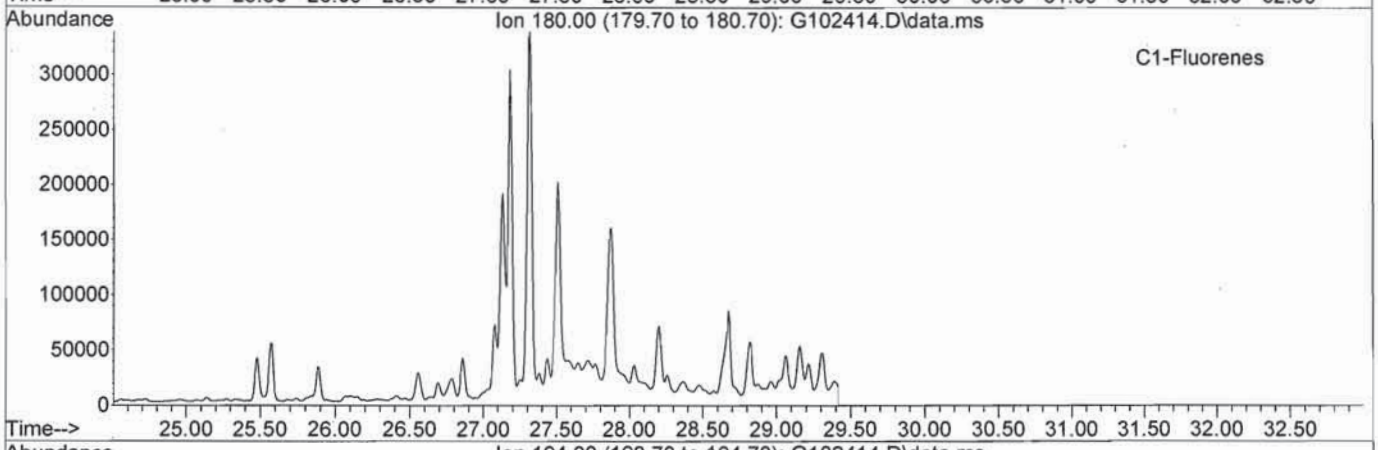


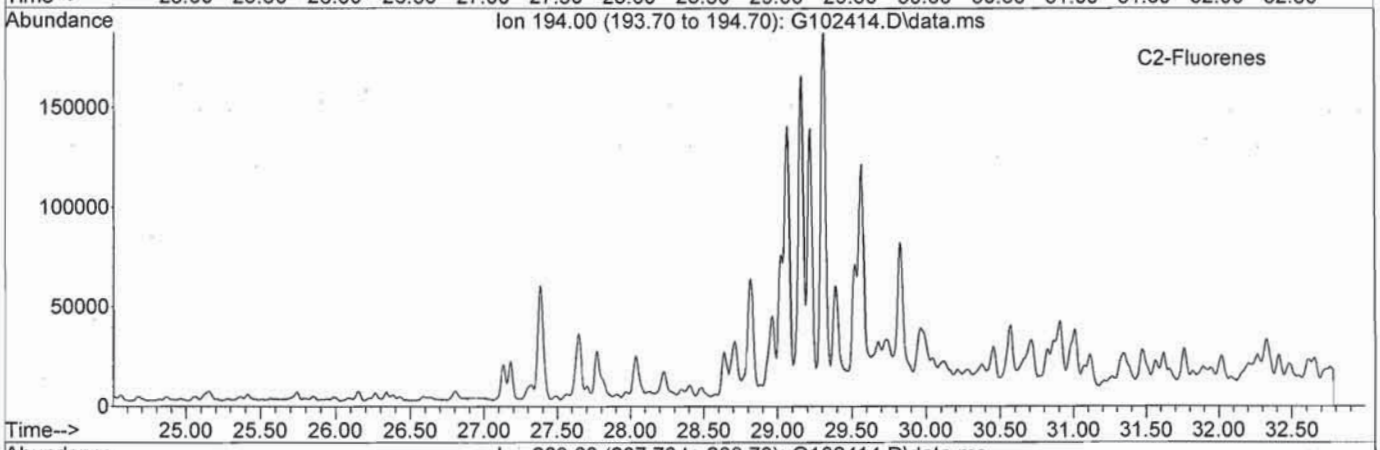
META Environmental, Inc.

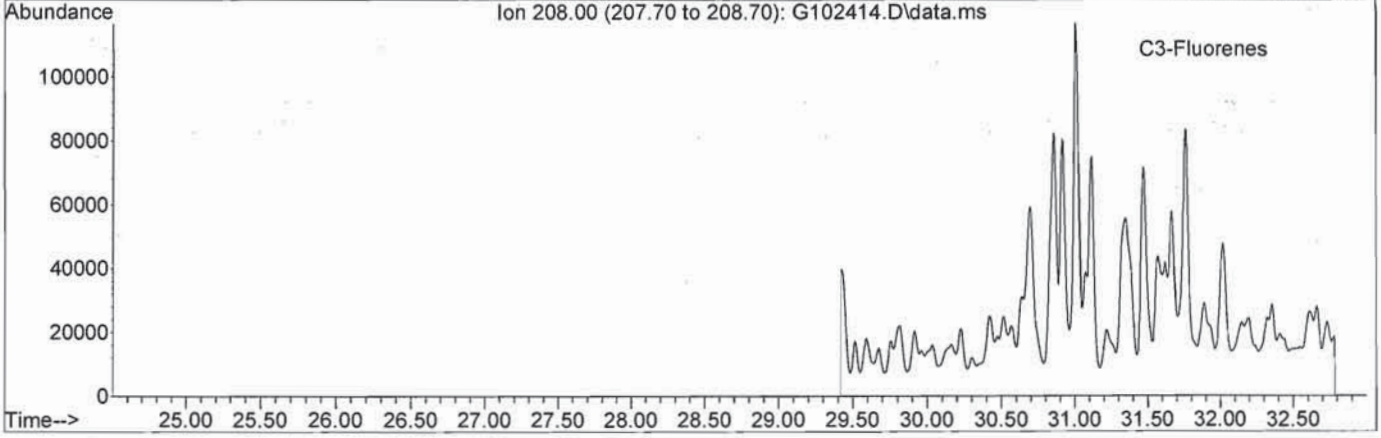
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Sample Name: PA111010-01
Misc Info: CMW-38 (13-15) NAPL



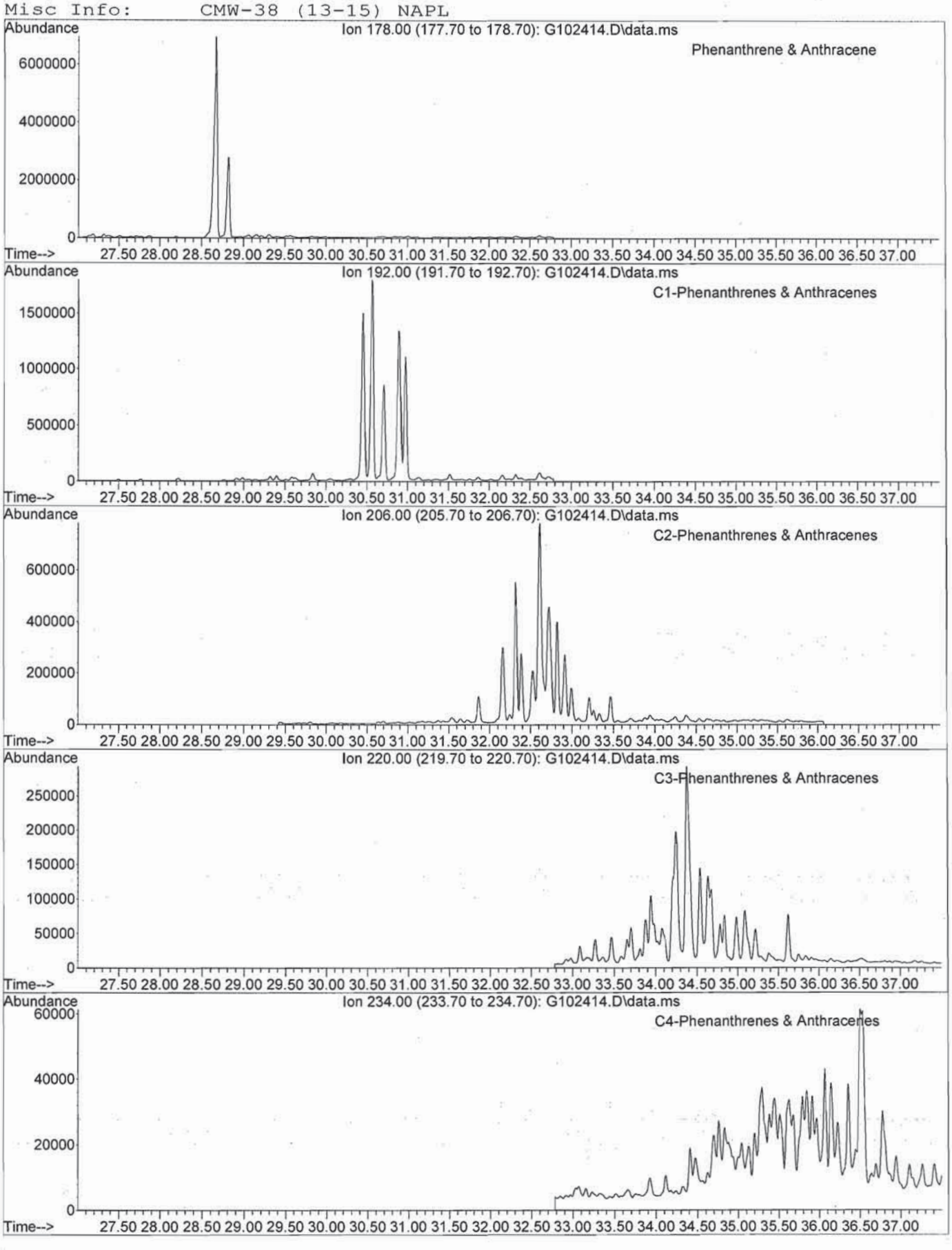



META Environmental, Inc.

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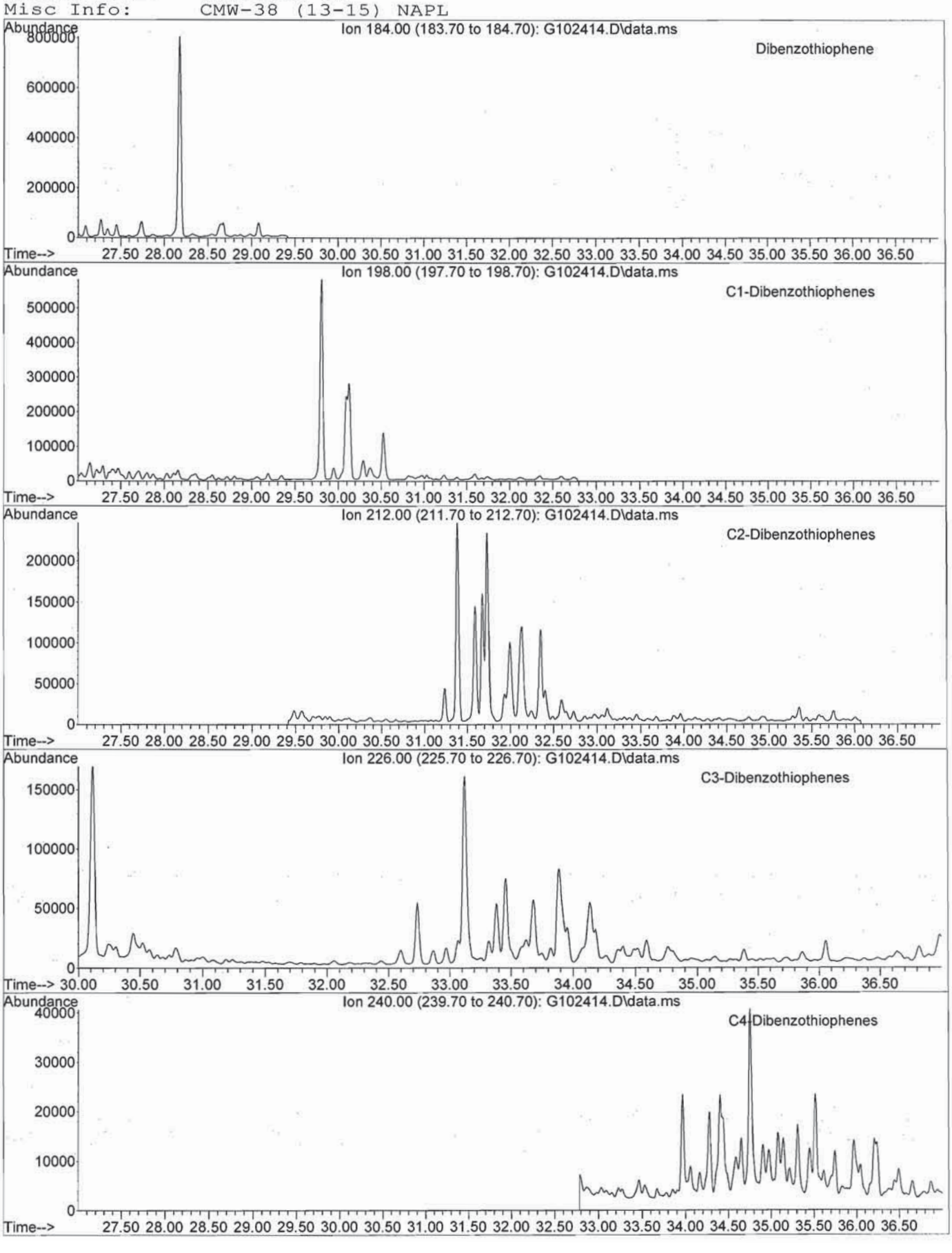
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Date Acquired: 25 Oct 2011 4:54 am
Sample Name: PA111010-01
Misc Info: CMW-38 (13-15) NAPL



META Environmental, Inc.

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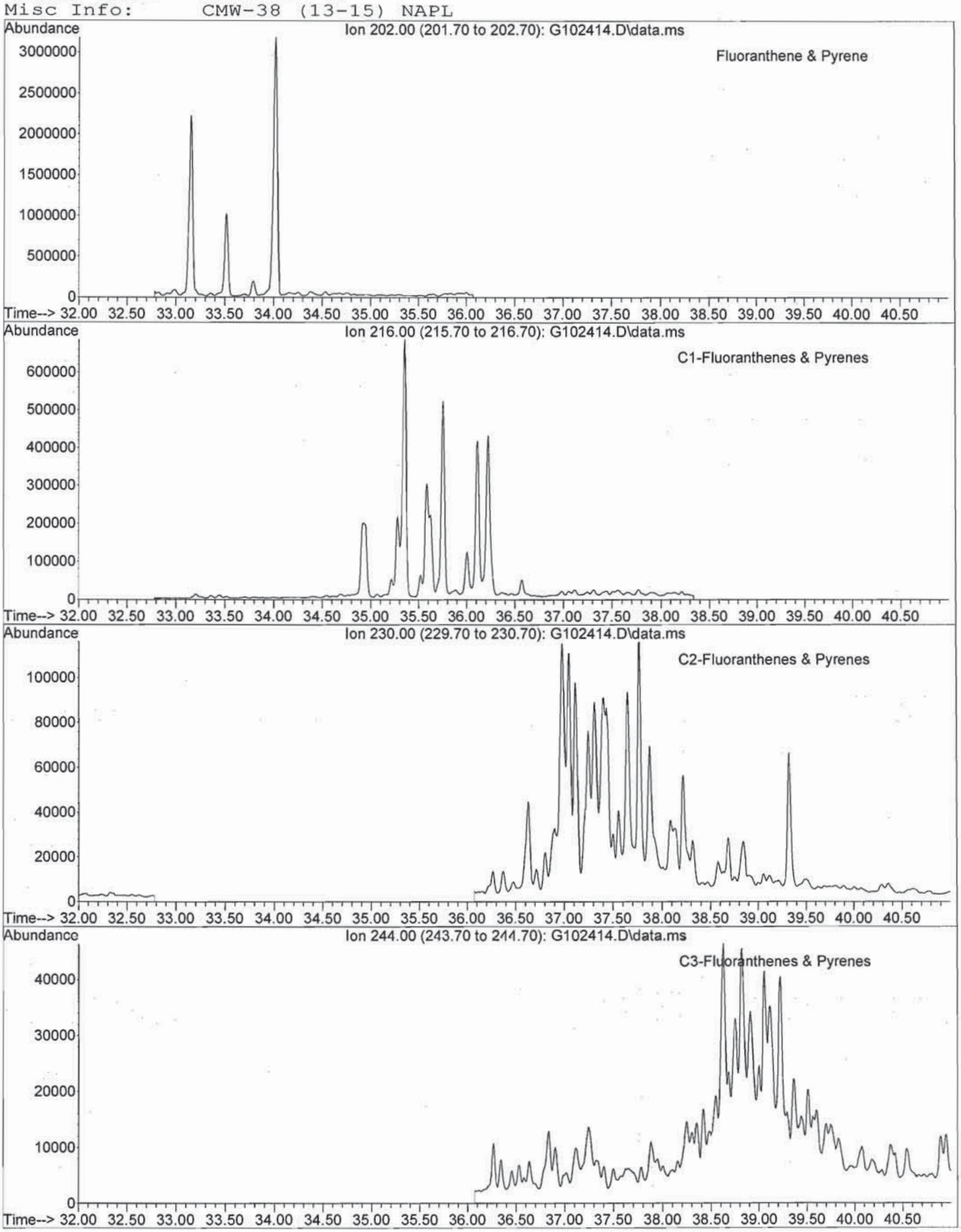
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Misc Info: CMW-38 (13-15) NAPL



META Environmental, Inc.

GC/MS EXTRACTED ION CHROMATOGRAM

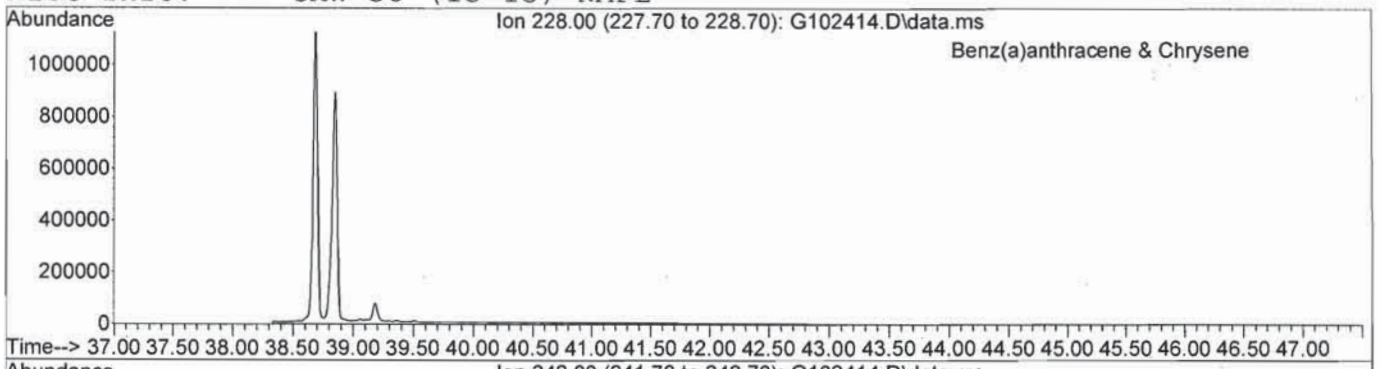
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Misc Info: CMW-38 (13-15) NAPL

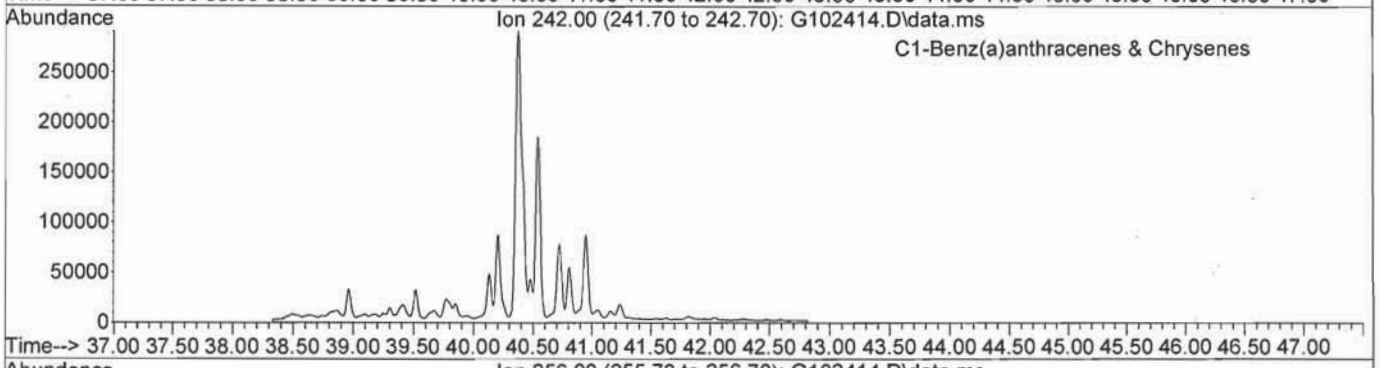


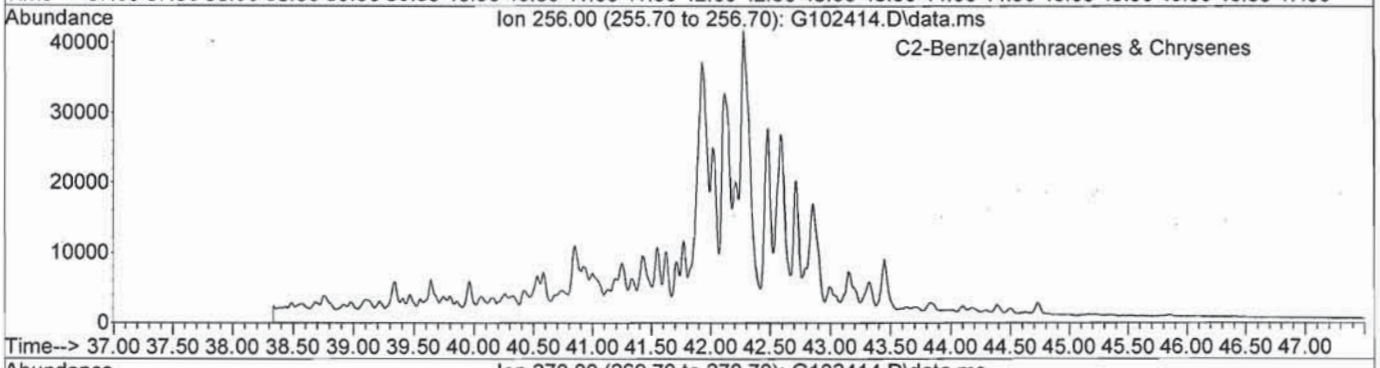
META Environmental, Inc.

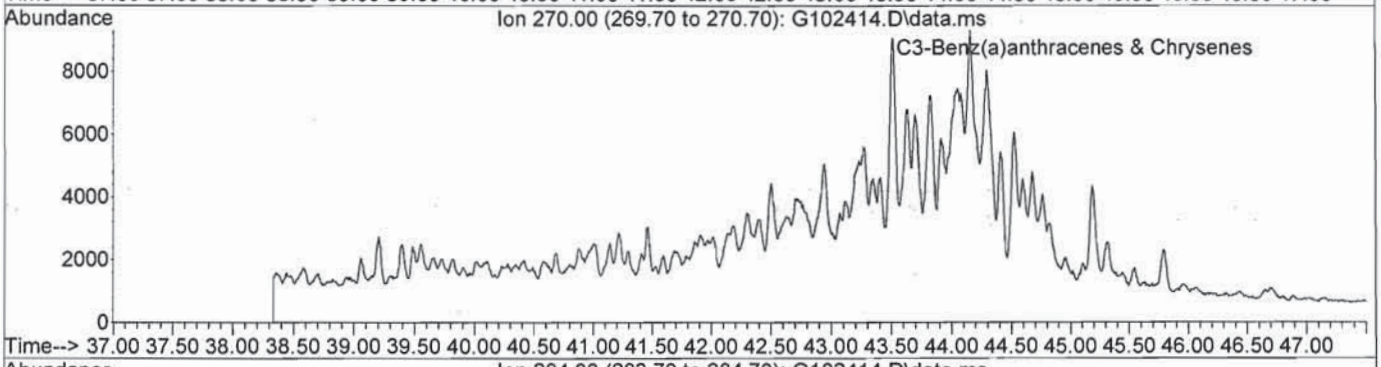
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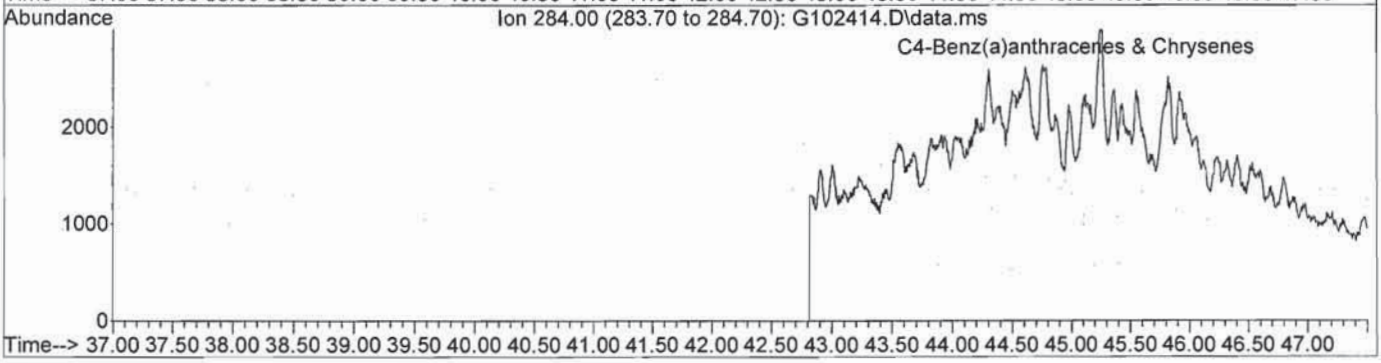
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Misc Info: CMW-38 (13-15) NAPL



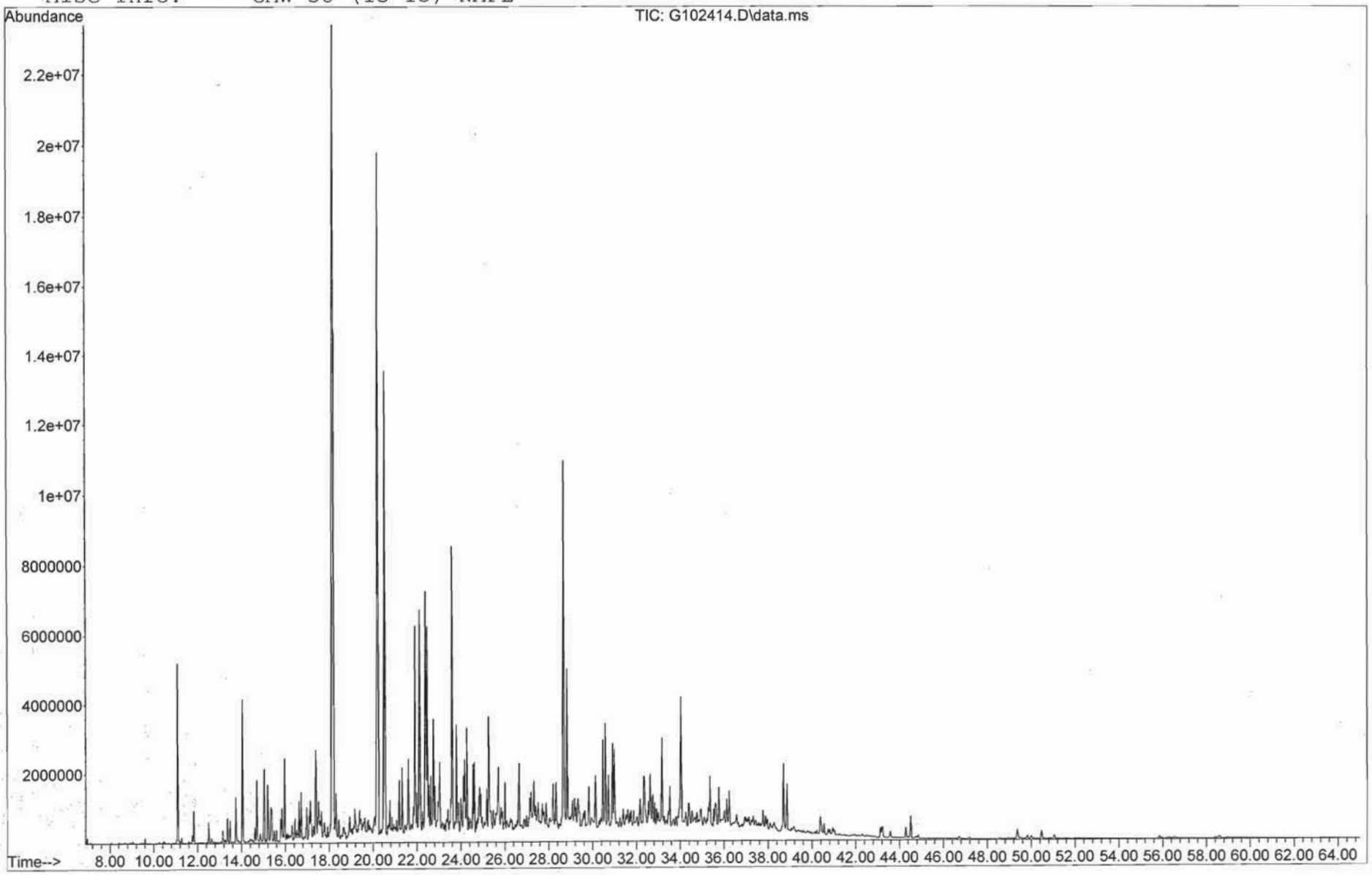



META Environmental, Inc.

GC/MS TOTAL ION CHROMATOGRAM

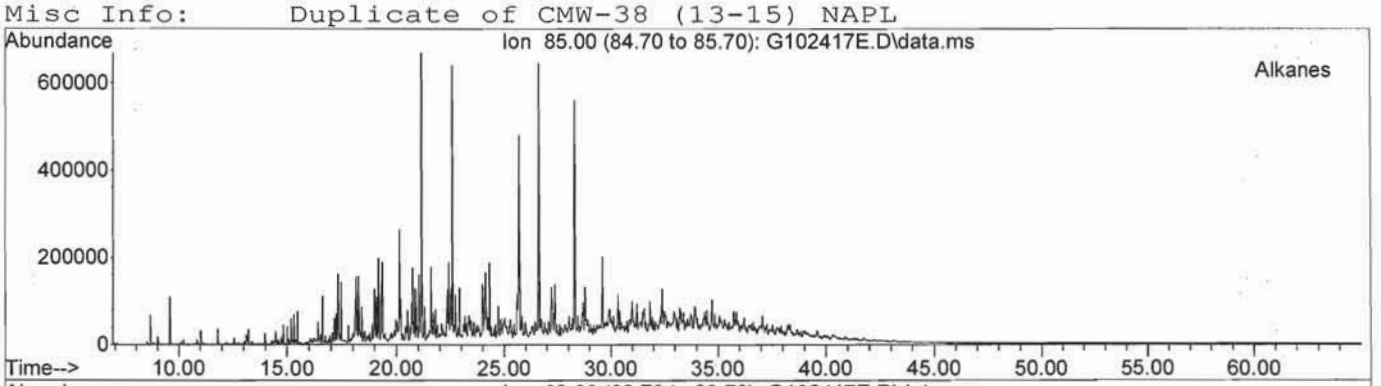
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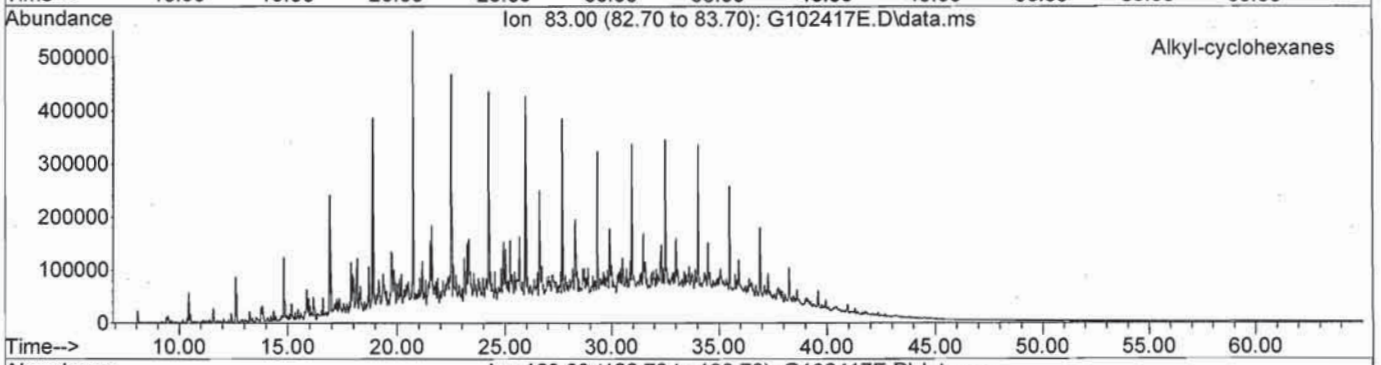


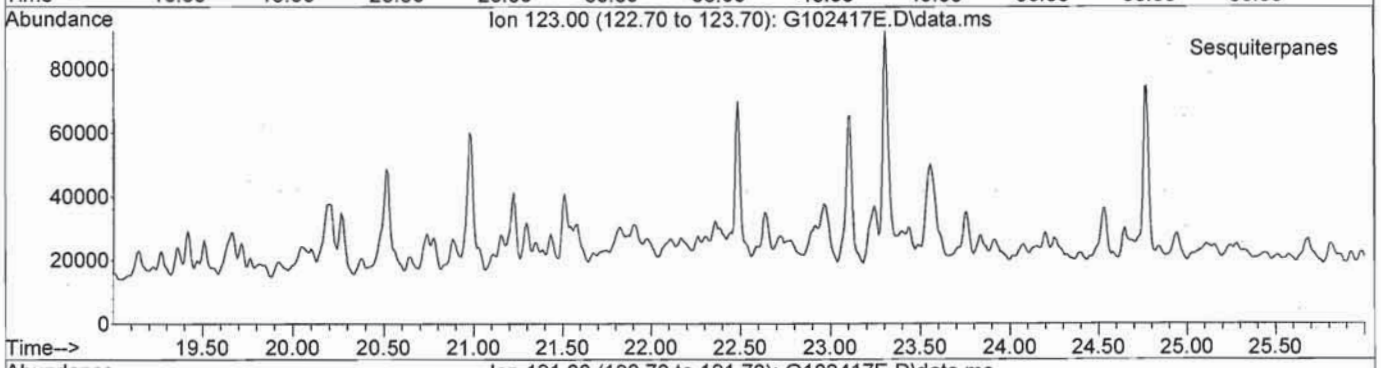
META Environmental, Inc.

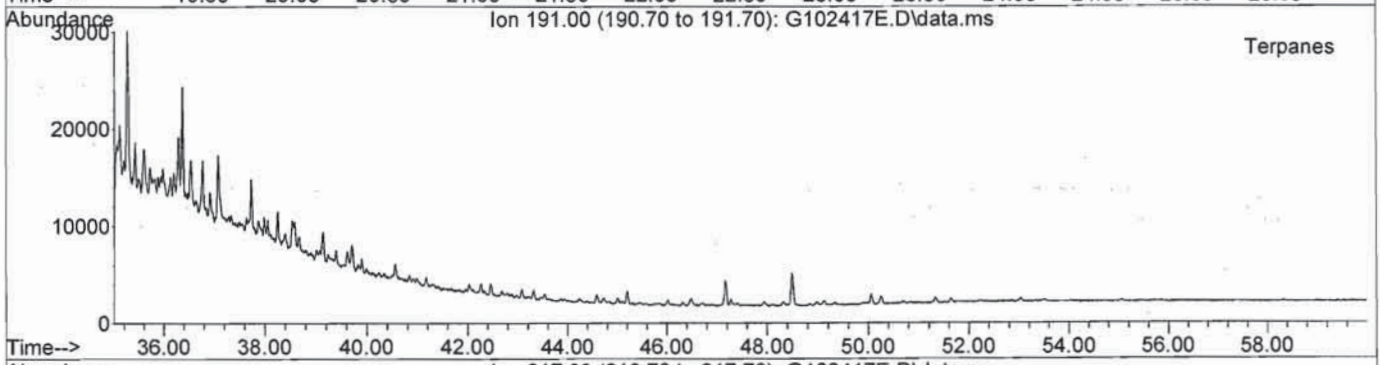
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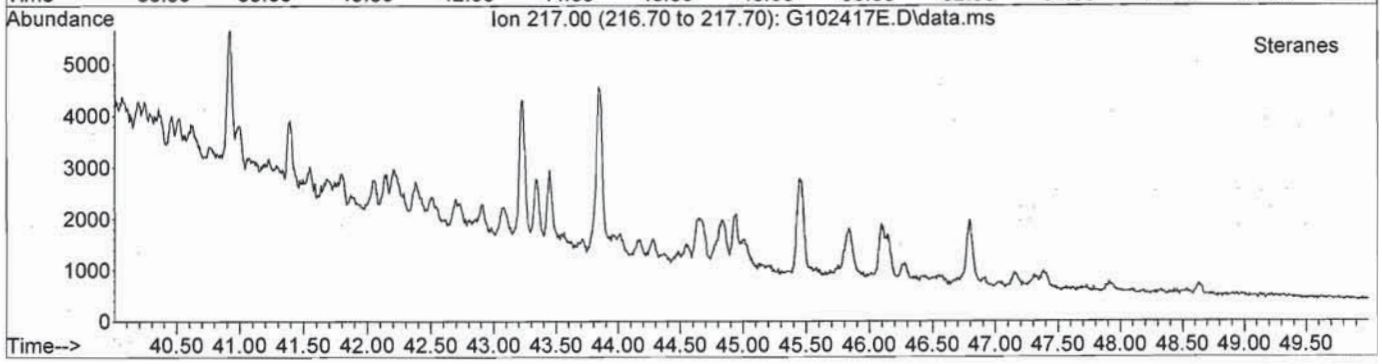
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Sample Name: PA111010-01DUP
Misc Info: Duplicate of CMW-38 (13-15) NAPL



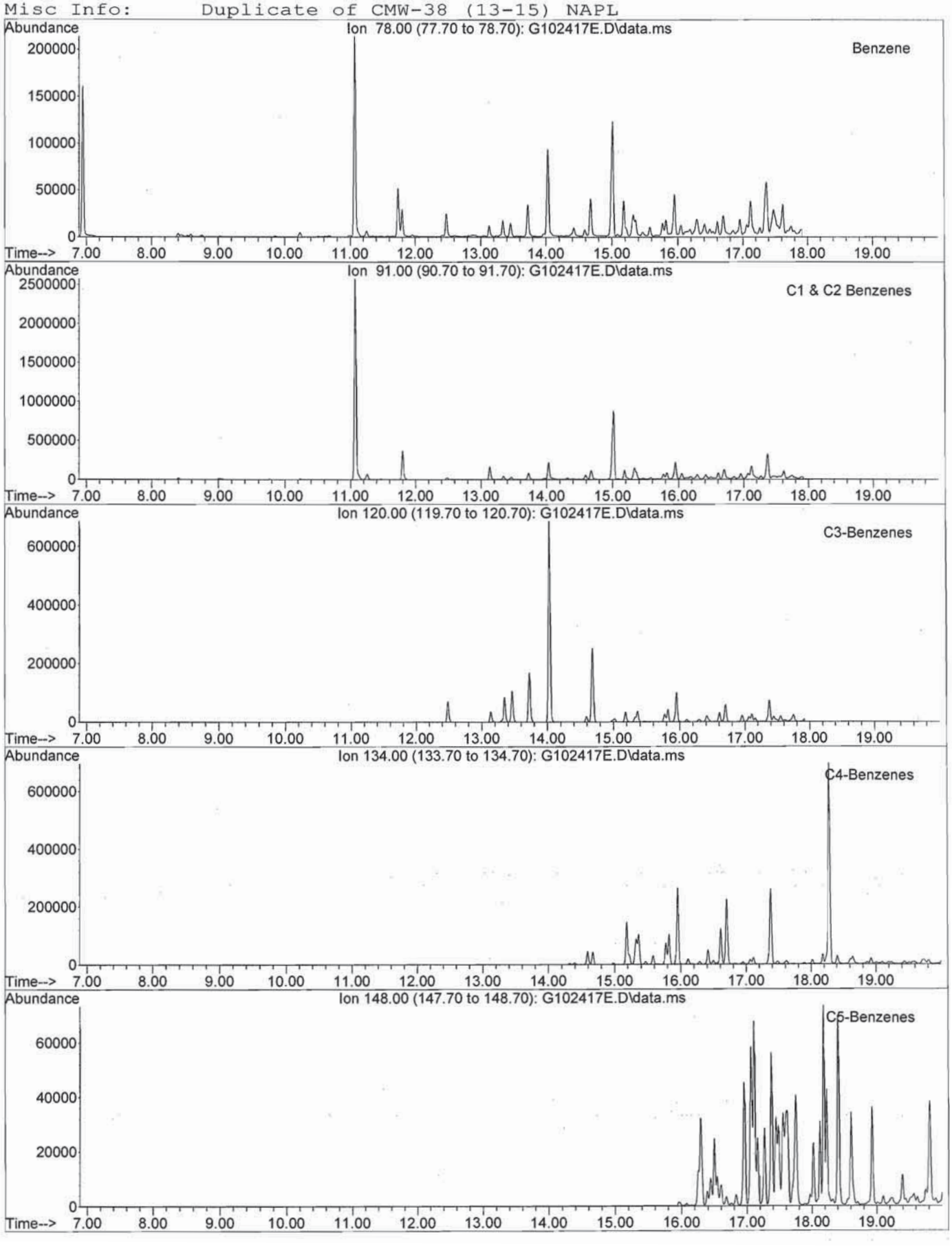



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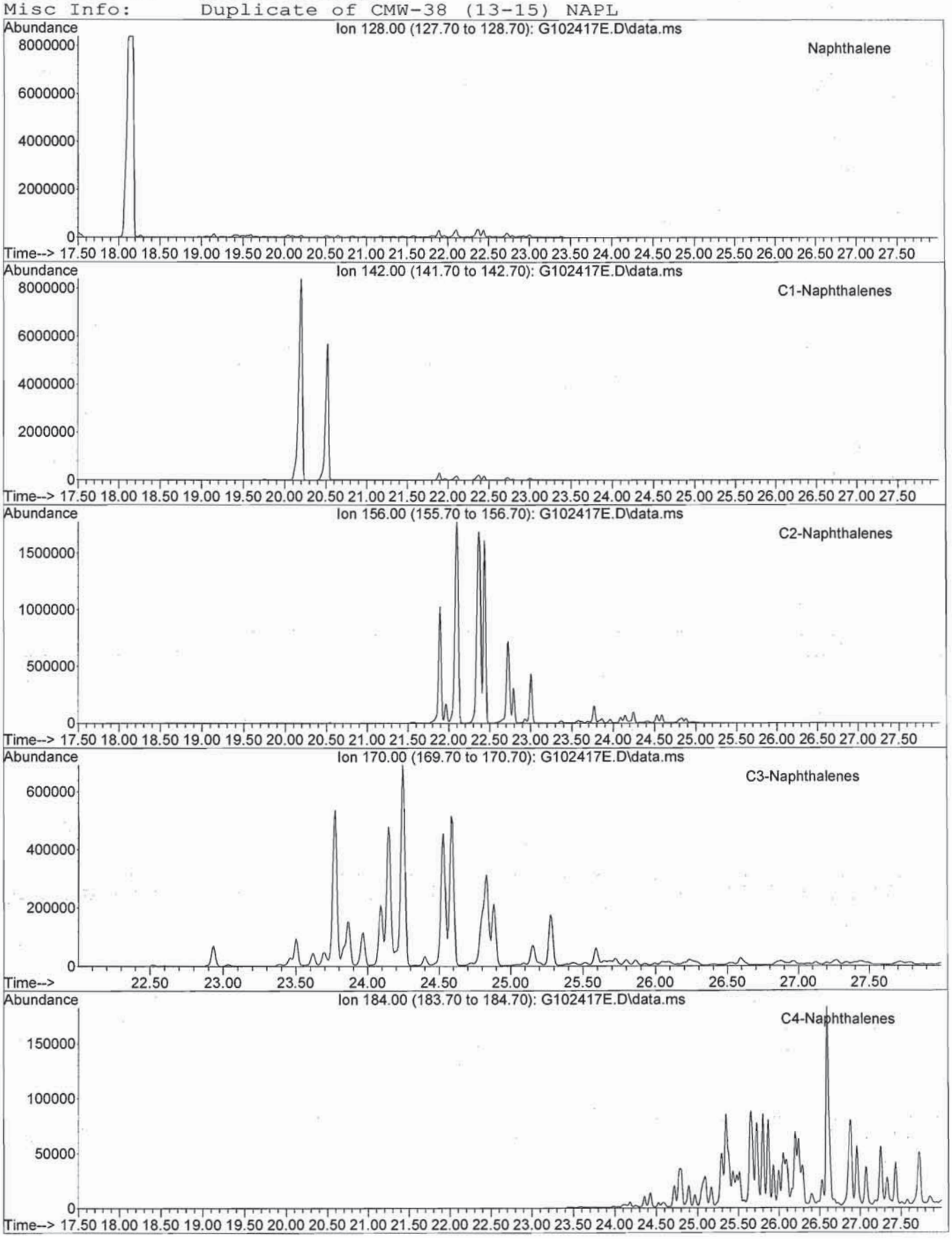
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Sample Name: PA111010-01DUP
Misc Info: Duplicate of CMW-38 (13-15) NAPL



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GC/MS EXTRACTED ION CHROMATOGRAM

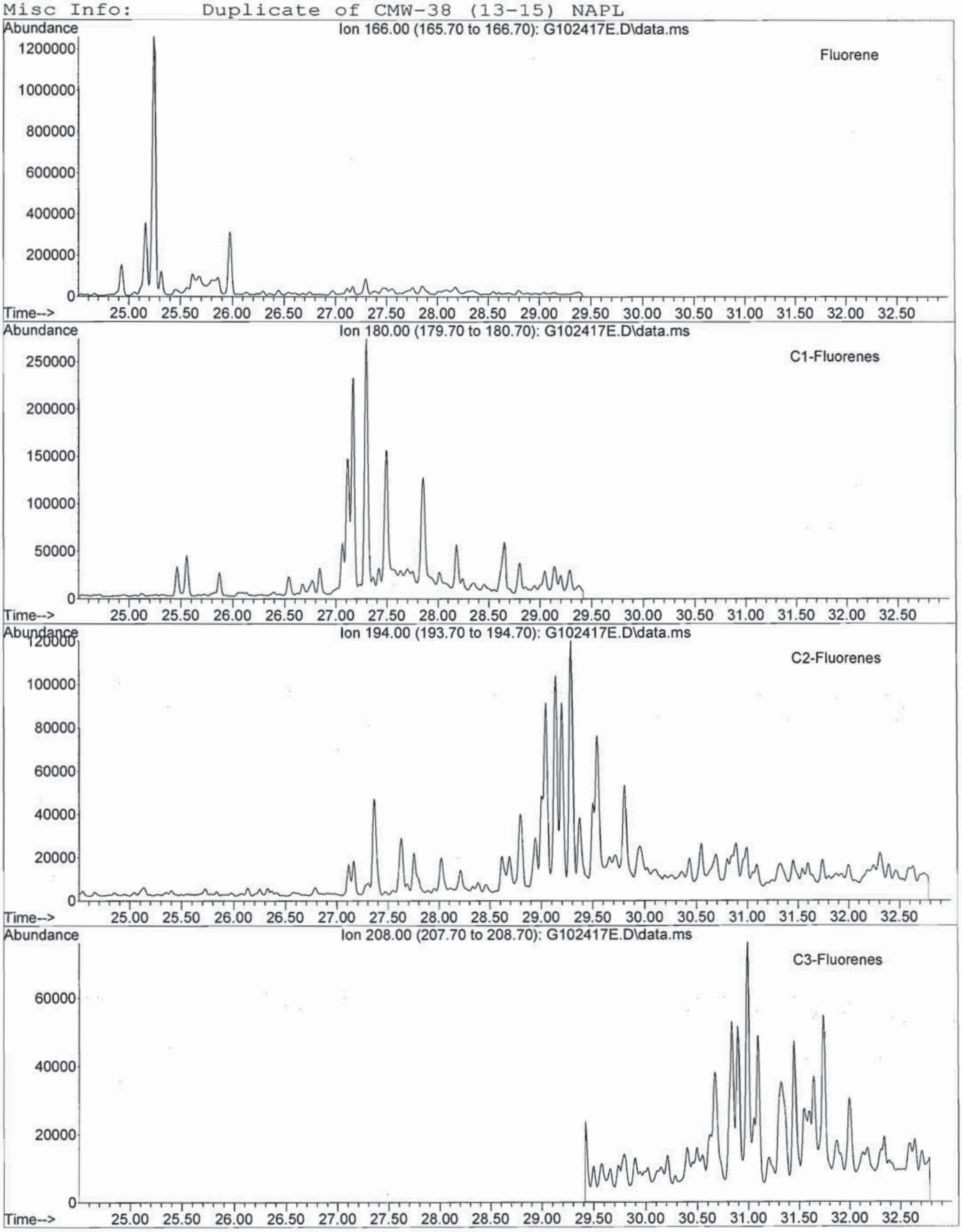
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Sample Name: PA111010-01DUP
Misc Info: Duplicate of CMW-38 (13-15) NAPL



META Environmental, Inc.

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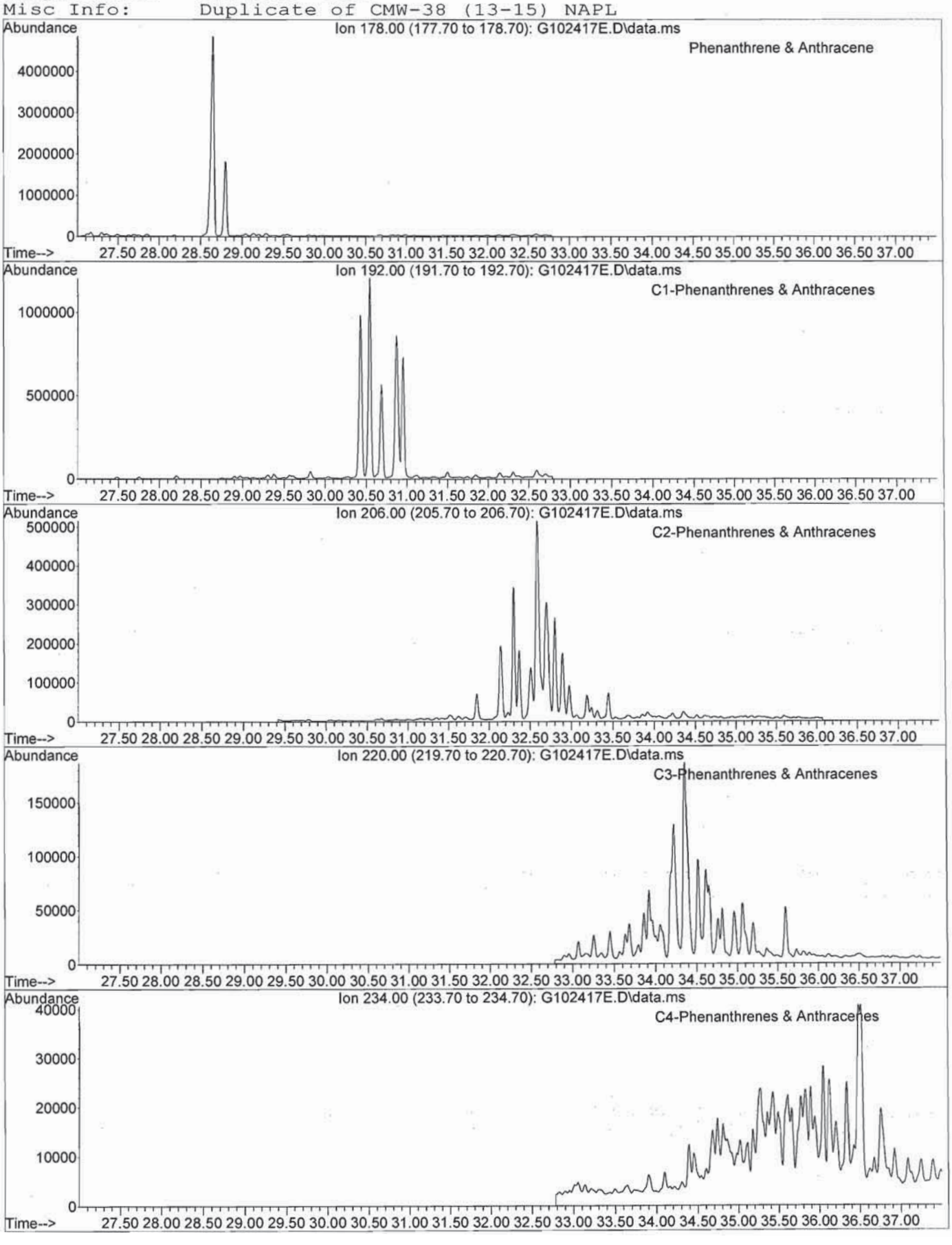
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Date Acquired: 25 Oct 2011 5:37 pm
Sample Name: PA111010-01DUP
Misc Info: Duplicate of CMW-38 (13-15) NAPL



META Environmental, Inc.

GC/MS EXTRACTED ION CHROMATOGRAM

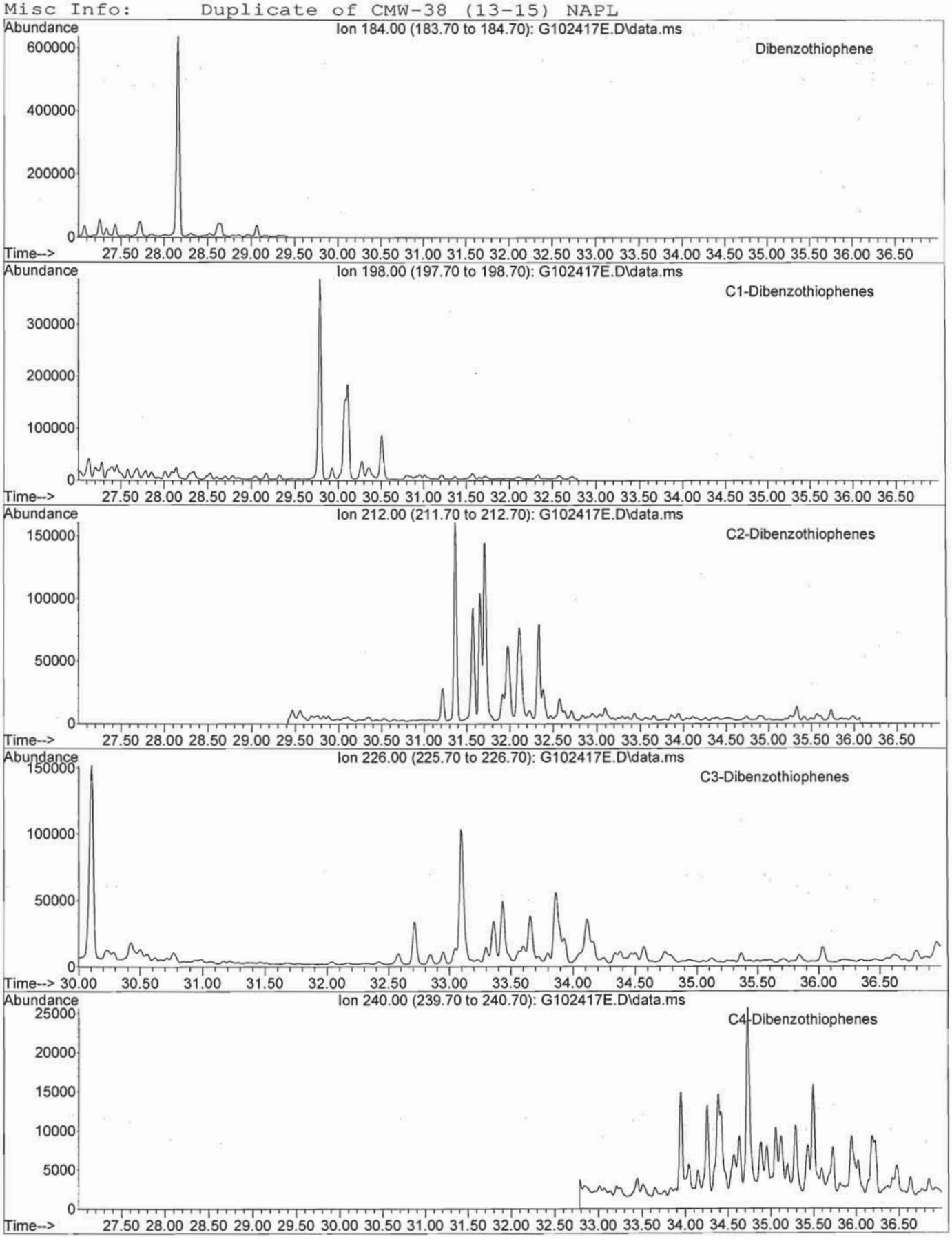
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Date Acquired: 25 Oct 2011 5:37 pm
Sample Name: PA111010-01DUP
Misc Info: Duplicate of CMW-38 (13-15) NAPL



META Environmental, Inc.

GC/MS EXTRACTED ION CHROMATOGRAM

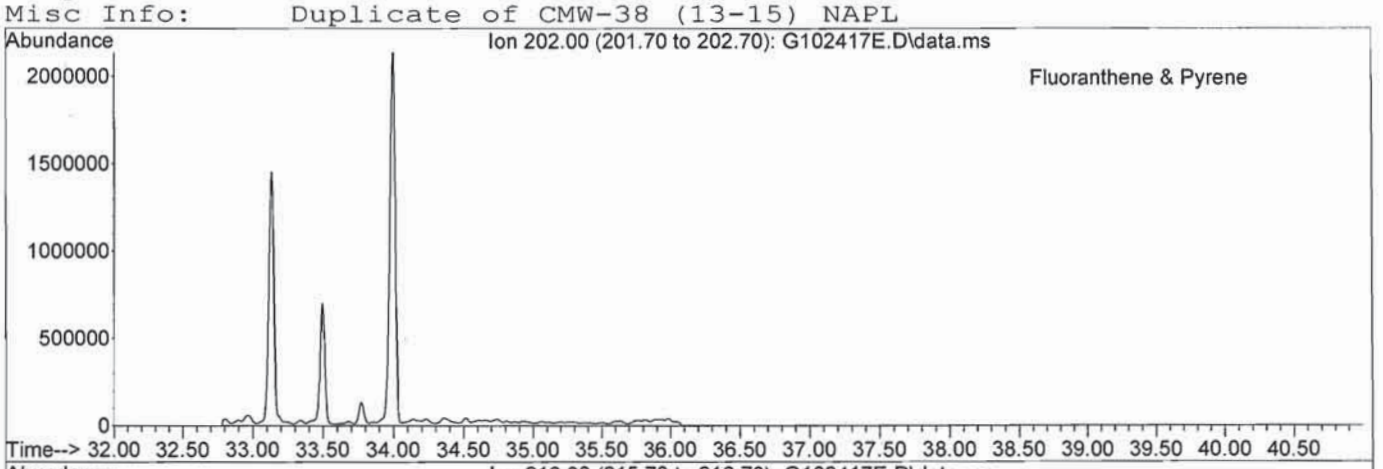
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Sample Name: PA111010-01DUP
Misc Info: Duplicate of CMW-38 (13-15) NAPL

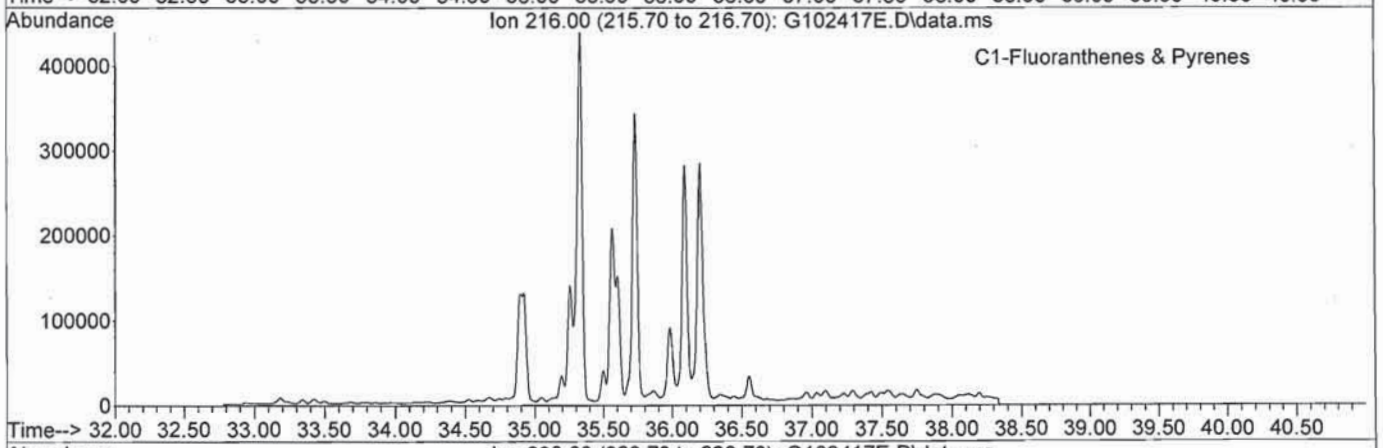


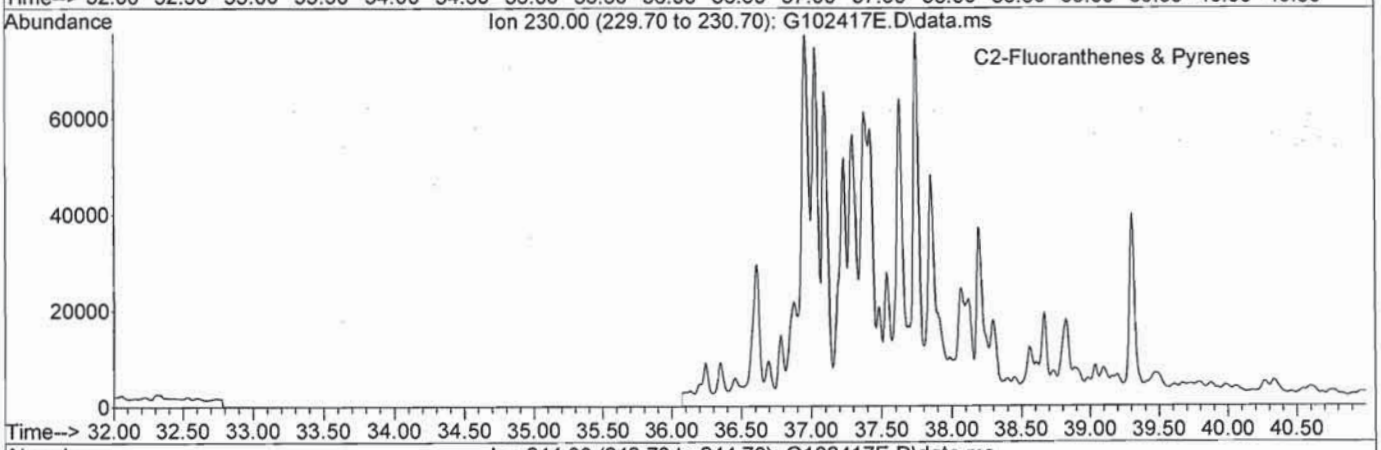
META Environmental, Inc.

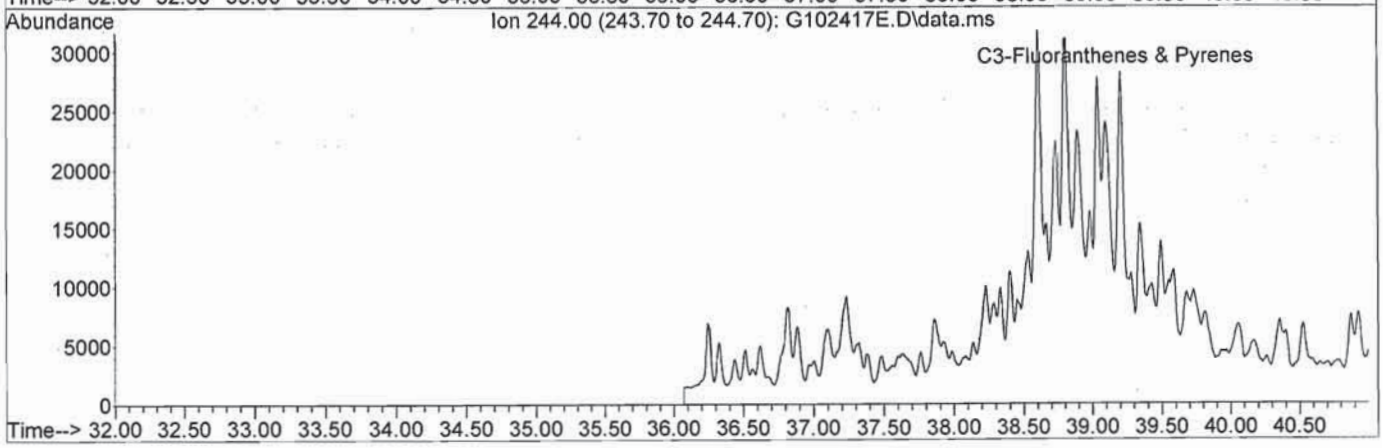
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Misc Info: Duplicate of CMW-38 (13-15) NAPL



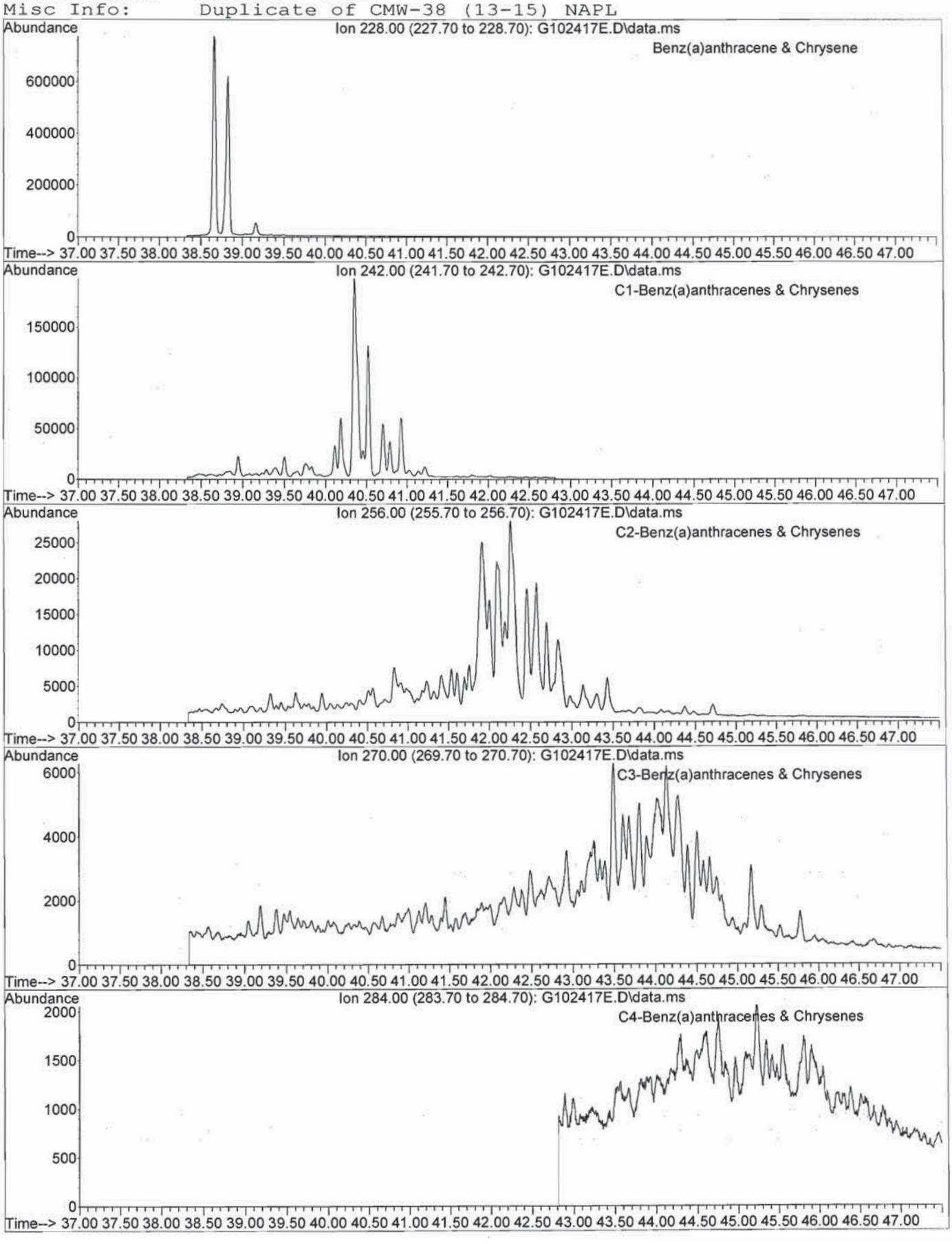



META Environmental, Inc.

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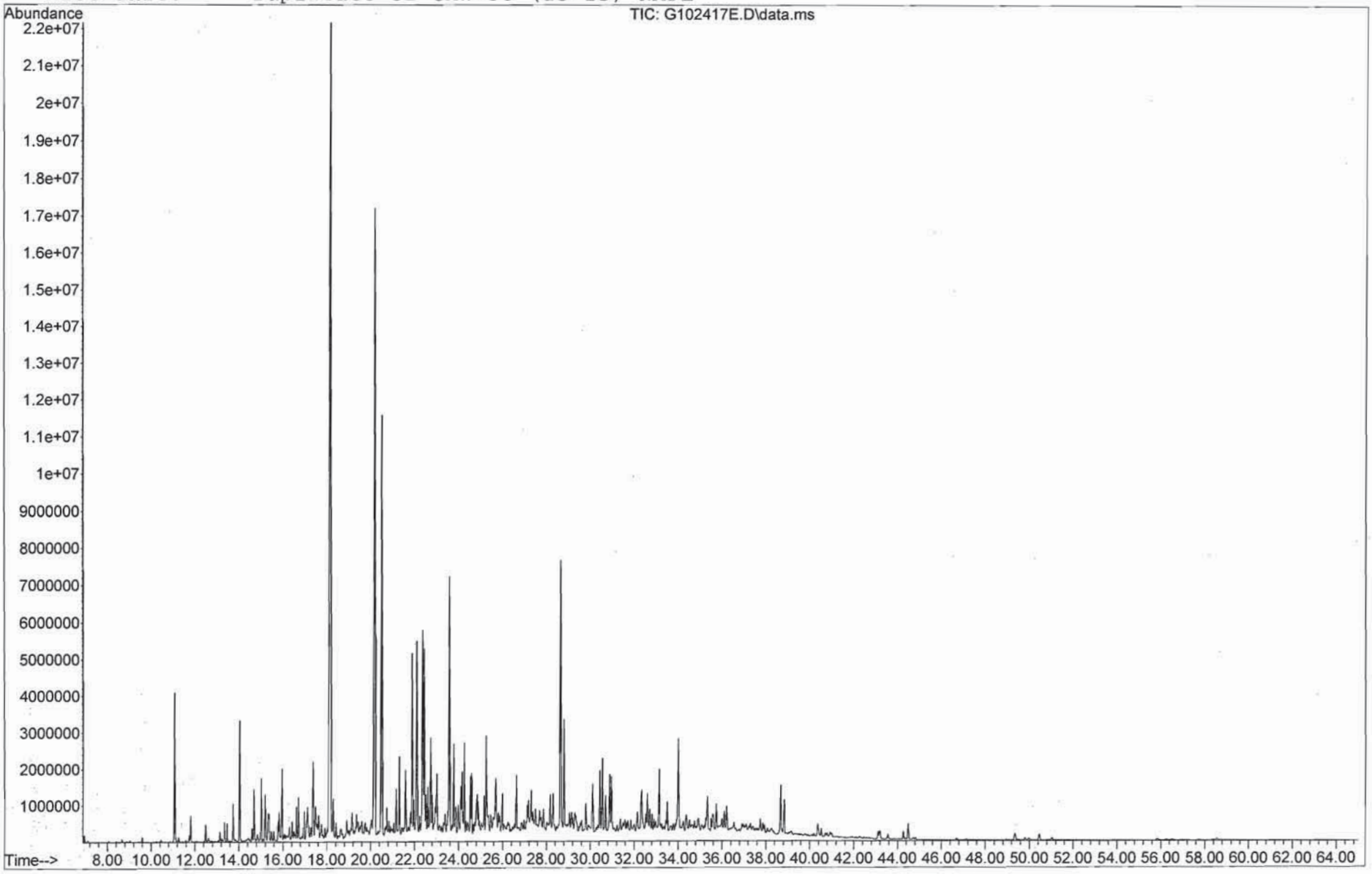
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Date Acquired: 25 Oct 2011 5:37 pm
Sample Name: PA111010-01DUP
Misc Info: Duplicate of CMW-38 (13-15) NAPL



META Environmental, Inc.

GC/MS TOTAL ION CHROMATOGRAM

File: \\INSTRUMENT-EG\msdchem\2\data\G111024\G102417E.D
Date Acquired: 25 Oct 2011 5:37 pm
Sample Name: PA111010-01DUP
Misc Info: Duplicate of CMW-38 (13-15) NAPL



# Environmental Forensic Report

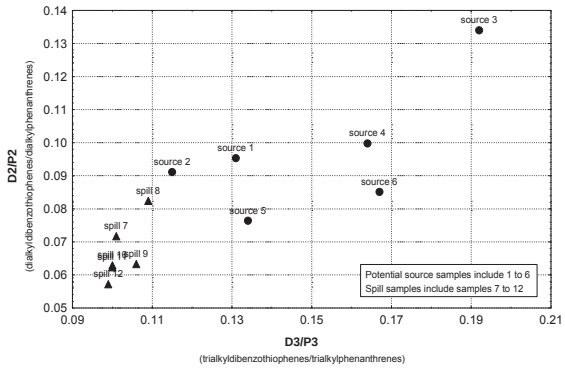
## Con Edison - Farrington St.

**SDG: PA110919**





Figure 1. Double Ratio Plot




***Report To:***

**Parsons**
**301 Plainfield Road**
**Syracuse, NY 13212**

***Report By:***

**META Environmental, Inc.**
**49 Clarendon Street**
**Watertown, MA 02472**

**October 4, 2011**

***Identifying and allocating sources of pollutants in complex environments.***

META Environmental, Inc.
ENGINEERING & CHEMISTRY

Final Laboratory Report

META Environmental, Inc.
49 Clarendon Street
Watertown, MA 02472
Phone: 617-923-4662
Fax: 617-923-4610
E-Mail meta@metaenv.com

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Conference and/or state specific certification programs as applicable.

New York Certification Number: 11886

## Certification

This certifies that this package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed herein. The results included in this data report relate only to the samples as received and analyzed by the laboratory.

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

Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager and Quality Assurance Officer, as verified by the following signatures.

James A. Roush — October 4, 2011
Environmental Scientist, Laboratory Manager

David M. Mauro — October 4, 2011
Senior Scientist, Quality Assurance Officer

# Sample Delivery Group Narrative

| | |
|---|---|
| Project: | Farrington St. |
| Client | Parsons<br>301 Plainfield Road<br>Syracuse, NY 13212 |
| Report Contact: | Shane Blauvelt |
| Dates of Receipt: | September 19, 2011 |
| Sample Summary: | The samples received for this project are summarized in the attached sample login forms in Appendix A. |
| META Project Number: | P06011 |
| SDG No.: | PA110919 |
| Total Pages in Report: | 87 |

# Chain of Custody

The samples were received in good condition. The internal temperature of the shipping container was above the recommended 0-6°C range and was as follows:

Samples received: 09/19/2011 14.6°C Ice melted

Internal chain of custody procedures were followed after sample receipt. Samples were stored in a locked refrigerator. A sample custody logbook contains the record of sample removal from the secure sample storage area to the sample preparation laboratory. The custody record for the sample extracts is present on the sample extraction logbook page.

The disposal of samples and extracts will be authorized one month after the release of this data report. Sample disposal will be documented.

# Methods

The soil samples were prepared by solvent extraction (EPA 3570) using dichloromethane (DCM). The extracts were spiked with internal standard and analyzed by GC/FID (EPA 8100M) for fingerprinting and by GC/MS/SIM (EPA 8270M) for mono- and polycyclic aromatic hydrocarbons (MAHs and PAHs), alkyl PAH homologues and other selected compounds.

# Results

Sample results are presented in several appendices which follow this narrative.

Appendix B: GC/FID Fingerprints
Appendix C: MAH/PAH Concentrations
Appendix D: Extended MAH/PAH Profiles - Histograms
Appendix E: Extracted Ion Current Profiles (EICPs)

# Quality Control

**Analyte Flags**

The detection limits were determined as the sample equivalent of the lowest linear initial calibration standard. Analytes measured between 50% and 100% of the lowest standard were reported as "estimated" and flagged with the letter "J." Undetected analytes were reported as null and flagged with the letter, "U." Analytes marked with a "B" were detected in the associated blank and should be reviewed for a possible positive bias. No deviations were thought significant enough to compromise the integrity of the reported values.

**Holding Times**

Samples MW-26 (20-22) NAPL and MW-26 (12-14) NAPL were extracted 27 days after sample collection. This is 20 days outside of the recommended 7-day holding time for VOCs in soils. Sample CMW-35 (9-11) NAPL was extracted within the recommended 7-day holding time. The samples and extracts were stored at 4°C ± 2°C prior to extraction and analysis. The extracts were analyzed within 40 days of sample preparation.

**Surrogate Spikes**

Extraction surrogates were added to all samples prior to extraction. All surrogate compounds were recovered within the 50%-120% acceptable criterion with the following exceptions:

Toluene-d8 was over-recovered in sample MW-26 (12-14) NAPL and its duplicate extraction, most likely due to matrix interference.

**Blanks**

Various MAHs and PAHs were detected below or just above the reporting limit (RL) in soil blank QC110921-SB. These compounds were detected in the field samples at much higher relative concentrations (greater than 10x the blank levels): no positive bias is expected.

**Blank Spikes**

A blank spike sample was extracted with each analytical batch. All spiked compounds were recovered within criteria with the following exceptions:

Benzene was under-recovered in soil blank spike QC110921-SBS.

**Duplicates**

Sample MW-26 (12-14) NAPL was extracted and analyzed in duplicate. Relative percent differences are reported with the sample results in Appendix C.

**Internal Standards**

Internal standards were recovered within acceptable QC limits (50%-200%) relative to the continuing calibration standards.

# Interpretation

**Introduction**

Three soil samples were received by META from the Farrington St. site on September 19, 2011. The samples were analyzed for hydrocarbon fingerprint and an expanded list of MAHs and PAHs.

This report summarizes the findings and compares the samples.

**Sample-Specific Observations**

CMW-35 (9-11) NAPL

Sample CMW-35 (9-11) NAPL contained a mixture of pyrogenic and petrogenic materials (see definitions). The concentration of total $PAHs_{(42)}$ was 596 mg/kg, indicating that the sample contained PAHs from other sources in addition to general urban background.

The pyrogenic material was indicated by a wide range distribution of unsubstituted mono- and polycyclic aromatic hydrocarbons (MAHs & PAHs). The concentrations of MAHs, naphthalene, methylnaphthalenes, and other low molecular weight PAHs (LPAH) were low compared to 3-, 4-5-, and 6-ring PAHs (HPAHs). This suggests that the pyrogenic material has been subjected to substantial weathering. The ratio of fluoranthene to pyrene (F/P – Table 1) as well as the double ratio plots of dibenzofuran/fluorene (D/F) to F/P (Figure 1) and benzofluorenes/methylpyrenes (BF/MP) to F/P (Figure 2) shows that the pyrogenic material in this sample is similar to tars in META's reference library that were formed from manufactured gas plants (MGPs) utilizing carbureted water gas (CWG) processes.

The petrogenic material was indicated by an unresolved complex mixture (UCM) that eluted from about 10 minutes (C9 - nonane) to about 45 minutes (C34 – tetratriacontane) with a maximum at about 30 minutes (C20 – eicosane) in the GC/FID chromatogram (Appendix B). The UCM exhibited a biomodal baseline that may indicate the presence of a mixture of similar fuel types.

The presence of isoprenoid compounds including pristane and phytane as well as alkyl-

cyclohexane hydrocarbons and sesquiterpane petroleum biomarkers in the GC/MS extracted ion current profiles (EICPs - Appendix E) confirm that this material was produced from petroleum. Normal alkanes were absent from the sample, suggesting that the petrogenic material also experienced substantial environmentally induced degradation. Examples of common petroleum products with these features include some blended fuel oils such as No. 4 fuel oils, as well as mixed materials containing No. 2 fuel oils, gas oils, and other middle distillate fuels.

MW-26 (20-22) NAPL

Sample MW-26 (20-22) NAPL also contained both pyrogenic and petrogenic materials. In comparison with sample CMW-35 (9-11) NAPL, sample MW-26 (20-22) NAPL contained primarily pyrogenic material, with much lower relative amounts of a petrogenic material.

The pyrogenic material was indicated by the wide range distribution of unsubstituted PAHs, with the 3-ring PAHs most abundant. As in sample CMW-35 (9-11) NAPL, the concentrations of LPAHs were low compared to the HPAHs, suggesting that the sample has been subjected to substantial weathering. The ratio of F/P (Table 1) indicates the pyrogenic material in this sample is similar to tars in META's reference library that were formed from MGPs utilizing CWG processes. However, the double ratio plots of D/F to F/P (Figure 1) is substantially higher than CWG reference samples. This difference versus CWG references appears to be due to substantial microbial degradation, but could not be confirmed.

The petrogenic material was indicated by a low concentration UCM in the GC/FID chromatogram. The presence of isoprenoid compounds including pristane and phytane as well as sesquiterpane petroleum biomarkers in the GC/MS EICPs confirms that this material was produced from petroleum. Normal alkanes were absent from the sample, suggesting that the petrogenic material had undergone substantial weathering. Examples of common petroleum products with these features include No. 2 fuel oils and gas oil.

MW-26 (12-14) NAPL

Sample MW-26 (12-14) NAPL contained a mixture of pyrogenic and petrogenic materials similar to what was found in sample CMW-35 (9-11) NAPL.

**Discussion**

The petrogenic and pyrogenic components found in samples CMW-35 (9-11) NAPL, MW-26 (20-22) NAPL, and MW-26 (12-14) NAPL are similar to other materials in samples from the Con-Edison - Farrington St. site. See results from sample delivery groups PA090421, PA090514, PA090520 and PA090711.

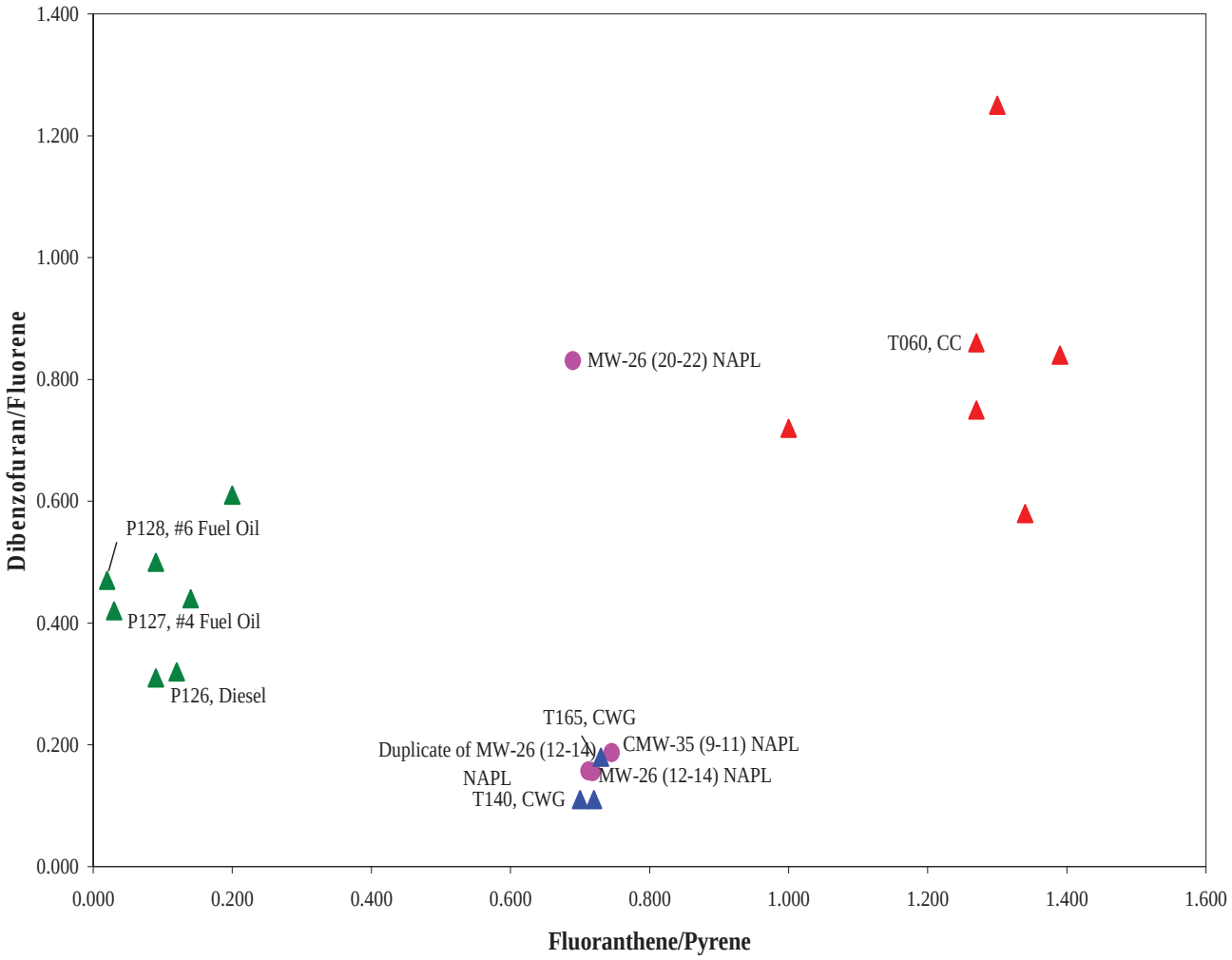
## Table 1. Selected Source and Weathering Ratios

| Field ID | Fl/Py | D/F | C17/Pri | C18/Phy | Pri/Phy | C3D/C3PA | C2D/C2PA | BF/MP |
|---|---|---|---|---|---|---|---|---|
| CMW-35 (9-11) NAPL | 0.745 | 0.187 | NC | NC | 1.404 | 0.382 | 0.241 | 0.352 |
| MW-26 (20-22) NAPL | 0.690 | 0.831 | NC | NC | 1.254 | 0.364 | 0.243 | 0.334 |
| MW-26 (12-14) NAPL | 0.718 | 0.156 | 0.055 | NC | 1.492 | 0.424 | 0.275 | 0.346 |
| Dup of MW-26 (12-14) NAPL | 0.712 | 0.157 | 0.058 | NC | 1.500 | 0.423 | 0.274 | 0.337 |

**Ratios:**

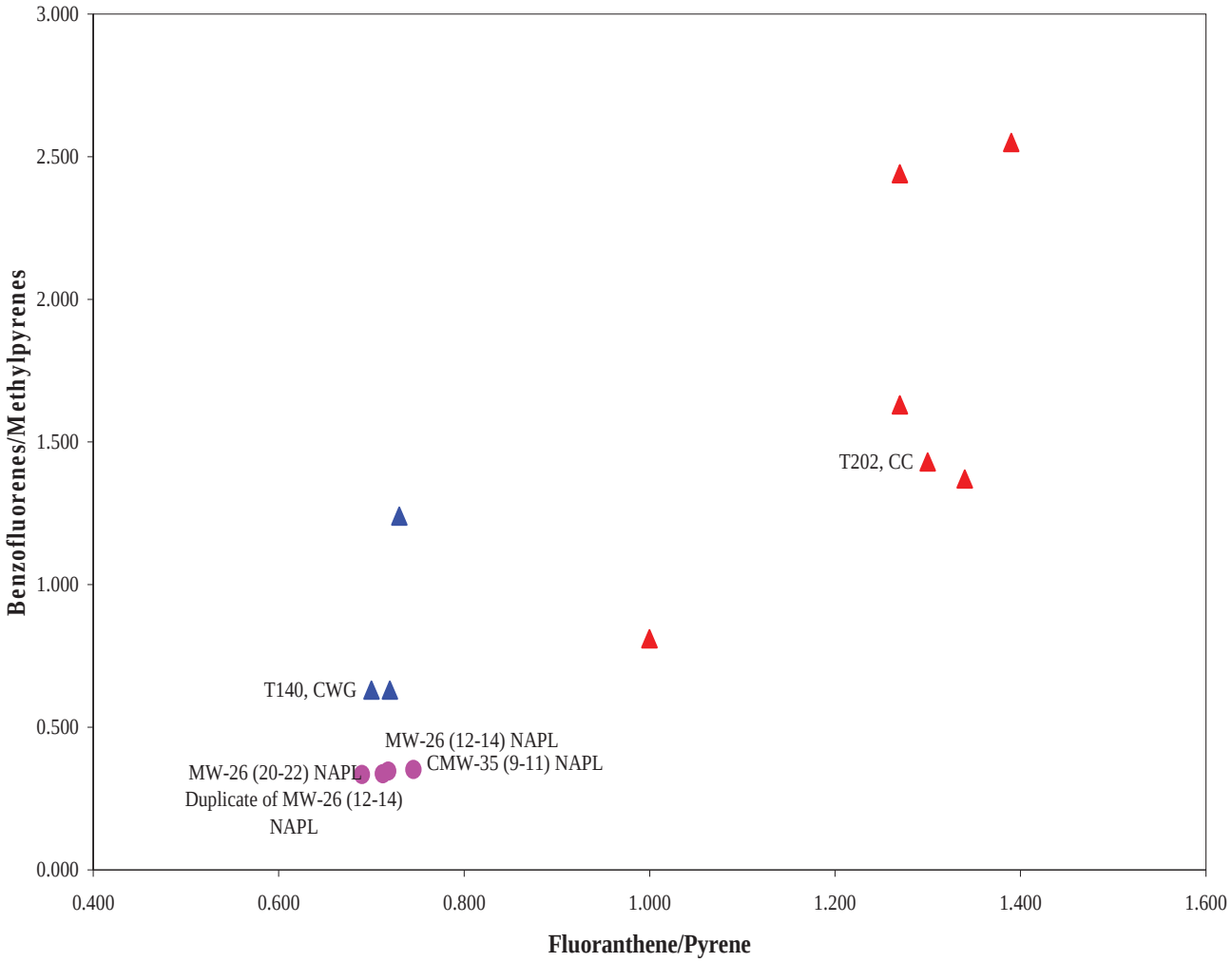
| | |
|---|---|
| Fl/Py | fluoranthene/pyrene |
| D/F | dibenzofuran/fluorene |
| C17/Pris | heptadecane/pristane |
| C18/Phy | octadecane/phytane |
| Pris/Phy | pristane/phytane |
| C3D/C3PA | trialkyldibenzothiophenes/trialkylphenanthrenes/anthracenes |
| C2D/C2PA | dialkyldibenzothiophenes/dialkylphenanthrenes/anthracenes |
| BF/MP | benzofluorenes/methylpyrenes |
| NC | Not calculable |

**Figure 1. Selected Diagnostic Ratios – Fl/Py v. D/F**




TXXX Tar Sample from META's in house source library
CC Coal Carbonization Tar
CO Coke Oven Tar
CR Creosote
CWG Carbureted Water Gas Tar
● Field Samples

## Figure 2. Selected Diagnostic Ratios – Fl/Py v. BF/MP




TXXX Tar Sample from META's in house source library
CC Coal Carbonization Tar
CO Coke Oven Tar
CR Creosote
CWG Carbureted Water Gas Tar
● Field Samples

# Sources of MAHs and PAHs in the Environment

Aromatic hydrocarbons include monocyclic aromatic hydrocarbons (MAHs) such as benzene, toluene, xylenes, and alkylated benzenes, and polycyclic aromatic hydrocarbons (PAHs) such as naphthalene, phenanthrene, and pyrene. MAHs and PAHs originate from many sources and are ubiquitous in the environment. This section briefly reviews the sources of MAHs and PAHs in urban soils and sediment.

Crude petroleum, many of its refined products, coal, coal tar, and many coal tar products consist primarily of hydrocarbons. Hydrocarbons are organic molecules that are made up of only carbon and hydrogen atoms. Some simple hydrocarbons include hexane and benzene. There are several types of hydrocarbons that are commonly grouped by similar chemical structures, such as alkanes, cyclic alkanes, and aromatic hydrocarbons.

MAHs and PAHs are one group of hydrocarbons that are present at high relative amounts in crude oil, coal, coal tar, and many of their products. In environmental forensic chemistry and geochemistry, MAHs and PAHs are placed in subgroups according to their origins. These groups include *diagenic*, or recently produced; *petrogenic*, produced at relatively low temperatures over long periods of time; and *pyrogenic*, produced at high temperatures with a shortage of oxygen. *Petrogenic* MAHs and PAHs are those found in crude oil and similar materials. *Pyrogenic* MAHs and PAHs are those found in coal tar and related substances, and from the incomplete combustion of organic matter.

Some MAHs and PAHs can be formed by natural biological and chemical processes at ambient temperatures. When present, these MAHs and PAHs are found at very low concentrations. Further, these MAHs and PAHs are rarely the subjects of environmental investigations and few, if any, are regulated.

MAHs and PAHs also can be formed at relatively low temperatures. In particular, crude oils contain MAHs and PAHs that formed over millions of years at temperatures as low as 100°C to 150°C. MAHs and PAHs formed during crude oil maturation and similar processes are called ***petrogenic***. Similarly, coal was formed at low temperatures over long periods of time and therefore is included in the petrogenic group. Both crude oil and coal contain hundreds of different MAH and PAH compounds, including many that are the subject of environmental investigations and are regulated.

***Petrogenic*** MAHs and PAHs have been released into urban environments from numerous anthropogenic sources over the past two centuries. For example, it has been a common practice to spray roads with oil to manage dust. Asphalt is produced from petroleum and the small particles that are created as roads wear away contain PAHs. Cars and trucks drip fuels and lubricating oils that contain petrogenic MAHs and PAHs. Many industries have stored and ultimately spilled petroleum products that range from gasoline to heavy oils. Further, the potential impacts from coal cannot be ignored. For many years, residential and commercial buildings were heated with coal and small amounts of coal and coal dust accumulated wherever coal was handled. All of these sources of petrogenic PAHs, and many others, contributed to a pervasive background of PAHs in urban settings. Because many releases occurred years ago at

unanticipated locations and because soil was moved around as the urban environment expanded and was modified for various uses, it is difficult to predict where and at what levels MAHs and PAHs might be found.

Finally, MAHs and PAHs are formed whenever organic substances are exposed to high temperatures under low oxygen or no oxygen conditions in a process called ***pyrolysis***. Pyrolytic processes occur intentionally, such as in the destructive distillation of coal into coke and coal tar, or the thermal cracking of petroleum residuals into lighter hydrocarbons and oil tar. Similar processes occur unintentionally, such as the incomplete combustion of motor fuels in cars and trucks, the incomplete combustion of wood in forest fires and fireplaces, and the incomplete combustion of fuel oils in heating systems. These processes occur at temperatures that range from about 350°C to more than 1200°C, and their products are called ***pyrogenic***.

Like petrogenic MAHs and PAHs, pyrogenic MAHs and PAHs have been released into urban environments from numerous sources. These include some obvious sources, such as building fires and industrial smoke stacks. They also include less obvious sources, such as debris from coal tar-treated roofing and building materials. The incomplete combustion of gasoline and diesel fuel in cars, trucks, and buses produces substantial amounts of pyrogenic MAHs and PAHs that attach to small particles and accumulate along roadsides. Any commerical or industrial facility that utilized high temperatures in their operation probably produced MAHs and PAHs. These included such industries as foundries, steel mills, coke plants, smelters, and others. Similar to petrogenic MAHs and PAHs, pyrogenic MAHs and PAHs accumulated in soil and sediment and are found throughout all urban areas.

Pyrogenic MAHs and PAHs often are further classified as coal tar-derived, oil tar-derived, and combustion-derived. Several rules of thumb have been developed over the past 20 years or so based on detailed analyses of reference samples and sampling and analysis of “background” samples. The following section briefly summarizes the compositional characteristics of petrogenic and pyrogenic substances that are used to identify and attribute MAHs and PAHs to specific sources.

**Composition of Pyrogenic and Petrogenic Materials**

Both pyrogenic and petrogenic sources of MAHs and PAHs have been found to contain hundreds of individual MAHs and PAH compounds in generally predictable patterns. For example, it is known that the temperature of formation of MAHs and PAHs largely determines the distribution of the various parent and alkylated PAHs. Variations in these MAH and PAH distributions are measured using gas chromatography (GC) methods, particularly GC/MS. Of particular importance to environmental forensic chemistry is the fact that petrogenic and pyrogenic substances from different sources can have measurably different amounts of MAHs and PAHs. For example, crude oils from different reservoirs can exhibit notably different ratios of trialkylated dibenzothiophenes to trialkylated phenanthrenes. Similarly, the ratio of dialkylated chrysene to chrysene varies among certain pyrogenic sources. Consequently, the determination of PAH profiles forms an important component of environmental forensic studies where hydrocarbon releases, either petrogenic or pyrogenic, are known or suspected to be involved.

In addition to MAHs and PAHs, pyrogenic and petrogenic substances can contain paraffinic

hydrocarbons, olefinic hydrocarbons, naphthenic hydrocarbons, and other types of compounds. The presence and relative amounts of these compounds also is used to identify the nature and source of hydrocarbon-based materials in environmental samples.

**Description of Chemical Fingerprinting Methodology**

PAHs commonly form the basis for source attribution and allocation at sites involving petrogenic or pyrogenic materials. Studies have shown that the pattern of PAHs clearly distinguishes petrogenic from pyrogenic substances and can be used to identify and classify petrogenic or pyrogenic substances of different origins. For example, ASTM Method D 5739-06 is the method used extensively by the U.S. Coast Guard to determine the source of oil spilled in public waterways. That method relies on the determination of selected PAHs and alkylated PAHs in oil, soil, or water samples by gas chromatography with mass spectrometric detection (GC/MS) and the use of the qualitative patterns and quantitative ratios of those PAHs to determine which oil samples have a common origin. Similarly, work by META Environmental, Inc. (META) has shown that the same methodology can be used to identify the sources of PAHs at former MGP sites, coke plants, tar refineries and wood treating facilities (among others). Further, META has modified the typical sample preparation and analysis procedures for hydrocarbon fingerprinting to include MAHs and other diagnostic compounds, as well as PAHs.

The following is a more detailed discussion of the forensic methods used by META is presented in the next subsection as background.

GC/FID Fingerprinting

Typically, soil samples are analyzed by gas chromatography with flame ionization detection (GC/FID) as part of any forensic study of hydrocarbon releases. With GC/FID, organic compounds in a sample are vaporized and then separated in a long, narrow fused silica capillary column. Separation follows boiling point approximately with the most volatile compounds exiting the column first followed by increasingly less volatile compounds. Therefore, certain refined petroleum products, generated by the distillation of crude oil and which differ in their boiling point ranges, are distinguishable by where they appear on a chromatogram. Once they exit the column, the compounds are detected using the flame ionization technique. As the compounds exit and are detected, their responses are recorded and shown as peaks on a continuous plot. The height and area of a peak are proportional to the concentration of that compound in the sample. When done in a controlled and reproducible manner, the GC/FID method produces a “fingerprint” of a sample where the presence and relative amounts of the compounds are immediately visible as peaks of varying height appearing at different times.

GC/FID methods are commonly used for fingerprinting in a number of forensic fields. The patterns of individual peaks and the sizes and shapes of any baseline features are examined qualitatively for similarities and differences among samples.

The instrumental conditions for the GC/FID analyses conducted by META have been adjusted so that compounds with boiling points between about hexane (C6) and n-tetracontane (C40) are detectable in one analytical run. This range includes most of the VOCs and all of the SVOCs commonly measured in environmental investigations. In particular, it includes benzene, toluene, ethylbenzene, xylenes, and the 16 priority pollutant PAHs that comprise a major portion of tars

and other pyrogenic substances. It also includes the range of compounds that are measurable in pyrogenic substances by gas chromatographic methods. Finally, META's GC/FID conditions detect most of the constituents of gasoline, as well as all of the constituents of higher boiling petroleum products (e.g., kerosene, diesel, refined oils).

Source identification using GC/FID is mostly qualitatively applied. An experienced chemist examines the chromatograms, compares them to those of reference materials, and makes a judgment regarding the nature and source of the contamination in the sample. The chemist might go "peak-by-peak" looking for similarities and differences, comparing peak ratios, and looking for indicator compounds.

For some samples, GC/FID fingerprinting is accurate and sufficient. However, the reliability of GC/FID fingerprinting decreases when multiple sources are present in a sample and when the sample composition becomes extensively altered by environmental weathering processes. Other testing methods, such as GC/MS, are complementary for source identification under these conditions.

Extended PAH Profiles (EPPs) by GC/MS

Typically, soil, water, and NAPL samples also are analyzed by GC/MS as part of any forensic study of hydrocarbon releases. META has modified the EPA Method 8270 conditions to include an expanded list of MAHs and PAHs (we call this target compound list, Expanded PAH Profiles or EPPs). Separation is accomplished with gas chromatography using a method similar to the GC/FID method discussed previously. However, in GC/MS, once compounds exit the column, they are detected using a mass spectrometer. In the mass spectrometer, the molecules of each compound are ionized at high temperature and vacuum. The ionic fragments are unstable and fragment into smaller ions. The ions are then counted and the mass spectrum recorded. Thus, the mass spectrum for a compound is the pattern of ionic fragments that forms when that compound is ionized. Mass spectra vary widely and are characteristic of their source compound. For example, the mass spectrum of hexane is very different from the mass spectrum of benzene even though both compounds contain six carbon atoms plus hydrogen atoms.

In GC/MS, one obtains both a chromatogram of peaks and additional compound-specific information in the mass spectrum. When executed in a controlled and reproducible manner, the GC/MS method produces multiple "fingerprints" of a sample when specific fragment ions are isolated.

GC/MS is utilized in two general ways in environmental forensic chemistry. First, samples are analyzed under the conditions required by various standard methods, particularly EPA Methods 8260 and 8270 (U.S. EPA SW-846). The concentrations of certain target compounds are determined and the mass spectrum of each peak in the chromatogram is generated and stored. These mass spectra can be used to identify non-target compounds or to generate extracted ion current profiles (EICPs). Second, various specialty methods are utilized where the GC/MS operating conditions are setup to measure only certain groups of compounds. For example, the method described in 40 CFR Subchapter J Part 300 Subpart L Appendix C for PAHs, alkylated PAHs, and biomarkers is used extensively in oil spill and UST release analyses. This method is similar to ASTM Method D 5739-06, "Standard Practice for Oil Spill Source Identification by Gas Chromatography and Positive Ion Electron Impact Low Resolution Mass Spectrometry."

GC/MS data are used both qualitatively and quantitatively. An experienced chemist examines the chromatograms, compares them to those of reference materials, and makes judgments regarding the nature and source of the contamination in the sample. The chemist might go "peak-by-peak" looking for similarities and differences, comparing peak ratios, and looking for indicator compounds. This process is described in detail in ASTM Method D 5739-06.

GC/MS data are more commonly used quantitatively by calculating the concentrations of selected compounds, by comparing compound ratios, or by applying chemometric or pattern recognition techniques to the raw or adjusted data. These data analysis methods are used extensively with EPPs and with biomarker compound data. Various degrees of statistical confidence can be achieved by examining chemical concentrations and compound ratios or patterns from multiple samples and replicate samples. This characteristic of GC/MS quantitative data is particularly valuable when assessing the degree of similarity or difference between samples, particularly when multiple sources of hydrocarbons are present in the sample or when environmental weathering has altered the original distributions of hydrocarbons.

Finally, the GC/MS data can be examined to determine whether any diagnostic or indicator chemicals are present in the sample. Further, unknown compounds can be identified and their presence used as clues to the source(s) of the chemicals.

META's GC/MS method quantifies a relatively large list of MAHs, including many individual alkylated benzenes, PAHs, alkylated PAHs, several sulfur- and oxygen-containing compounds, and several common petroleum biomarker compounds. These data are used to generate bar graphs, compound ratios, double ratio plots, and other diagnostic and display methods. Also, we generate certain extracted ion current profiles (EICPs) for selected compounds and compound groups of forensic value. For example, the EICPs for selected "biomarker" compounds including normal alkanes, isoprenoid hydrocarbons, alkylcyclohexanes, triterpanes and steranes are shown on the first page of the EICP report for each sample. These compound groups are commonly used in hydrocarbon source identifications and weathering evaluations. For example, the estimated boiling point range of a refined petroleum product, as indicated by the location of the alkanes and unresolved complex mixture (UCM) on the chromatogram, can be used to determine whether the material is kerosene, diesel, No. 6 fuel oil, or some other product. Similarly, triterpanes and steranes are known to be present in crude oils and some refined petroleum products, but not found in coke oven tars and rarely found in MGP tars. Therefore, the presence of triterpanes and steranes is monitored to confirm and refine the petrogenic verses pyrogenic assessment conducted with the PAH profiles.

## Definitions

Pyrogenic substances are complex mixtures of primarily hydrocarbons produced from organic matter subjected to high temperatures but with insufficient oxygen for complete combustion. Pyrogenic materials are produced by fires, internal combustion engines, and furnaces. They also are formed when coke or gas are produced from coal or oil. Coal-tar based products, such as roofing, pavement sealers, waterproofing, pesticides, and some shampoos contain pyrogenic materials.

Petrogenic substances include crude oil and crude oil derivatives such as gasoline, heating oil, and asphalt.

Pitch is the semi-solid or solid material consisting of high molecular weight hydrocarbons that remain following coal tar distillation.

## References

McNicoll, D., Tousignant, L.P., Augustine, P. "Facts and Fallacies: Petroleum Degradation in a Subsurface Environment." Contaminated Soil Sediment and Water, 17-21, June,July 2001

"Chemical Fingerprinting of Hydrocarbons," in: Introduction to Environmental Forensics. B.L. Murphy and R.D. Morrison editors, Academic Press, San Diego, CA 2002.

Mauro, D.M., "Chemical Source Attribution at former MGP Sites," EPRI Report 1000728, December 2000.

# Appendix A

# Chain of Custody

# CHAIN OF CUSTODY RECORD

**PROJECT** Farrington St.
**CONTACT** Shane Blauvelt
**COMPANY** Parsons
**ADDRESS** 301 Plainfield Rd.
Syracuse, NY 13212
**EMAIL** Shane.blauvelt@parsons.com
**PHONE** 315-552-9625 **FAX** 315-451-9570
**SAMPLED BY**
Print Name Fabian Lacy Sign

**Turn Around Time**
Standard [X]
If Authorized *
1 Week [ ]
Other [ ] ____

**META Environmental, Inc.**
49 Clarendon St. - Watertown, Massachusetts - 02472
Tel (617) 923-4662 - Fax (617) 923-4610 - www.metaenv.com

| Samp # | Date | Time | Field Sample ID | Container Size | Container G/P | Grab | Composite | # of Containers | Matrix | Preserv. | Parameters: Hydrocarbon Fingerprint Method 8100 Modified | Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 9/14/11 | 0955 | CMW-35 (9-11) NAPL | 4oz | | ✓ | | 1 | Soil | | X | LAB ID: PA110919-1 |
| | 8/25/11 | 1155 | MW-26 (20-22) NAPL | 4oz | | ✓ | | 1 | Soil | | X | -2 |
| | 8/25/11 | 1120 | MW-26 (12-14) NAPL | 4oz | | ✓ | | 1 | Soil | | X | -3 |

| Relinquished by | Date & Time | Relinquished by | Date & Time | Relinquished by | Date & Time |
|---|---|---|---|---|---|
| (FedEx) | 9/16/11 1800 | | | | |
| **Received by** | **Date & Time** | **Received by** | **Date & Time** | **Received by** | **Date & Time** |
| | 9/19/11 8:30 am | | | | |

Shipping Info.

Remarks

Temp °C 14.6

* Surcharges may apply

**META Environmental, Inc.**

Sample Receipt Log

| Lab ID | Field ID | Matrix | Date Sampled | Date Received | Project # | Container | Comments | Client Name | Project Name |
|---|---|---|---|---|---|---|---|---|---|
| PA110919-01 | CMW-35 (9-11) NAPL | Soil | 9/14/2011 | 9/19/2011 | P06011-60 | 1 x 4 oz jar | | Parsons | Farrington St. |
| PA110919-02 | MW-26 (20-22) NAPL | Soil | 8/25/2011 | 9/19/2011 | P06011-60 | 1 x 4 oz jar | | Parsons | Farrington St. |
| PA110919-03 | MW-26 (12-14) NAPL | Soil | 8/25/2011 | 9/19/2011 | P06011-60 | 1 x 4 oz jar | | Parsons | Farrington St. |

Logged By: GB

Date: 9/19/11

Reviewed By: JH

Date: 9/21/11

META Environmental, Inc.

**Sample Receipt Checklist**

Receipt date: 9/19/11

Login date: 9/19/11

Login personnel: GB

**Client Information:.**

Company Name: Parsons

Project Manager: Shana Blauvet

Project Name: Farrington St.

**Shipping Information:**

How were samples received? (UPS) FedEx DHL Other:

Number of coolers: 1

Internal temperature of coolers: 14.6

Was ice present? Yes / (No) (melted)

*Note: if cooler is outside the 0-6° range, META's project manager should be notified.*

**Documentation:**

Was a Chain of Custody present? (Yes) / No

Was it signed? (Yes) / No

Was all project information present on the COC? (Yes) / No

Was a bill of lading or shipping label retained? Yes / (No)

**Sample Information:**

Number of sample containers: 3

Does this match the COC? (Yes) / No

Were all sample containers Intact? (Yes) / No

If no, list samples and problems:

*Note: if samples are damaged, META's project manager should be notified.*

For aqueous 40ml Voas; was headspace present? Yes / No / (NA)

**Comments:**

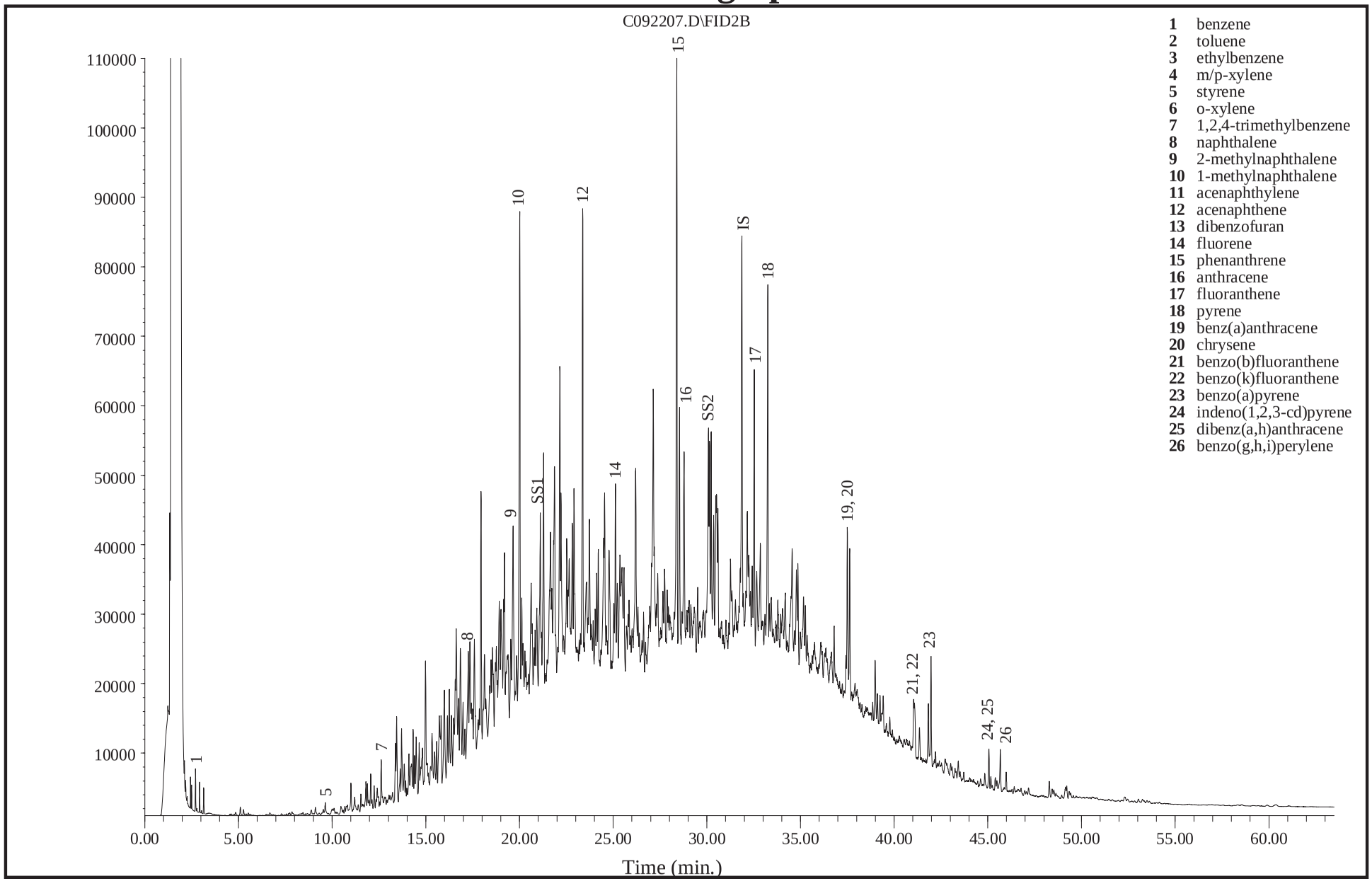
Custodian: GB

Project Manager:

# Appendix B

# GC/FID Fingerprints

# GC/FID Fingerprint

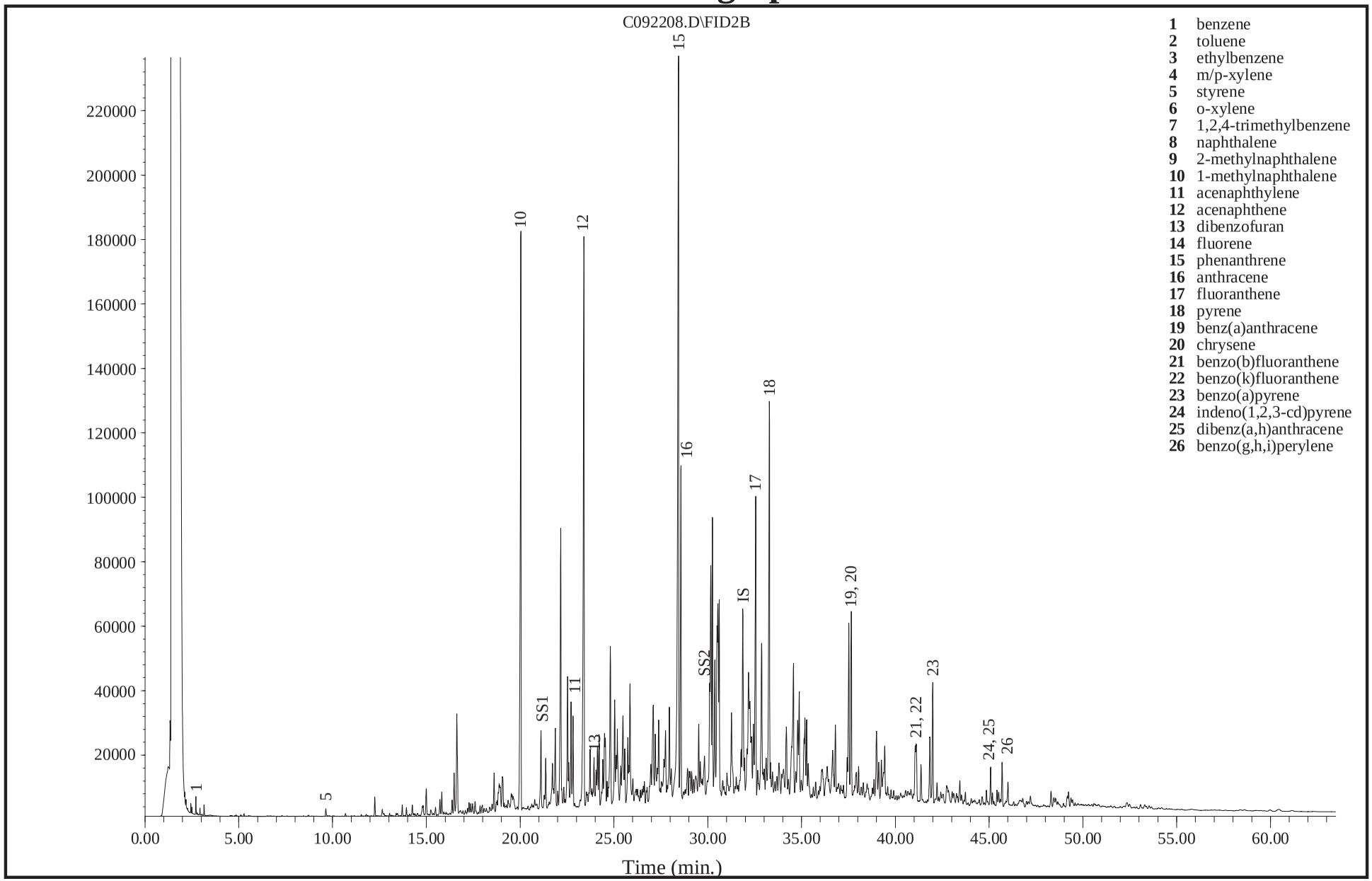



***Extraction Date: 09/21/2011***
***Analysis Date: 09/22/2011***

*IS – 5a-androstane*
*SS1 – 2-fluorobiphenyl*
*SS2 – o-terphenyl*

**Field ID:** **CMW-35 (9-11) NAPL**
Laboratory ID: PA110919-01
Method: EPA 8100M

# GC/FID Fingerprint

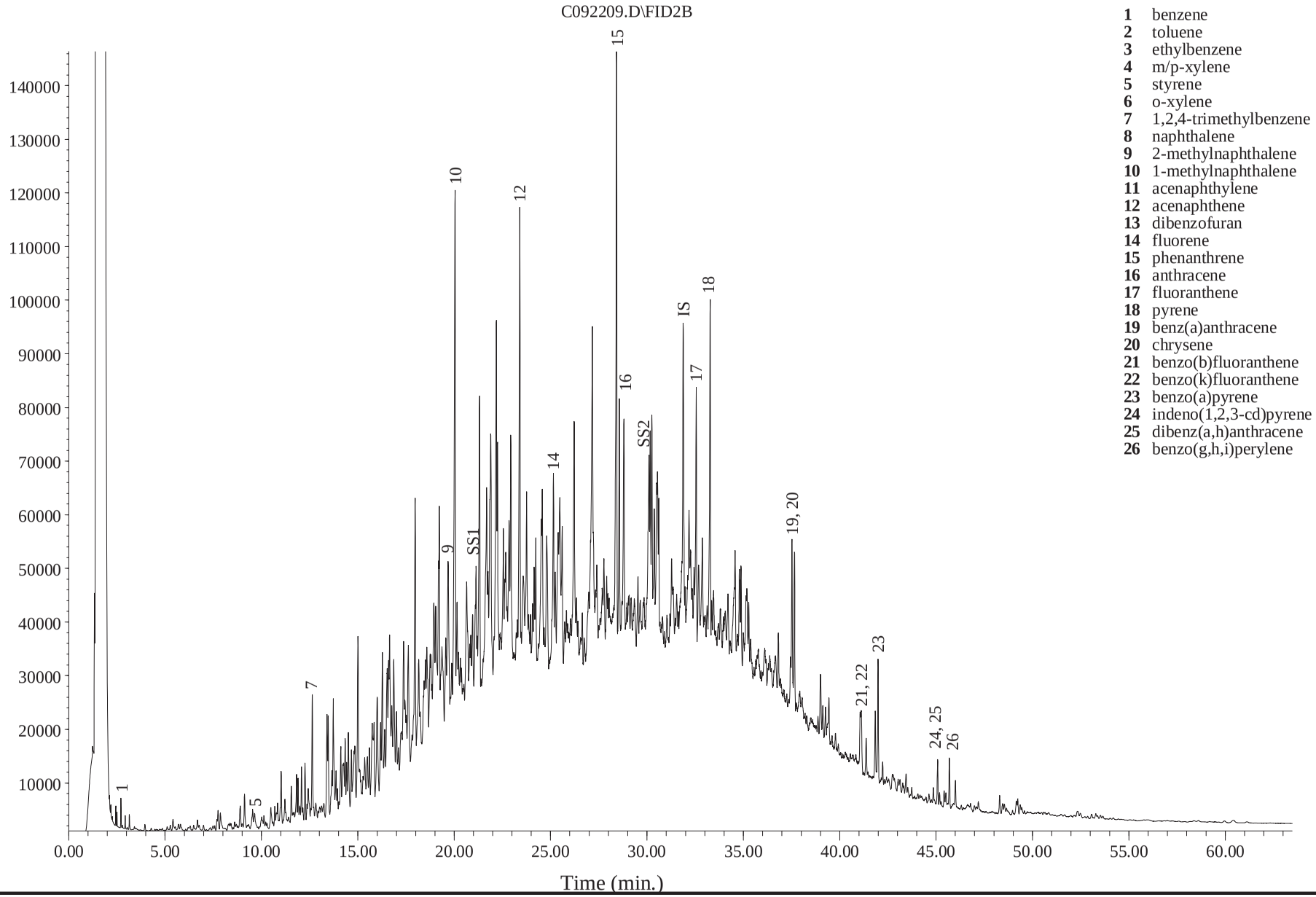



***Extraction Date: 09/21/2011***
***Analysis Date: 09/22/2011***

**Field ID:** **MW-26 (20-22) NAPL**
Laboratory ID: PA110919-02
Method: EPA 8100M

*IS – 5a-androstane*
*SS1 – 2-fluorobiphenyl*
*SS2 – o-terphenyl*

# GC/FID Fingerprint

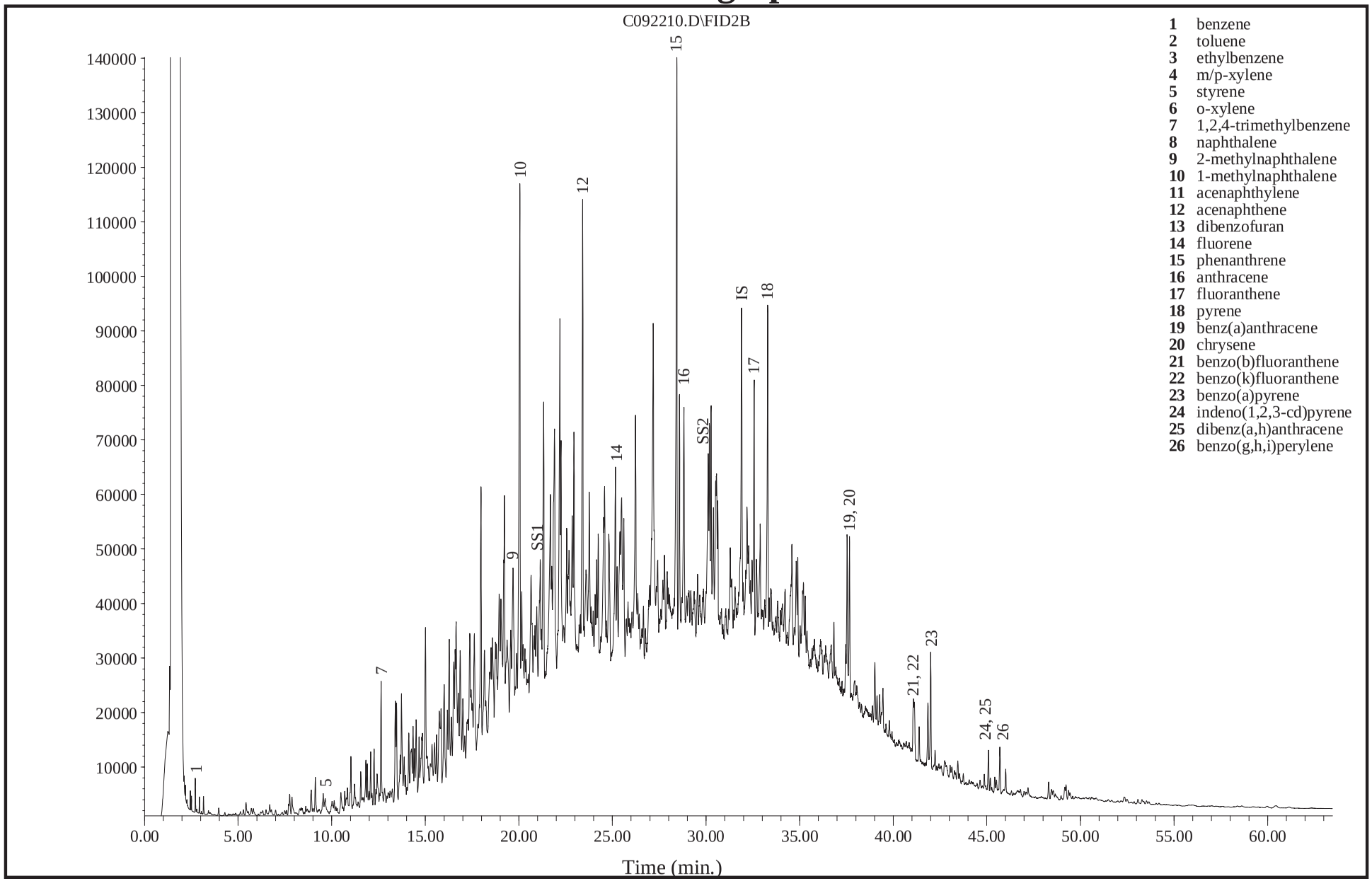



***Extraction Date: 09/21/2011***
***Analysis Date: 09/22/2011***

*IS – 5a-androstane*
*SS1 – 2-fluorobiphenyl*
*SS2 – o-terphenyl*

**Field ID:** **MW-26 (12-14) NAPL**
Laboratory ID: PA110919-03
Method: EPA 8100M

# GC/FID Fingerprint

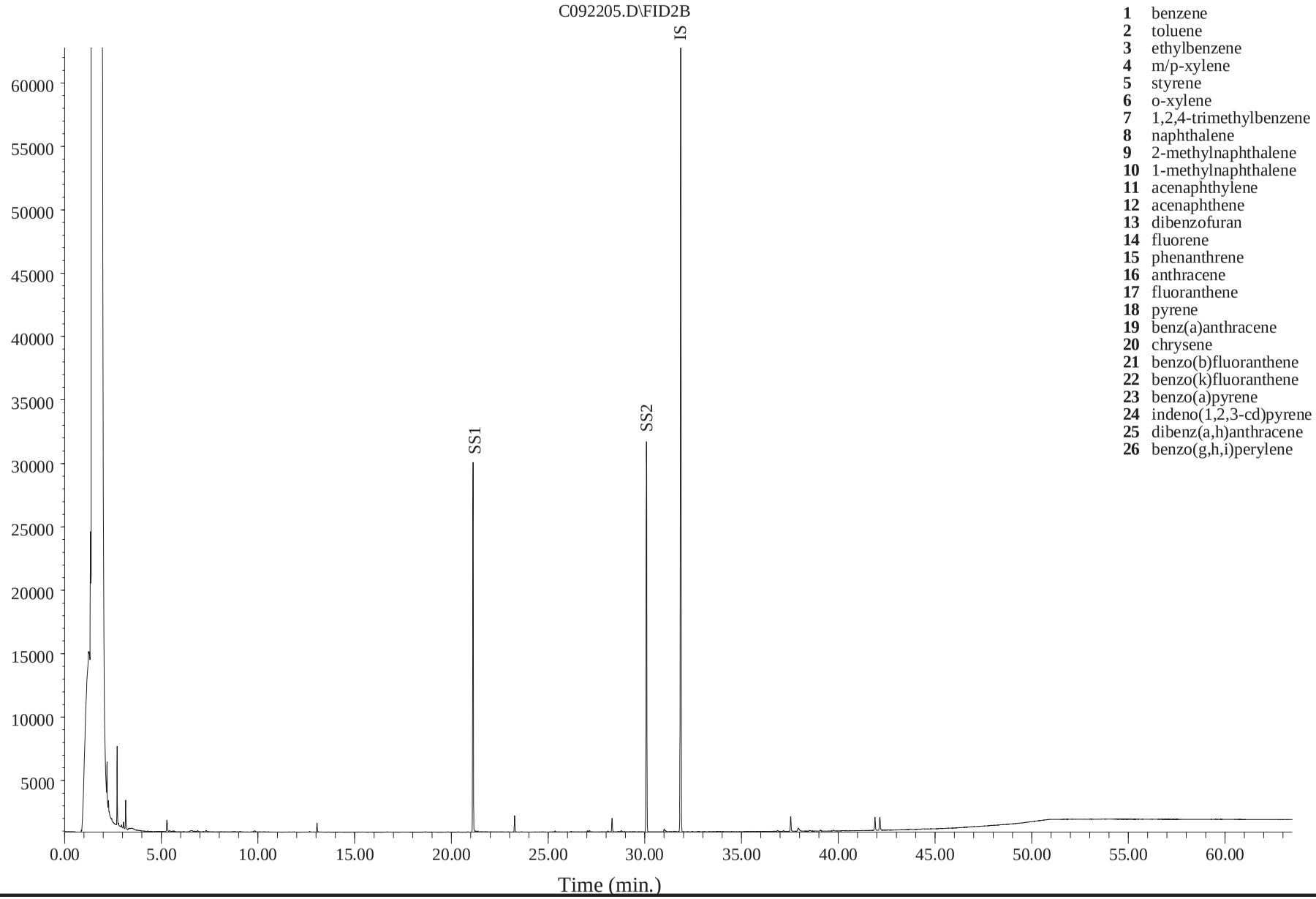



***Extraction Date: 09/21/2011***
***Analysis Date: 09/22/2011***

**Field ID:** **MW-26 (12-14) NAPL**
Laboratory ID: PA110919-03DUP
Method: EPA 8100M

*IS – 5a-androstane*
*SS1 – 2-fluorobiphenyl*
*SS2 – o-terphenyl*

# GC/FID Fingerprint




***Extraction Date: 09/21/2011***
***Analysis Date: 09/22/2011***

*IS – 5a-androstane*
*SS1 – 2-fluorobiphenyl*
*SS2 – o-terphenyl*

**Field ID:** **Soil Blank**
Laboratory ID: QC110921-SB
Method: EPA 8100M

# Appendix C

# MAH/PAH Concentrations

# Analytical Results for Volatile and Semivolatile Organics
## META Environmental, Inc.

**Field ID: CMW-35 (9-11) NAPL**

| | | | |
|---|---|---|---|
| Client: | Parsons | Preparation Method: | EPA 3570 |
| Project: | Farrington St. | Cleanup Method(s): | NA |
| | | Analysis Method: | EPA 8270M |
| Lab ID | PA110919-01-D2 | | |
| File ID: | G092820.D | Matrix: | Soil |
| | | Preservation: | None |
| Date Sampled: | 9/14/2011 | Decanted: | None |
| Date Received: | 9/19/2011 | | |
| Date Prepared: | 9/21/2011 | Sample Size (g): | 3.239 |
| Date Cleanup: | NA | Percent Solid: | 89.2% |
| Date Analyzed: | 9/29/2011 | Extract Volume (µl): | 2000 |
| Instrument: | GTO | Prep DF: | 1 |
| Operator: | CAM | Analysis DF: | 5 |
| | | Injection Volume (µl): | 1.00 |
| Batch QC: | QC110921-SB | | |

| Analyte | Concentration (mg/kg dry wt.) | | RL | EDL | Comments |
|---|---|---|---|---|---|
| MAH & PAH COMPOUNDS: | | | | | |
| Benzene | 0.186 | B | 0.069 | 0.035 | |
| Toluene | 0.223 | B | 0.069 | 0.035 | |
| Ethylbenzene | 0.058 | J | 0.069 | 0.035 | |
| m/p-Xylenes | 0.088 | | 0.069 | 0.035 | |
| Styrene | 3.02 | B | 0.069 | 0.035 | |
| o-Xylene | 0.094 | | 0.069 | 0.035 | |
| Isopropylbenzene | 0.464 | | 0.069 | 0.035 | |
| n-Propylbenzene | 0.282 | | 0.069 | 0.035 | |
| 1,3,5-Trimethylbenzene | 0.314 | | 0.069 | 0.035 | |
| 1,2,4-Trimethylbenzene | 3.01 | | 0.069 | 0.035 | |
| t-Butylbenzene | 0.428 | | 0.069 | 0.035 | |
| sec-Butylbenzene | 0.166 | | 0.069 | 0.035 | |
| p-Isopropyltoluene | 0.682 | | 0.069 | 0.035 | |
| n-Butylbenzene | 0.773 | | 0.069 | 0.035 | |
| C1 - Benzene | 0.327 | B | 0.069 | 0.035 | |
| C2 - Benzene | 0.221 | | 0.069 | 0.035 | |
| C3 - Benzene | 4.66 | | 0.069 | 0.035 | |
| C4 - Benzene | 16.7 | | 0.069 | 0.035 | |
| C5 - Benzene | 16.7 | | 0.069 | 0.035 | |
| trans-Decalin | 1.55 | | 0.069 | 0.035 | |
| cis-Decalin | 0.230 | | 0.069 | 0.035 | |
| Naphthalene | 6.6 | | 0.069 | 0.035 | |
| 2-Methylnaphthalene | 7.3 | B | 0.069 | 0.035 | |
| 1-Methylnaphthalene | 36.9 | B | 0.069 | 0.035 | |
| C1 - Naphthalene | 29.3 | B | 0.069 | 0.035 | |
| C2 - Naphthalene | 48.1 | | 0.069 | 0.035 | |
| C3 - Naphthalene | 36.0 | | 0.069 | 0.035 | |
| C4 - Naphthalene | 21.3 | | 0.069 | 0.035 | |
| Acenaphthylene | 5.45 | | 0.069 | 0.035 | |
| Acenaphthene | 32.4 | | 0.069 | 0.035 | |
| Dibenzofuran | 2.68 | | 0.069 | 0.035 | |
| Fluorene | 14.3 | B | 0.069 | 0.035 | |
| C1 - Fluorene | 12.9 | B | 0.069 | 0.035 | |
| C2 - Fluorene | 13.8 | | 0.069 | 0.035 | |
| C3 - Fluorene | 9.86 | | 0.069 | 0.035 | |
| Phenanthrene | 48.5 | B | 0.069 | 0.035 | |
| Anthracene | 19.2 | | 0.069 | 0.035 | |

# Analytical Results for Volatile and Semivolatile Organics
# META Environmental, Inc.

## Field ID: CMW-35 (9-11) NAPL

| | | | |
|---|---|---|---|
| Client: | Parsons | Preparation Method: | EPA 3570 |
| Project: | Farrington St. | Cleanup Method(s): | NA |
| | | Analysis Method: | EPA 8270M |
| Lab ID | PA110919-01-D2 | | |
| File ID: | G092820.D | Matrix: | Soil |
| | | Preservation: | None |
| Date Sampled: | 9/14/2011 | Decanted: | None |
| Date Received: | 9/19/2011 | | |
| Date Prepared: | 9/21/2011 | Sample Size (g): | 3.239 |
| Date Cleanup: | NA | Percent Solid: | 89.2% |
| Date Analyzed: | 9/29/2011 | Extract Volume (µl): | 2000 |
| Instrument: | GTO | Prep DF: | 1 |
| Operator: | CAM | Analysis DF: | 5 |
| | | Injection Volume (µl): | 1.00 |
| Batch QC: | QC110921-SB | | |

| Analyte | Concentration (mg/kg dry wt.) | | RL | EDL | Comments |
|---|---|---|---|---|---|
| C1 - Phenanthrene/Anthracene | 48.1 | | 0.069 | 0.035 | |
| C2 - Phenanthrene/Anthracene | 32.8 | | 0.069 | 0.035 | |
| C3 - Phenanthrene/Anthracene | 14.8 | | 0.069 | 0.035 | |
| C4 - Phenanthrene/Anthracene | 5.6 | | 0.069 | 0.035 | |
| Dibenzothiophene | 4.16 | | 0.069 | 0.035 | |
| C1 - Dibenzothiophene | 6.67 | | 0.069 | 0.035 | |
| C2 - Dibenzothiophene | 7.92 | | 0.069 | 0.035 | |
| C3 - Dibenzothiophene | 5.66 | | 0.069 | 0.035 | |
| C4 - Dibenzothiophene | 2.46 | | 0.069 | 0.035 | |
| Benzo(b)naphtho(2,1-d)thiophene | 1.95 | | 0.069 | 0.035 | |
| Fluoranthene | 20.5 | | 0.069 | 0.035 | |
| Pyrene | 27.5 | | 0.069 | 0.035 | |
| C1 - Fluoranthene/Pyrene | 26.9 | | 0.069 | 0.035 | |
| C2 - Fluoranthene/Pyrene | 11.7 | | 0.069 | 0.035 | |
| C3 - Fluoranthene/Pyrene | 5.59 | | 0.069 | 0.035 | |
| Benz(a)anthracene | 13.3 | B | 0.069 | 0.035 | |
| Chrysene* | 12.2 | B | 0.069 | 0.035 | |
| C1 - Benz(a)anthracene/Chrysene | 10.6 | | 0.069 | 0.035 | |
| C2 - Benz(a)anthracene/Chrysene | 5.03 | | 0.069 | 0.035 | |
| C3 - Benz(a)anthracene/Chrysene | 2.14 | | 0.069 | 0.035 | |
| C4 - Benz(a)anthracene/Chrysene | 0.802 | | 0.069 | 0.035 | |
| Benzo(b)fluoranthene | 4.19 | B | 0.069 | 0.035 | |
| Benzo(j/k)fluoranthene | 5.18 | B | 0.069 | 0.035 | |
| Benzo(e)pyrene | 4.94 | B | 0.069 | 0.035 | |
| Benzo(a)pyrene | 8.67 | B | 0.069 | 0.035 | |
| Perylene | 1.17 | | 0.069 | 0.035 | |
| Indeno(1,2,3-cd)pyrene | 2.82 | B | 0.069 | 0.035 | |
| Dibenz(a,h)anthracene | 0.859 | B | 0.069 | 0.035 | |
| Benzo(g,h,i)perylene | 3.1 | B | 0.069 | 0.035 | |
| Coronene | 0.774 | | 0.069 | 0.035 | |
| Retene | 0.779 | | 0.069 | 0.035 | |
| Benzo(b/c)fluorenes | 3.83 | | 0.069 | 0.035 | |
| 2-Methylpyrene | 4.26 | | 0.069 | 0.035 | |
| 4-Methylpyrene | 3.12 | | 0.069 | 0.035 | |
| 1-Methylpyrene | 3.51 | | 0.069 | 0.035 | |
| Heptadecane | | BU | 0.069 | 0.035 | |
| Pristane | 28.5 | B | 0.069 | 0.035 | |
| Octadecane | | BU | 0.069 | 0.035 | |
| Phytane | 20.3 | B | 0.069 | 0.035 | |

# Analytical Results for Volatile and Semivolatile Organics
# META Environmental, Inc.

## Field ID: CMW-35 (9-11) NAPL

| | | | |
|---|---|---|---|
| Client: | Parsons | Preparation Method: | EPA 3570 |
| Project: | Farrington St. | Cleanup Method(s): | NA |
| | | Analysis Method: | EPA 8270M |
| Lab ID | PA110919-01-D2 | | |
| File ID: | G092820.D | Matrix: | Soil |
| | | Preservation: | None |
| Date Sampled: | 9/14/2011 | Decanted: | None |
| Date Received: | 9/19/2011 | | |
| Date Prepared: | 9/21/2011 | Sample Size (g): | 3.239 |
| Date Cleanup: | NA | Percent Solid: | 89.2% |
| Date Analyzed: | 9/29/2011 | Extract Volume (µl): | 2000 |
| Instrument: | GTO | Prep DF: | 1 |
| Operator: | CAM | Analysis DF: | 5 |
| | | Injection Volume (µl): | 1.00 |
| Batch QC: | QC110921-SB | | |

| Analyte | Concentration (mg/kg dry wt.) | RL | EDL | Comments |
|---|---|---|---|---|
| 2,6,10-trimethyldodecane | 14.2 | 0.069 | 0.035 | |
| 2,6,10-trimethyltridecane | 14.0 | 0.069 | 0.035 | |
| Norpristane | 14.9 B | 0.069 | 0.035 | |
| Total PAH (16) | 225 | 0.069 | 0.035 | |
| Total PAH (42) | 596 | 0.069 | 0.035 | |

| *Extraction Surrogate Recoveries (%)* | | Limits |
|---|---|---|
| Toluene-d8 | 72 | 50 - 120 |
| Phenanthrene-d10 | 88 | 50 - 120 |
| Benzo(a)pyrene-d12 | 87 | 50 - 120 |
| Perylene-d12 | 97 | 50 - 120 |

NA - Not applicable.
B - Analyte detected in the Blank.
J - Estimated value; detected between the RL and EDL.
U - Analyte not detected above EDL.
D - Analyte reported from a diluted extract.
E - Estimate, result detected above calibration range.
I - Concentration/Peak ID uncertain due to potential interference.
RL - Reporting limit is the sample equivalent of the lowest linear calibration concentration.
EDL - Estimated detection limit is 50% of RL.
* - Triphenylene is known to coelute with this compound.

# Analytical Results for Volatile and Semivolatile Organics
META Environmental, Inc.

## Field ID: MW-26 (20-22) NAPL

| | | | |
|---|---|---|---|
| Client: | Parsons | Preparation Method: | EPA 3570 |
| Project: | Farrington St. | Cleanup Method(s): | NA |
| | | Analysis Method: | EPA 8270M |
| Lab ID | PA110919-02-D | | |
| File ID: | G092631.D | Matrix: | Soil |
| | | Preservation: | None |
| Date Sampled: | 8/25/2011 | Decanted: | None |
| Date Received: | 9/19/2011 | | |
| Date Prepared: | 9/21/2011 | Sample Size (g): | 2.367 |
| Date Cleanup: | NA | Percent Solid: | 86.4% |
| Date Analyzed: | 9/27/2011 | Extract Volume (µl): | 2000 |
| Instrument: | GTO | Prep DF: | 1 |
| Operator: | CAM | Analysis DF: | 20 |
| | | Injection Volume (µl): | 1.00 |
| Batch QC: | QC110921-SB | | |

| Analyte | Concentration (mg/kg dry wt.) | | RL | EDL | Comments |
|---|---|---|---|---|---|
| MAH & PAH COMPOUNDS: | | | | | |
| Benzene | 0.176 | B | 0.098 | 0.049 | |
| Toluene | 0.228 | B | 0.098 | 0.049 | |
| Ethylbenzene | 0.262 | | 0.098 | 0.049 | |
| m/p-Xylenes | 0.150 | | 0.098 | 0.049 | |
| Styrene | 4.1 | B | 0.098 | 0.049 | |
| o-Xylene | 0.108 | | 0.098 | 0.049 | |
| Isopropylbenzene | 0.668 | | 0.098 | 0.049 | |
| n-Propylbenzene | 0.328 | | 0.098 | 0.049 | |
| 1,3,5-Trimethylbenzene | | U | 0.098 | 0.049 | |
| 1,2,4-Trimethylbenzene | 0.452 | | 0.098 | 0.049 | |
| t-Butylbenzene | 0.183 | | 0.098 | 0.049 | |
| sec-Butylbenzene | 0.070 | J | 0.098 | 0.049 | |
| p-Isopropyltoluene | 0.297 | | 0.098 | 0.049 | |
| n-Butylbenzene | 0.825 | | 0.098 | 0.049 | |
| C1 - Benzene | 0.295 | B | 0.098 | 0.049 | |
| C2 - Benzene | 0.410 | | 0.098 | 0.049 | |
| C3 - Benzene | 2.88 | | 0.098 | 0.049 | |
| C4 - Benzene | 11.0 | | 0.098 | 0.049 | |
| C5 - Benzene | 6.64 | | 0.098 | 0.049 | |
| trans-Decalin | 0.079 | J | 0.098 | 0.049 | |
| cis-Decalin | | U | 0.098 | 0.049 | |
| Naphthalene | 0.669 | | 0.098 | 0.049 | |
| 2-Methylnaphthalene | 0.298 | B | 0.098 | 0.049 | |
| 1-Methylnaphthalene | 136 | B | 0.098 | 0.049 | |
| C1 - Naphthalene | 89.8 | B | 0.098 | 0.049 | |
| C2 - Naphthalene | 81.0 | | 0.098 | 0.049 | |
| C3 - Naphthalene | 57.1 | | 0.098 | 0.049 | |
| C4 - Naphthalene | 18.8 | | 0.098 | 0.049 | |
| Acenaphthylene | 30.6 | | 0.098 | 0.049 | |
| Acenaphthene | 129 | | 0.098 | 0.049 | |
| Dibenzofuran | 6.0 | | 0.098 | 0.049 | |
| Fluorene | 7.22 | B | 0.098 | 0.049 | |
| C1 - Fluorene | 44.6 | B | 0.098 | 0.049 | |
| C2 - Fluorene | 33.6 | | 0.098 | 0.049 | |
| C3 - Fluorene | 13.4 | | 0.098 | 0.049 | |
| Phenanthrene | 220 | B | 0.098 | 0.049 | |
| Anthracene | 77.7 | | 0.098 | 0.049 | |

# Analytical Results for Volatile and Semivolatile Organics
## META Environmental, Inc.

**Field ID: MW-26 (20-22) NAPL**

| | | | |
|---|---|---|---|
| Client: | Parsons | Preparation Method: | EPA 3570 |
| Project: | Farrington St. | Cleanup Method(s): | NA |
| | | Analysis Method: | EPA 8270M |
| Lab ID | PA110919-02-D | | |
| File ID: | G092631.D | Matrix: | Soil |
| | | Preservation: | None |
| Date Sampled: | 8/25/2011 | Decanted: | None |
| Date Received: | 9/19/2011 | | |
| Date Prepared: | 9/21/2011 | Sample Size (g): | 2.367 |
| Date Cleanup: | NA | Percent Solid: | 86.4% |
| Date Analyzed: | 9/27/2011 | Extract Volume (µl): | 2000 |
| Instrument: | GTO | Prep DF: | 1 |
| Operator: | CAM | Analysis DF: | 20 |
| | | Injection Volume (µl): | 1.00 |
| Batch QC: | QC110921-SB | | |

| Analyte | Concentration (mg/kg dry wt.) | | RL | EDL | Comments |
|---|---|---|---|---|---|
| C1 - Phenanthrene/Anthracene | 177 | | 0.098 | 0.049 | |
| C2 - Phenanthrene/Anthracene | 84.0 | | 0.098 | 0.049 | |
| C3 - Phenanthrene/Anthracene | 25.8 | | 0.098 | 0.049 | |
| C4 - Phenanthrene/Anthracene | 6.46 | | 0.098 | 0.049 | |
| Dibenzothiophene | 19.9 | | 0.098 | 0.049 | |
| C1 - Dibenzothiophene | 24.6 | | 0.098 | 0.049 | |
| C2 - Dibenzothiophene | 20.4 | | 0.098 | 0.049 | |
| C3 - Dibenzothiophene | 9.38 | | 0.098 | 0.049 | |
| C4 - Dibenzothiophene | 2.58 | | 0.098 | 0.049 | |
| Benzo(b)naphtho(2,1-d)thiophene | 6.78 | | 0.098 | 0.049 | |
| Fluoranthene | 63.4 | | 0.098 | 0.049 | |
| Pyrene | 91.9 | | 0.098 | 0.049 | |
| C1 - Fluoranthene/Pyrene | 95.2 | | 0.098 | 0.049 | |
| C2 - Fluoranthene/Pyrene | 34.3 | | 0.098 | 0.049 | |
| C3 - Fluoranthene/Pyrene | 11.6 | | 0.098 | 0.049 | |
| Benz(a)anthracene | 39.2 | B | 0.098 | 0.049 | |
| Chrysene* | 39.8 | B | 0.098 | 0.049 | |
| C1 - Benz(a)anthracene/Chrysene | 30.9 | | 0.098 | 0.049 | |
| C2 - Benz(a)anthracene/Chrysene | 11.2 | | 0.098 | 0.049 | |
| C3 - Benz(a)anthracene/Chrysene | 3.98 | | 0.098 | 0.049 | |
| C4 - Benz(a)anthracene/Chrysene | 1.04 | | 0.098 | 0.049 | |
| Benzo(b)fluoranthene | 10.8 | B | 0.098 | 0.049 | |
| Benzo(j/k)fluoranthene | 14.6 | B | 0.098 | 0.049 | |
| Benzo(e)pyrene | 14.3 | B | 0.098 | 0.049 | |
| Benzo(a)pyrene | 26.1 | B | 0.098 | 0.049 | |
| Perylene | 3.9 | | 0.098 | 0.049 | |
| Indeno(1,2,3-cd)pyrene | 8.27 | B | 0.098 | 0.049 | |
| Dibenz(a,h)anthracene | 2.46 | B | 0.098 | 0.049 | |
| Benzo(g,h,i)perylene | 8.88 | B | 0.098 | 0.049 | |
| Coronene | 2.33 | | 0.098 | 0.049 | |
| Retene | 1.29 | | 0.098 | 0.049 | |
| Benzo(b/c)fluorenes | 12.6 | | 0.098 | 0.049 | |
| 2-Methylpyrene | 13.0 | | 0.098 | 0.049 | |
| 4-Methylpyrene | 11.2 | | 0.098 | 0.049 | |
| 1-Methylpyrene | 13.5 | | 0.098 | 0.049 | |
| Heptadecane | | BU | 0.098 | 0.049 | |
| Pristane | 1.43 | B | 0.098 | 0.049 | |
| Octadecane | | BU | 0.098 | 0.049 | |
| Phytane | 1.14 | B | 0.098 | 0.049 | |

# Analytical Results for Volatile and Semivolatile Organics
## META Environmental, Inc.

## Field ID: MW-26 (20-22) NAPL

| | | | |
|---|---|---|---|
| Client: | Parsons | Preparation Method: | EPA 3570 |
| Project: | Farrington St. | Cleanup Method(s): | NA |
| | | Analysis Method: | EPA 8270M |
| Lab ID | PA110919-02-D | | |
| File ID: | G092631.D | Matrix: | Soil |
| | | Preservation: | None |
| Date Sampled: | 8/25/2011 | Decanted: | None |
| Date Received: | 9/19/2011 | | |
| Date Prepared: | 9/21/2011 | Sample Size (g): | 2.367 |
| Date Cleanup: | NA | Percent Solid: | 86.4% |
| Date Analyzed: | 9/27/2011 | Extract Volume (µl): | 2000 |
| Instrument: | GTO | Prep DF: | 1 |
| Operator: | CAM | Analysis DF: | 20 |
| | | Injection Volume (µl): | 1.00 |
| Batch QC: | QC110921-SB | | |

| Analyte | Concentration (mg/kg dry wt.) | RL | EDL | Comments |
|---|---|---|---|---|
| 2,6,10-trimethyldodecane | 0.798 | 0.098 | 0.049 | |
| 2,6,10-trimethyltridecane | 0.844 | 0.098 | 0.049 | |
| Norpristane | 1.12 B | 0.098 | 0.049 | |
| Total PAH (16) | 770 | 0.098 | 0.049 | |
| Total PAH (42) | 1,690 | 0.098 | 0.049 | |

| *Extraction Surrogate Recoveries (%)* | | Limits |
|---|---|---|
| Toluene-d8 | 63 | 50 - 120 |
| Phenanthrene-d10 | 73 | 50 - 120 |
| Benzo(a)pyrene-d12 | 69 | 50 - 120 |
| Perylene-d12 | 86 | 50 - 120 |

NA - Not applicable.
B - Analyte detected in the Blank.
J - Estimated value; detected between the RL and EDL.
U - Analyte not detected above EDL.
D - Analyte reported from a diluted extract.
E - Estimate, result detected above calibration range.
I - Concentration/Peak ID uncertain due to potential interference.
RL - Reporting limit is the sample equivalent of the lowest linear calibration concentration.
EDL - Estimated detection limit is 50% of RL.
* - Triphenylene is known to coelute with this compound.

# Analytical Results for Volatile and Semivolatile Organics
# META Environmental, Inc.

## Field ID: MW-26 (12-14) NAPL

| | | | |
|---|---|---|---|
| Client: | Parsons | Preparation Method: | EPA 3570 |
| Project: | Farrington St. | Cleanup Method(s): | NA |
| | | Analysis Method: | EPA 8270M |
| Lab ID | PA110919-03-D2 | | |
| File ID: | G092821.D | Matrix: | Soil |
| | | Preservation: | None |
| Date Sampled: | 8/25/2011 | Decanted: | None |
| Date Received: | 9/19/2011 | | |
| Date Prepared: | 9/21/2011 | Sample Size (g): | 3.125 |
| Date Cleanup: | NA | Percent Solid: | 86.4% |
| Date Analyzed: | 9/29/2011 | Extract Volume (µl): | 2000 |
| Instrument: | GTO | Prep DF: | 1 |
| Operator: | CAM | Analysis DF: | 5 |
| | | Injection Volume (µl): | 1.00 |
| Batch QC: | QC110921-SB | | |

| Analyte | Concentration (mg/kg dry wt.) | RL | EDL | Comments |
|---|---|---|---|---|
| MAH & PAH COMPOUNDS: | | | | |
| Benzene | 0.125 B | 0.074 | 0.037 | |
| Toluene | 0.145 B | 0.074 | 0.037 | |
| Ethylbenzene | 0.180 | 0.074 | 0.037 | |
| m/p-Xylenes | 0.085 | 0.074 | 0.037 | |
| Styrene | 3.49 B | 0.074 | 0.037 | |
| o-Xylene | 0.168 | 0.074 | 0.037 | |
| Isopropylbenzene | 1.93 | 0.074 | 0.037 | |
| n-Propylbenzene | 1.27 | 0.074 | 0.037 | |
| 1,3,5-Trimethylbenzene | 0.475 | 0.074 | 0.037 | |
| 1,2,4-Trimethylbenzene | 12.9 | 0.074 | 0.037 | |
| t-Butylbenzene | 1.59 | 0.074 | 0.037 | |
| sec-Butylbenzene | 0.441 | 0.074 | 0.037 | |
| p-Isopropyltoluene | 1.25 | 0.074 | 0.037 | |
| n-Butylbenzene | 1.74 | 0.074 | 0.037 | |
| C1 - Benzene | 0.311 B | 0.074 | 0.037 | |
| C2 - Benzene | 0.297 | 0.074 | 0.037 | |
| C3 - Benzene | 15.8 | 0.074 | 0.037 | |
| C4 - Benzene | 33.0 | 0.074 | 0.037 | |
| C5 - Benzene | 25.3 | 0.074 | 0.037 | |
| trans-Decalin | 3.1 | 0.074 | 0.037 | |
| cis-Decalin | 0.436 | 0.074 | 0.037 | |
| Naphthalene | 1.32 | 0.074 | 0.037 | |
| 2-Methylnaphthalene | 6.25 B | 0.074 | 0.037 | |
| 1-Methylnaphthalene | 65.1 B | 0.074 | 0.037 | |
| C1 - Naphthalene | 47.2 B | 0.074 | 0.037 | |
| C2 - Naphthalene | 88.1 | 0.074 | 0.037 | |
| C3 - Naphthalene | 57.6 | 0.074 | 0.037 | |
| C4 - Naphthalene | 31.4 | 0.074 | 0.037 | |
| Acenaphthylene | 9.63 | 0.074 | 0.037 | |
| Acenaphthene | 51.6 | 0.074 | 0.037 | |
| Dibenzofuran | 3.65 | 0.074 | 0.037 | |
| Fluorene | 23.4 B | 0.074 | 0.037 | |
| C1 - Fluorene | 18.6 B | 0.074 | 0.037 | |
| C2 - Fluorene | 20.4 | 0.074 | 0.037 | |
| C3 - Fluorene | 14.1 | 0.074 | 0.037 | |
| Phenanthrene | 76.9 B | 0.074 | 0.037 | |
| Anthracene | 28.2 | 0.074 | 0.037 | |

# Analytical Results for Volatile and Semivolatile Organics
## META Environmental, Inc.

**Field ID: MW-26 (12-14) NAPL**

| | | | |
|---|---|---|---|
| Client: | Parsons | Preparation Method: | EPA 3570 |
| Project: | Farrington St. | Cleanup Method(s): | NA |
| | | Analysis Method: | EPA 8270M |
| Lab ID | PA110919-03-D2 | | |
| File ID: | G092821.D | Matrix: | Soil |
| | | Preservation: | None |
| Date Sampled: | 8/25/2011 | Decanted: | None |
| Date Received: | 9/19/2011 | | |
| Date Prepared: | 9/21/2011 | Sample Size (g): | 3.125 |
| Date Cleanup: | NA | Percent Solid: | 86.4% |
| Date Analyzed: | 9/29/2011 | Extract Volume (µl): | 2000 |
| Instrument: | GTO | Prep DF: | 1 |
| Operator: | CAM | Analysis DF: | 5 |
| | | Injection Volume (µl): | 1.00 |
| Batch QC: | QC110921-SB | | |

| Analyte | Concentration (mg/kg dry wt.) | | RL | EDL | Comments |
|---|---|---|---|---|---|
| C1 - Phenanthrene/Anthracene | 72.0 | | 0.074 | 0.037 | |
| C2 - Phenanthrene/Anthracene | 46.6 | | 0.074 | 0.037 | |
| C3 - Phenanthrene/Anthracene | 20.1 | | 0.074 | 0.037 | |
| C4 - Phenanthrene/Anthracene | 7.53 | | 0.074 | 0.037 | |
| Dibenzothiophene | 7.25 | | 0.074 | 0.037 | |
| C1 - Dibenzothiophene | 11.3 | | 0.074 | 0.037 | |
| C2 - Dibenzothiophene | 12.8 | | 0.074 | 0.037 | |
| C3 - Dibenzothiophene | 8.52 | | 0.074 | 0.037 | |
| C4 - Dibenzothiophene | 3.48 | | 0.074 | 0.037 | |
| Benzo(b)naphtho(2,1-d)thiophene | 2.92 | | 0.074 | 0.037 | |
| Fluoranthene | 28.3 | | 0.074 | 0.037 | |
| Pyrene | 39.4 | | 0.074 | 0.037 | |
| C1 - Fluoranthene/Pyrene | 40.6 | | 0.074 | 0.037 | |
| C2 - Fluoranthene/Pyrene | 16.3 | | 0.074 | 0.037 | |
| C3 - Fluoranthene/Pyrene | 7.79 | | 0.074 | 0.037 | |
| Benz(a)anthracene | 18.6 | B | 0.074 | 0.037 | |
| Chrysene* | 18.0 | B | 0.074 | 0.037 | |
| C1 - Benz(a)anthracene/Chrysene | 15.2 | | 0.074 | 0.037 | |
| C2 - Benz(a)anthracene/Chrysene | 6.91 | | 0.074 | 0.037 | |
| C3 - Benz(a)anthracene/Chrysene | 3.05 | | 0.074 | 0.037 | |
| C4 - Benz(a)anthracene/Chrysene | 1.01 | | 0.074 | 0.037 | |
| Benzo(b)fluoranthene | 5.67 | B | 0.074 | 0.037 | |
| Benzo(j/k)fluoranthene | 8.29 | B | 0.074 | 0.037 | |
| Benzo(e)pyrene | 7.42 | B | 0.074 | 0.037 | |
| Benzo(a)pyrene | 13.2 | B | 0.074 | 0.037 | |
| Perylene | 2.27 | | 0.074 | 0.037 | |
| Indeno(1,2,3-cd)pyrene | 4.44 | B | 0.074 | 0.037 | |
| Dibenz(a,h)anthracene | 1.28 | B | 0.074 | 0.037 | |
| Benzo(g,h,i)perylene | 4.94 | B | 0.074 | 0.037 | |
| Coronene | 1.29 | | 0.074 | 0.037 | |
| Retene | 0.770 | | 0.074 | 0.037 | |
| Benzo(b/c)fluorenes | 5.58 | | 0.074 | 0.037 | |
| 2-Methylpyrene | 6.1 | | 0.074 | 0.037 | |
| 4-Methylpyrene | 4.74 | | 0.074 | 0.037 | |
| 1-Methylpyrene | 5.28 | | 0.074 | 0.037 | |
| Heptadecane | 2.95 | B | 0.074 | 0.037 | |
| Pristane | 53.7 | B | 0.074 | 0.037 | |
| Octadecane | | BU | 0.074 | 0.037 | |
| Phytane | 36.0 | B | 0.074 | 0.037 | |

# Analytical Results for Volatile and Semivolatile Organics
## META Environmental, Inc.

## Field ID: MW-26 (12-14) NAPL

| | | | |
|---|---|---|---|
| Client: | Parsons | Preparation Method: | EPA 3570 |
| Project: | Farrington St. | Cleanup Method(s): | NA |
| | | Analysis Method: | EPA 8270M |
| Lab ID | PA110919-03-D2 | | |
| File ID: | G092821.D | Matrix: | Soil |
| | | Preservation: | None |
| Date Sampled: | 8/25/2011 | Decanted: | None |
| Date Received: | 9/19/2011 | | |
| Date Prepared: | 9/21/2011 | Sample Size (g): | 3.125 |
| Date Cleanup: | NA | Percent Solid: | 86.4% |
| Date Analyzed: | 9/29/2011 | Extract Volume (µl): | 2000 |
| Instrument: | GTO | Prep DF: | 1 |
| Operator: | CAM | Analysis DF: | 5 |
| | | Injection Volume (µl): | 1.00 |
| Batch QC: | QC110921-SB | | |

| Analyte | Concentration (mg/kg dry wt.) | RL | EDL | Comments |
|---|---|---|---|---|
| 2,6,10-trimethyldodecane | 30.6 | 0.074 | 0.037 | |
| 2,6,10-trimethyltridecane | 28.5 | 0.074 | 0.037 | |
| Norpristane | 27.2 B | 0.074 | 0.037 | |
| Total PAH (16) | 333 | 0.074 | 0.037 | |
| Total PAH (42) | 904 | 0.074 | 0.037 | |

| *Extraction Surrogate Recoveries (%)* | | Limits |
|---|---|---|
| Toluene-d8 | 129 | 50 - 120 |
| Phenanthrene-d10 | 85 | 50 - 120 |
| Benzo(a)pyrene-d12 | 82 | 50 - 120 |
| Perylene-d12 | 97 | 50 - 120 |

NA - Not applicable.
B - Analyte detected in the Blank.
J - Estimated value; detected between the RL and EDL.
U - Analyte not detected above EDL.
D - Analyte reported from a diluted extract.
E - Estimate, result detected above calibration range.
I - Concentration/Peak ID uncertain due to potential interference.
RL - Reporting limit is the sample equivalent of the lowest linear calibration concentration.
EDL - Estimated detection limit is 50% of RL.
* - Triphenylene is known to coelute with this compound.

# Analytical Results for Volatile and Semivolatile Organics
## META Environmental, Inc.

## Field ID: Soil Blank

| | | | |
|---|---|---|---|
| Client: | Parsons | Preparation Method: | EPA 3570 |
| Project: | Farrington St. | Cleanup Method(s): | NA |
| | | Analysis Method: | EPA 8270M |
| Lab ID | QC110921-SB | | |
| File ID: | G092617.D | Matrix: | Soil |
| | | Preservation: | None |
| Date Sampled: | NA | Decanted: | None |
| Date Received: | NA | | |
| Date Prepared: | 9/21/2011 | Sample Size (g): | 4.00 |
| Date Cleanup: | NA | Percent Solid: | 100.0% |
| Date Analyzed: | 9/27/2011 | Extract Volume (µl): | 2000 |
| Instrument: | GTO | Prep DF: | 1 |
| Operator: | CAM | Analysis DF: | 1 |
| | | Injection Volume (µl): | 1.00 |
| Batch QC: | QC110921-SB | | |

| Analyte | Concentration (mg/kg dry wt.) | RL | EDL | Comments |
|---|---|---|---|---|
| MAH & PAH COMPOUNDS: | | | | |
| Benzene | 0.024 | 0.003 | 0.001 | |
| Toluene | 0.038 | 0.003 | 0.001 | |
| Ethylbenzene | U | 0.003 | 0.001 | |
| m/p-Xylenes | U | 0.003 | 0.001 | |
| Styrene | 0.079 | 0.003 | 0.001 | |
| o-Xylene | U | 0.003 | 0.001 | |
| Isopropylbenzene | U | 0.003 | 0.001 | |
| n-Propylbenzene | U | 0.003 | 0.001 | |
| 1,3,5-Trimethylbenzene | U | 0.003 | 0.001 | |
| 1,2,4-Trimethylbenzene | U | 0.003 | 0.001 | |
| t-Butylbenzene | U | 0.003 | 0.001 | |
| sec-Butylbenzene | U | 0.003 | 0.001 | |
| p-Isopropyltoluene | U | 0.003 | 0.001 | |
| n-Butylbenzene | U | 0.003 | 0.001 | |
| C1 - Benzene | 0.026 | 0.003 | 0.001 | |
| C2 - Benzene | U | 0.003 | 0.001 | |
| C3 - Benzene | U | 0.003 | 0.001 | |
| C4 - Benzene | U | 0.003 | 0.001 | |
| C5 - Benzene | U | 0.003 | 0.001 | |
| trans-Decalin | U | 0.003 | 0.001 | |
| cis-Decalin | U | 0.003 | 0.001 | |
| Naphthalene | U | 0.003 | 0.001 | |
| 2-Methylnaphthalene | 0.002 J | 0.003 | 0.001 | |
| 1-Methylnaphthalene | 0.001 J | 0.003 | 0.001 | |
| C1 - Naphthalene | 0.002 J | 0.003 | 0.001 | |
| C2 - Naphthalene | U | 0.003 | 0.001 | |
| C3 - Naphthalene | U | 0.003 | 0.001 | |
| C4 - Naphthalene | U | 0.003 | 0.001 | |
| Acenaphthylene | U | 0.003 | 0.001 | |
| Acenaphthene | U | 0.003 | 0.001 | |
| Dibenzofuran | U | 0.003 | 0.001 | |
| Fluorene | 0.002 J | 0.003 | 0.001 | |
| C1 - Fluorene | 0.003 | 0.003 | 0.001 | |
| C2 - Fluorene | U | 0.003 | 0.001 | |
| C3 - Fluorene | U | 0.003 | 0.001 | |
| Phenanthrene | 0.002 J | 0.003 | 0.001 | |
| Anthracene | U | 0.003 | 0.001 | |

# Analytical Results for Volatile and Semivolatile Organics
## META Environmental, Inc.

**Field ID: Soil Blank**

| | | | |
|---|---|---|---|
| Client: | Parsons | Preparation Method: | EPA 3570 |
| Project: | Farrington St. | Cleanup Method(s): | NA |
| | | Analysis Method: | EPA 8270M |
| Lab ID | QC110921-SB | | |
| File ID: | G092617.D | Matrix: | Soil |
| | | Preservation: | None |
| Date Sampled: | NA | Decanted: | None |
| Date Received: | NA | | |
| Date Prepared: | 9/21/2011 | Sample Size (g): | 4.00 |
| Date Cleanup: | NA | Percent Solid: | 100.0% |
| Date Analyzed: | 9/27/2011 | Extract Volume (µl): | 2000 |
| Instrument: | GTO | Prep DF: | 1 |
| Operator: | CAM | Analysis DF: | 1 |
| | | Injection Volume (µl): | 1.00 |
| Batch QC: | QC110921-SB | | |

| Analyte | Concentration (mg/kg dry wt.) | RL | EDL | Comments |
|---|---|---|---|---|
| C1 - Phenanthrene/Anthracene | U | 0.003 | 0.001 | |
| C2 - Phenanthrene/Anthracene | U | 0.003 | 0.001 | |
| C3 - Phenanthrene/Anthracene | U | 0.003 | 0.001 | |
| C4 - Phenanthrene/Anthracene | U | 0.003 | 0.001 | |
| Dibenzothiophene | U | 0.003 | 0.001 | |
| C1 - Dibenzothiophene | U | 0.003 | 0.001 | |
| C2 - Dibenzothiophene | U | 0.003 | 0.001 | |
| C3 - Dibenzothiophene | U | 0.003 | 0.001 | |
| C4 - Dibenzothiophene | U | 0.003 | 0.001 | |
| Benzo(b)naphtho(2,1-d)thiophene | U | 0.003 | 0.001 | |
| Fluoranthene | U | 0.003 | 0.001 | |
| Pyrene | U | 0.003 | 0.001 | |
| C1 - Fluoranthene/Pyrene | U | 0.003 | 0.001 | |
| C2 - Fluoranthene/Pyrene | U | 0.003 | 0.001 | |
| C3 - Fluoranthene/Pyrene | U | 0.003 | 0.001 | |
| Benz(a)anthracene | 0.002 J | 0.003 | 0.001 | |
| Chrysene* | 0.002 J | 0.003 | 0.001 | |
| C1 - Benz(a)anthracene/Chrysene | U | 0.003 | 0.001 | |
| C2 - Benz(a)anthracene/Chrysene | U | 0.003 | 0.001 | |
| C3 - Benz(a)anthracene/Chrysene | U | 0.003 | 0.001 | |
| C4 - Benz(a)anthracene/Chrysene | U | 0.003 | 0.001 | |
| Benzo(b)fluoranthene | 0.002 J | 0.003 | 0.001 | |
| Benzo(j/k)fluoranthene | 0.003 J | 0.003 | 0.001 | |
| Benzo(e)pyrene | 0.002 J | 0.003 | 0.001 | |
| Benzo(a)pyrene | 0.004 | 0.003 | 0.001 | |
| Perylene | U | 0.003 | 0.001 | |
| Indeno(1,2,3-cd)pyrene | 0.012 | 0.003 | 0.001 | |
| Dibenz(a,h)anthracene | 0.021 | 0.003 | 0.001 | |
| Benzo(g,h,i)perylene | 0.008 | 0.003 | 0.001 | |
| Coronene | U | 0.003 | 0.001 | |
| Retene | U | 0.003 | 0.001 | |
| Benzo(b/c)fluorenes | U | 0.003 | 0.001 | |
| 2-Methylpyrene | U | 0.003 | 0.001 | |
| 4-Methylpyrene | U | 0.003 | 0.001 | |
| 1-Methylpyrene | U | 0.003 | 0.001 | |
| Heptadecane | 0.036 | 0.003 | 0.001 | |
| Pristane | 0.051 | 0.003 | 0.001 | |
| Octadecane | 0.018 | 0.003 | 0.001 | |
| Phytane | 0.040 | 0.003 | 0.001 | |

# Analytical Results for Volatile and Semivolatile Organics
## META Environmental, Inc.

## Field ID: Soil Blank

| | | | |
|---|---|---|---|
| Client: | Parsons | Preparation Method: | EPA 3570 |
| Project: | Farrington St. | Cleanup Method(s): | NA |
| | | Analysis Method: | EPA 8270M |
| Lab ID | QC110921-SB | | |
| File ID: | G092617.D | Matrix: | Soil |
| | | Preservation: | None |
| Date Sampled: | NA | Decanted: | None |
| Date Received: | NA | | |
| Date Prepared: | 9/21/2011 | Sample Size (g): | 4.00 |
| Date Cleanup: | NA | Percent Solid: | 100.0% |
| Date Analyzed: | 9/27/2011 | Extract Volume (µl): | 2000 |
| Instrument: | GTO | Prep DF: | 1 |
| Operator: | CAM | Analysis DF: | 1 |
| | | Injection Volume (µl): | 1.00 |
| Batch QC: | QC110921-SB | | |

| Analyte | Concentration (mg/kg dry wt.) | RL | EDL | Comments |
|---|---|---|---|---|
| 2,6,10-trimethyldodecane | U | 0.003 | 0.001 | |
| 2,6,10-trimethyltridecane | U | 0.003 | 0.001 | |
| Norpristane | 0.015 | 0.003 | 0.001 | |
| Total PAH (16) | 0.058 | 0.003 | 0.001 | |
| Total PAH (42) | 0.065 | 0.003 | 0.001 | |

| *Extraction Surrogate Recoveries (%)* | | Limits |
|---|---|---|
| Toluene-d8 | 86 | 50 - 120 |
| Phenanthrene-d10 | 98 | 50 - 120 |
| Benzo(a)pyrene-d12 | 78 | 50 - 120 |
| Perylene-d12 | 89 | 50 - 120 |

NA - Not applicable.
B - Analyte detected in the Blank.
J - Estimated value; detected between the RL and EDL.
U - Analyte not detected above EDL.
D - Analyte reported from a diluted extract.
E - Estimate, result detected above calibration range.
I - Concentration/Peak ID uncertain due to potential interference.
RL - Reporting limit is the sample equivalent of the lowest linear calibration concentration.
EDL - Estimated detection limit is 50% of RL.
* - Triphenylene is known to coelute with this compound.

# Analytical Results for Volatile and Semivolatile Organics
# META Environmental, Inc.

## Field ID: Soil Blank Spike

| | | | |
|---|---|---|---|
| Client: | Parsons | Preparation Method: | EPA 3570 |
| Project: | Farrington St. | Cleanup Method(s): | NA |
| | | Analysis Method: | EPA 8270M |
| Lab ID | QC110921-SBS | | |
| File ID: | G092618.D | Matrix: | Soil |
| | | Preservation: | None |
| Date Sampled: | NA | Decanted: | None |
| Date Received: | NA | | |
| Date Prepared: | 9/21/2011 | Sample Size (g): | 4.00 |
| Date Cleanup: | NA | Percent Solid: | 100.0% |
| Date Analyzed: | 9/27/2011 | Extract Volume (µl): | 2000 |
| Instrument: | GTO | Prep DF: | 1 |
| Operator: | CAM | Analysis DF: | 1 |
| | | Injection Volume (µl): | 1.00 |
| Batch QC: | QC110921-SB | | |

| Analyte | Concentration (mg/kg dry wt.) | | RL | EDL | Comments |
|---|---|---|---|---|---|
| MAH & PAH COMPOUNDS: | Spike Amount | | | | % Recovery |
| Benzene | 2.5 | 1.67 B | 0.003 | 0.001 | 67 |
| Toluene | 2.5 | 2.11 B | 0.003 | 0.001 | 84 |
| Ethylbenzene | 2.5 | 2.14 | 0.003 | 0.001 | 86 |
| m/p-Xylenes | 2.5 | 2.14 | 0.003 | 0.001 | 86 |
| Styrene | 2.5 | 2.19 B | 0.003 | 0.001 | 88 |
| o-Xylene | 2.5 | 2.18 | 0.003 | 0.001 | 87 |
| Isopropylbenzene | 2.5 | 2.17 | 0.003 | 0.001 | 87 |
| n-Propylbenzene | 2.5 | 2.14 | 0.003 | 0.001 | 86 |
| 1,3,5-Trimethylbenzene | 2.5 | 2.2 | 0.003 | 0.001 | 88 |
| 1,2,4-Trimethylbenzene | 2.5 | 2.19 | 0.003 | 0.001 | 88 |
| t-Butylbenzene | | U | 0.003 | 0.001 | |
| sec-Butylbenzene | 2.5 | 2.21 | 0.003 | 0.001 | 88 |
| p-Isopropyltoluene | 2.5 | 2.14 | 0.003 | 0.001 | 86 |
| n-Butylbenzene | 2.5 | 2.18 | 0.003 | 0.001 | 87 |
| C1 - Benzene | | BU | 0.003 | 0.001 | |
| C2 - Benzene | | U | 0.003 | 0.001 | |
| C3 - Benzene | | U | 0.003 | 0.001 | |
| C4 - Benzene | | U | 0.003 | 0.001 | |
| C5 - Benzene | | U | 0.003 | 0.001 | |
| trans-Decalin | | U | 0.003 | 0.001 | |
| cis-Decalin | | U | 0.003 | 0.001 | |
| Naphthalene | 2.5 | 2.19 | 0.003 | 0.001 | 88 |
| 2-Methylnaphthalene | 2.5 | 2.19 B | 0.003 | 0.001 | 88 |
| 1-Methylnaphthalene | 2.5 | 2.2 B | 0.003 | 0.001 | 88 |
| C1 - Naphthalene | | BU | 0.003 | 0.001 | |
| C2 - Naphthalene | | U | 0.003 | 0.001 | |
| C3 - Naphthalene | | U | 0.003 | 0.001 | |
| C4 - Naphthalene | | U | 0.003 | 0.001 | |
| Acenaphthylene | 2.5 | 2.28 | 0.003 | 0.001 | 91 |
| Acenaphthene | 2.5 | 2.32 | 0.003 | 0.001 | 93 |
| Dibenzofuran | 2.5 | 2.33 | 0.003 | 0.001 | 93 |
| Fluorene | 2.5 | 2.41 B | 0.003 | 0.001 | 96 |
| C1 - Fluorene | | BU | 0.003 | 0.001 | |
| C2 - Fluorene | | U | 0.003 | 0.001 | |
| C3 - Fluorene | | U | 0.003 | 0.001 | |
| Phenanthrene | 2.5 | 2.46 B | 0.003 | 0.001 | 98 |
| Anthracene | 2.5 | 2.25 | 0.003 | 0.001 | 90 |

# Analytical Results for Volatile and Semivolatile Organics
# META Environmental, Inc.

## Field ID: Soil Blank Spike

| | | | |
|---|---|---|---|
| Client: | Parsons | Preparation Method: | EPA 3570 |
| Project: | Farrington St. | Cleanup Method(s): | NA |
| | | Analysis Method: | EPA 8270M |
| Lab ID | QC110921-SBS | | |
| File ID: | G092618.D | Matrix: | Soil |
| | | Preservation: | None |
| Date Sampled: | NA | Decanted: | None |
| Date Received: | NA | | |
| Date Prepared: | 9/21/2011 | Sample Size (g): | 4.00 |
| Date Cleanup: | NA | Percent Solid: | 100.0% |
| Date Analyzed: | 9/27/2011 | Extract Volume (µl): | 2000 |
| Instrument: | GTO | Prep DF: | 1 |
| Operator: | CAM | Analysis DF: | 1 |
| | | Injection Volume (µl): | 1.00 |
| Batch QC: | QC110921-SB | | |

| Analyte | Concentration (mg/kg dry wt.) | | | RL | EDL | Comments |
|---|---|---|---|---|---|---|
| C1 - Phenanthrene/Anthracene | | | U | 0.003 | 0.001 | |
| C2 - Phenanthrene/Anthracene | | | U | 0.003 | 0.001 | |
| C3 - Phenanthrene/Anthracene | | | U | 0.003 | 0.001 | |
| C4 - Phenanthrene/Anthracene | | | U | 0.003 | 0.001 | |
| Dibenzothiophene | 2.5 | 2.4 | | 0.003 | 0.001 | 96 |
| C1 - Dibenzothiophene | | | U | 0.003 | 0.001 | |
| C2 - Dibenzothiophene | | | U | 0.003 | 0.001 | |
| C3 - Dibenzothiophene | | | U | 0.003 | 0.001 | |
| C4 - Dibenzothiophene | | | U | 0.003 | 0.001 | |
| Benzo(b)naphtho(2,1-d)thiophene | | | U | 0.003 | 0.001 | |
| Fluoranthene | 2.5 | 2.47 | | 0.003 | 0.001 | 99 |
| Pyrene | 2.5 | 2.49 | | 0.003 | 0.001 | 100 |
| C1 - Fluoranthene/Pyrene | | | U | 0.003 | 0.001 | |
| C2 - Fluoranthene/Pyrene | | | U | 0.003 | 0.001 | |
| C3 - Fluoranthene/Pyrene | | | U | 0.003 | 0.001 | |
| Benz(a)anthracene | 2.5 | 2.54 | B | 0.003 | 0.001 | 102 |
| Chrysene* | 2.5 | 2.57 | B | 0.003 | 0.001 | 103 |
| C1 - Benz(a)anthracene/Chrysene | | | U | 0.003 | 0.001 | |
| C2 - Benz(a)anthracene/Chrysene | | | U | 0.003 | 0.001 | |
| C3 - Benz(a)anthracene/Chrysene | | | U | 0.003 | 0.001 | |
| C4 - Benz(a)anthracene/Chrysene | | | U | 0.003 | 0.001 | |
| Benzo(b)fluoranthene | 2.5 | 2.59 | B | 0.003 | 0.001 | 104 |
| Benzo(j/k)fluoranthene | 2.5 | 2.51 | B | 0.003 | 0.001 | 100 |
| Benzo(e)pyrene | 2.5 | 2.74 | B | 0.003 | 0.001 | 110 |
| Benzo(a)pyrene | 2.5 | 2.45 | B | 0.003 | 0.001 | 98 |
| Perylene | | | U | 0.003 | 0.001 | |
| Indeno(1,2,3-cd)pyrene | 2.5 | 2.31 | B | 0.003 | 0.001 | 92 |
| Dibenz(a,h)anthracene | 2.5 | 2.33 | B | 0.003 | 0.001 | 93 |
| Benzo(g,h,i)perylene | 2.5 | 2.56 | B | 0.003 | 0.001 | 102 |
| Coronene | | | U | 0.003 | 0.001 | |
| Retene | | | U | 0.003 | 0.001 | |
| Benzo(b/c)fluorenes | | | U | 0.003 | 0.001 | |
| 2-Methylpyrene | | | U | 0.003 | 0.001 | |
| 4-Methylpyrene | | | U | 0.003 | 0.001 | |
| 1-Methylpyrene | | | U | 0.003 | 0.001 | |
| Heptadecane | | | BU | 0.003 | 0.001 | |
| Pristane | | | BU | 0.003 | 0.001 | |
| Octadecane | | | BU | 0.003 | 0.001 | |
| Phytane | | | BU | 0.003 | 0.001 | |

# Analytical Results for Volatile and Semivolatile Organics
# META Environmental, Inc.

## Field ID: Soil Blank Spike

| | | | |
|---|---|---|---|
| Client: | Parsons | Preparation Method: | EPA 3570 |
| Project: | Farrington St. | Cleanup Method(s): | NA |
| | | Analysis Method: | EPA 8270M |
| Lab ID | QC110921-SBS | | |
| File ID: | G092618.D | Matrix: | Soil |
| | | Preservation: | None |
| Date Sampled: | NA | Decanted: | None |
| Date Received: | NA | | |
| Date Prepared: | 9/21/2011 | Sample Size (g): | 4.00 |
| Date Cleanup: | NA | Percent Solid: | 100.0% |
| Date Analyzed: | 9/27/2011 | Extract Volume (µl): | 2000 |
| Instrument: | GTO | Prep DF: | 1 |
| Operator: | CAM | Analysis DF: | 1 |
| | | Injection Volume (µl): | 1.00 |
| Batch QC: | QC110921-SB | | |

| Analyte | Concentration (mg/kg dry wt.) | | RL | EDL | Comments |
|---|---|---|---|---|---|
| 2,6,10-trimethyldodecane | | U | 0.003 | 0.001 | |
| 2,6,10-trimethyltridecane | | U | 0.003 | 0.001 | |
| Norpristane | | BU | 0.003 | 0.001 | |

| *Extraction Surrogate Recoveries (%)* | | Limits |
|---|---|---|
| Toluene-d8 | 78 | 50 - 120 |
| Phenanthrene-d10 | 97 | 50 - 120 |
| Benzo(a)pyrene-d12 | 91 | 50 - 120 |
| Perylene-d12 | 99 | 50 - 120 |

NA - Not applicable.
B - Analyte detected in the Blank.
J - Estimated value; detected between the RL and EDL.
U - Analyte not detected above EDL.
D - Analyte reported from a diluted extract.
E - Estimate, result detected above calibration range.
I - Concentration/Peak ID uncertain due to potential interference.
RL - Reporting limit is the sample equivalent of the lowest linear calibration concentration.
EDL - Estimated detection limit is 50% of RL.
* - Triphenylene is known to coelute with this compound.

# Analytical Results for Volatile and Semivolatile Organics
# META Environmental, Inc.

## Field ID: Duplicate of MW-26 (12-14) NAPL

| | | | |
|---|---|---|---|
| Client: | Parsons | Preparation Method: | EPA 3570 |
| Project: | Farrington St. | Cleanup Method(s): | NA |
| | | Analysis Method: | EPA 8270M |
| Lab ID | PA110919-03DUP-D2 | | |
| File ID: | G092826.D | Matrix: | Soil |
| | | Preservation: | None |
| Date Sampled: | 8/25/2011 | Decanted: | None |
| Date Received: | 9/19/2011 | | |
| Date Prepared: | 9/21/2011 | Sample Size (g): | 3.039 |
| Date Cleanup: | NA | Percent Solid: | 86.4% |
| Date Analyzed: | 9/29/2011 | Extract Volume (µl): | 2000 |
| Instrument: | GTO | Prep DF: | 1 |
| Operator: | CAM | Analysis DF: | 5 |
| | | Injection Volume (µl): | 1.00 |
| Batch QC: | QC110921-SB | | |

| Analyte | Concentration (mg/kg dry wt.) | RL | EDL | Comments |
|---|---|---|---|---|
| MAH & PAH COMPOUNDS: | | | | RPD |
| Benzene | 0.102 B | 0.076 | 0.038 | 20.3 |
| Toluene | 0.144 B | 0.076 | 0.038 | 0.7 |
| Ethylbenzene | 0.139 | 0.076 | 0.038 | 25.7 |
| m/p-Xylenes | 0.085 | 0.076 | 0.038 | 0 |
| Styrene | 2.74 B | 0.076 | 0.038 | 24.1 |
| o-Xylene | 0.146 | 0.076 | 0.038 | 14 |
| Isopropylbenzene | 1.88 | 0.076 | 0.038 | 2.6 |
| n-Propylbenzene | 1.25 | 0.076 | 0.038 | 1.6 |
| 1,3,5-Trimethylbenzene | 0.389 | 0.076 | 0.038 | 19.9 |
| 1,2,4-Trimethylbenzene | 12.1 | 0.076 | 0.038 | 6.4 |
| t-Butylbenzene | 1.52 | 0.076 | 0.038 | 4.5 |
| sec-Butylbenzene | 0.432 | 0.076 | 0.038 | 2.1 |
| p-Isopropyltoluene | 1.16 | 0.076 | 0.038 | 7.5 |
| n-Butylbenzene | 1.6 | 0.076 | 0.038 | 8.4 |
| C1 - Benzene | 0.275 B | 0.076 | 0.038 | 12.3 |
| C2 - Benzene | 0.272 | 0.076 | 0.038 | 8.8 |
| C3 - Benzene | 15.0 | 0.076 | 0.038 | 5.2 |
| C4 - Benzene | 31.5 | 0.076 | 0.038 | 4.7 |
| C5 - Benzene | 24.3 | 0.076 | 0.038 | 4 |
| trans-Decalin | 3.03 | 0.076 | 0.038 | 2.3 |
| cis-Decalin | 0.457 | 0.076 | 0.038 | 4.7 |
| Naphthalene | 1.13 | 0.076 | 0.038 | 15.5 |
| 2-Methylnaphthalene | 4.75 B | 0.076 | 0.038 | 27.3 |
| 1-Methylnaphthalene | 63.4 B | 0.076 | 0.038 | 2.6 |
| C1 - Naphthalene | 45.2 B | 0.076 | 0.038 | 4.3 |
| C2 - Naphthalene | 86.4 | 0.076 | 0.038 | 1.9 |
| C3 - Naphthalene | 56.2 | 0.076 | 0.038 | 2.5 |
| C4 - Naphthalene | 31.0 | 0.076 | 0.038 | 1.3 |
| Acenaphthylene | 9.13 | 0.076 | 0.038 | 5.3 |
| Acenaphthene | 50.6 | 0.076 | 0.038 | 2 |
| Dibenzofuran | 3.6 | 0.076 | 0.038 | 1.4 |
| Fluorene | 22.9 B | 0.076 | 0.038 | 2.2 |
| C1 - Fluorene | 18.4 B | 0.076 | 0.038 | 1.1 |
| C2 - Fluorene | 19.6 | 0.076 | 0.038 | 4 |
| C3 - Fluorene | 14.1 | 0.076 | 0.038 | 0 |
| Phenanthrene | 76.9 B | 0.076 | 0.038 | 0 |
| Anthracene | 27.7 | 0.076 | 0.038 | 1.8 |

# Analytical Results for Volatile and Semivolatile Organics
# META Environmental, Inc.

## Field ID: Duplicate of MW-26 (12-14) NAPL

| | | | |
|---|---|---|---|
| Client: | Parsons | Preparation Method: | EPA 3570 |
| Project: | Farrington St. | Cleanup Method(s): | NA |
| | | Analysis Method: | EPA 8270M |
| Lab ID | PA110919-03DUP-D2 | | |
| File ID: | G092826.D | Matrix: | Soil |
| | | Preservation: | None |
| Date Sampled: | 8/25/2011 | Decanted: | None |
| Date Received: | 9/19/2011 | | |
| Date Prepared: | 9/21/2011 | Sample Size (g): | 3.039 |
| Date Cleanup: | NA | Percent Solid: | 86.4% |
| Date Analyzed: | 9/29/2011 | Extract Volume (µl): | 2000 |
| Instrument: | GTO | Prep DF: | 1 |
| Operator: | CAM | Analysis DF: | 5 |
| | | Injection Volume (µl): | 1.00 |
| Batch QC: | QC110921-SB | | |

| Analyte | Concentration (mg/kg dry wt.) | | RL | EDL | Comments |
|---|---|---|---|---|---|
| C1 - Phenanthrene/Anthracene | 71.5 | | 0.076 | 0.038 | 0.7 |
| C2 - Phenanthrene/Anthracene | 46.3 | | 0.076 | 0.038 | 0.6 |
| C3 - Phenanthrene/Anthracene | 20.0 | | 0.076 | 0.038 | 0.5 |
| C4 - Phenanthrene/Anthracene | 7.56 | | 0.076 | 0.038 | 0.4 |
| Dibenzothiophene | 7.11 | | 0.076 | 0.038 | 1.9 |
| C1 - Dibenzothiophene | 11.2 | | 0.076 | 0.038 | 0.9 |
| C2 - Dibenzothiophene | 12.7 | | 0.076 | 0.038 | 0.8 |
| C3 - Dibenzothiophene | 8.46 | | 0.076 | 0.038 | 0.7 |
| C4 - Dibenzothiophene | 3.52 | | 0.076 | 0.038 | 1.1 |
| Benzo(b)naphtho(2,1-d)thiophene | 2.92 | | 0.076 | 0.038 | 0 |
| Fluoranthene | 28.0 | | 0.076 | 0.038 | 1.1 |
| Pyrene | 39.3 | | 0.076 | 0.038 | 0.3 |
| C1 - Fluoranthene/Pyrene | 38.8 | | 0.076 | 0.038 | 4.5 |
| C2 - Fluoranthene/Pyrene | 16.1 | | 0.076 | 0.038 | 1.2 |
| C3 - Fluoranthene/Pyrene | 6.91 | | 0.076 | 0.038 | 12 |
| Benz(a)anthracene | 18.5 | B | 0.076 | 0.038 | 0.5 |
| Chrysene* | 17.8 | B | 0.076 | 0.038 | 1.1 |
| C1 - Benz(a)anthracene/Chrysene | 14.9 | | 0.076 | 0.038 | 2 |
| C2 - Benz(a)anthracene/Chrysene | 6.66 | | 0.076 | 0.038 | 3.7 |
| C3 - Benz(a)anthracene/Chrysene | 2.76 | | 0.076 | 0.038 | 10 |
| C4 - Benz(a)anthracene/Chrysene | 1.03 | | 0.076 | 0.038 | 2 |
| Benzo(b)fluoranthene | 5.81 | B | 0.076 | 0.038 | 2.4 |
| Benzo(j/k)fluoranthene | 7.8 | B | 0.076 | 0.038 | 6.1 |
| Benzo(e)pyrene | 7.33 | B | 0.076 | 0.038 | 1.2 |
| Benzo(a)pyrene | 13.1 | B | 0.076 | 0.038 | 0.8 |
| Perylene | 2.12 | | 0.076 | 0.038 | 6.8 |
| Indeno(1,2,3-cd)pyrene | 4.56 | B | 0.076 | 0.038 | 2.7 |
| Dibenz(a,h)anthracene | 1.35 | B | 0.076 | 0.038 | 5.3 |
| Benzo(g,h,i)perylene | 4.86 | B | 0.076 | 0.038 | 1.6 |
| Coronene | 1.64 | | 0.076 | 0.038 | 23.9 |
| | | | | | |
| Retene | 1.03 | | 0.076 | 0.038 | 28.9 |
| Benzo(b/c)fluorenes | 5.3 | | 0.076 | 0.038 | 5.1 |
| 2-Methylpyrene | 5.98 | | 0.076 | 0.038 | 2 |
| 4-Methylpyrene | 4.69 | | 0.076 | 0.038 | 1.1 |
| 1-Methylpyrene | 5.08 | | 0.076 | 0.038 | 3.9 |
| Heptadecane | 3.07 | B | 0.076 | 0.038 | NA |
| Pristane | 53.1 | B | 0.076 | 0.038 | 1.1 |
| Octadecane | | BU | 0.076 | 0.038 | NA |
| Phytane | 35.4 | B | 0.076 | 0.038 | 1.7 |

# Analytical Results for Volatile and Semivolatile Organics
# META Environmental, Inc.

## Field ID: Duplicate of MW-26 (12-14) NAPL

| | | | |
|---|---|---|---|
| Client: | Parsons | Preparation Method: | EPA 3570 |
| Project: | Farrington St. | Cleanup Method(s): | NA |
| | | Analysis Method: | EPA 8270M |
| Lab ID | PA110919-03DUP-D2 | | |
| File ID: | G092826.D | Matrix: | Soil |
| | | Preservation: | None |
| Date Sampled: | 8/25/2011 | Decanted: | None |
| Date Received: | 9/19/2011 | | |
| Date Prepared: | 9/21/2011 | Sample Size (g): | 3.039 |
| Date Cleanup: | NA | Percent Solid: | 86.4% |
| Date Analyzed: | 9/29/2011 | Extract Volume (µl): | 2000 |
| Instrument: | GTO | Prep DF: | 1 |
| Operator: | CAM | Analysis DF: | 5 |
| | | Injection Volume (µl): | 1.00 |
| Batch QC: | QC110921-SB | | |

| Analyte | Concentration (mg/kg dry wt.) | RL | EDL | Comments |
|---|---|---|---|---|
| 2,6,10-trimethyldodecane | 28.9 | 0.076 | 0.038 | 5.7 |
| 2,6,10-trimethyltridecane | 27.5 | 0.076 | 0.038 | 3.6 |
| Norpristane | 26.4 B | 0.076 | 0.038 | 3 |
| Total PAH (16) | 329 | 0.076 | 0.038 | 1.2 |
| Total PAH (42) | 889 | 0.076 | 0.038 | 1.7 |

| *Extraction Surrogate Recoveries (%)* | | Limits |
|---|---|---|
| Toluene-d8 | 125 | 50 - 120 |
| Phenanthrene-d10 | 82 | 50 - 120 |
| Benzo(a)pyrene-d12 | 81 | 50 - 120 |
| Perylene-d12 | 94 | 50 - 120 |

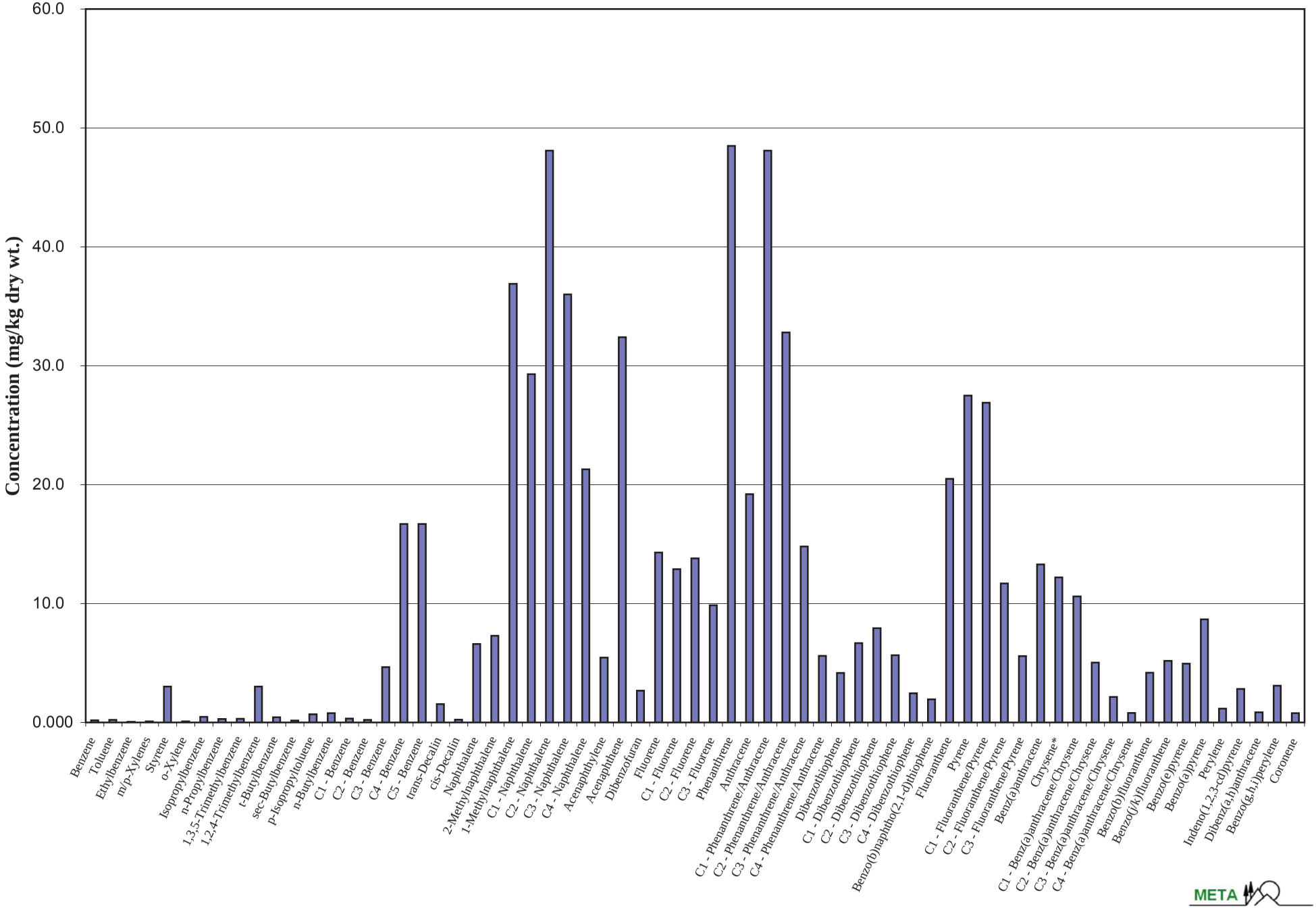
NA - Not applicable.
B - Analyte detected in the Blank.
J - Estimated value; detected between the RL and EDL.
U - Analyte not detected above EDL.
D - Analyte reported from a diluted extract.
E - Estimate, result detected above calibration range.
I - Concentration/Peak ID uncertain due to potential interference.
RL - Reporting limit is the sample equivalent of the lowest linear calibration concentration.
EDL - Estimated detection limit is 50% of RL.
* - Triphenylene is known to coelute with this compound.

# Appendix D

# Extended MAH/PAH Profiles – Histograms

# CMW-35 (9-11) NAPL

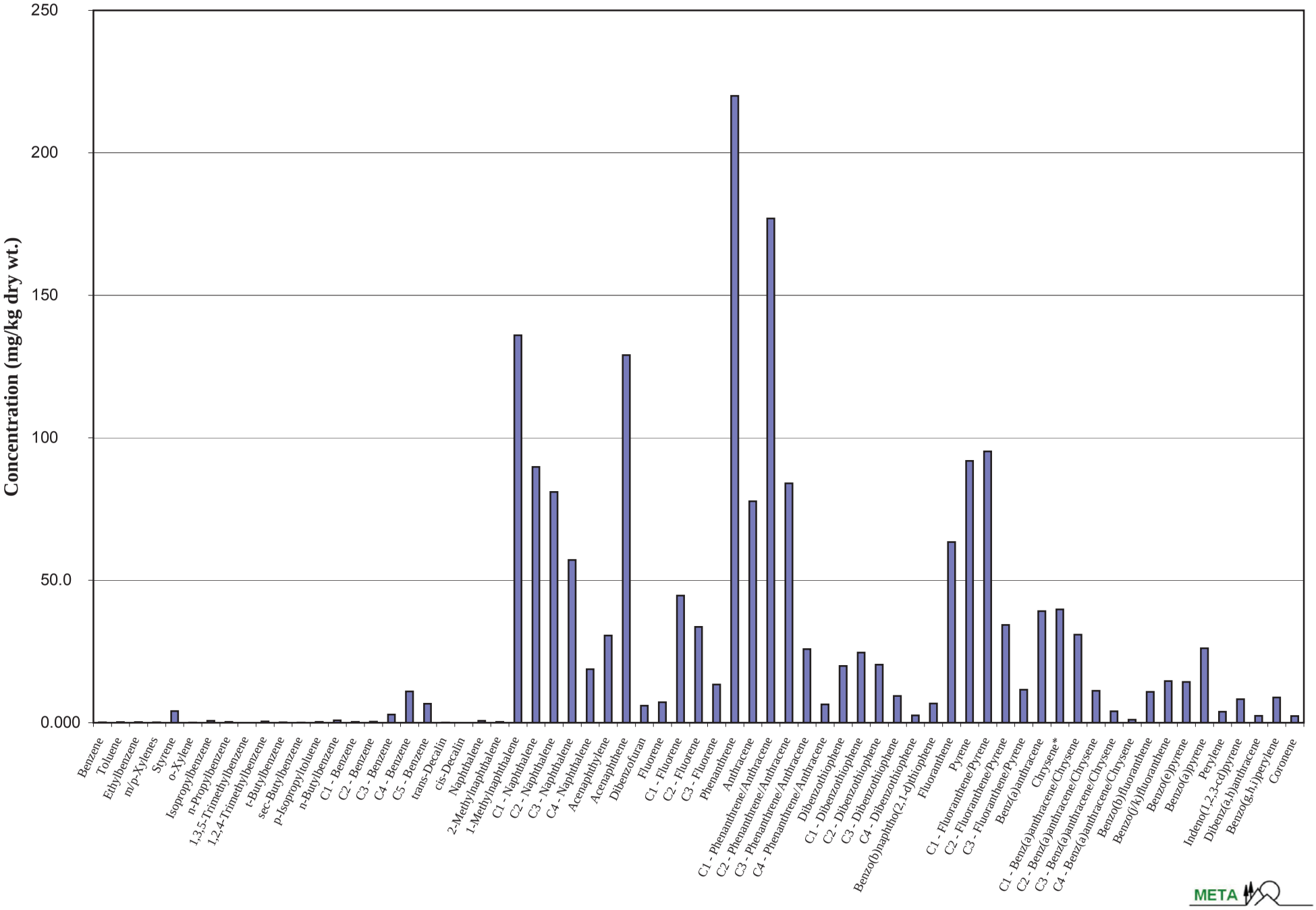
PA110919-01-D2




META

# MW-26 (20-22) NAPL

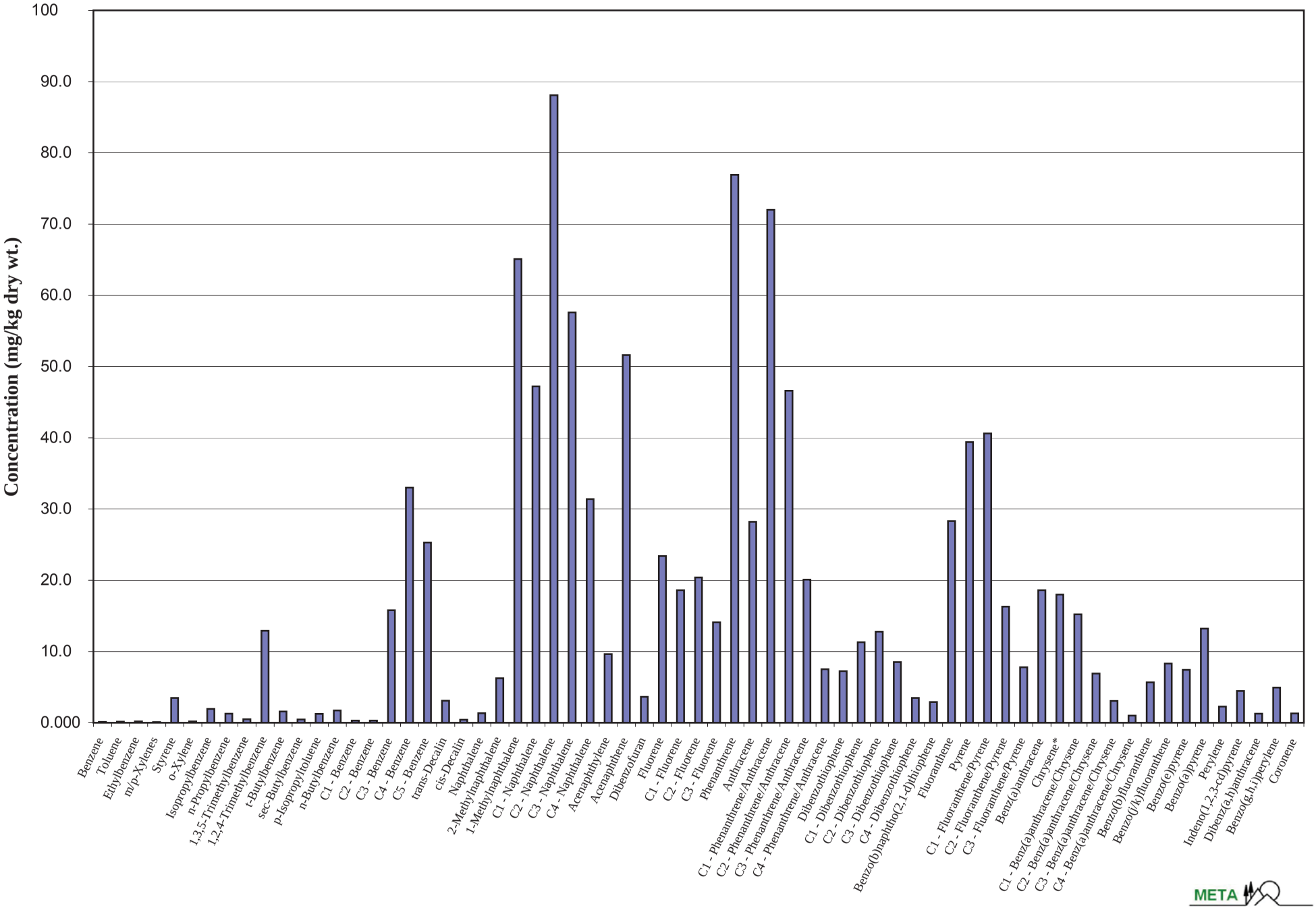
PA110919-02-D




META

# MW-26 (12-14) NAPL

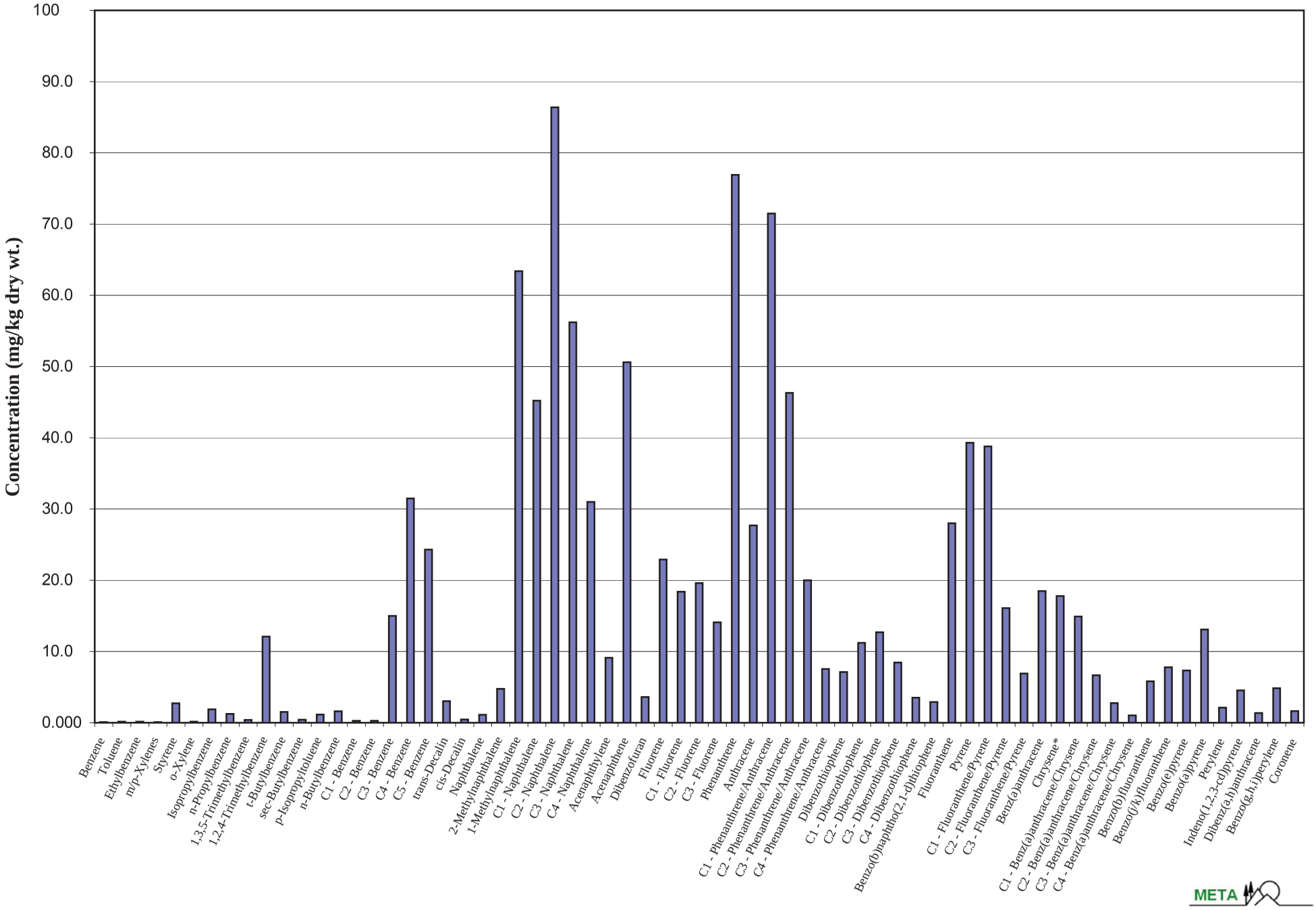
PA110919-03-D2




META

# Duplicate of MW-26 (12-14) NAPL

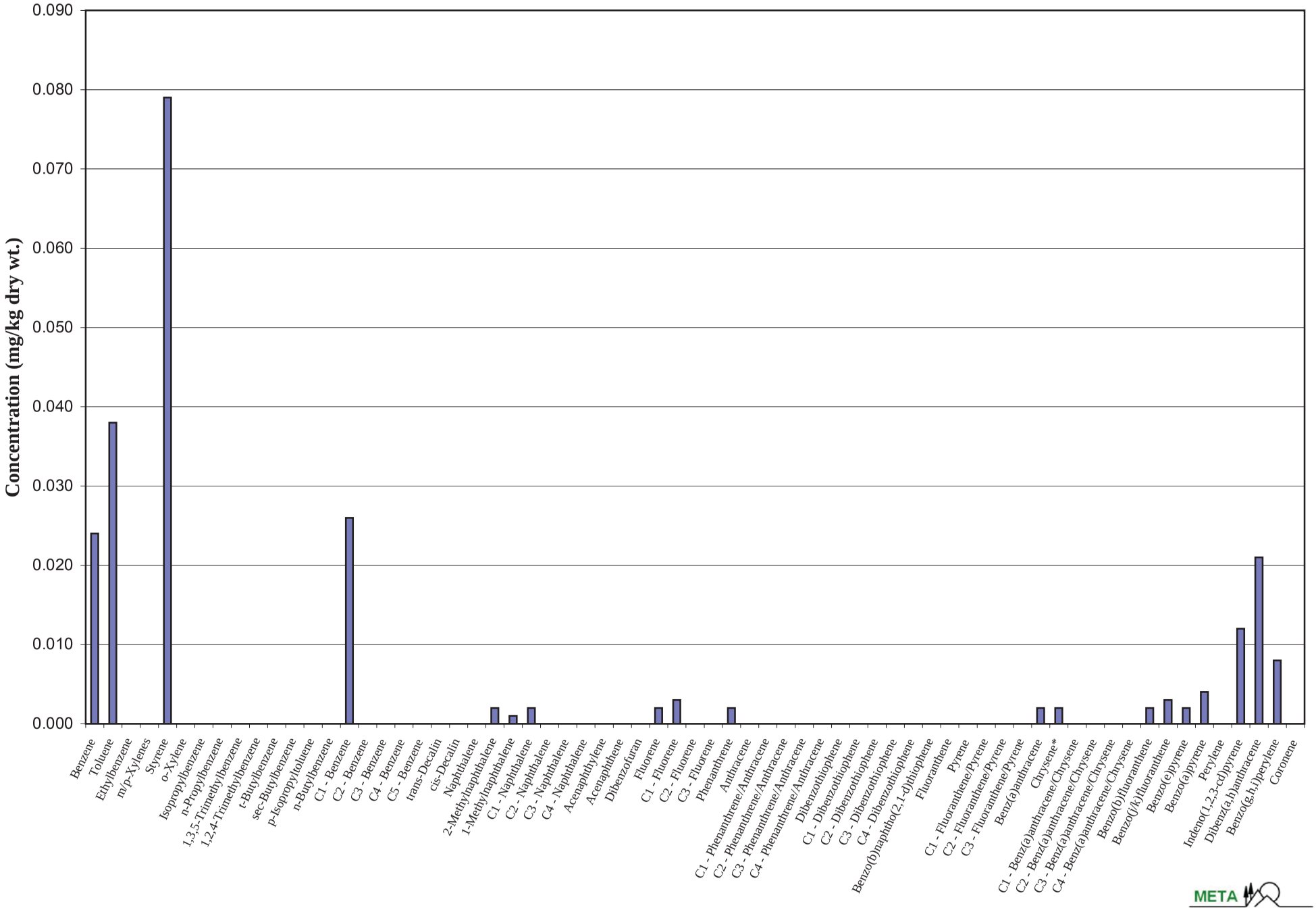
PA110919-03DUP-D2




META

# Soil Blank

QC110921-SB




META

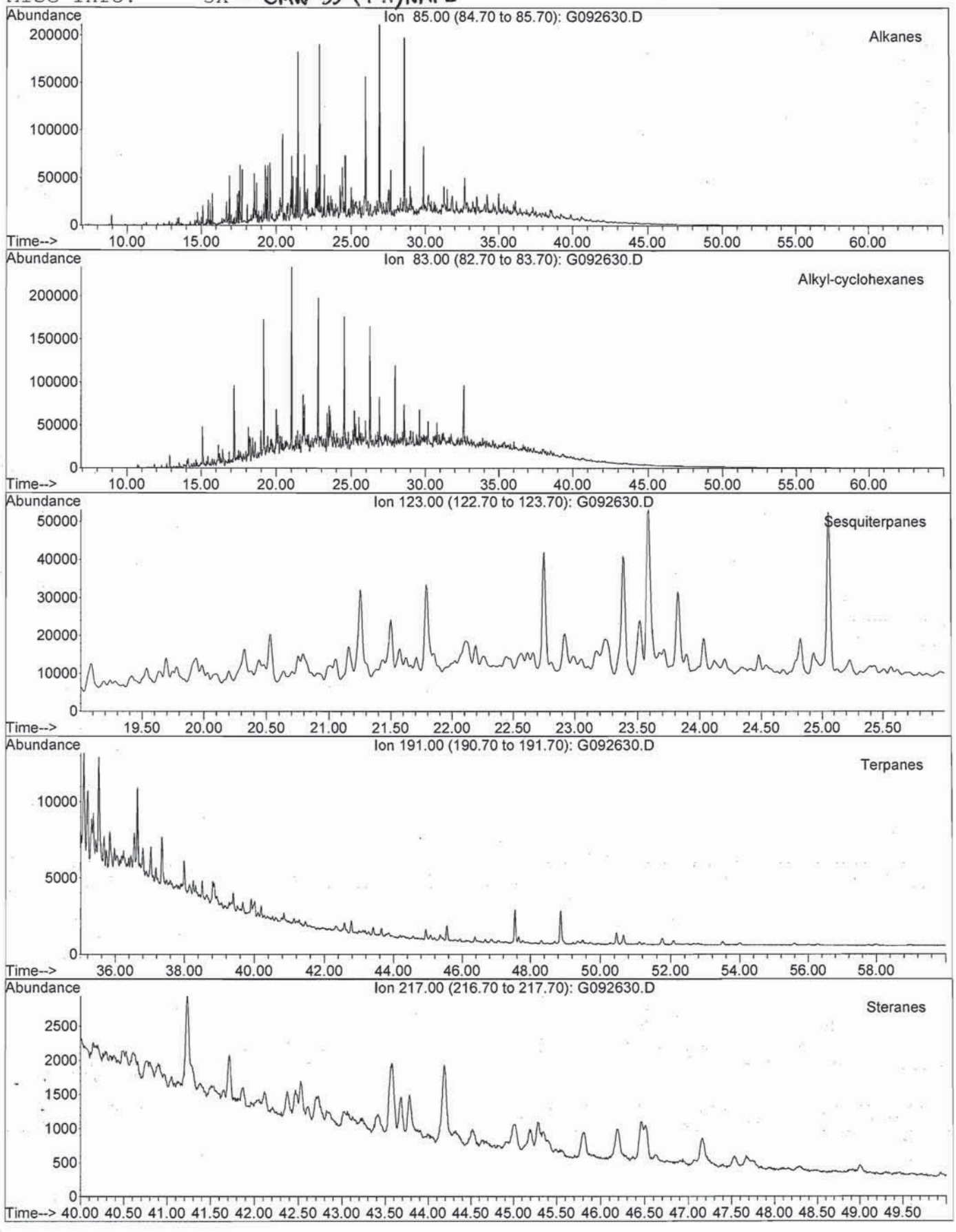
# Appendix E

# Extracted Ion Current Profiles (EICPs)

META Environmental, Inc.

GC/MS EXTRACTED ION CHROMATOGRAM

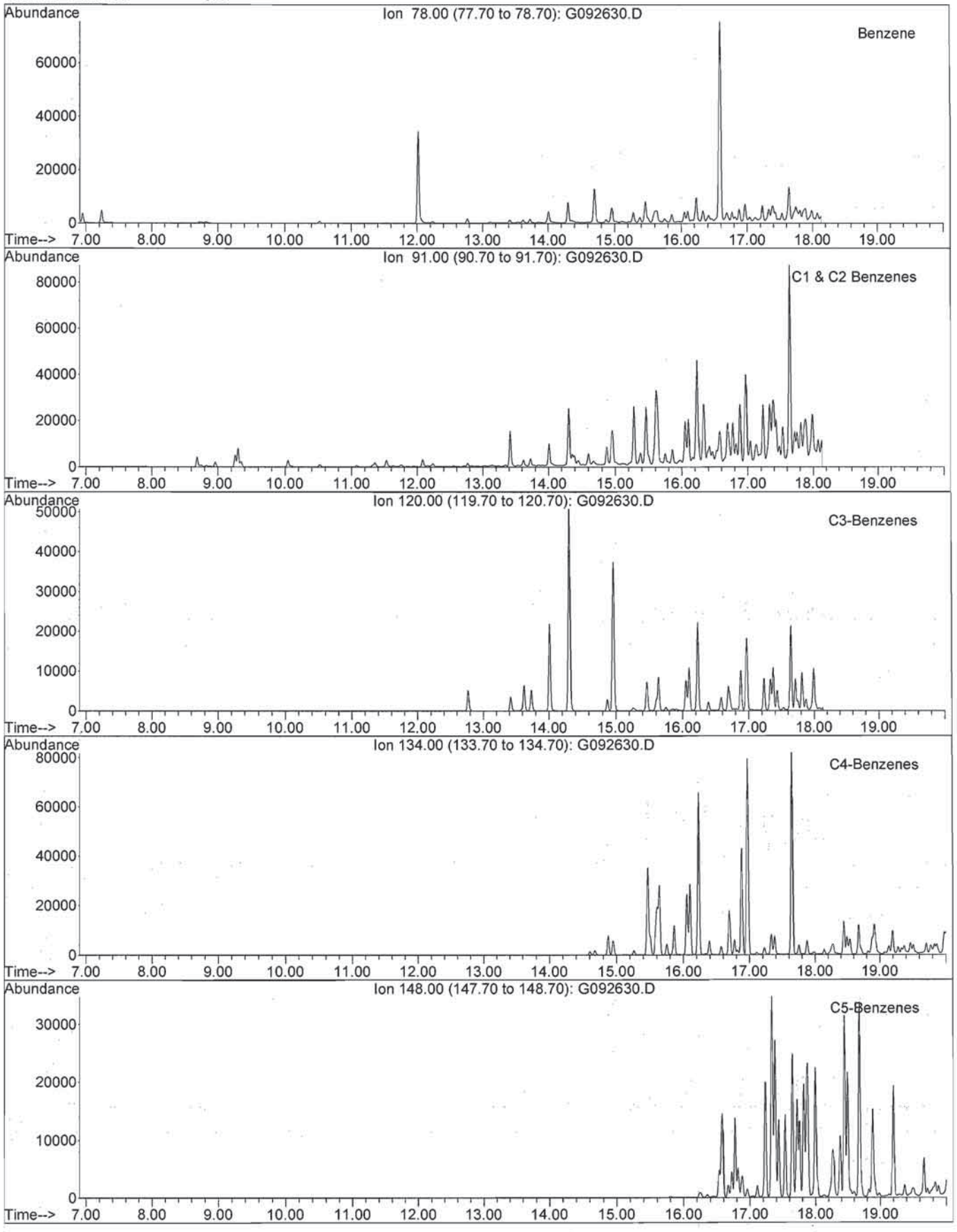
File: Z:\2\DATA\G110926\G092630.D
Date Acquired: 27 Sep 2011 10:39 pm
Sample Name: PA110919-01-D
Misc Info: 5X - CMW-35-(9-11)NAPL



META Environmental, Inc.

GC/MS EXTRACTED ION CHROMATOGRAM

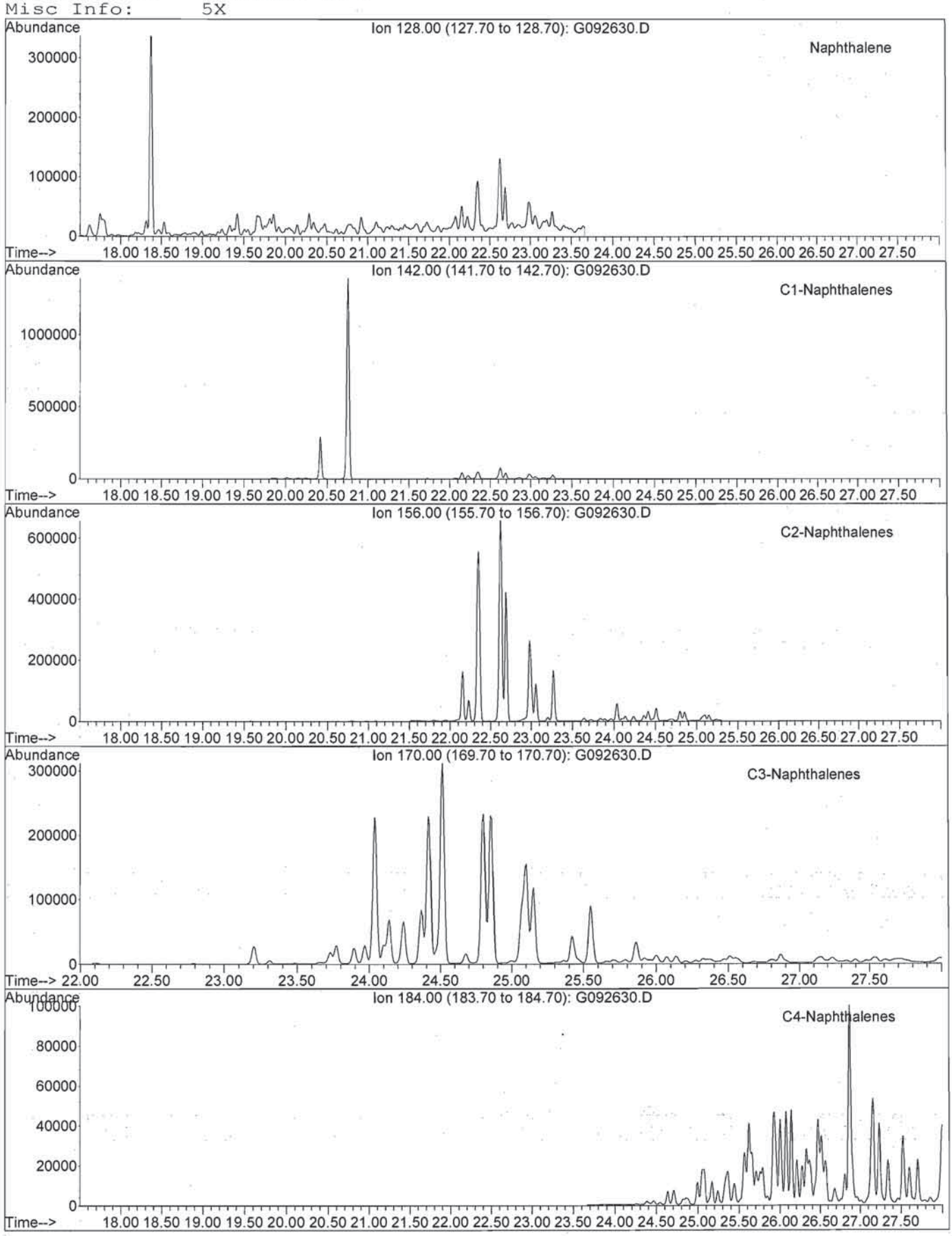
File: Z:\2\DATA\G110926\G092630.D
Date Acquired: 27 Sep 2011 10:39 pm
Sample Name: PA110919-01-D
Misc Info: 5X



META Environmental, Inc.

GC/MS EXTRACTED ION CHROMATOGRAM

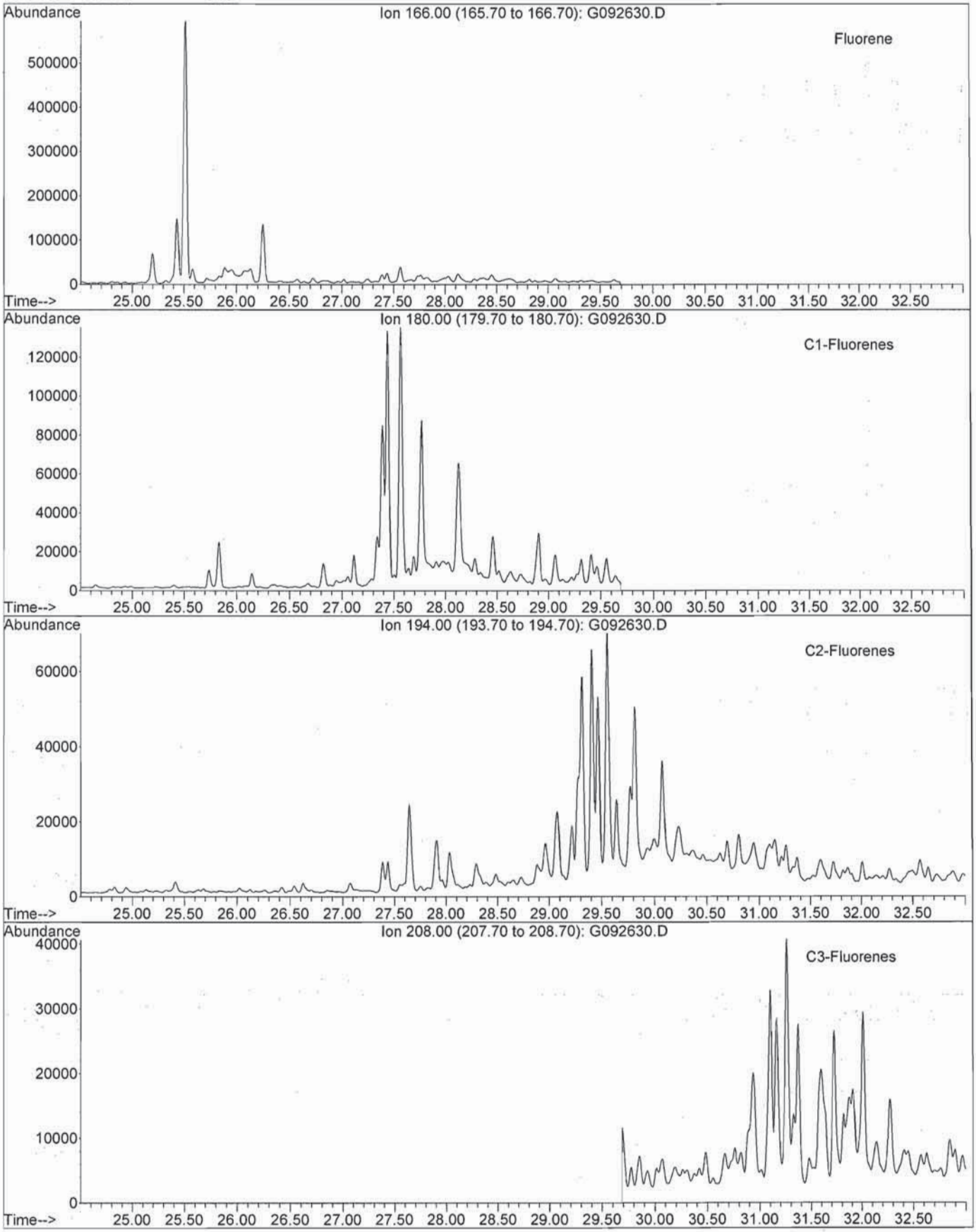
File: Z:\2\DATA\G110926\G092630.D
Date Acquired: 27 Sep 2011 10:39 pm
Sample Name: PA110919-01-D
Misc Info: 5X



META Environmental, Inc.

GC/MS EXTRACTED ION CHROMATOGRAM

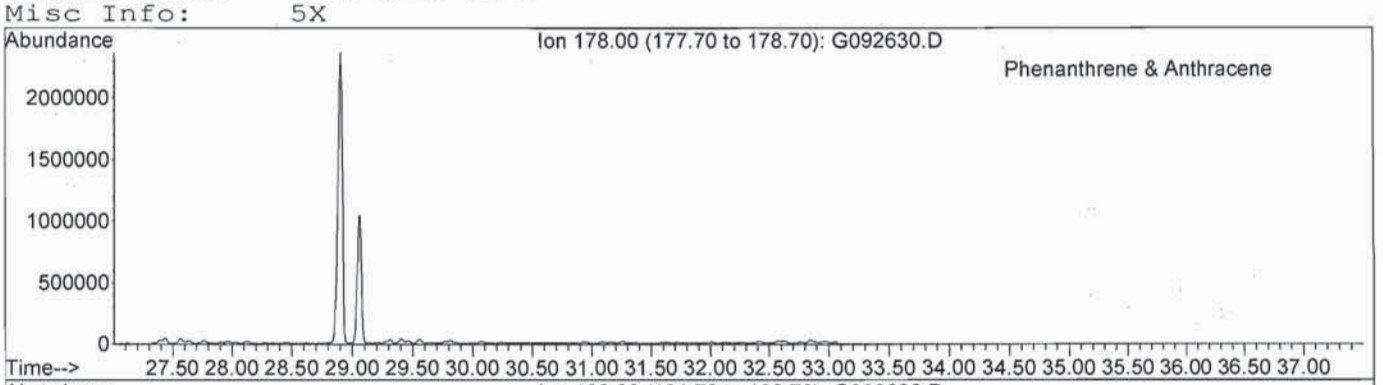
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Date Acquired: 27 Sep 2011 10:39 pm
Sample Name: PA110919-01-D
Misc Info: 5X

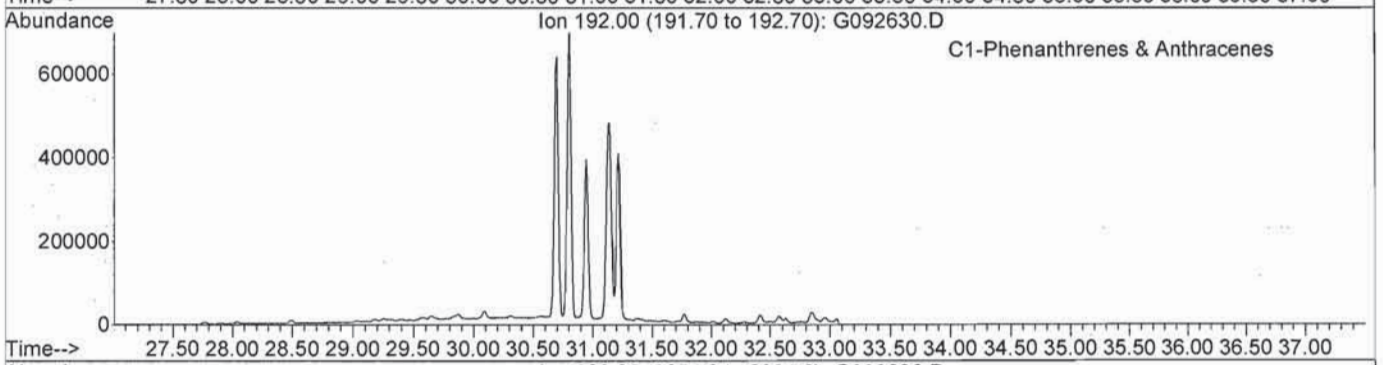


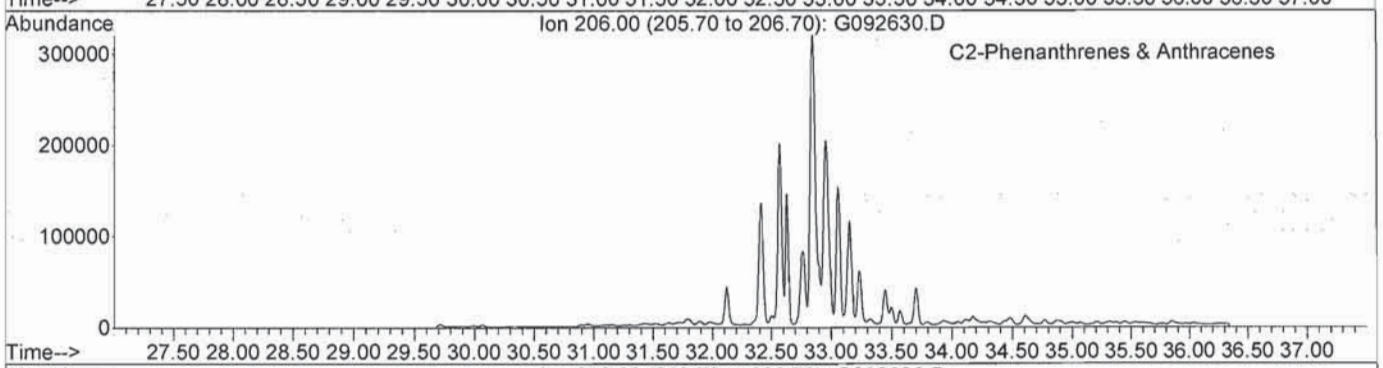
META Environmental, Inc.

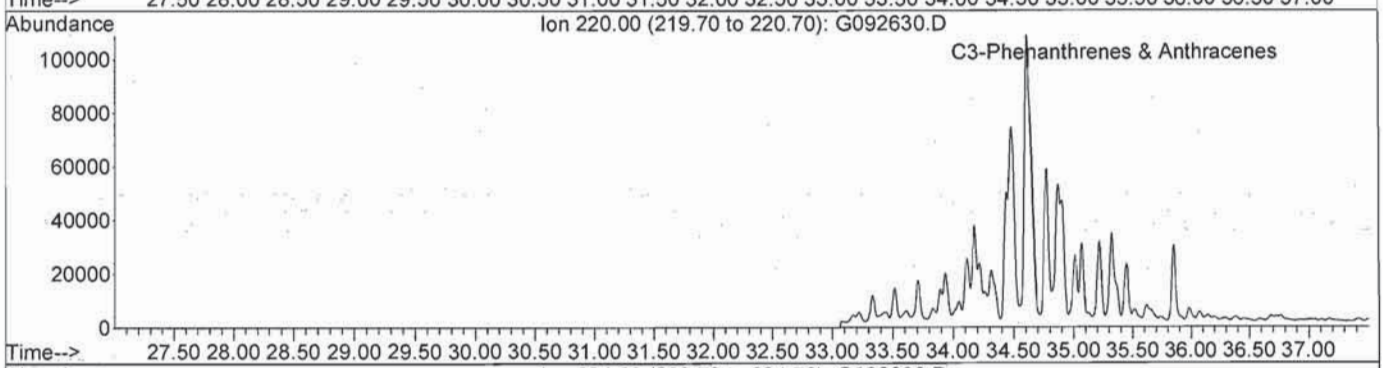
GC/MS EXTRACTED ION CHROMATOGRAM

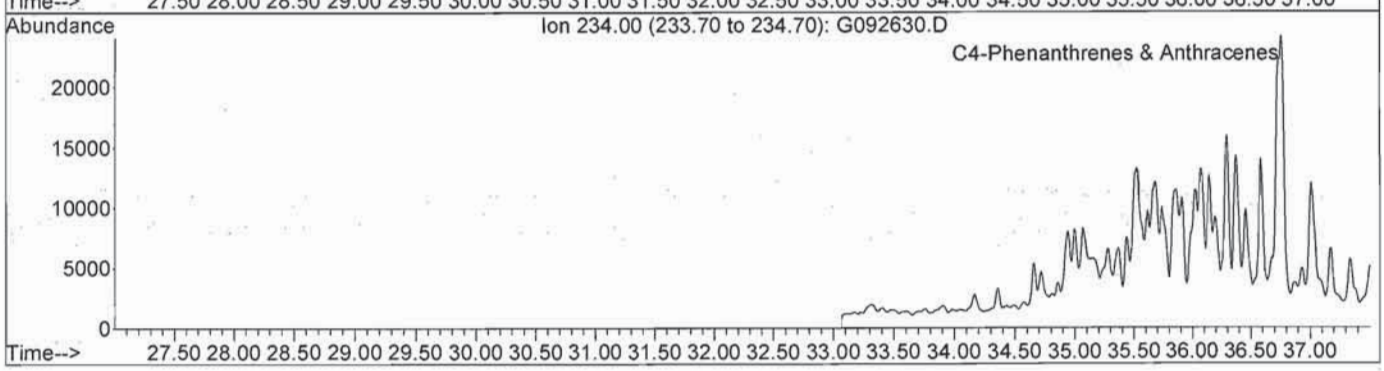
File: Z:\2\DATA\G110926\G092630.D
Date Acquired: 27 Sep 2011 10:39 pm
Sample Name: PA110919-01-D
Misc Info: 5X



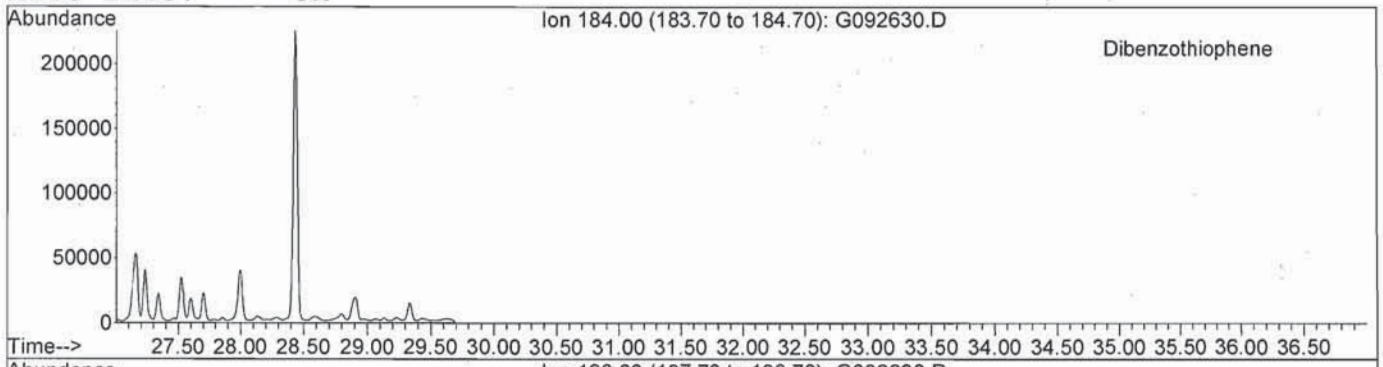



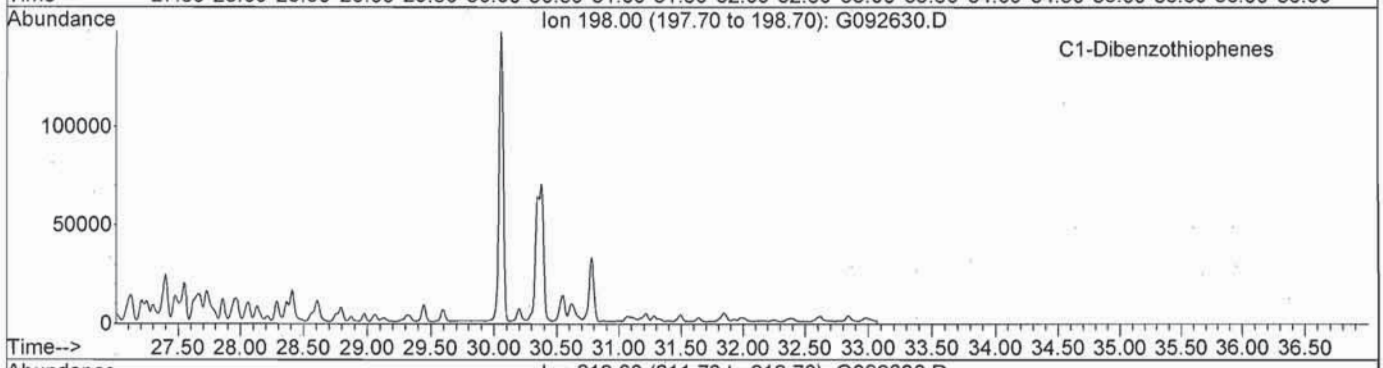



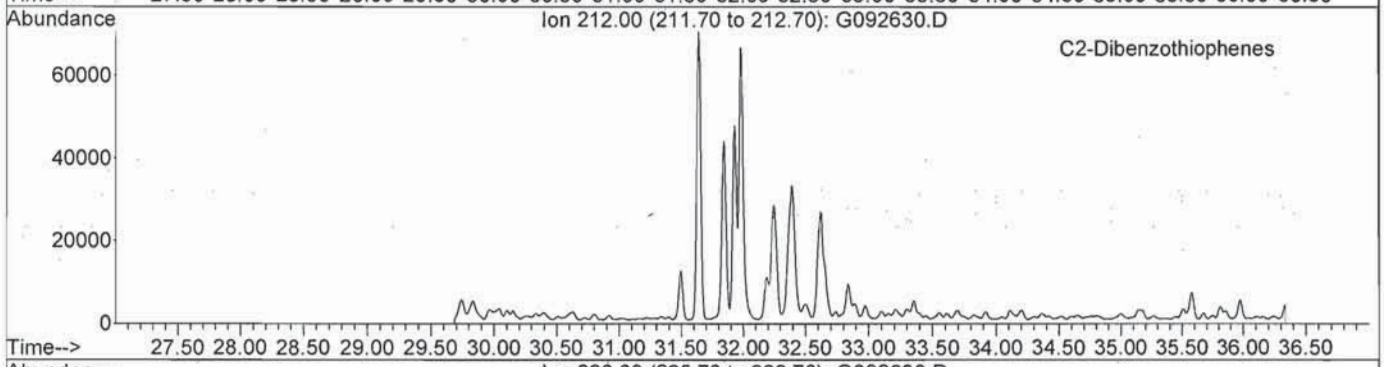
META Environmental, Inc.

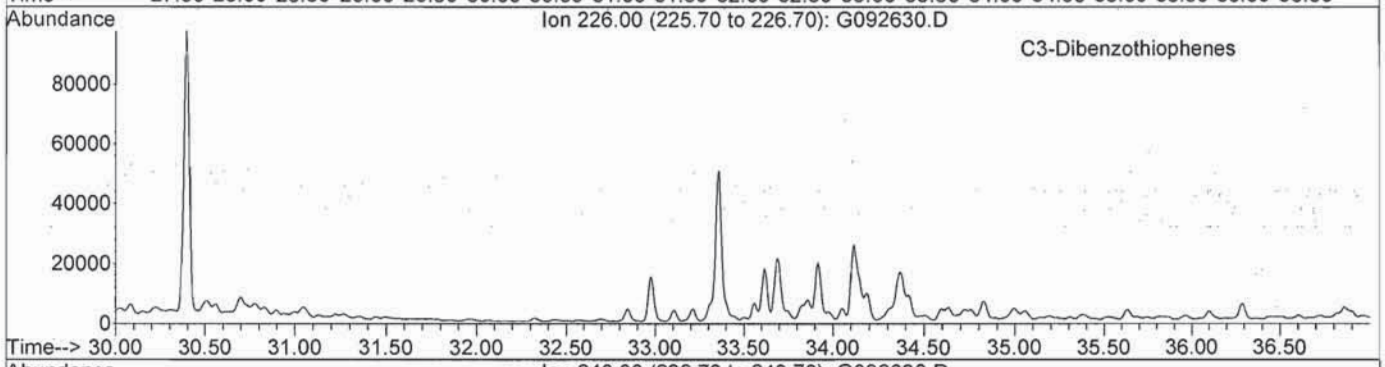
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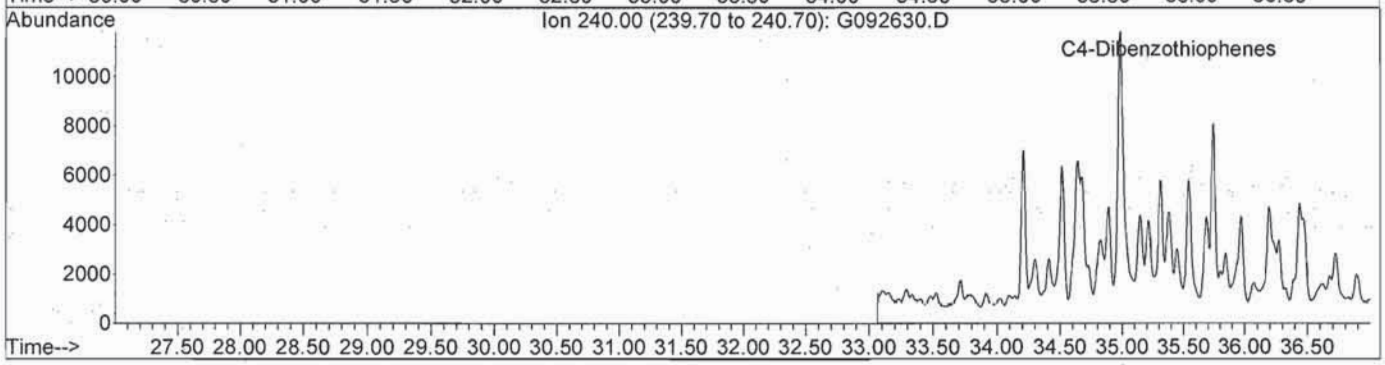
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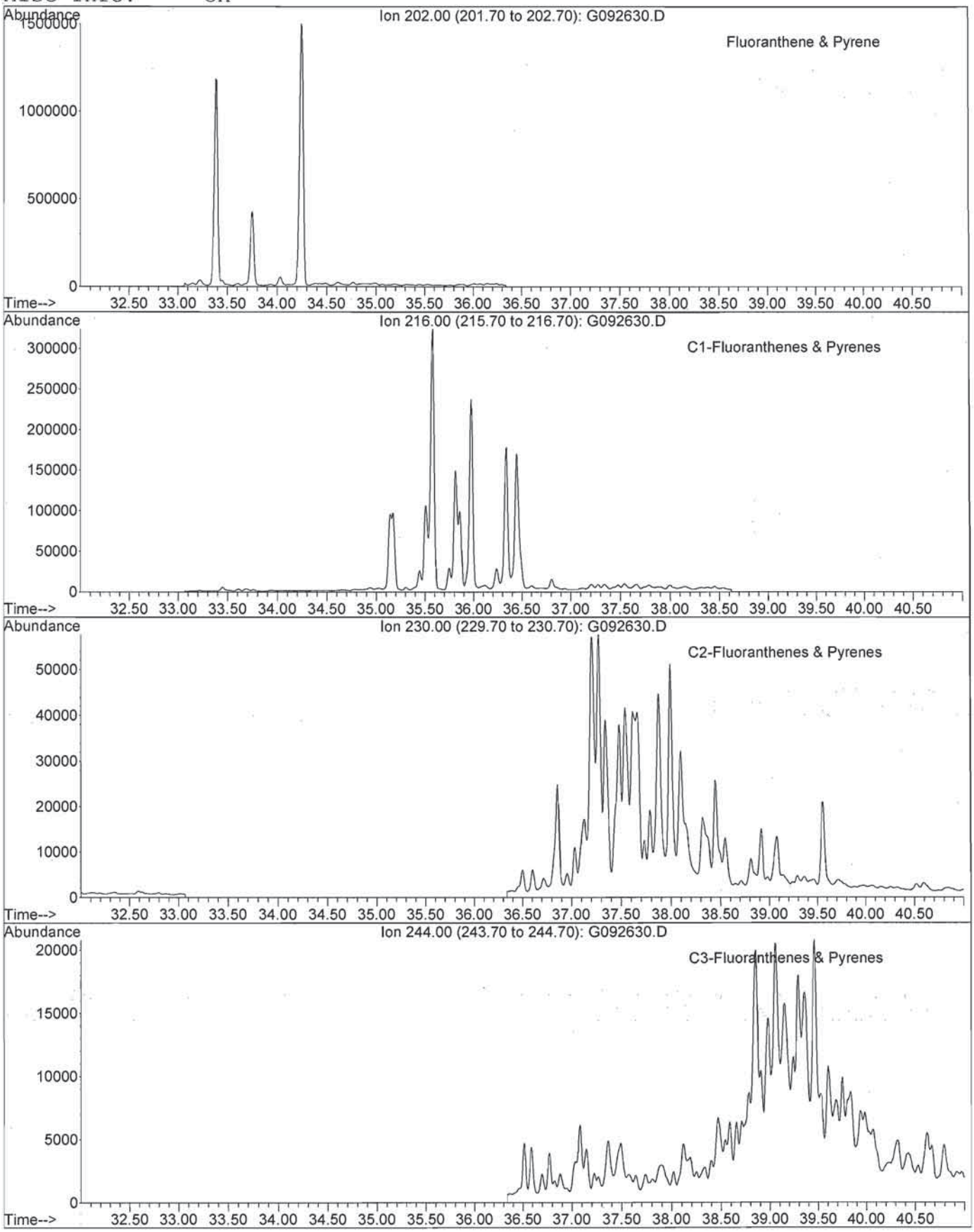



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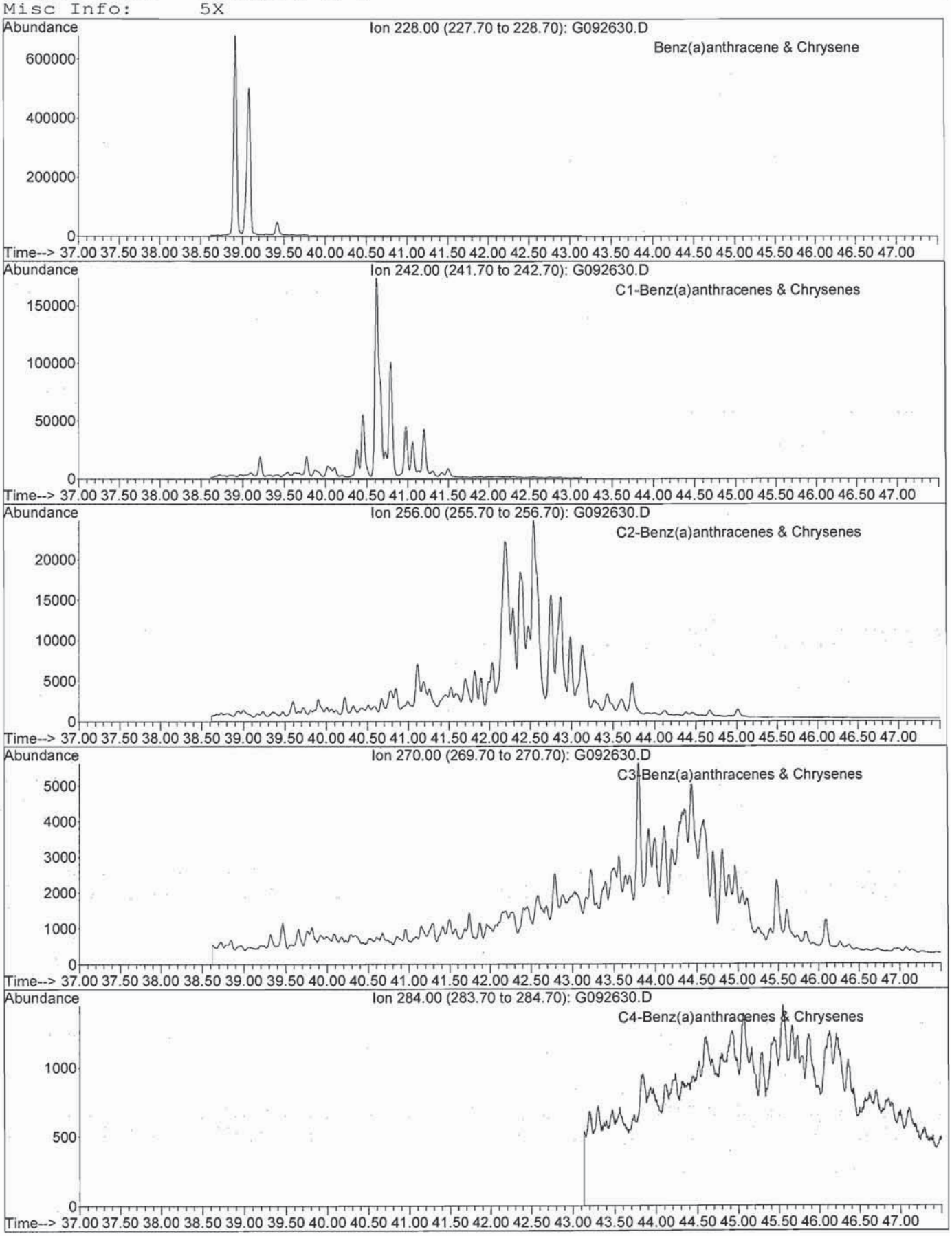
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META Environmental, Inc.

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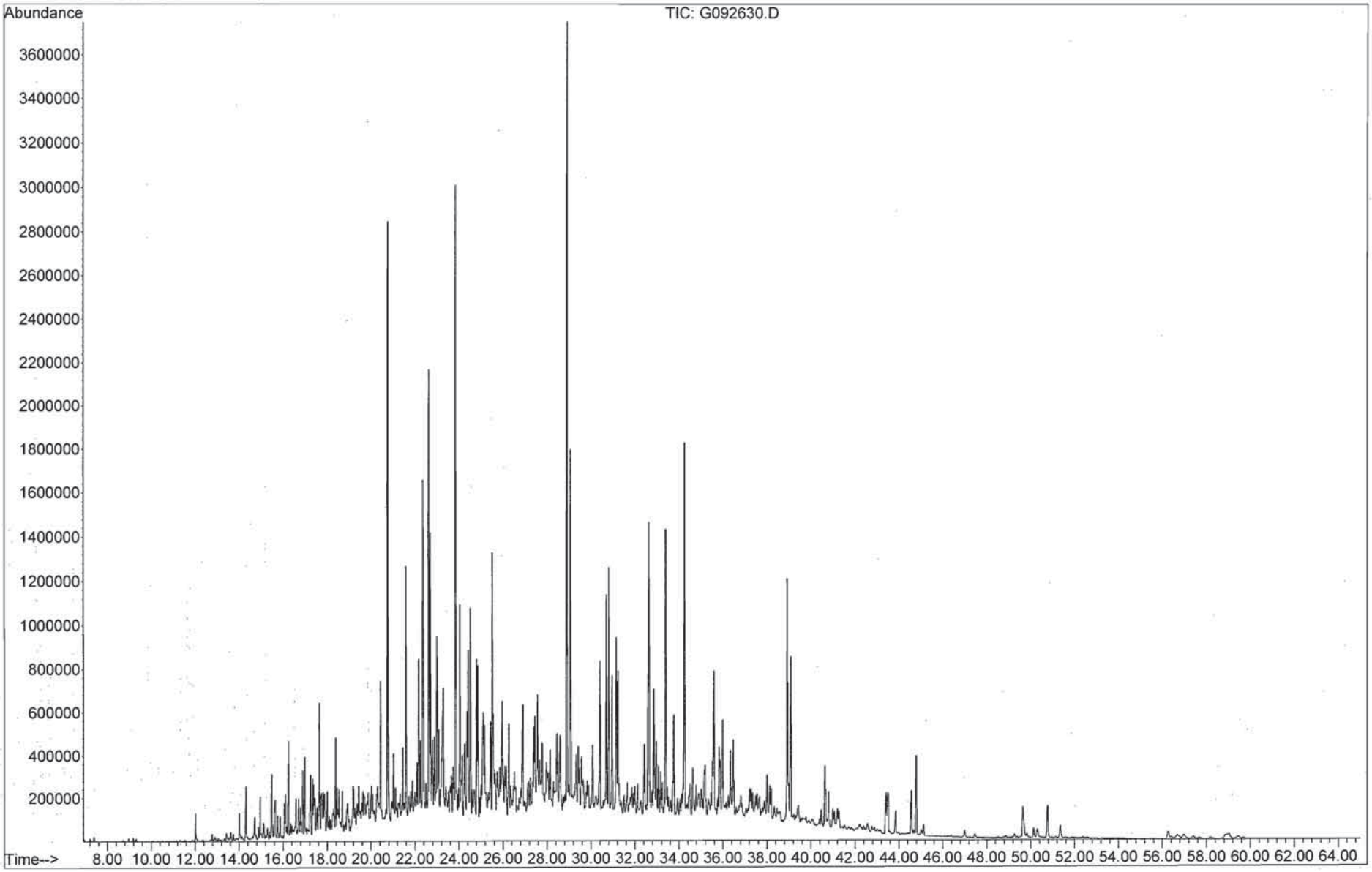
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META Environmental, Inc.

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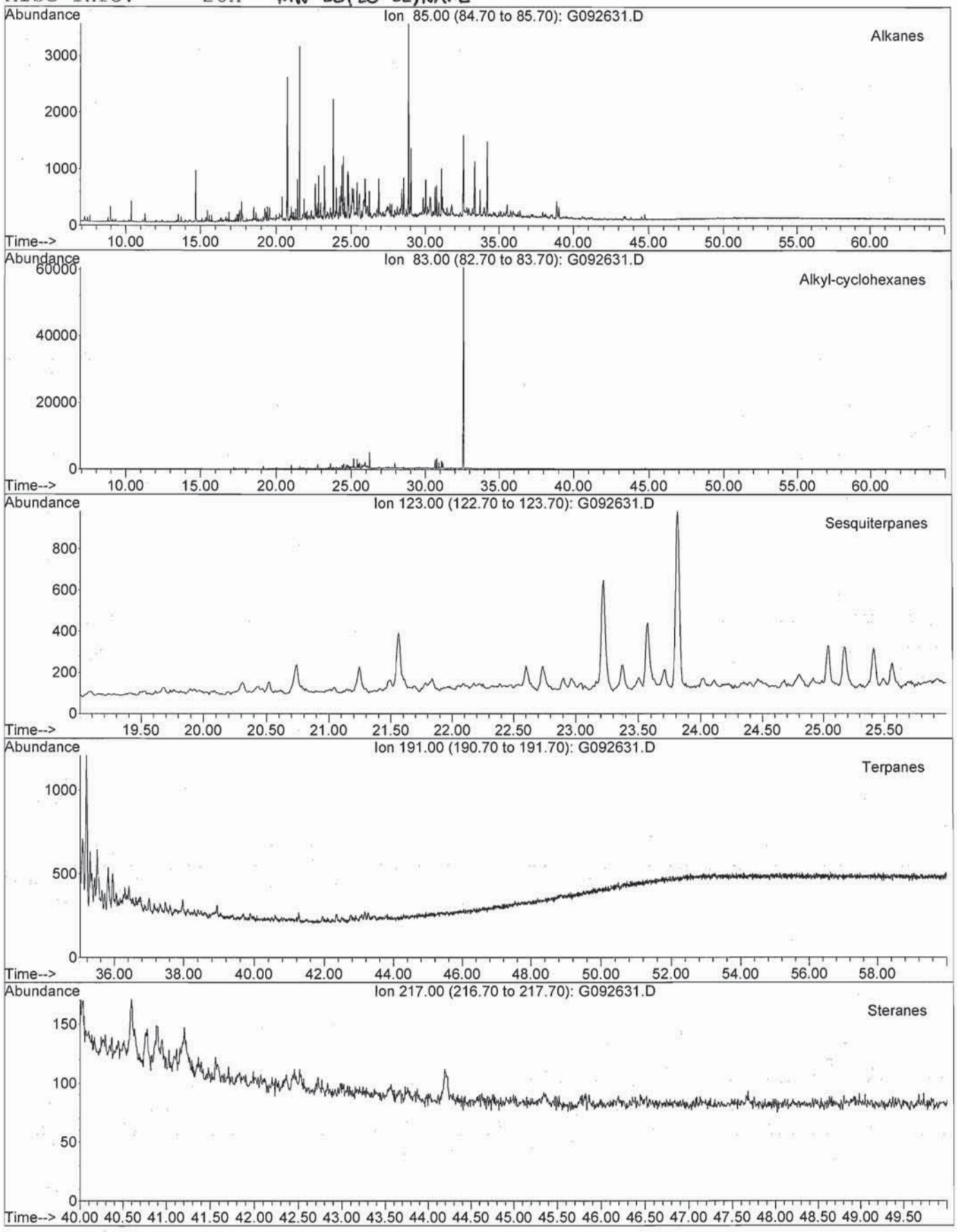
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META Environmental, Inc.

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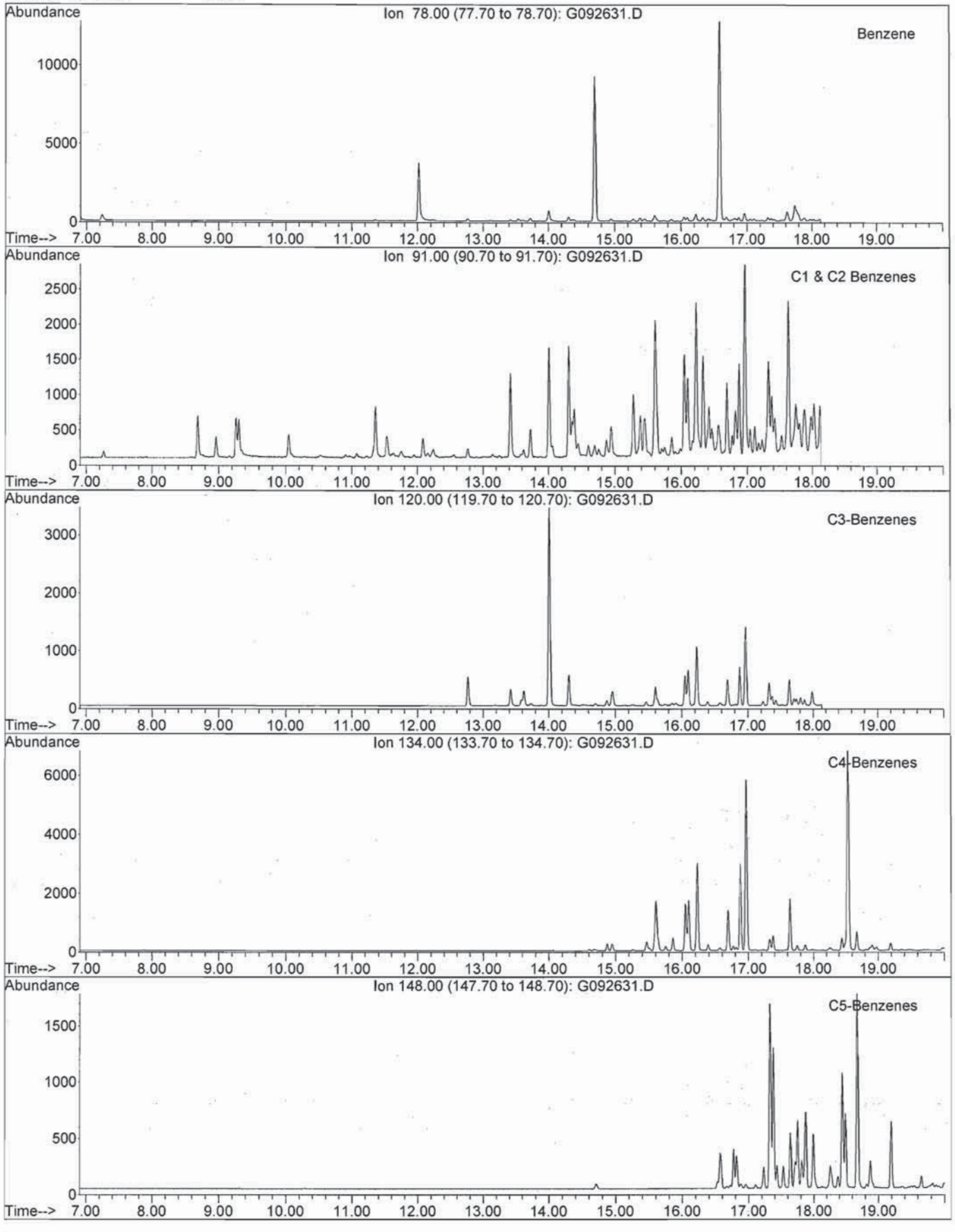
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META Environmental, Inc.

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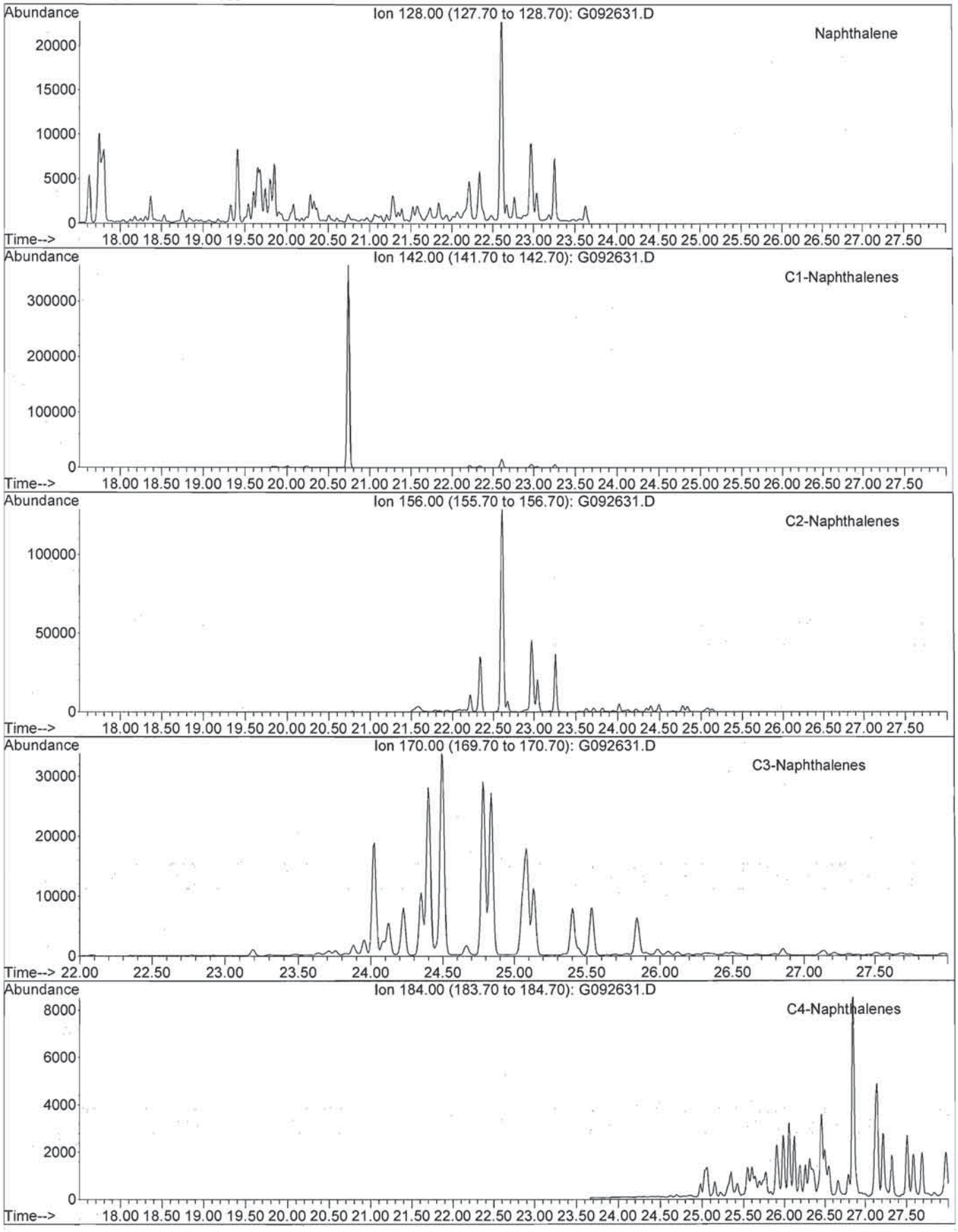
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META Environmental, Inc.

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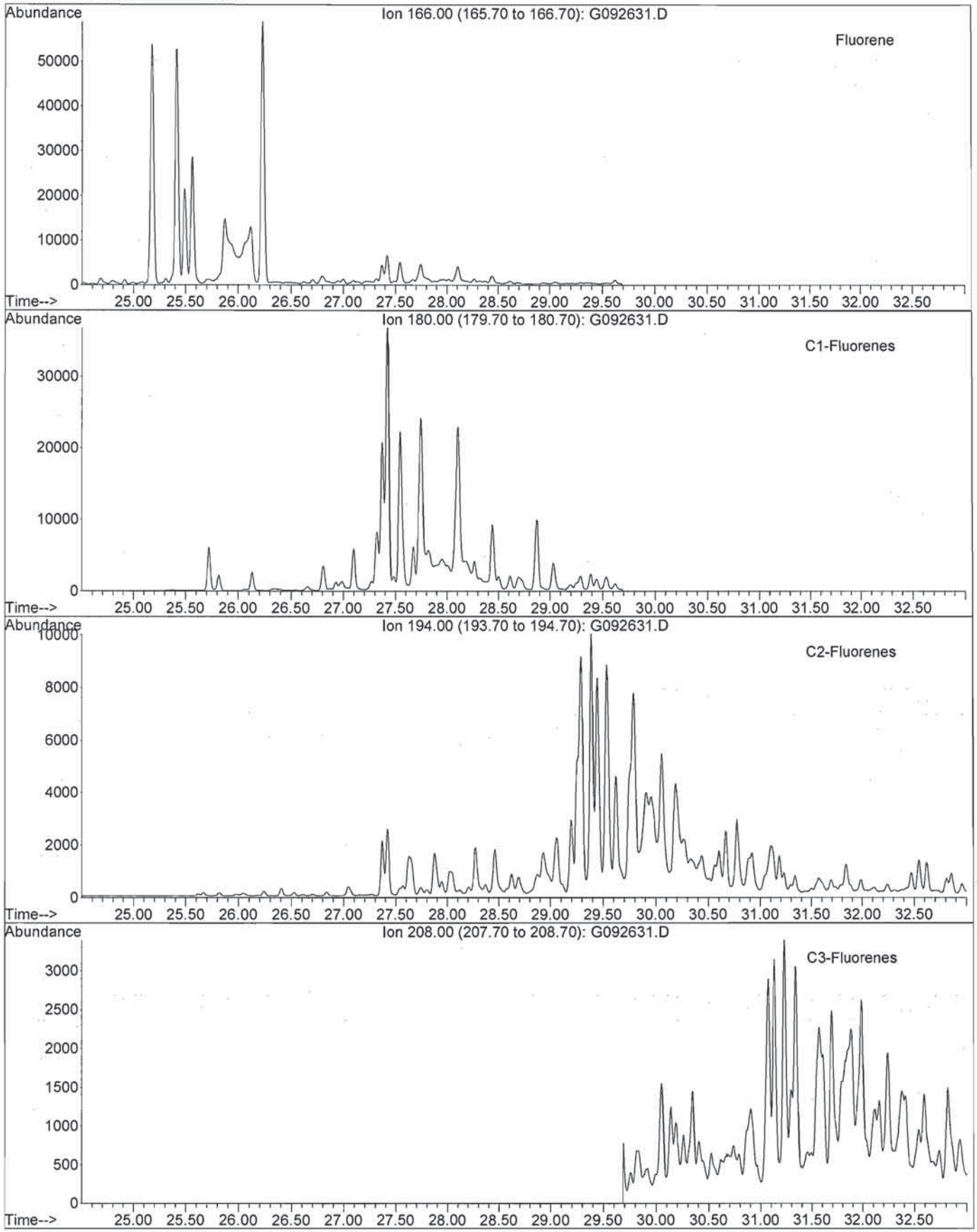
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META Environmental, Inc.

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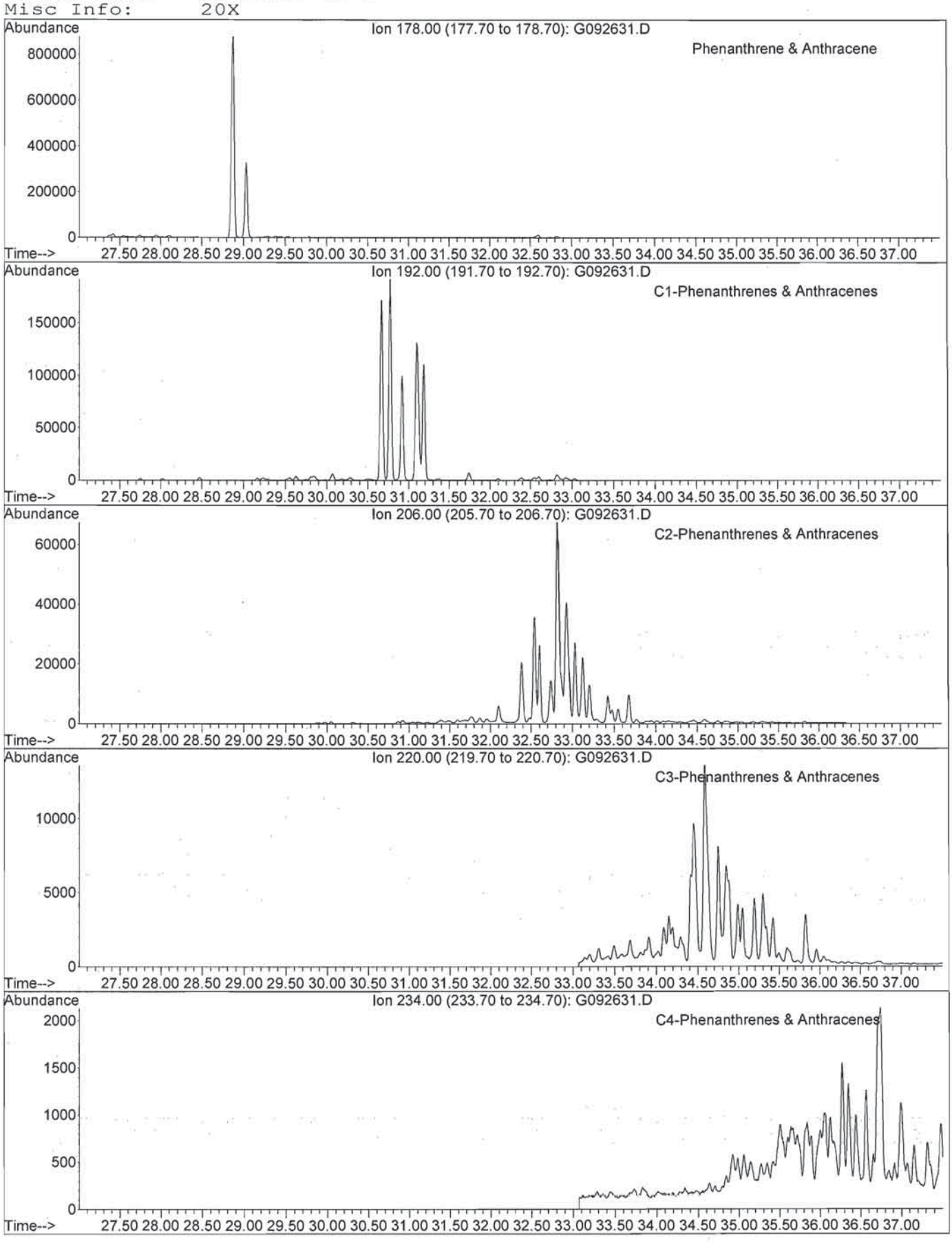
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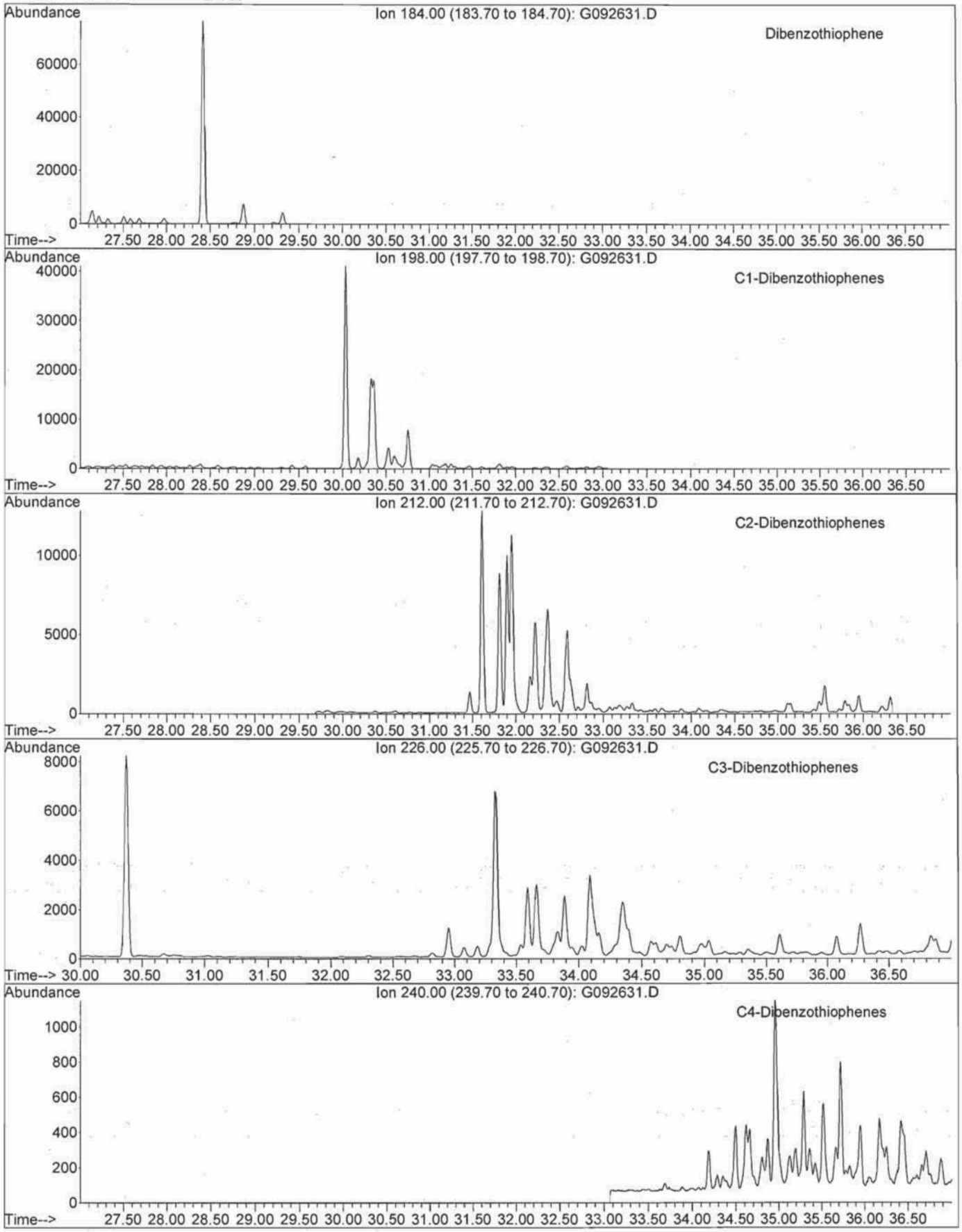
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META Environmental, Inc.

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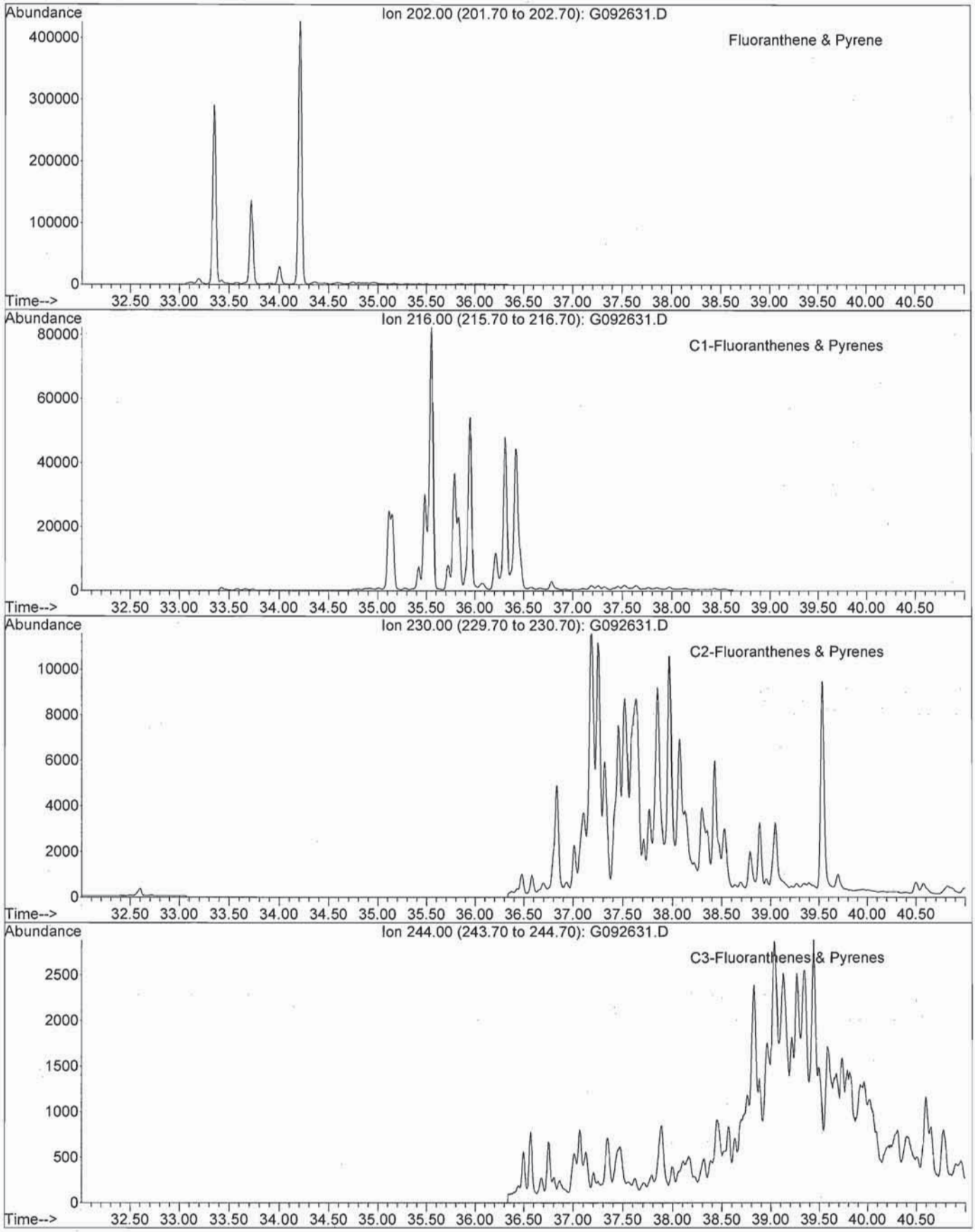
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META Environmental, Inc.

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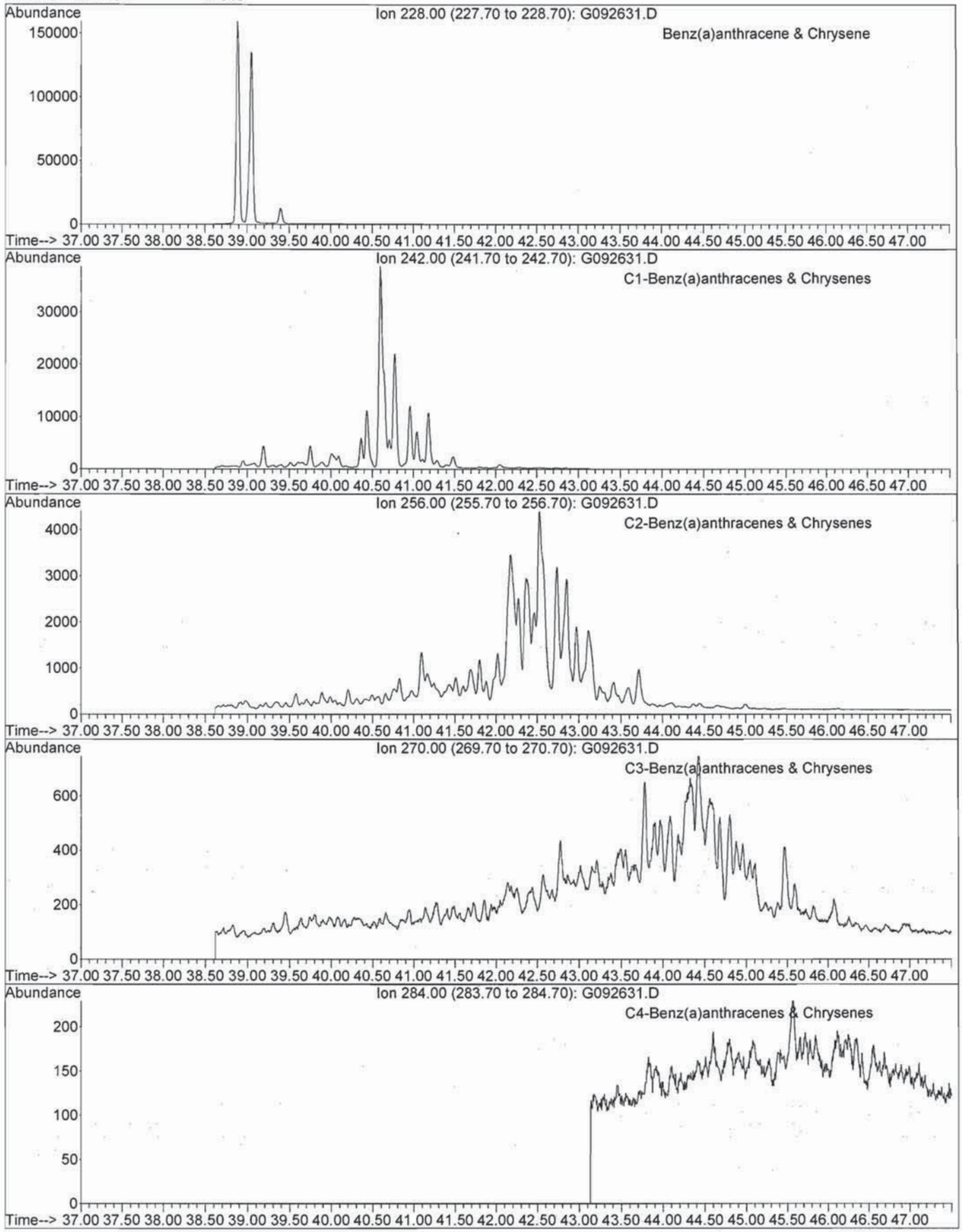
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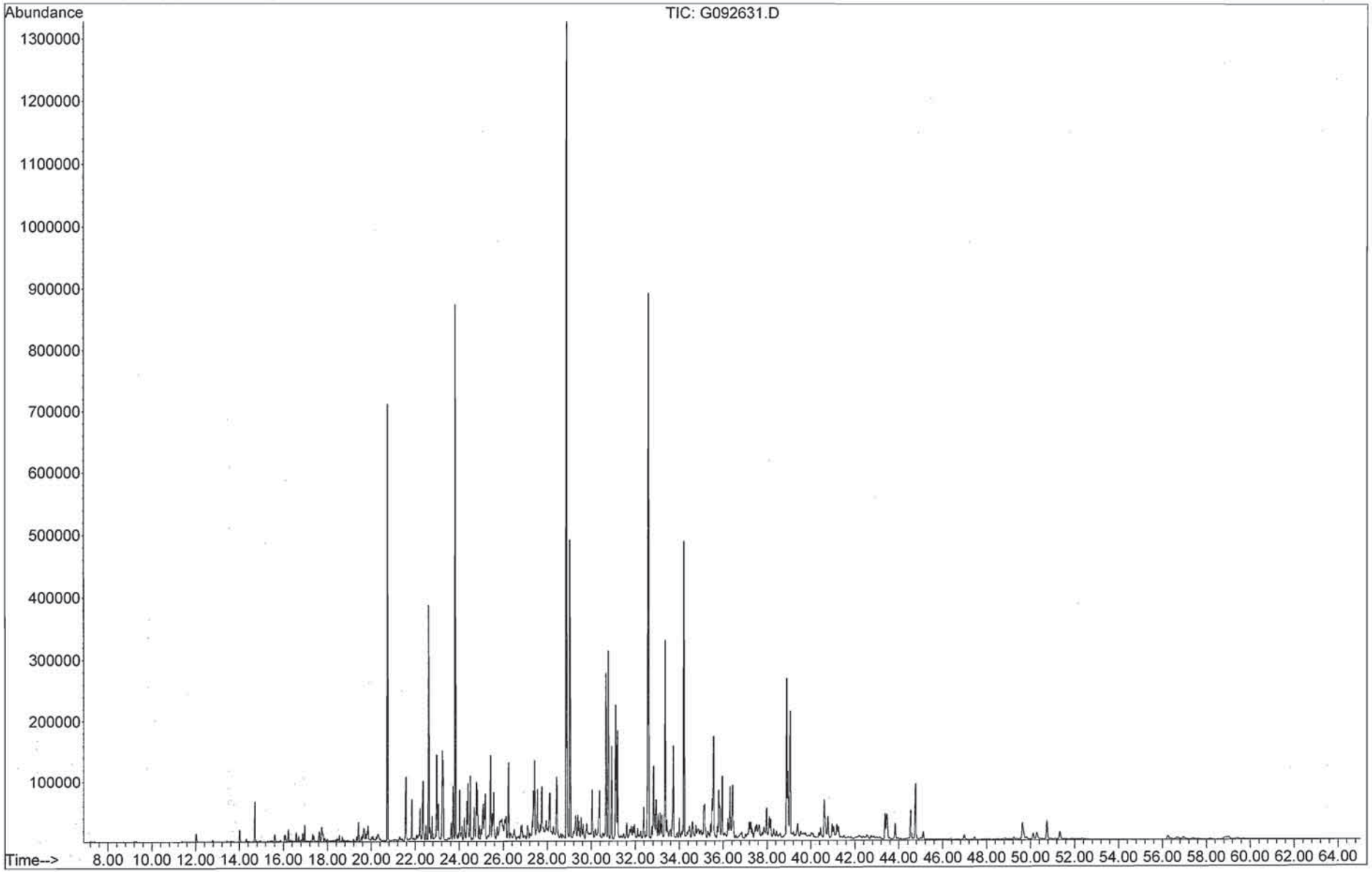
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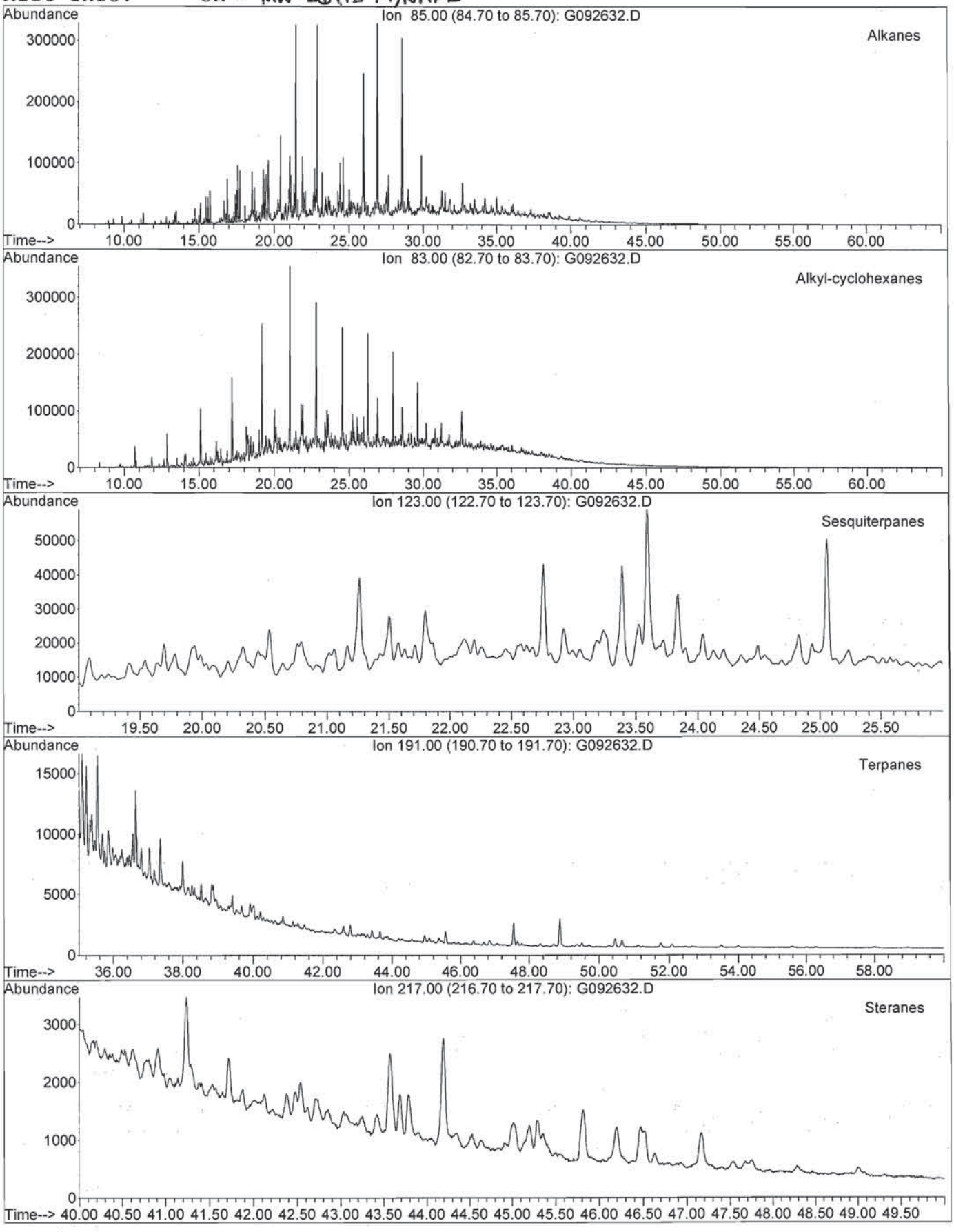
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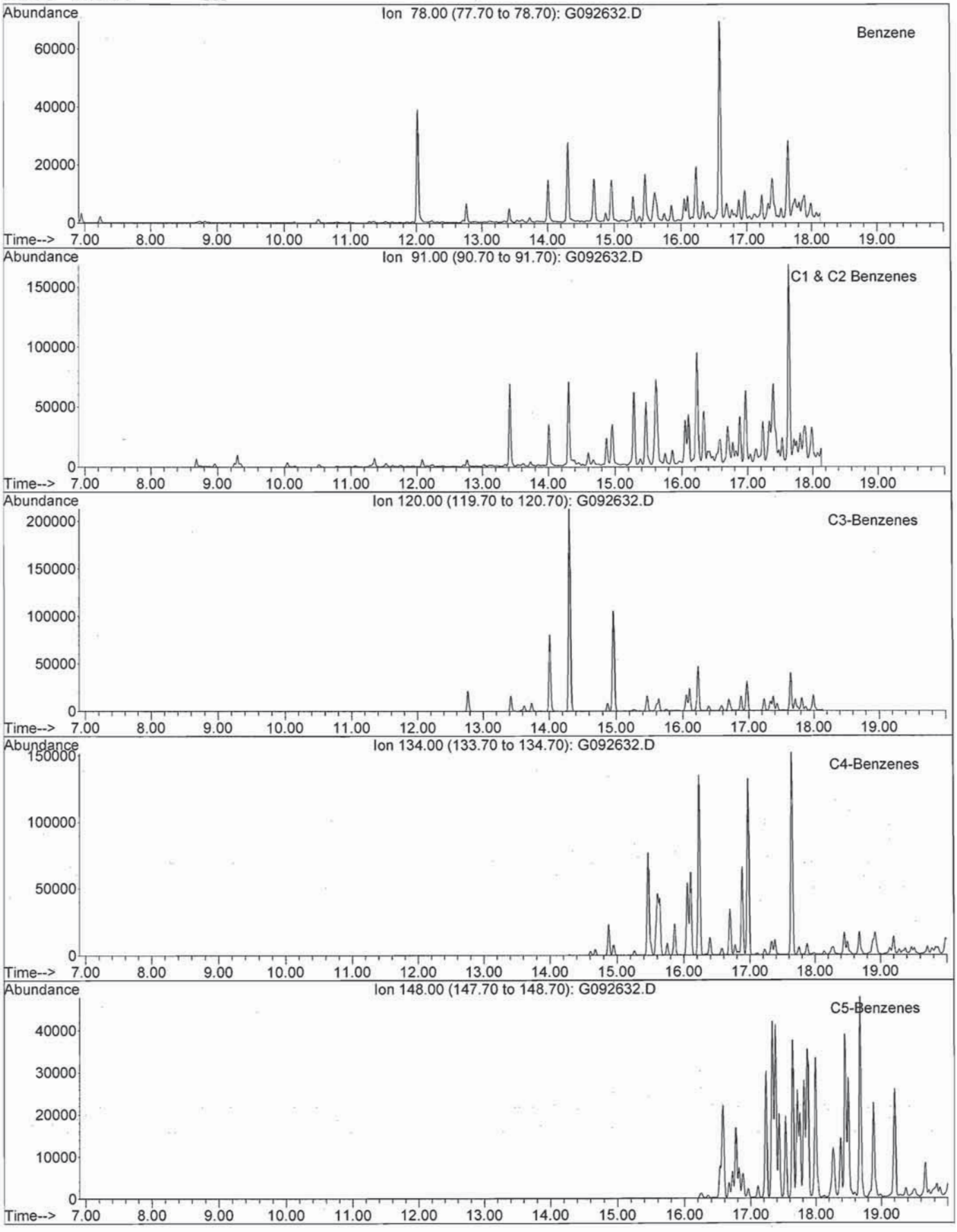
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META Environmental, Inc.

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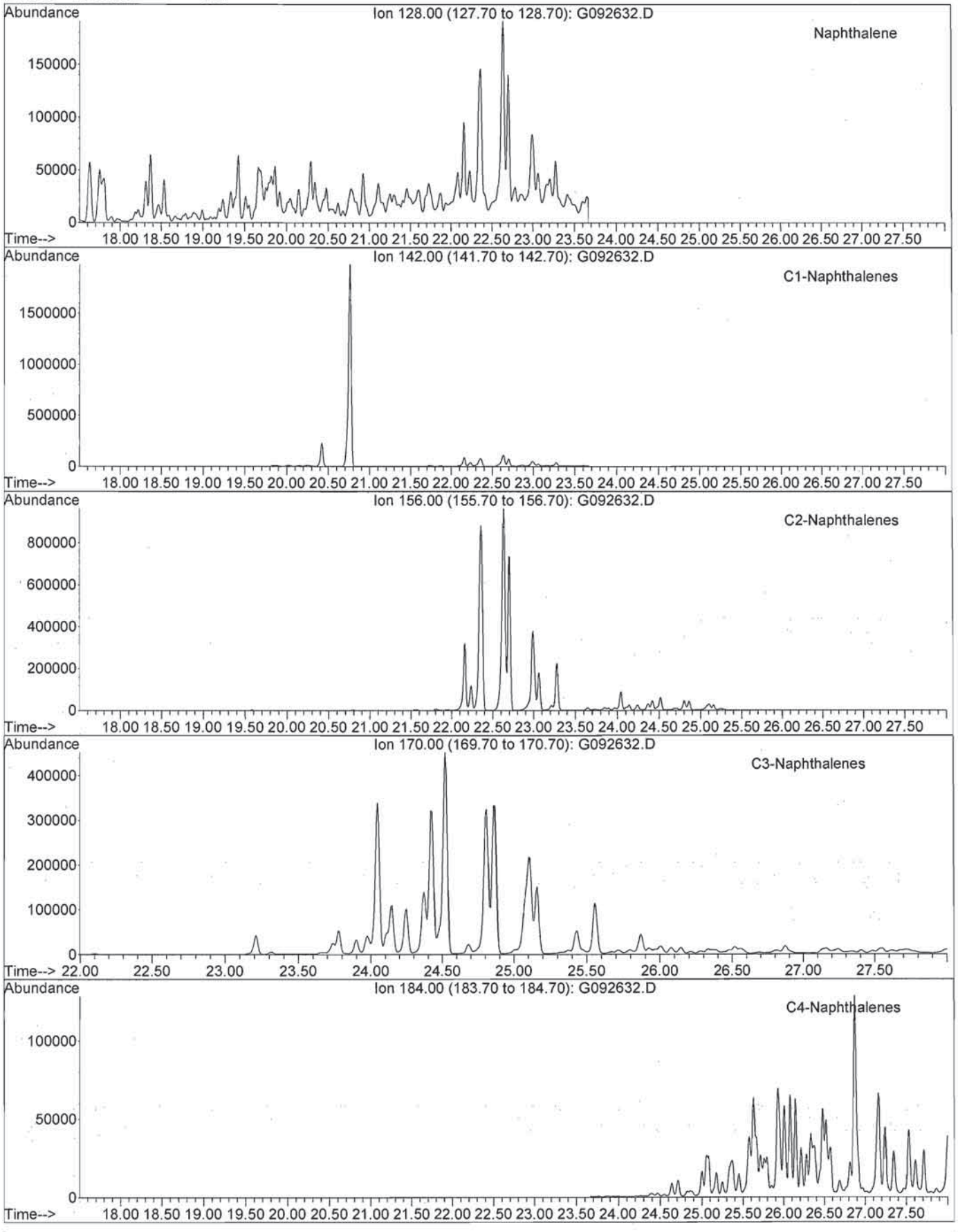
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META Environmental, Inc.

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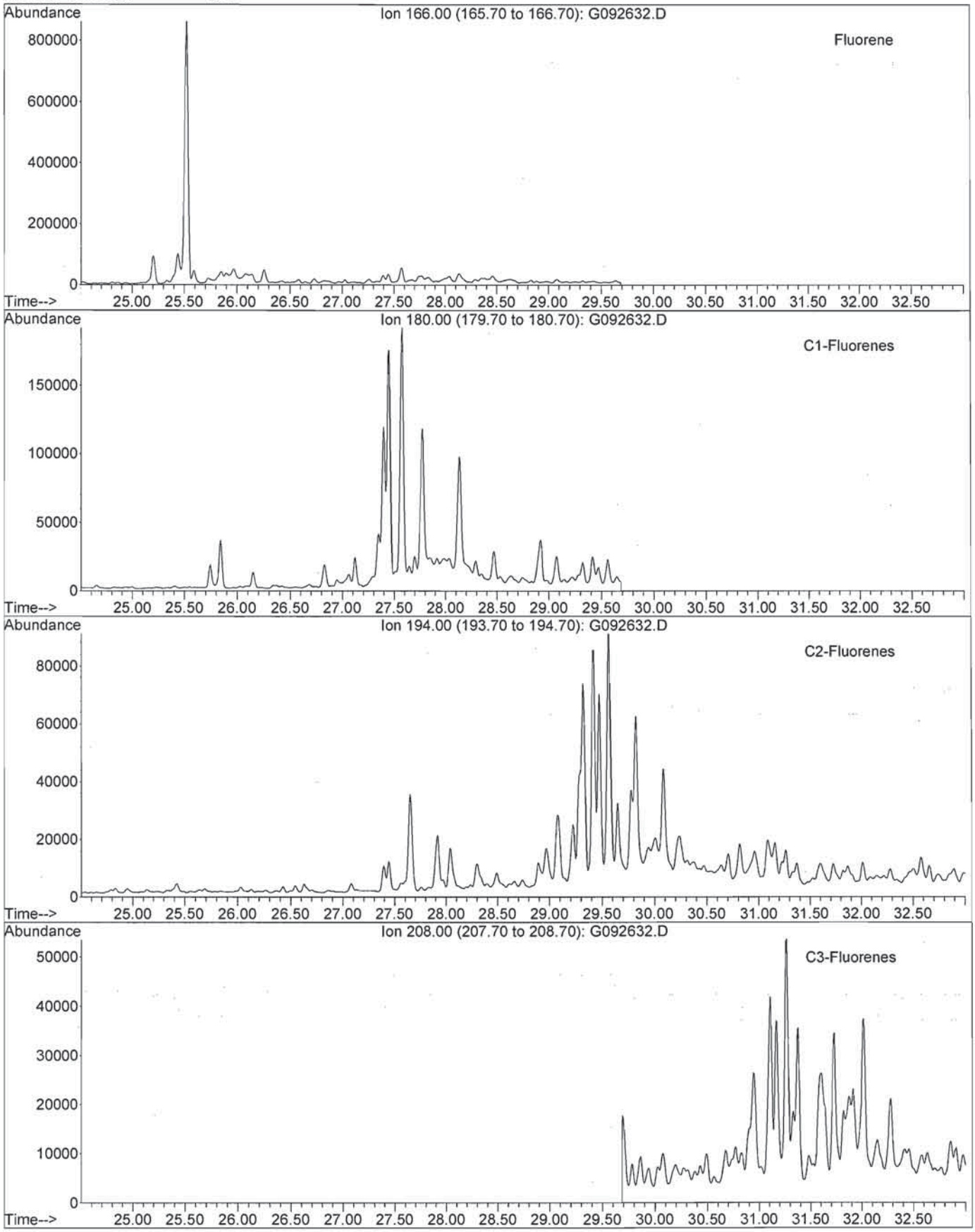
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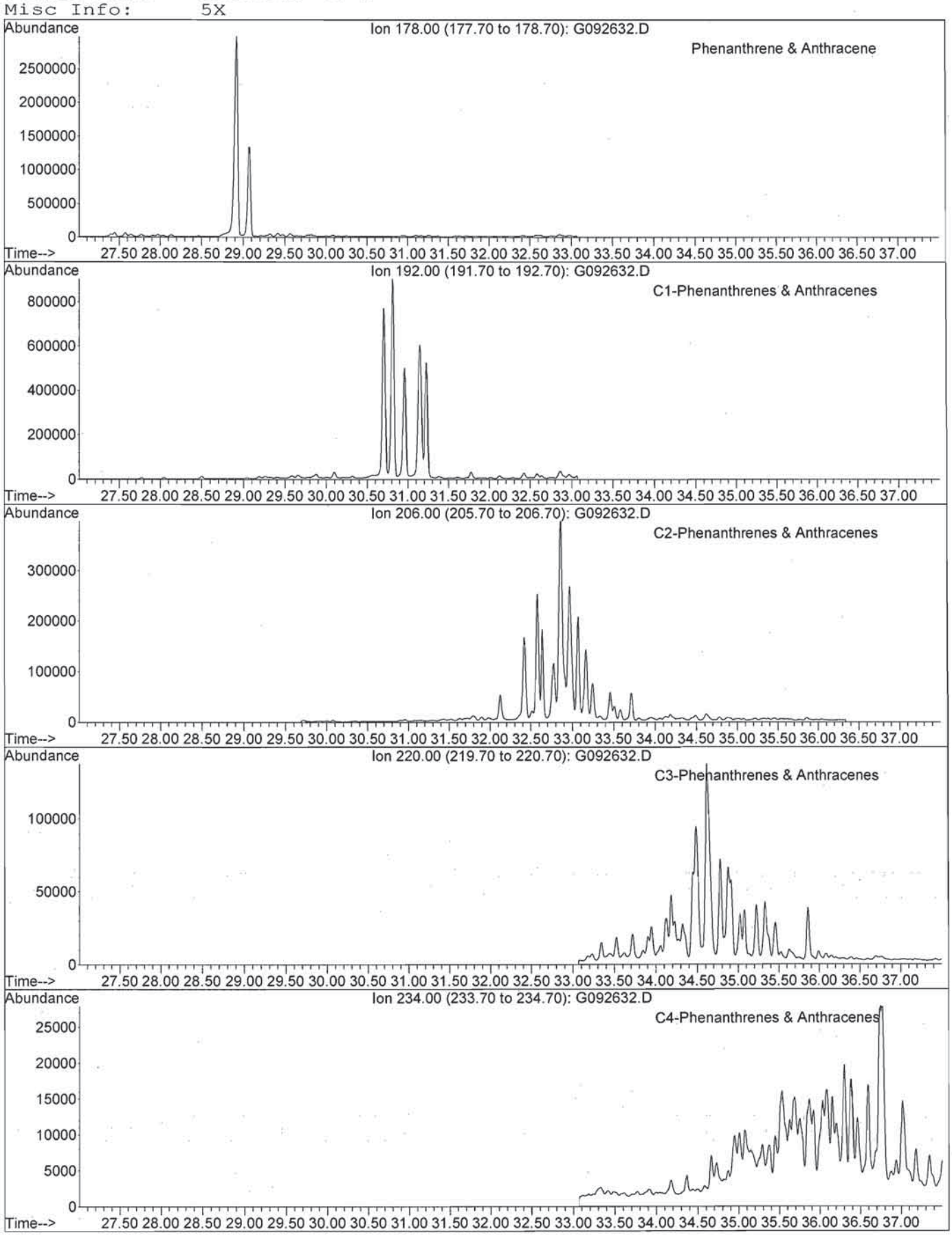
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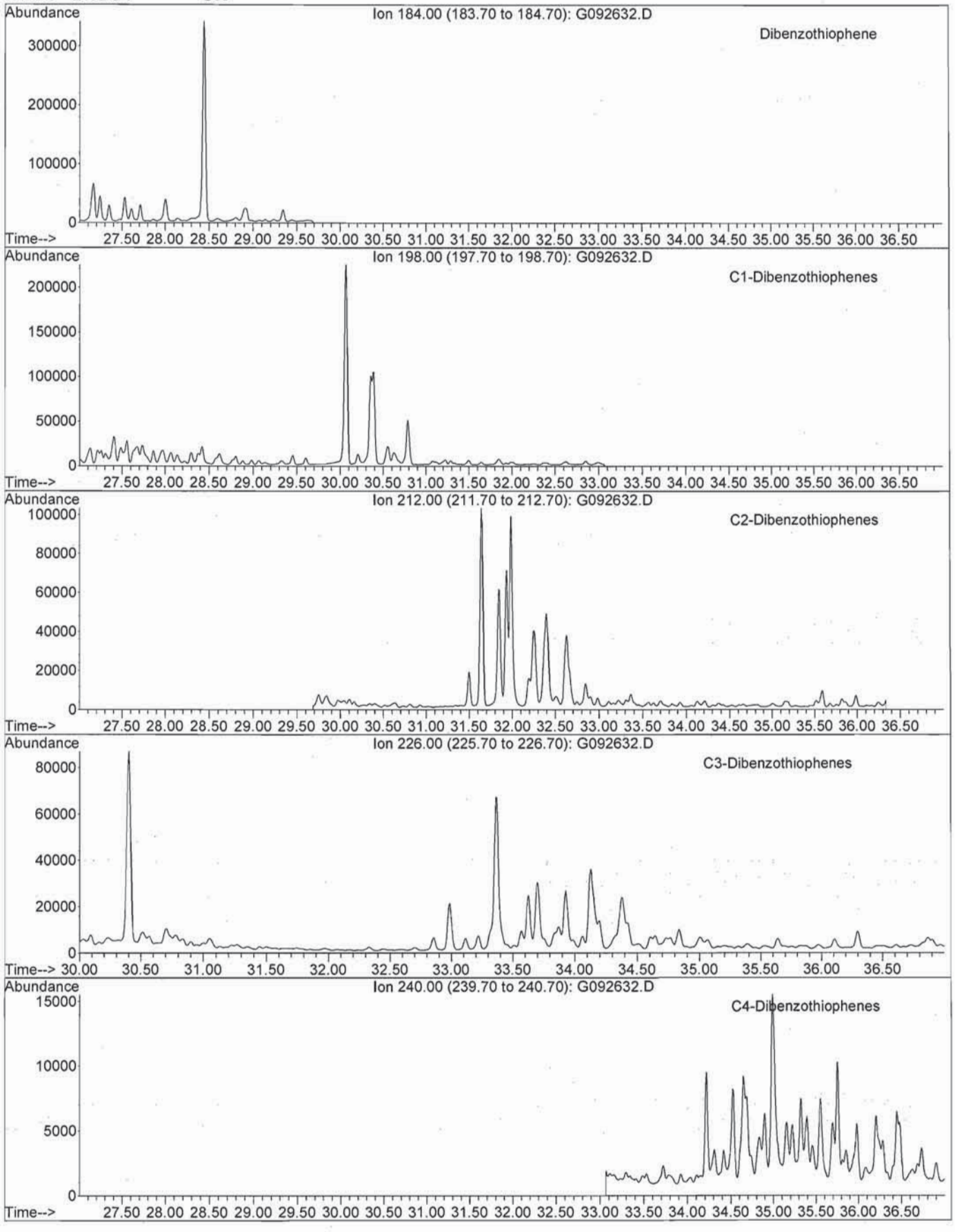
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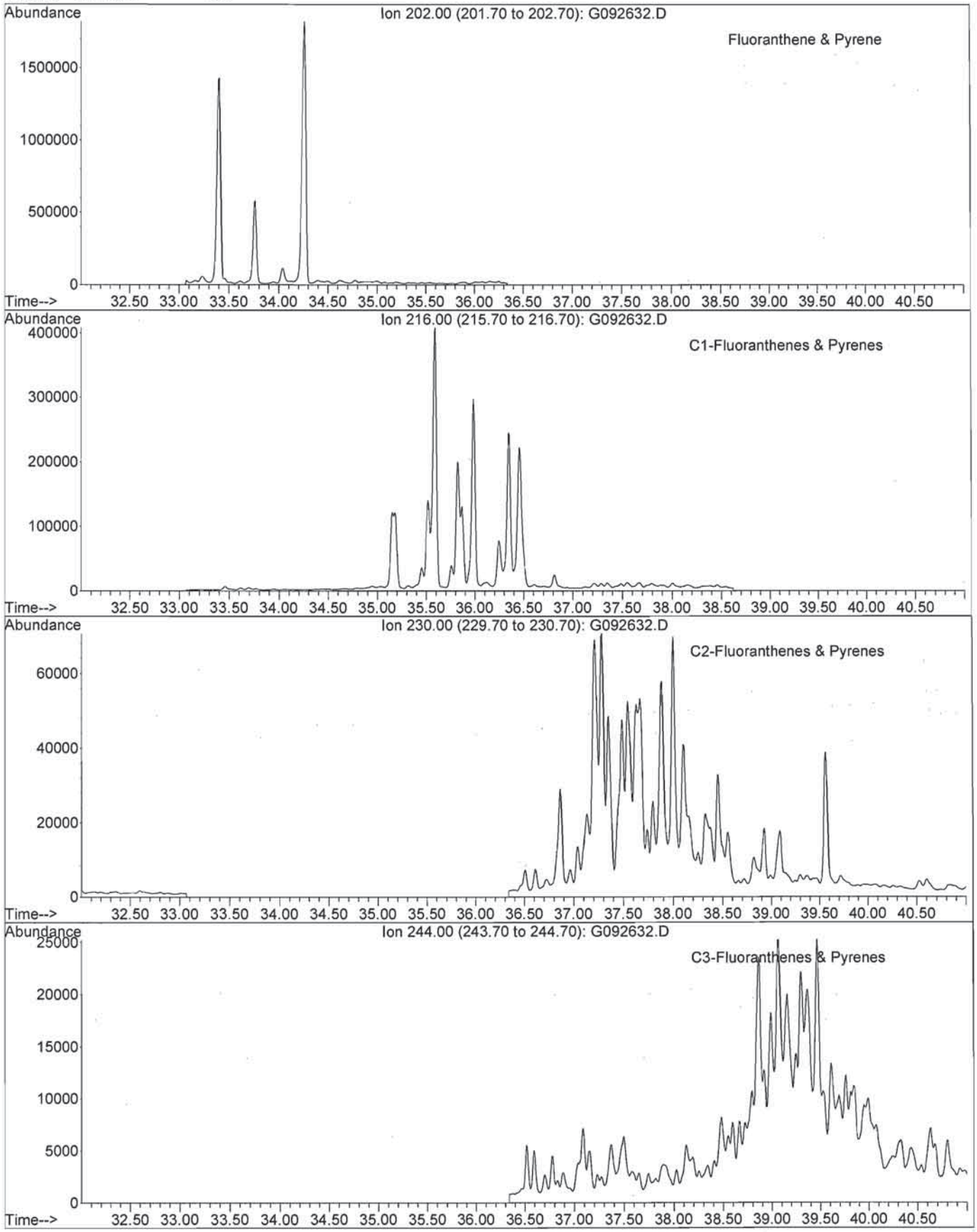
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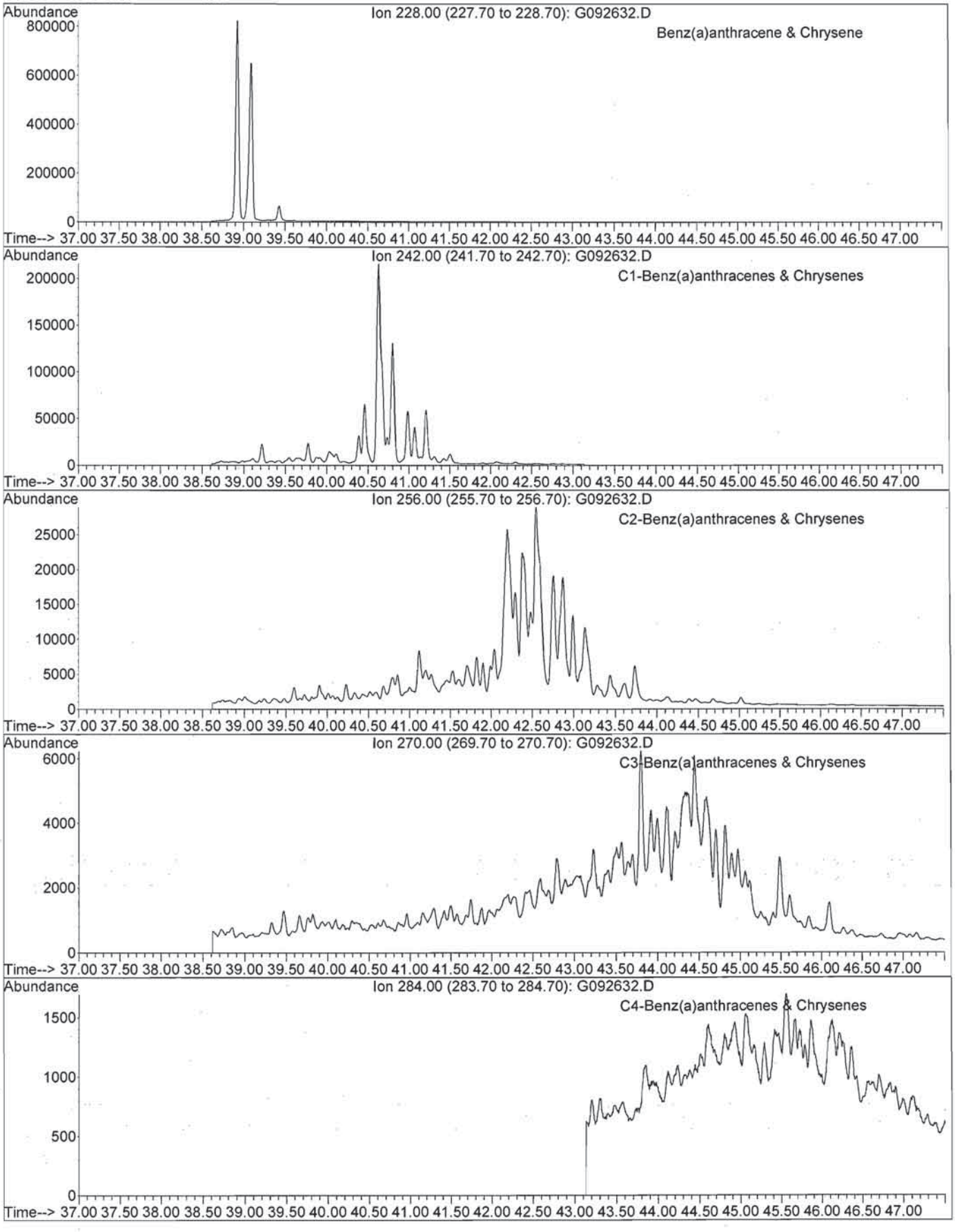
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META Environmental, Inc.

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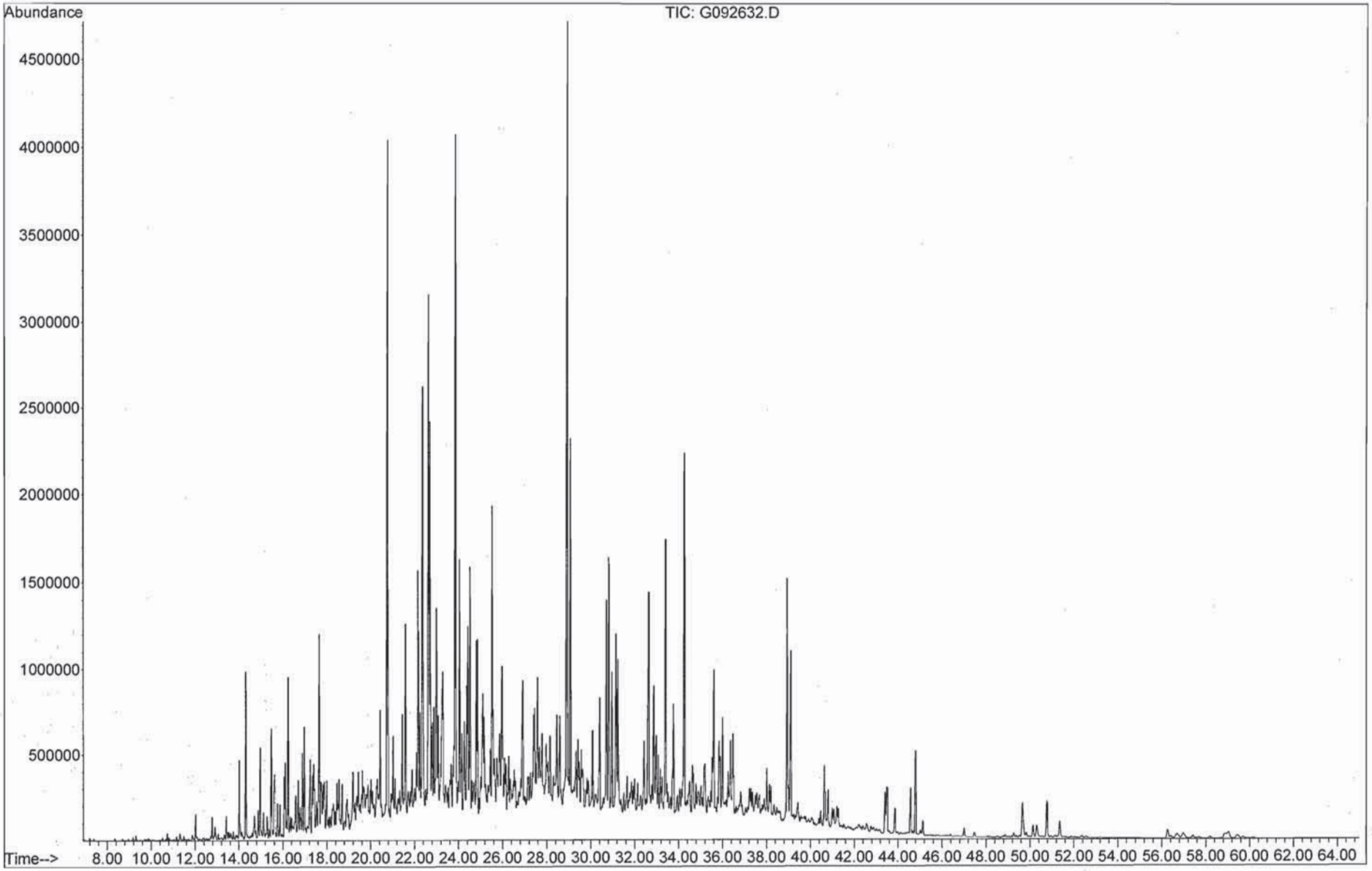
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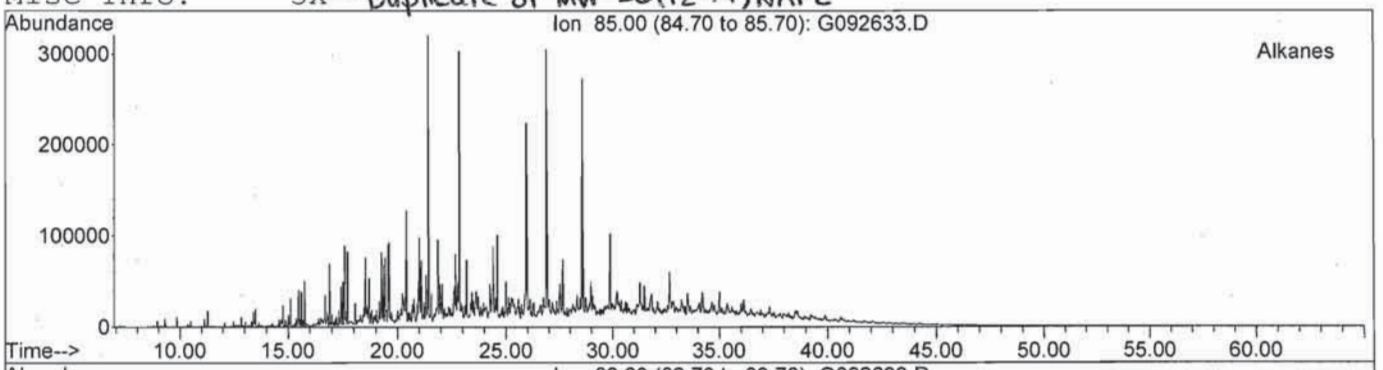
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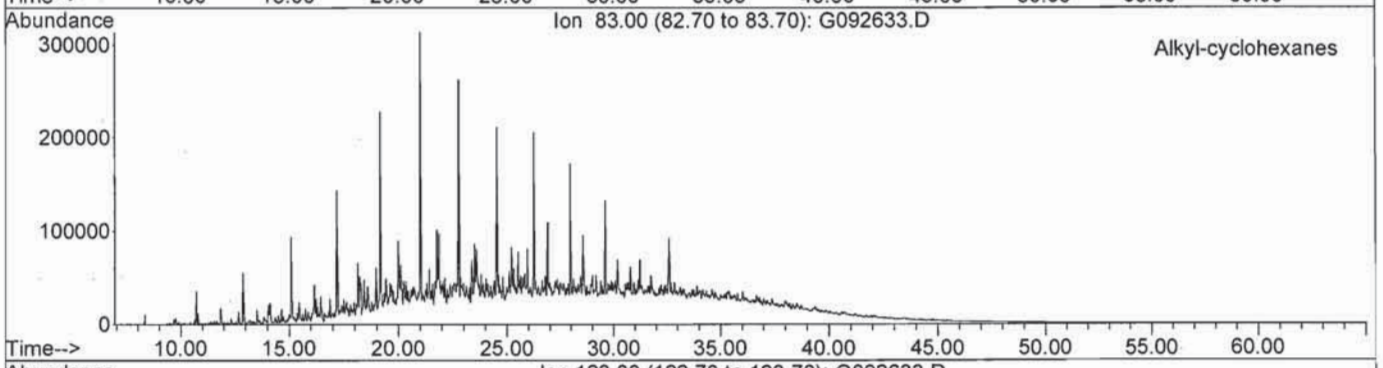


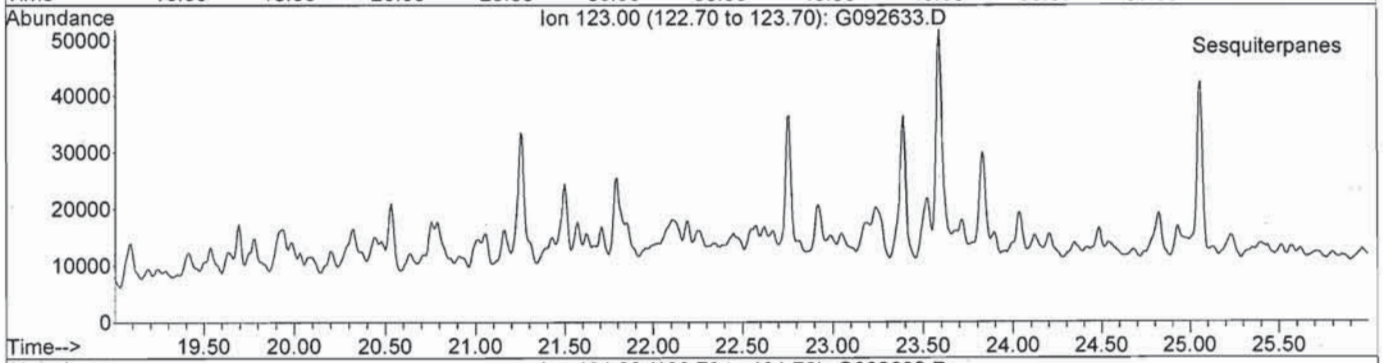
META Environmental, Inc.

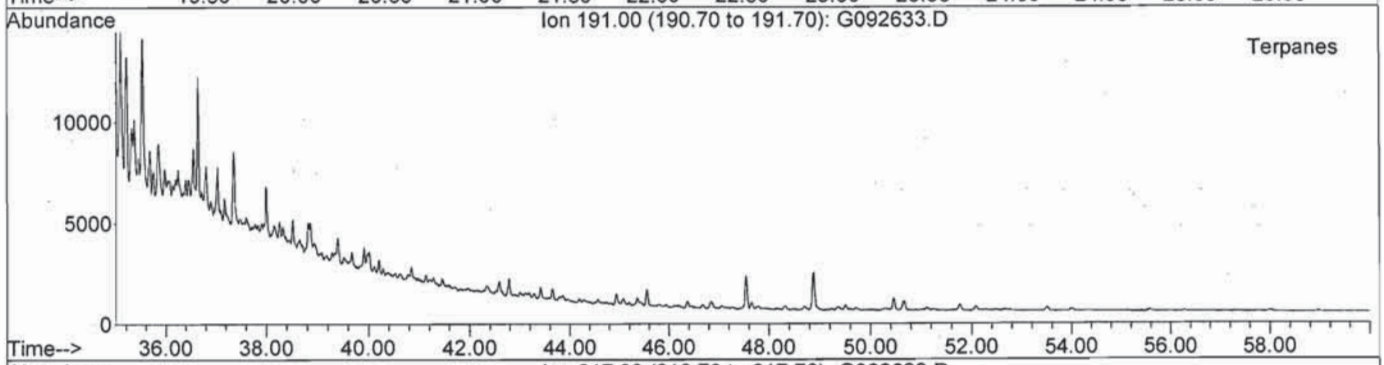
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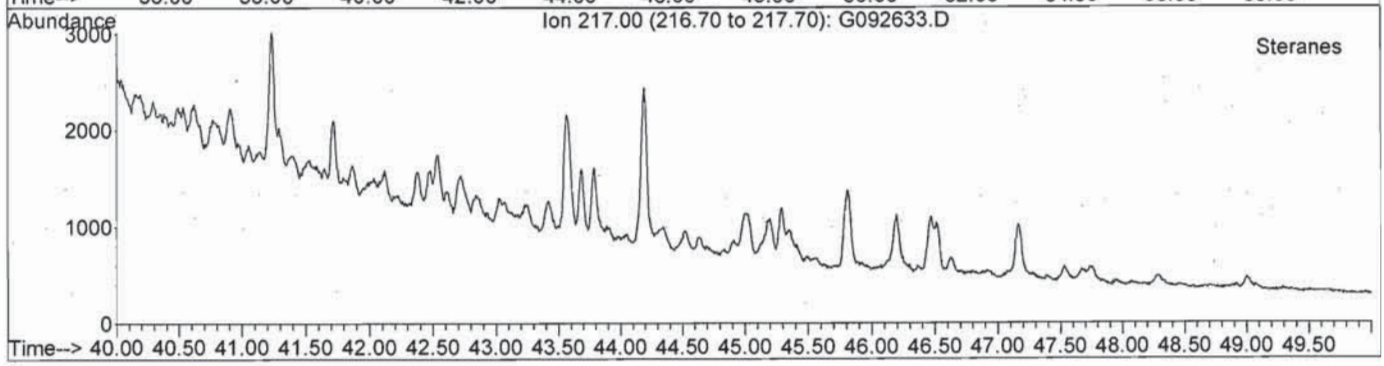
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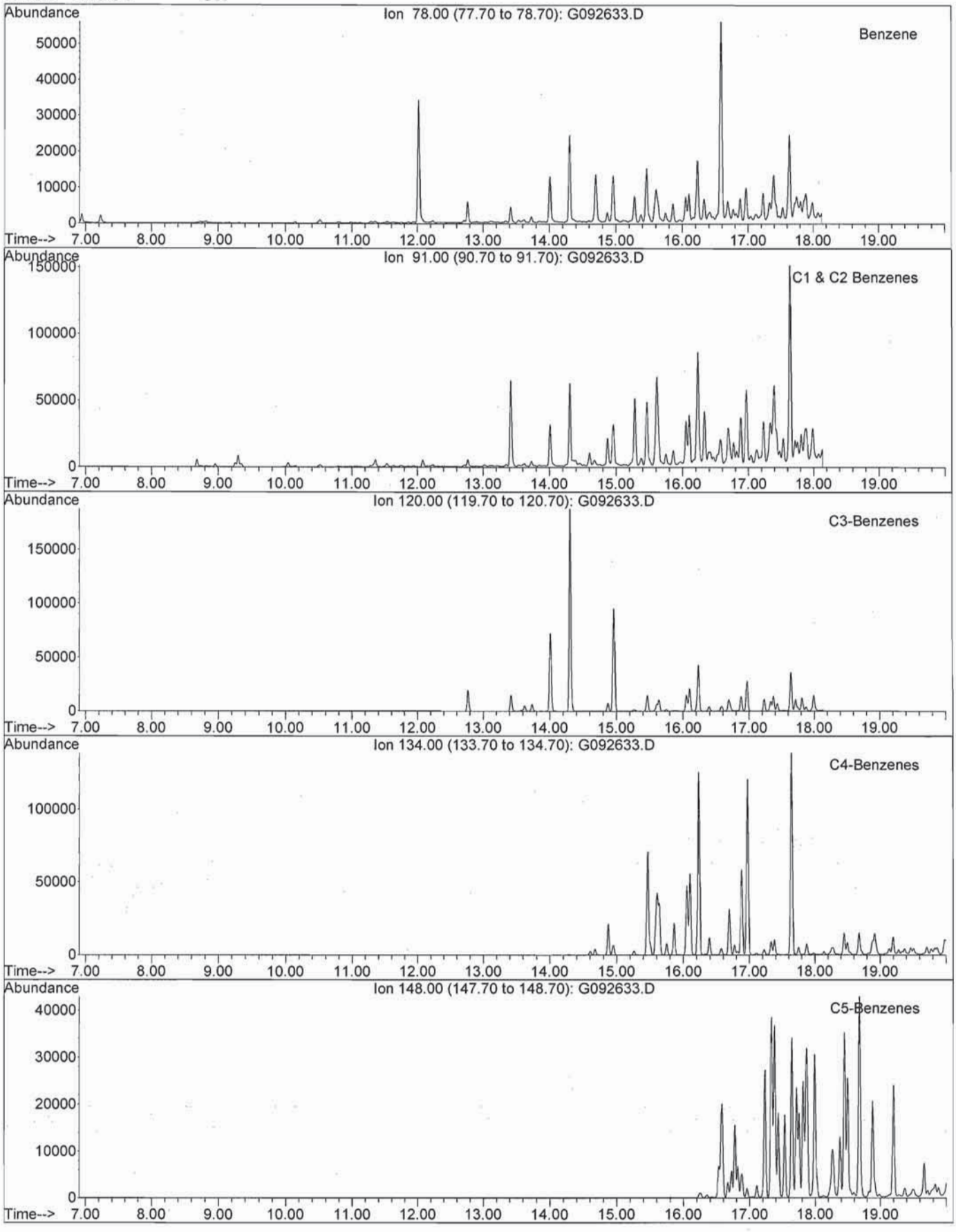



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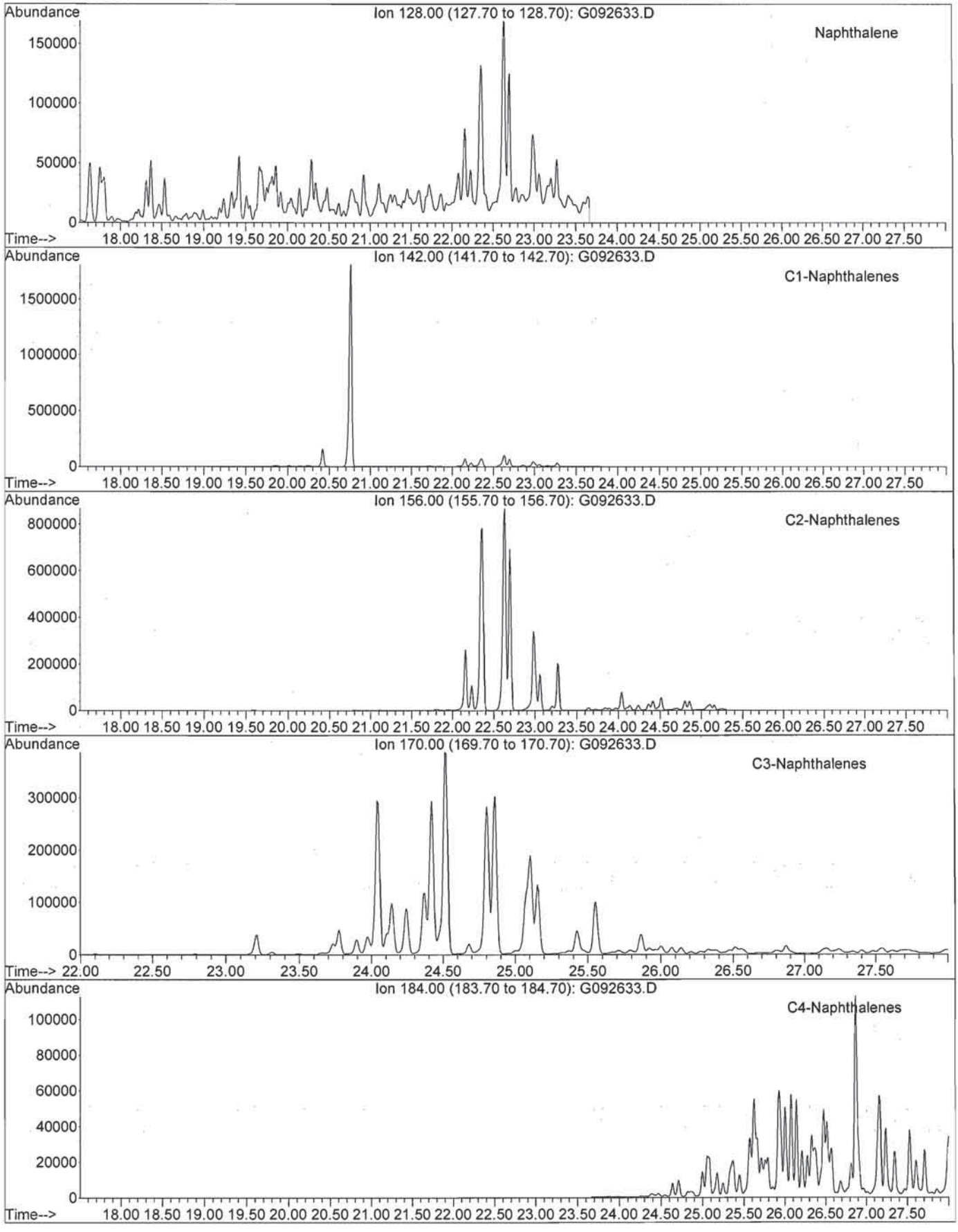
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META Environmental, Inc.

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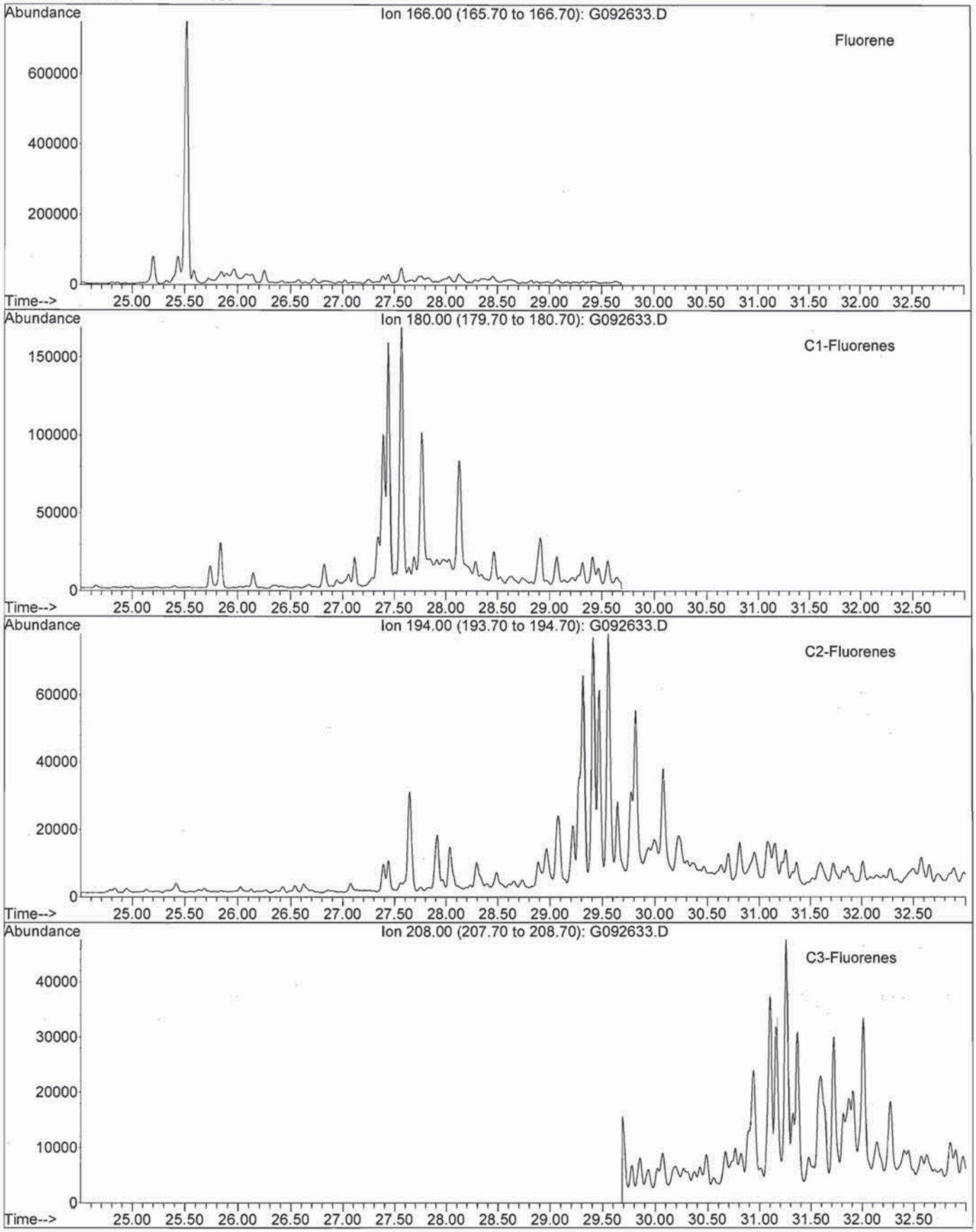
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META Environmental, Inc.

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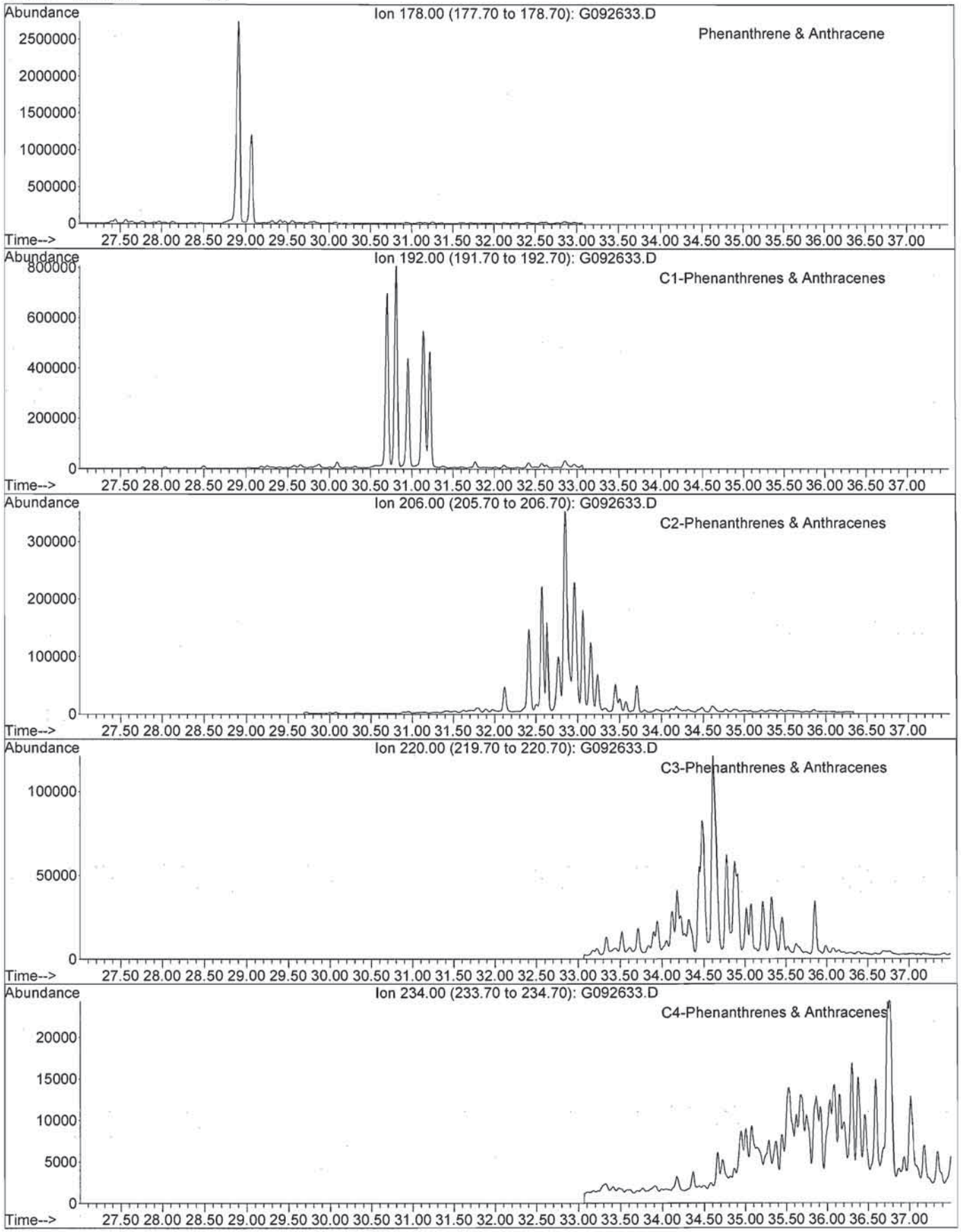
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META Environmental, Inc.

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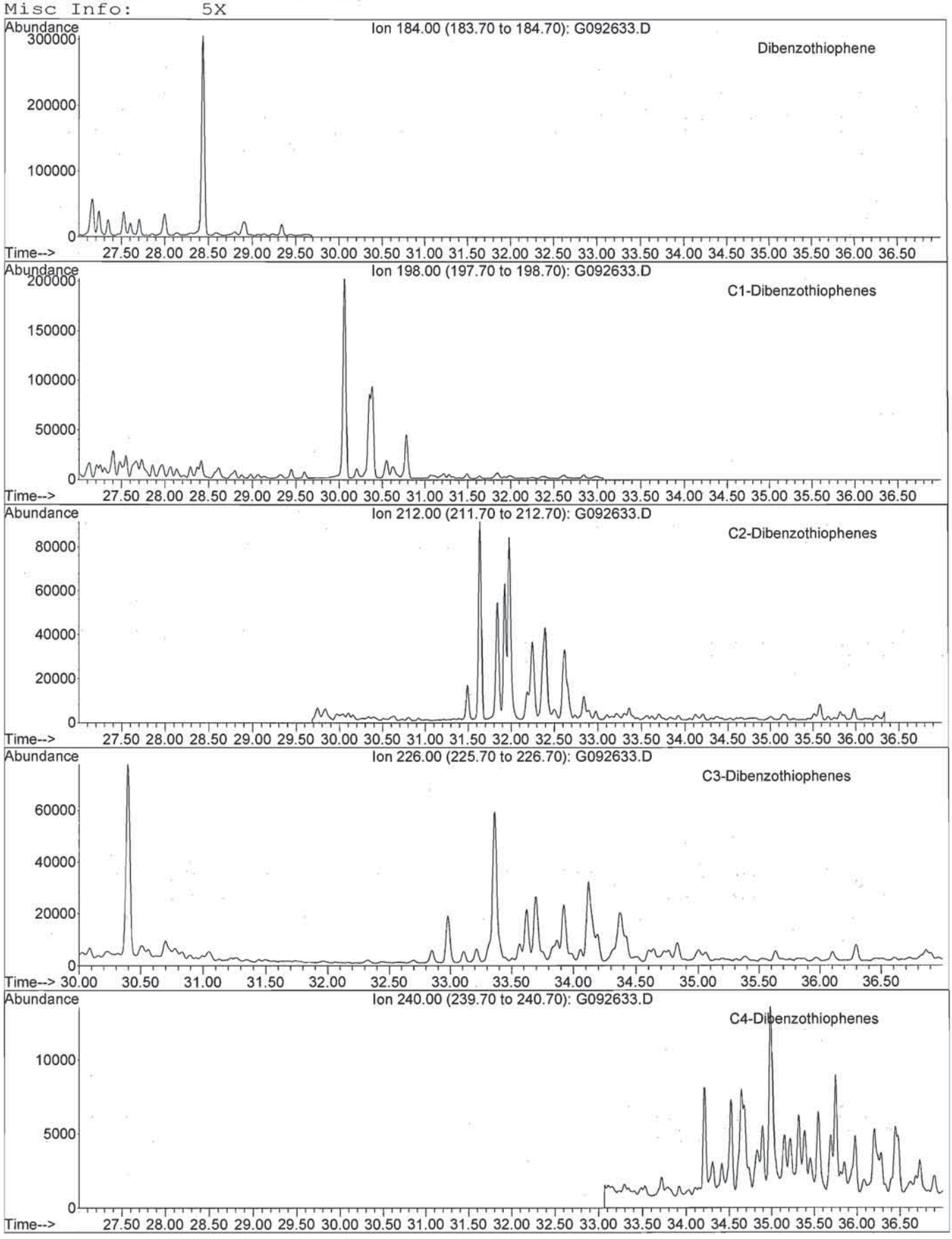
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META Environmental, Inc.

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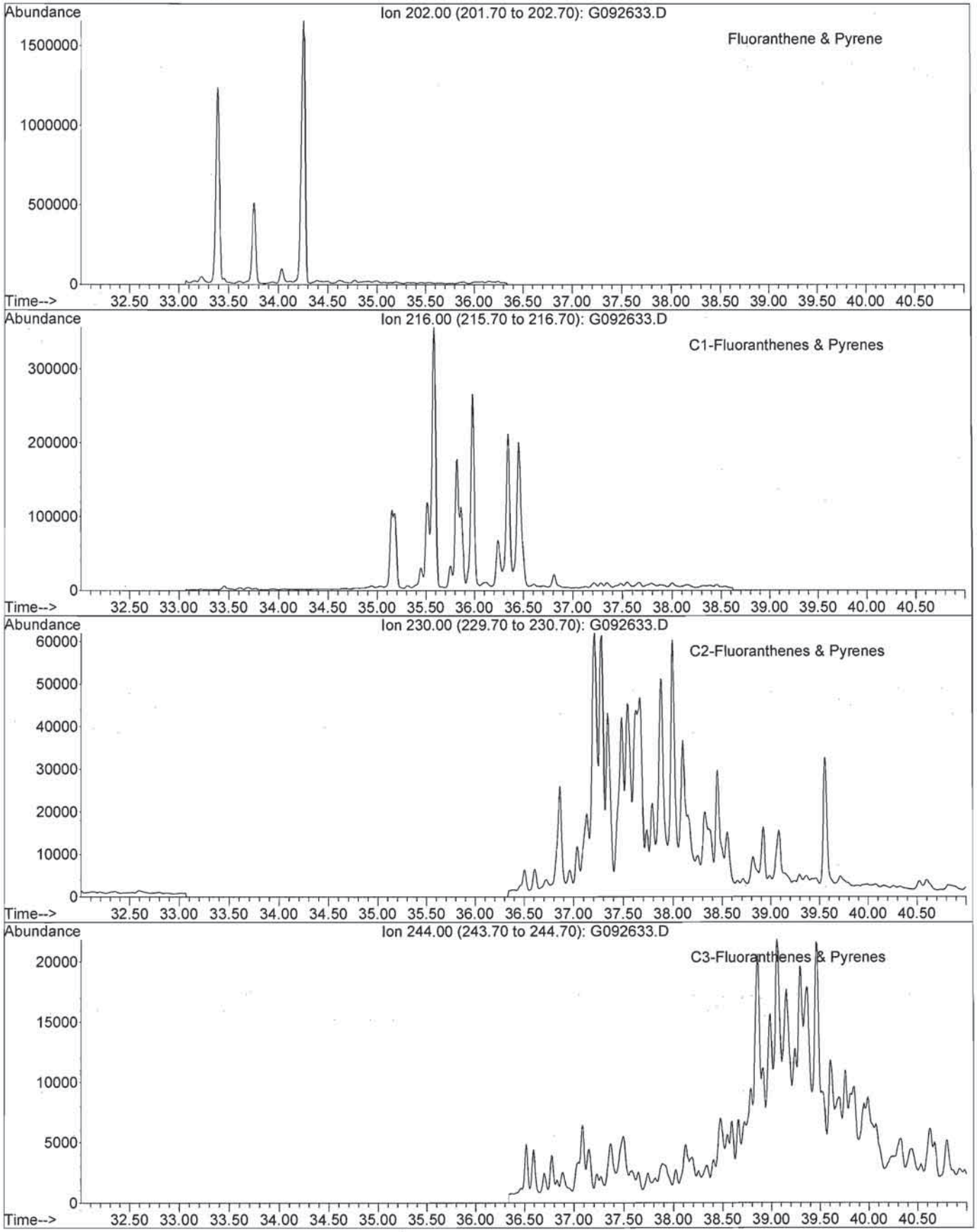
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META Environmental, Inc.

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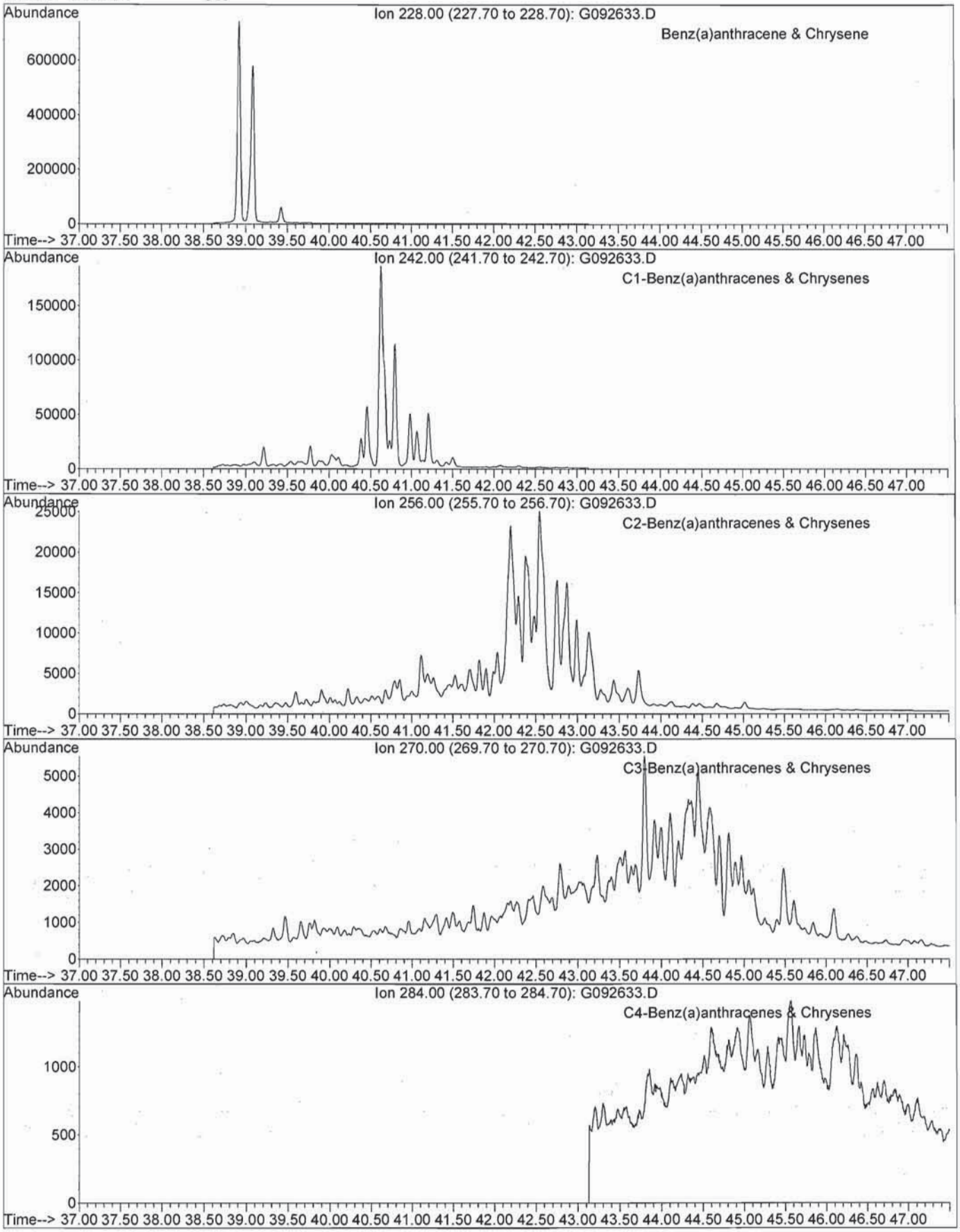
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META Environmental, Inc.

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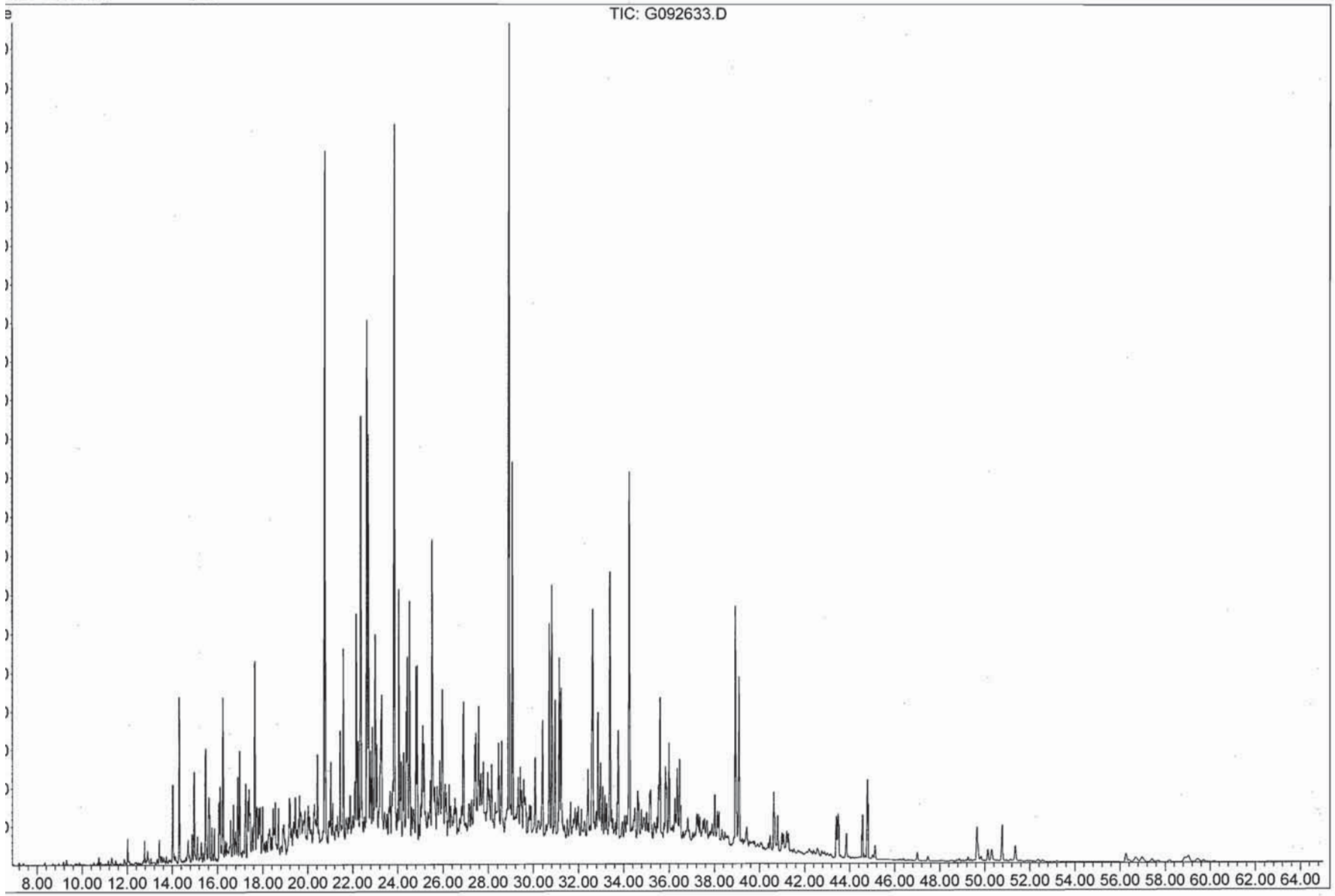
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Sample Name: PA110919-03DUP-D
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META Environmental, Inc.

GC/MS TOTAL ION CHROMATOGRAM

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te Acquired: 28 Sep 2011 2:36 am
mple Name: PA110919-03DUP-D
sc Info: 5X



# APPENDIX E

# DATA USABILITY SUMMARY REPORT

# DATA USABILITY SUMMARY REPORT

# FARRINGTON STREET MGP

# 2011 – 2015 SAMPLING

*Prepared For:*




**CONSOLIDATED EDISON COMPANY OF NEW YORK, INC.**

**31-01 20th Avenue**
**Long Island City, NY 11105**

*Prepared By:*

PARSONS

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Syracuse, New York 13212
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**SEPTEMBER 2015**

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## LIST OF ATTACHMENTS

**ATTACHMENT A VALIDATED LABORATORY DATA**

**Attachment A-1 Validated Laboratory Data For 2011 Samples**

**Attachment A-2 Validated Laboratory Data For 2012 Samples**

**Attachment A-3 Validated Laboratory Data For 2014 Samples**

**Attachment A-4 Validated Laboratory Data For 2015 Samples**

# SECTION 1

# DATA USABILITY SUMMARY

Soil, soil gas, and groundwater samples were collected from the Consolidated Edison Farrington Street MGP site on August 24, 2011 through June 23, 2015. Analytical results from these samples were validated and reviewed by Parsons for usability with respect to the following requirements:

- Work Plan,
- NYSDEC Analytical Services Protocol (ASP), and
- USEPA Region II Standard Operating Procedures (SOPs).

The analytical laboratories for this project were Chemtech and Air Toxics. These laboratories are certified to perform project analyses by the New York State Department of Health (NYSDOH) Environmental Laboratory Approval Program (ELAP).

## 1.1 LABORATORY DATA PACKAGES

The laboratory data package turnaround time, defined as the time from sample receipt by the laboratory to receipt of the analytical data packages by Parsons, was 16-65 days for the project samples.

The data packages received from Chemtech and Air Toxics were paginated, complete, and overall were of good quality. Comments on specific quality control (QC) and other requirements are discussed in detail in the attached data validation report which is summarized in Section 2.

## 1.2 SAMPLING AND CHAIN-OF-CUSTODY

The samples were collected, properly preserved, shipped under a chain-of-custody (COC) record, and received at Chemtech and Air Toxics within one to nine days of sampling. All samples were received intact and in good condition at the laboratory.

## 1.3 LABORATORY ANALYTICAL METHODS

Groundwater, soil, and soil gas samples were collected from the site and analyzed for volatile organic compounds (VOCs). Groundwater and soil samples were collected from the site and analyzed for semivolatile organic compounds (SVOCs), metals, and cyanide. Summaries of issues concerning these laboratory analyses are presented in Subsections 1.3.1 through 1.3.3. The data qualifications resulting from the data validation review and statements on the laboratory analytical precision, accuracy, representativeness, completeness, comparability, and sensitivity (PARCCS) are discussed for each analytical method in Section 2. The laboratory data were reviewed and may be qualified with the following validation flags:

"U" - not detected at the value given,
"UJ" - estimated and not detected at the value given,
"J" - estimated at the value given,
"J+" - estimated biased high at the value given,
"J-" - estimated biased low at the value given,

"N" - presumptive evidence at the value given, and

"R" - unusable value.

The validated laboratory data were tabulated and are presented in Attachment A.

### 1.3.1 Volatile Organic Analysis

Groundwater, soil, and soil gas samples were analyzed for VOCs using the USEPA SW-846 8260 and TO-15 analytical methods. The reported VOC analytical results were qualified as estimated based upon surrogate recoveries, matrix spike/matrix spike duplicate (MS/MSD) recoveries, laboratory control sample (LCS) recoveries, instrument calibrations, internal standard responses, field duplicate precision, and percent solids content. Certain reported VOC results were considered unusable and qualified "R" based upon poor calibration linearity and internal standard responses. The reported VOC analytical results were 97.4% to 100% complete (i.e., usable) for the analytical data. PARCCS requirements were met overall.

### 1.3.2 Semivolatile Organic Analysis

Groundwater and soil samples were analyzed for SVOCs using the USEPA SW-846 8270 analytical method. Certain reported results for the groundwater SVOC samples were qualified as estimated based upon surrogate recoveries, MS/MSD recoveries, LCS recoveries, instrument calibrations, internal standard responses, field duplicate precision, and percent solids content. Certain reported SVOC results were considered unusable and qualified "R" based upon poor surrogate recoveries, MS/MSD recoveries, and LCS recoveries. The reported SVOC analytical results were 99.7% to 100% complete (i.e., usable) for the analytical data. PARCCS requirements were met overall.

### 1.3.3 Inorganic Analysis

Groundwater and soil samples were analyzed for metals and cyanide using the USEPA SW-846 6010/7470/7471/9012B analytical methods. Certain reported results for the inorganic samples were qualified as estimated based upon matrix spike recoveries, instrument calibrations, serial dilutions, interference check sample (ICS) recoveries, laboratory duplicate precision, field duplicate precision, and percent solids content. Certain reported inorganic results were considered unusable and qualified "R" based upon poor MS/MSD recoveries. The reported inorganic analytical results were 99.8% to 100% complete (i.e., usable) for the analytical data. PARCCS requirements were met overall.

# SECTION 2

# DATA VALIDATION REPORT

## 2.1 2011 SAMPLING

Data review has been completed for data packages generated by Chemtech containing analytical results from groundwater, soil, and air samples collected from the site during 2011. All of these samples were properly preserved, shipped under a COC record, and received intact by the analytical laboratory. Analytical data were submitted in sample delivery groups (SDGs) 1108582, C3584, C3666, C3769, C3816, C3954, C4297, C4313, and C4681.

Data validation was performed for all samples in accordance with the most current editions of the USEPA Region II SOPs for organic data review. This data validation and usability report is presented by analysis type. The validated laboratory data are presented in Attachment A.

### 2.1.1 Volatiles

The following items were reviewed for compliancy in the volatile analysis:

- Custody documentation
- Holding times
- Surrogate recoveries
- Matrix spike/matrix spike duplicate (MS/MSD) precision and accuracy
- Laboratory control sample (LCS) recoveries
- Laboratory method blank and trip/equipment blank contamination
- GC/MS instrument performance
- Initial and continuing calibrations
- Internal standard area counts and retention times
- Field duplicate precision
- Sample result verification and identification
- Quantitation limits
- Data completeness

These items were considered compliant and acceptable in accordance with the validation protocols with the exception of surrogate recoveries, MS/MSD precision and accuracy, LCS recoveries, blank contamination, initial and continuing calibrations, and internal standard responses as discussed below.

Surrogate Recoveries

All sample surrogate recoveries were considered acceptable and within QC limits with the exception of the high 4-bromofluorobenzene (QC limit 85-120%R) surrogate recovery for sample with lab ID C3816-01 (207%R);

MS/MSD Precision and Accuracy

All MS/MSD precision (relative percent difference; RPD) and accuracy (percent recovery; %R) measurements were considered acceptable and within QC limits for designated spiked project samples with the exception of the low MS/MSD accuracy results for 1,1,2-

trichlorotrifluoroethane during the spiked analyses of sample MW-29(15-17); the high MS/MSD accuracy results for ethylbenzene, m,p-xylenes, and o-xylene during the spiked analyses of sample CMW-32(13-15);

LCS Recoveries

All LCS recoveries were considered acceptable and within QC limits with the exception of the LCS recoveries for ethanol (272%R, 262%R, 273%R, 270%R; QC limit 60-140%R), 3-chloropropene (146%R; QC limit 60-140%R), carbon tetrachloride (67%R, 69%R; QC limit 70-130%R), and naphthalene (142%R; QC limit 60-140%R) associated with air samples; bromomethane (140%R; QC limit 64-136%R) and 1,2-dichlorobenzene (120%R; QC limit 82-118%R) associated with samples with lab IDs C3816-01, -04, -05, and -06; acetone (140%R; QC limit 57-135%R) and styrene (125%R; QC limit 81-121%R) associated with samples in SDG C4313; and tetrachloroethene (185%R; QC limit 46-157%R) associated with samples MW-15, -16, -18, -19, -20, -21, -25, CMW-38, and -40. Therefore, positive results for those compounds where LCS recoveries exceeded the QC limit were considered estimated, possibly biased high, and qualified "J" for the affected samples. Results for those compounds where LCS recoveries fell below the QC limit were considered estimated, possibly biased low, with positive results qualified "J" and nondetected results qualified "UJ" for the affected samples.

Blank Contamination

The field equipment blank FB090911 associated with samples in SDG C3666 contained carbon disulfide and methylene chloride at concentrations of 2.6 and 0.83 µg/L, respectively. Therefore, results for these compounds less than validation action concentrations were considered not detected and qualified "U" for the affected samples.

Initial and Continuing Calibrations

All initial calibration compounds were compliant with a minimum average relative response factor (RRF) of 0.05 and a maximum percent relative standard deviation (%RSD) of 20% with the exception of Freon-113 (30.24%RSD), 1,1-dichloroethene (34.74%RSD), and 3-chloropropene (35%RSD) in the initial calibration associated with air samples; acetone (RRF=0.033, 24.1%RSD) in the initial calibration associated with samples with lab IDs C3584-03, -04, -06, and -08; acetone (RRF=0.027, 43.23%RSD), 2-butanone (22.52%RSD), 4-methyl-2-pentanone (28.08%RSD), 2-hexanone (34.38%RSD), ethylbenzene (24.84%RSD), isopropylbenzene (28.20%RSD), and 1,2,4-trichlorobenzene (51.64%RSD) in the initial calibration associated with sample FB090911; bromomethane (22.27%RSD) in the initial calibration associated with all samples in SDG C3769 except samples with lab IDs C3769-01 and -03; acetone (31.42%RSD) in the initial calibration associated with samples with lab IDs C3816-02 and -03; bromomethane (27.29%RSD) and bromochloromethane (21.64%RSD) in the initial calibration associated with sample FB093011; acetone (23.03%RSD) in the initial calibration associated with samples with lab IDs C3954-07, -11, -13, -14, and -20; acetone (RRF=0.04) in the initial calibration associated with samples with lab IDs C3954-17, -18, -24, and -25; and chloromethane (22.78%RSD) and vinyl chloride (23.17%RSD) in the initial calibration associated with groundwater samples in SDG C4681. Therefore, the results for these compounds were considered estimated with positive results qualified "J" and nondetected results qualified "UJ" for the affected samples. However, nondetected results for those compounds where the RRF fell below 0.05 were considered unusable and qualified "R" for the affected samples.

All continuing calibration compounds were compliant with a minimum relative response factor (RRF) of 0.05 and a percent difference (%D) within ±20% with the exception of ethanol (-206%D, -221%D) in the continuing calibrations associated with air samples; tetrachloroethene (-25.8%D) in the continuing calibration associated with samples with lab IDs C3584-01, -02, -05, and -09; dichlorodifluoromethane (-22.4%D) and chloroethane (-33.3%D) in the continuing calibration associated with sample with lab ID C3584-07; trichlorofluoromethane (-20.7%D), acetone (RRF=0.025), 1,1,1-trichloroethane (-22.7%D), and 1,2,4-trichlorobenzene (-28.4%D) in the continuing calibration associated with sample FB090911; 1,2-dichloropropane (37.07%D) in the continuing calibration associated with sample with lab ID C3666-06; bromomethane (-45.6%D), chloroethane (-33.8%D), trichlorofluoromethane (-27.5%D), 1,1-dichloroethene (-36%D), 1,1,2-trichlorotrifluoroethane (-21.4%D), carbon disulfide (-24.7%D), and trans-1,2-dichloroethene (-23.2%D) in the continuing calibration associated with all samples in SDG C3769 except samples with lab IDs C3769-01 and -03; acetone (25.8%D), methyl acetate (-34.3%D), and tetrachloroethene (-20.5%D) in the continuing calibration associated with sample with lab ID C3954-08; methyl acetate (-28.6%D) and tetrachloroethene (-28.4%D) in the continuing calibration associated with samples with lab IDs C3954-03, -06, -07, -11, -13, -14, -16, and -19 through -23; acetone (RRF=0.033) in the continuing calibration associated with samples with lab IDs C3954-17, -18, -24, and -25; bromomethane (-24%D), trichlorofluoromethane (-22.1%D), 1,1-dichloroethene (-23.7%D), carbon disulfide (-35.4%D), trans-1,2-dichloroethene (-22%D), and 1,2,4-trichlorobenzene (-24.1%D) in the continuing calibration associated with soil samples in SDG C4297; carbon disulfide (-23.1%D), acetone (RRF=0.048), and bromoform (-27.8%D) in the continuing calibration associated with samples in SDG C4313; and acetone (-58.3%D) and tetrachloroethene (-74.2%D) in the continuing calibration associated with samples MW-15, -16, -18, -19, -20, -21, -25, CMW-38, and -40. Therefore, the results for these compounds were considered estimated with positive results qualified “J” and nondetected results qualified "UJ" for the affected samples. However, nondetected results for those compounds where the RRF fell below 0.05 were considered unusable and qualified “R” for the affected samples.

It was noted that acetone exceeded instrument calibration ranges for all air samples; 2-methylpentane exceeded instrument calibration ranges for air samples SG-2, -6, -7, and -9; indene exceeded instrument calibration ranges for air sample SG-7; 2,3-dimethylpentane exceeded instrument calibration ranges for air samples SG-2 and -9; indan exceeded instrument calibration ranges for air sample SG-9; and isopentane exceeded instrument calibration ranges for air sample SG-9. Therefore, results for these compounds were considered estimated and qualified “J” for the affected samples.

Internal Standard Responses

All internal standard areas were within -50% to +100% for all samples with the exception of the low IS 1,4-dichlorobenzene-d4 in sample MW-25(13-15). Therefore, results associated with this IS were considered estimated with positive results qualified “J” and nondetected results qualified “UJ” for the affected sample.

Usability

All volatile sample results were considered usable following data validation with the exception of certain nondetected results based upon poor calibration linearity.

Summary

The quality assurance objectives for measurement data included considerations for precision, accuracy, representativeness, completeness, comparability, and sensitivity. The volatile groundwater, soil and air data presented by Chemtech and Air Toxics were 99.8% complete (i.e., usable). The validated volatile laboratory data are tabulated and presented in Attachment A-1.

### 2.1.2 Semivolatiles

The following items were reviewed for compliancy in the semivolatile analysis:

- Custody documentation
- Holding times
- Surrogate recoveries
- MS/MSD precision and accuracy
- LCS recoveries
- Laboratory method blank and equipment blank contamination
- GC/MS instrument performance
- Initial and continuing calibrations
- Internal standard area counts and retention times
- Field duplicate precision
- Sample result verification and identification
- Quantitation limits
- Data completeness

These items were considered compliant and acceptable in accordance with the validation protocols with the exception of the surrogate recoveries, MS/MSD precision and accuracy, LCS recoveries, initial and continuing calibrations, and internal standard responses as discussed below.

Surrogate Recoveries

All surrogate recoveries were considered acceptable and within QC limits except for the less than 10% recovery of 2-fluorophenol (QC limit 10-130%R) in samples FB090911 (3%R), FB093011 (0%R), and FB111711 (2%R); and high surrogate recoveries for phenol-d5 (QC limit 34-127%R) and 2,4,6-tribromophenol (QC limit 30-133%R) in sample with lab ID C3769-08. Validation qualification for sample with lab ID C3769-08 was not required. However, the nondetected acid fraction results for samples FB090911, FB093011, and FB111711 were considered unusable and qualified "R".

MS/MSD Precision and Accuracy

All MS/MSD precision (relative percent difference; RPD) and accuracy (percent accuracy; %R) measurements were considered acceptable and within QC limits for designated spiked project samples with the exception of the high MS/MSD accuracy results for 2-methylnaphthalene during the spiked analyses of sample MW-29(15-17); and the many high MS/MSD accuracy results during the spiked analyses of sample SB-42(22-24). Therefore, positive results for these compounds were considered estimated and qualified "J" for the affected parent sample.

LCS Recoveries

All LCS recoveries were considered acceptable and within QC limits with the exception of the high LCS recovery for 2-methylnaphthalene (112%R; QC limit 55-102%R) associated with samples with lab IDs C3954-16, -17, -18, and -19. Therefore, positive results for this compound were considered estimated, possibly biased high, and qualified "J" for the affected samples.

Initial and Continuing Calibrations

All initial calibration compounds were compliant with a minimum average relative response factor (RRF) of 0.05 and a maximum percent relative standard deviation (%RSD) of 20% with the exception of 2,4-dinitrophenol (31.53%RSD) in the initial calibration associated with all samples in SDGs C3584 and C3666; 2,4-dinitrophenol (29.24%RSD) in the initial calibration associated with all samples in SDG C3769; 2,4-dinitrophenol (29.13%RSD) in the initial calibration associated with all samples in SDGs C3816 and C3954 except samples with lab IDs C3954-16, -19, -23, and -25; 2,4-dinitrophenol (25.27%RSD) in the initial calibration associated with sample with lab ID C3954-25; 2,4-dinitrophenol (36.14%RSD), 4,6-dinitro-2-methylphenol (26.67%RSD), atrazine (26.02%RSD), and pentachlorophenol (20.13%RSD) in the initial calibration associated with samples in SDG C4297; benzaldehyde (22.38%RSD), 2,4-dinitrophenol (46.05%RSD), and 4,6-dinitro-2-methylphenol (29.08%RSD) in the initial calibration associated with samples in SDG 4313; and 4,6-dinitro-2-methylphenol (35.15%RSD) and 2,4-dinitrophenol (51.73%RSD) in the initial calibration associated with samples in SDG C4681. Therefore, the results for these compounds were considered estimated with positive results qualified "J" and nondetected results qualified "UJ" for the affected samples.

All continuing calibration compounds were compliant with a minimum relative response factor (RRF) of 0.05 and a percent difference (%D) within ±20% with the exception of 2,4-dinitrophenol (-23.6%D, -28.6) and atrazine (20.3%D) in the continuing calibrations associated with samples in SDG C3666; 2,4-dinitrophenol (-32.8%D) in the continuing calibration associated with samples with lab IDs C3769-01, -03, -06, -07, -08, -11, and -12; pentachlorophenol (-24.6%D) in the continuing calibration associated with samples in SDG C4313; 2,4-dinitrophenol (-26%D) and 4,6-dinitro-2-methylphenol (-23.9%D) in the continuing calibration associated with samples in SDG C4681. Therefore, the results for these compounds were considered estimated with positive results qualified "J" and nondetected results qualified "UJ" for the affected samples.

Internal Standard Responses

All internal standard areas were within -50% to +100% for all samples with the exception of the low IS responses for naphthalene-d8 and phenanthrene-d10 in sample SB-41A(13-15). Therefore, results associated with these ISs were considered estimated with positive results qualified "J" and nondetected results qualified "UJ" for this sample.

Usability

All semivolatile sample results were considered usable following data validation with the exception of certain nondetected results based upon poor surrogate recoveries.

Summary

The quality assurance objectives for measurement data included considerations for precision, accuracy, representativeness, completeness, comparability, and sensitivity. The groundwater and soil semivolatile data presented by Chemtech were 99.8% complete (i.e.,

usable). The validated semivolatile laboratory data are tabulated and presented in Attachment A-1.

### 2.1.3 Inorganics

The following items were reviewed for compliancy in the inorganics analysis:

- Custody documentation
- Holding times
- Matrix spike/matrix spike duplicate (MS/MSD) precision and accuracy
- Laboratory control sample (LCS) recoveries
- Laboratory preparation blank and equipment blank contamination
- ICP serial dilutions
- Interference check sample (ICS) recoveries
- Initial and continuing calibration verifications
- Laboratory duplicate precision
- Field duplicate precision
- Sample result verification and identification
- Quantitation limits
- Data completeness

These items were considered compliant and acceptable in accordance with the validation protocols with exception of matrix spike recoveries, blank contamination, serial dilutions, calibrations, and laboratory duplicate precision as discussed below.

Matrix Spike Recoveries

All matrix spike recoveries were considered acceptable and within the 75-125%R QC limit with the exception of the high matrix spike recoveries for barium (150.1%R) and potassium (128.7%R) associated with samples in SDG C3769; the low matrix spike recoveries for barium (66.3%R, 69.3%R) and potassium (63.9%R, 70.4%R) associated with samples in SDG C3954; the high matrix spike recoveries for iron (414.3%R, 540.9%R), magnesium (146.6%R, 156.7%R), manganese (191.8%R, 228.1%R), aluminum (257.1%R), and sodium (141.8%R) associated with samples in SDG C4297; and the low matrix spike recoveries for magnesium (62.2%R, 60.6%R) and aluminum (-2.8%R) associated with samples in SDG C4313. Therefore, results for those analytes where matrix spike recoveries fell below the QC limit were considered estimated, possibly biased low, with positive results qualified "J" and nondetected results qualified "UJ" for the affected samples. Positive results for those analytes where matrix spike recoveries exceeded the QC limit were considered estimated, possibly biased high, and qualified "J" for the affected samples.

Blank Contamination

The field QC equipment blank FB090911 associated with samples in SDG C3666 contained aluminum, calcium, chromium, iron, manganese, potassium, sodium, and zinc at concentrations of 27.9, 686, 1.06, 84.8, 1.28, 924, 3840, and 14.2 µg/L, respectively; the field QC equipment blank FB102011 associated with samples in SDG C4297 contained calcium and iron at concentrations of 1410 and 55.8 µg/L, respectively; and the field QC equipment blank FB111711 associated with samples in SDG C4681 contained total iron, total potassium, total sodium,

dissolved calcium, dissolved iron, dissolved magnesium, dissolved potassium, and dissolved sodium at concentrations of 71.3, 1680, 1730, 12400, 51.1, 2390, 1940, and 12400 µg/L, respectively. Therefore, results for these analytes less than validation action concentrations were considered not detected and qualified "U" for the affected samples.

Serial Dilutions

All serial dilution results were considered acceptable with %D less than 10% with the exception of sodium (30.7%D) associated with samples in SDG C3769; calcium (12.1%D) and chromium (50%D) associated with samples in SDG C3954; aluminum (18%D), iron (19%D), magnesium (20.6%D), manganese (17.6%D), sodium (33.1%D), and potassium (15.4%D) associated with samples in SDG C4297; potassium (10.2%D) and sodium (105%D) associated with samples in SDG C4313; and total iron (11.3%D) associated with samples in SDG C4681. Therefore, positive results for these analytes were considered estimated and qualified "J" for the affected samples.

Calibrations

All initial and continuing calibration verifications were analyzed at the appropriate frequency and within QC limits. All reference standard recoveries were within QC limits with the exception of lead (44%R; QC limit 50-150%R) associated with samples in SDG C3584; copper (48.3%R, 53.9%R; QC limit 70-130%R) associated with samples in SDGs C3666 and C3816; chromium (138%R; QC limit 70-130%R) associated with samples in SDG C3816; and selenium (68.9%R; QC limit 70-130%R) associated with samples in SDG C4313. Therefore, results for those analytes where standard recoveries fell below the QC limit were considered estimated, possibly biased low, with positive results qualified "J" and nondetected results qualified "UJ" for the affected samples. Positive results for those analytes where standard recoveries exceeded the QC limit were considered estimated, possibly biased high, and qualified "J" for the affected samples.

Laboratory Duplicate Precision

All laboratory duplicate precision results were considered acceptable with the exception of cyanide (44.2%RPD) associated with samples in SDG C3769; sodium (26.5%RPD) associated with samples in SDG C3816; and total aluminum (21.2%RPD) and total zinc (47.3%RPD) associated with samples in SDG C4681. Therefore, results for these analytes were considered estimated with positive results qualified "J" and nondetected results qualified "UJ" for the affected samples.

Usability

All inorganics sample results were considered usable following data validation.

Summary

The quality assurance objectives for measurement data included considerations for precision, accuracy, representativeness, completeness, comparability, and sensitivity. The inorganic groundwater and soil data presented by Chemtech were 100% complete (i.e., usable). The validated inorganics laboratory data are tabulated and presented in Attachment A-1.

## 2.2 2012 SAMPLING

Data review has been completed for data packages generated by Chemtech and Air Toxics containing analytical results from soil and air samples collected from the site during 2012. All of

these samples were properly preserved, shipped under a COC record, and received intact by the analytical laboratory. Analytical data were submitted in sample delivery groups (SDGs) D1577, D1616, and 1202444.

Data validation was performed for all samples in accordance with the most current editions of the USEPA Region II SOPs for organic data review. This data validation and usability report is presented by analysis type. The validated laboratory data are presented in Attachment A-2.

### 2.2.1 Volatiles

The following items were reviewed for compliancy in the volatile analysis:

- Custody documentation
- Holding times
- Surrogate recoveries
- Matrix spike/matrix spike duplicate (MS/MSD) precision and accuracy
- Laboratory control sample (LCS) recoveries
- Laboratory method blank and trip/equipment blank contamination
- GC/MS instrument performance
- Initial and continuing calibrations
- Internal standard area counts and retention times
- Field duplicate precision
- Sample result verification and identification
- Quantitation limits
- Data completeness

These items were considered compliant and acceptable in accordance with the validation protocols with the exception of the surrogate recoveries, internal standard responses, MS/MSD precision and accuracy, LCS recoveries, blank contamination, and initial and continuing calibrations as discussed below.

Surrogate Recovery

All surrogate recoveries were within QC criteria for all samples with the exception of high 1,2-dichloroethane-d4 recovery in air sample SG-5 (154%R; QC limit 70-130%R); and the 1,2-dichloroethane-d4 (QC limit 56-120%R), dibromofluoromethane (QC limit 57-135%R), and toluene-d8 (QC limit 67-123%R) in sample SB-22(17-19) (143%R, 158%R, and 17%R, respectively). Therefore, positive results for those compounds where surrogate recoveries exceeded the QC limit were considered estimated, possibly biased high, and qualified "J" for the affected samples. Results for those compounds where surrogate recoveries fell below the QC limit were considered estimated, possibly biased low, with positive results qualified "J" and nondetected results qualified "UJ" for the affected samples.

Internal Standard Responses

All internal standard areas were within -50% to +100% for all samples with the exception of the low IS chlorobenzene-d5 in sample SB-22(17-19). Therefore, results associated with this IS were considered estimated with positive results qualified "J" and nondetected results qualified "UJ" for the affected sample.

MS/MSD Precision and Accuracy

All MS/MSD precision (relative percent difference; RPD) and accuracy (percent recovery; %R) measurements were considered acceptable and within QC limits for designated spiked analyses with the exception of the MS/MSD accuracy results for tetrachloroethene during the spiked analyses of sample SB-36(12-14). Validation qualification of the parent sample was not required.

LCS Recoveries

All LCS recoveries were considered acceptable and within QC limits with the exception of the low LCS recoveries for methylene chloride (58%R, 69%R; QC limit 70-130%R) associated with air samples; the high LCS recoveries for bromoform (135%R; QC limit 66-130%R) and tetrachloroethene (170%R; QC limit 46-157%R) associated with sample SB-36(12-14); the LCS recoveries for chloromethane (155%R; QC limit 40-125%R), bromomethane (32%R; QC limit 44-145%R), bromoform (60%R; QC limit 70-130%R), and 1,2,3-trichlorobenzene (39%R; QC limit 60-135%R) associated with sample FB022212; and the high LCS recoveries for trichlorofluoromethane (150%R; QC limit 72-134%R), methyl tert-butyl ether (125%R; QC limit 76-123%R), and toluene (130%R; QC limit 78-124%R) associated with sample SB-22(17-19). Therefore, positive results for those compounds where LCS recoveries exceeded the QC limit were considered estimated, possibly biased high, and qualified "J" for the affected samples. Results for those compounds where LCS recoveries fell below the QC limit were considered estimated, possibly biased low, with positive results qualified "J" and nondetected results qualified "UJ" for the affected samples.

Blank Contamination

The field equipment blank FB022212 associated with soil samples in SDG D1616 contained carbon disulfide and methylene chloride at concentrations of 6.9 and 3.3 µg/L, respectively. Therefore, results for these compounds less than validation action concentrations were considered not detected and qualified "U" for the affected samples.

Initial and Continuing Calibrations

All initial calibration compounds were compliant with a minimum average relative response factor (RRF) of 0.05 and a maximum percent relative standard deviation (%RSD) of 20% with the exception of carbon tetrachloride (34.67%RSD) in the initial calibration associated with air samples; bromomethane (22.7%RSD), methylene chloride (22.3%RSD), and tetrachloroethene (22.6%RSD) in the initial calibration associated with sample SB-36(28-30); cyclohexane (35.9%RSD) in the initial calibration associated with sample FB022212; and bromomethane (37.2%RSD) in the initial calibration associated with sample SB-22(17-19). Therefore, the results for these compounds were considered estimated with positive results qualified "J" and nondetected results qualified "UJ" for the affected samples.

All continuing calibration compounds were compliant with a minimum relative response factor (RRF) of 0.05 and a percent difference (%D) within ±20% with the exception of methylene chloride (34.83%D) and carbon tetrachloride (-31.65%D) in the continuing calibration associated with air sample SG-3; methylene chloride (39.31%D) and carbon tetrachloride (-31.11%D) in the continuing calibration associated with air sample SG-5; 1,2-dibromo-3-chloropropane (21.15%D) in the continuing calibration associated with sample SB-36(28-30); dichlorodifluoromethane (29.77%D), trichlorofluoromethane (38.93%D), carbon tetrachloride (26.57%D), 1,1,1-trichloroethane (22.45%D), and 1,2-dichloroethane (24.15%D) in the

continuing calibration associated with sample SB-37(48-50); cyclohexane (-22.17%D) in the continuing calibration associated with sample FB022212; and bromomethane (37.2%D), chloroethane (32.65%D), trichlorofluoromethane (33.33%D), 1,1-dichloroethene (22.25%D), and acetone (33.06%D) in the continuing calibration associated with sample SB-22(17-19). Therefore, the results for these compounds were considered estimated with positive results qualified “J” and nondetected results qualified "UJ" for the affected samples.

Usability

All volatile sample results were considered usable following data validation.

Summary

The quality assurance objectives for measurement data included considerations for precision, accuracy, representativeness, completeness, comparability, and sensitivity. The volatile soil and air data presented by Chemtech and Air Toxics were 100% complete (i.e., usable). The validated volatile laboratory data are tabulated and presented in Attachment A-2.

### 2.2.2 Semivolatiles

The following items were reviewed for compliancy in the semivolatile analysis:

- Custody documentation
- Holding times
- Surrogate recoveries
- MS/MSD precision and accuracy
- LCS recoveries
- Laboratory method blank and equipment blank contamination
- GC/MS instrument performance
- Initial and continuing calibrations
- Internal standard area counts and retention times
- Field duplicate precision
- Sample result verification and identification
- Quantitation limits
- Data completeness

These items were considered compliant and acceptable in accordance with the validation protocols with the exception of MS/MSD precision and accuracy, LCS recoveries, and initial calibrations as discussed below.

MS/MSD Precision and Accuracy

All MS/MSD precision (relative percent difference; RPD) and accuracy (percent recovery; %R) measurements were considered acceptable and within QC limits for designated spiked analyses with the exception of the many MS/MSD precision results and the MS accuracy results for atrazine and N-nitrosodiphenylamine during the spiked analyses of sample SB-36(12-14); and the MS/MSD precision result for pentachlorophenol and the 0% MS/MSD accuracy results for 2,4-dinitrophenol during the spiked analyses of sample SB-37(48-50). The nondetected 2,4-dinitrophenol result for parent sample SB-37(48-50) was considered unusable and qualified “R”.

LCS Recoveries

All LCS recoveries were considered acceptable and within QC limits with the exception of the low LCS recoveries for 4-chloroaniline (14%R; QC limit 25-115%R) and 3-nitroaniline (18%R; QC limit 25-110%R) associated with soil samples in SDG D1616; and many low LCS recoveries associated with sample FB022212. Therefore, results for these compounds were considered estimated, possibly biased low, with positive results qualified "J" and nondetected results qualified "UJ" for the affected samples.

Initial Calibrations

All initial calibration compounds were compliant with a minimum average relative response factor (RRF) of 0.05 and a maximum percent relative standard deviation (%RSD) of 20% with the exception of 2,4-dinitrophenol (33%RSD) in the initial calibration associated with soil samples in SDG D1577 and D1616; and 2,4-dinitrophenol (26.5%RSD) in the initial calibration associated with sample FB022212. Therefore, the results for these compounds were considered estimated with positive results qualified "J" and nondetected results qualified "UJ" for the affected samples.

Usability

All semivolatile sample results were considered usable following data validation with the exception of certain nondetected results based upon poor MS/MSD accuracy.

Summary

The quality assurance objectives for measurement data included considerations for precision, accuracy, representativeness, completeness, comparability, and sensitivity. The soil semivolatile data presented by Chemtech were 99.8% complete (i.e., usable). The validated semivolatile laboratory data are tabulated and presented in Attachment A-2.

### 2.2.3 Inorganics

The following items were reviewed for compliancy in the inorganics analysis:

- Custody documentation
- Holding times
- Matrix spike/matrix spike duplicate (MS/MSD) precision and accuracy
- Laboratory control sample (LCS) recoveries
- Laboratory preparation blank and equipment blank contamination
- ICP serial dilutions
- Interference check sample (ICS) recoveries
- Initial and continuing calibration verifications
- Laboratory duplicate precision
- Field duplicate precision
- Sample result verification and identification
- Quantitation limits
- Data completeness

These items were considered compliant and acceptable in accordance with the validation protocols with the exception of blank contamination, serial dilutions, and calibrations as discussed below.

Blank Contamination

The field equipment blank associated with the soil samples in SDG D1616 contained calcium, iron, potassium, sodium, and zinc at concentrations of 1230, 328, 1840, 1410, and 37.2 µg/L, respectively. Therefore, results for these analytes less than validation action concentrations were considered not detected and qualified "U" for the affected samples.

Serial Dilutions

All ICP serial dilution results were considered acceptable and less than 10%D with the exception of the serial dilution for calcium (14.2%D), copper (11.8%D), iron (11.2%D), and sodium (15.9%D) associated with samples in SDG D1577; and calcium (15.7%D) and chromium (11.9%D) associated with samples in SDG D1616. Therefore, positive results for these analytes were considered estimated and qualified "J" for the affected samples.

Calibrations

All initial and continuing calibration verifications were considered acceptable, within QC limits, and analyzed at the appropriate frequency. All calibration reference standard recoveries were considered acceptable and within QC limits except for the low standard recovery for chromium (40%R; QC limit 70-130%R) and the high standard recovery for mercury (265%R; QC limit 0-200%R) associated with samples in SDG D1577. Therefore, chromium results were considered estimated, possibly biased low, with positive results qualified "J" and nondetected results qualified "UJ" for the affected samples. Positive mercury results were considered estimated, possibly biased high, and qualified "J" for the affected samples.

Usability

All inorganics sample results were considered usable following data validation.

Summary

The quality assurance objectives for measurement data included considerations for precision, accuracy, representativeness, completeness, comparability, and sensitivity. The inorganics soil data presented by Chemtech were 100% complete (i.e., usable). The validated inorganics laboratory data are tabulated and presented in Attachment A-2.

## 2.3 2014 SAMPLING

Data review has been completed for data packages generated by Chemtech containing analytical results from soil samples collected from the site during 2014. All of these samples were properly preserved, shipped under a COC record, and received intact by the analytical laboratory. Analytical data were submitted in sample delivery groups (SDG) F1028, F1204, F1466, F1518, F1553, F4695, and F197.

Data validation was performed for all samples in accordance with the most current editions of the USEPA Region II SOPs for organic data review. This data validation and usability report is presented by analysis type. The validated laboratory data are presented in Attachment A-3.

### 2.3.1 Volatiles

The following items were reviewed for compliancy in the volatile analysis:

- Custody documentation
- Holding times
- Surrogate recoveries
- Matrix spike/matrix spike duplicate (MS/MSD) precision and accuracy
- Laboratory control sample (LCS) recoveries
- Laboratory method blank and trip/equipment blank contamination
- GC/MS instrument performance
- Initial and continuing calibrations
- Internal standard area counts and retention times
- Field duplicate precision
- Sample result verification and identification
- Quantitation limits
- Data completeness

These items were considered compliant and acceptable in accordance with the validation protocols with the exception of the surrogate recoveries, internal standard responses, MS/MSD precision and accuracy, LCS recoveries, blank contamination, initial and continuing calibrations, and field duplicate precision as discussed below.

Surrogate Recoveries

All surrogate recoveries were within QC criteria for all samples with the exception of the high 1,2-dichloroethane-d4 recovery (QC limit 56-120%R) in sample with lab ID F4695-06 (127%R); and the low 4-bromofluorobenzene recovery (QC limit 33-141%R) in sample SB-72(7-9) (27%R). Therefore, positive results associated with those surrogates where recoveries exceeded the QC limit were considered estimated, possibly biased high, and qualified "J+" for the affected samples. Results associated with those surrogates where recoveries fell below the QC limit were considered estimated, possibly biased low, with positive results qualified "J-" and nondetected results qualified "UJ" for the affected samples.

Internal Standard Responses

All internal standard areas were within -50% to +100% for all samples with the exception of the low IS 1,4-dichlorobenzene-d4 response in samples with lab IDs F4695-06, F1518-09, F1553-09 and in samples CSB-179(16-18), CSB-79(7-10), and SB-72(7-9); and the low IS chlorobenzene-d5 in sample with lab ID F1553-09. Therefore, positive results associated with these ISs were considered estimated, possibly biased high, and qualified "J+" whereas nondetected results were considered unusable and qualified "R" for the affected sample.

MS/MSD Precision and Accuracy

All MS/MSD precision (relative percent difference; RPD) and accuracy (percent recovery; %R) measurements were considered acceptable and within QC limits for designated spiked analyses with the exception of the MS/MSD precision results for styrene, 1,1,2,2-tetrachloroethane, and 1,2-dibromo-3-chloropropane during the spiked analyses of sample with lab ID F4695-02; the MS/MSD accuracy results for 1,2-dichloropropane, tetrachloroethene, isopropylbenzene, 1,1,2,2-tetrachloroethane, 1,2-dichlorobenzene, 1,2-dibromo-3-chloropropane, 1,1,2-trichloroethane, and 1,2,4-trichlorobenzene during the spiked analyses of sample with lab

ID F5197-01; the MS/MSD accuracy results for chloroethane and 1,2,3-trichlorobenzene during the spiked analyses of sample with lab ID F1028-08; the MS/MSD precision results for chloroethane, acetone, methyl acetate, 2-butanone, 4-methyl-2-pentanone, 2-hexanone, and 1,4-dioxane during the spiked analyses of sample with lab ID F1028-14; the MS/MSD accuracy results for carbon disulfide, benzene, ethylbenzene, m,p-xylenes, o-xylene, styrene, isopropylbenzene, and 1,4-dioxane during the spiked analyses of sample with lab ID F1204-11; the MSD accuracy results for chloroethane and 1,4-dioxane during the spiked analyses of sample with lab ID F1466-03; and the MS/MSD precision for bromomethane, chloroethane, and 1,4-dioxane during the spiked analyses of sample F1518-06. Validation qualification of the parent samples was not required for these compounds.

LCS Recoveries

All LCS recoveries were considered acceptable and within QC limits with the exception of the low LCS recovery for trichlorofluoromethane (67%R) associated with soil samples with lab IDs F4695-01, -02, -06, and -07; the low LCS recovery for chloroethane (64%R) associated with samples with lab IDs F5197-06, -07, -08, and -09; the high LCS recoveries for 1,2,4-trichlorobenzene (129%R), 1,2,3-trichlorobenzene (1132%R), bromomethane (165%R), carbon tetrachloride (145%R), and dibromochloromethane (130%R) associated with soil samples in SDG F1028; the low LCS recovery for chloroethane (49%R) associated with samples with lab IDs F1204-02, -04, -06, -08, and -15; the high LCS recoveries for carbon disulfide (131%R), methyl tert-butyl ether (141%R), methylene chloride (169%R), trans-1,2-dichloroethene (131%R), 1,1-dichloroethane (140%R), cis-1,2-dichloroethene (138%R), bromochloromethane (149%R), and chloroform (137%R) associated with samples with lab IDs F1204-05, -16, and -11; the low LCS recovery for carbon disulfide (55%R) associated with samples with lab IDs F1466-06 and -07; the low LCS recoveries for bromomethane (63%R) and chloroethane (59%R) associated with samples with lab IDs F1466-01, -02, and -03; the low LCS recovery for chloroethane (54%R) and the high LCS recoveries for acetone (210%R), 1,2,4-trichlorobenzene (144%R), 1,2,3-trichlorobenzene (150%R), and 1,4-dioxane (175%R) associated with samples with lab IDs F1518-01, -02, -03, -09, -14, -15, -16, -17, -18, -20, and -21. Therefore, positive results for those compounds where LCS recoveries exceeded the QC limit were considered estimated, possibly biased high, and qualified "J" for the affected samples. Results for those compounds where LCS recoveries fell below the QC limit were considered estimated, possibly biased low, with positive results qualified "J" and nondetected results qualified "UJ" for the affected samples.

Blank Contamination

The field equipment blank FB111014 associated with soil samples in SDG F4695 contained carbon disulfide at a concentration of 5.6 µg/L; the laboratory method blank associated with soil samples in SDG F1028 contained methylene chloride below the reporting limit at a concentration of 2 µg/kg; the field equipment blank FB012114 associated with soil samples in SDG F1204 contained methylene chloride below the reporting limit at a concentration of 1.6 µg/L; and the field equipment blank FB022714 associated with soil samples in SDG F1518 contained methylene chloride and acetone below the reporting limits at concentrations of 2.1 and 15 µg/L, respectively. Therefore, results for these compounds less than validation action concentrations were considered not detected and qualified "U" for the affected samples.

Initial and Continuing Calibrations

All initial calibration compounds were compliant with a minimum average relative response factor (RRF) of 0.05 and a maximum percent relative standard deviation (%RSD) of 20% with the exception of 1,4-dioxane (RRF=0.001, 0.002, 0.003, 0.004, 0.005, 0.006) in the initial calibration associated with all samples; and cyclohexane (42%RSD) in the initial calibration associated with sample FB111014. Therefore, results for these compounds were considered estimated with positive results qualified "J" and nondetected results qualified "UJ" for the affected samples. However, nondetected 1,4-dioxane results were considered unusable and qualified "R" for the affected samples.

All continuing calibration compounds were compliant with a minimum relative response factor (RRF) of 0.05 and a percent difference (%D) within ±20% with the exception of 1,4-dioxane (RRF=0.001, 0.002, 0.003, 0.004, 0.005) in the continuing calibrations associated with all samples; styrene (20.81%D) in the continuing calibration associated with sample FB111014; 1,1,2-trichloroethane (21.5%D), 1,2,4-trichlorobenzene (24.6%D), and 1,2,3-trichlorobenzene (26.05%D) in the continuing calibration associated with samples with lab IDs F5197-06, -07, -08, and -09; carbon disulfide (-23.33%D) in the continuing calibration associated with samples with lab IDs F5197-01, -04, and -05; bromomethane (52%D) in the continuing calibration associated with sample with lab ID F1204-09; chloroethane (32.35%D) and trichlorofluoromethane (52.22%D) in the continuing calibration associated with samples with lab IDs F1518-05, -10, and -13; and bromochloromethane (37.25%D) in the continuing calibration associated with samples with lab IDs F1553-01, -02, -03, -04, -05, and -06. Therefore, the results for these compounds were considered estimated with positive results qualified "J" and nondetected results qualified "UJ" for the affected samples. However, nondetected 1,4-dioxane results were considered unusable and qualified "R" for the affected samples.

Field Duplicate Precision

All field duplicate precision results were considered acceptable with the exception of the precision for isopropylbenzene, m,p-xylene, o-xylene, and ethylbenzene for the field duplicate samples SB-47(29-31) and SB-147(29-31); the precision for toluene, isopropylbenzene, ethylbenzene, m,p-xylene, and o-xylene for the field duplicate samples CSB-57(20-31) and CSB-157(20-31); the precision for benzene for the field duplicate samples CSB-48(25-30) and CSB-148(25-30); and the precision for benzene and toluene for the field duplicate samples CSB-60(7-9) and CSB-160(7-9). Therefore, the results for these compounds were considered estimated with positive results qualified "J" and nondetected results qualified "UJ" for the affected parent sample and its associated field duplicate sample.

Usability

All volatile sample results were considered usable following data validation with the exception of certain nondetected compounds based upon poor calibration linearity and low internal standard responses.

Summary

The quality assurance objectives for measurement data included considerations for precision, accuracy, representativeness, completeness, comparability, and sensitivity. The volatile soil data presented by Chemtech were 97.4% complete (i.e., usable). The validated volatile laboratory data are tabulated and presented in Attachment A-3.

It was noted that samples with lab IDs F1028-07, -09, F1204-01, -05, -07, -08, -16, F1518-01, -02, -12, -15, -16, -19, -20, -21, F1553-01, -04, and -05 contained less than 70% solids. Therefore, results for these samples were considered estimated with positive results qualified "J" and nondetected results qualified "UJ".

### 2.3.2 Semivolatiles

The following items were reviewed for compliancy in the semivolatile analysis:

- Custody documentation
- Holding times
- Surrogate recoveries
- MS/MSD precision and accuracy
- LCS recoveries
- Laboratory method blank and equipment blank contamination
- GC/MS instrument performance
- Initial and continuing calibrations
- Internal standard area counts and retention times
- Field duplicate precision
- Sample result verification and identification
- Quantitation limits
- Data completeness

These items were considered compliant and acceptable in accordance with the validation protocols with the exception of surrogate recoveries, MS/MSD precision and accuracy, LCS recoveries, blank contamination, continuing calibrations, internal standard responses, and field duplicate precision as discussed below.

Surrogate Recoveries

All surrogate recoveries were within QC criteria for all samples with the exception of the high 2-fluorophenol, nitrobenzene-d5, and terphenyl-d14 recoveries in sample with lab ID F1028-05 (131%R, 211%R, and 117%R, respectively); the low 2-fluorophenol, phenol-d6, nitrobenzene-d5, 2-fluorobiphenyl, and terphenyl-d14 recoveries in sample with lab ID F1204-14 (16%R, 17%R, 20%R, 18%R, and 16%R, respectively); and the nitrobenzene-d5 and 2-fluorobiphenyl recoveries in sample with lab ID F1518-11. Therefore, positive results associated with those surrogates where recoveries exceeded the QC limit were considered estimated, possibly biased high, and qualified "J+" for the affected samples. Results associated with those surrogates where recoveries fell below the QC limit were considered estimated, possibly biased low, with positive results qualified "J-" and nondetected results qualified "UJ" for the affected samples.

MS/MSD Precision and Accuracy

All MS/MSD precision (relative percent difference; RPD) and accuracy (percent recovery; %R) measurements were considered acceptable and within QC limits for designated spiked analyses with the exception of the many MS/MSD precision results and the MS/MSD accuracy results for benzaldehyde during the spiked analyses of sample with lab ID F4695-03; the many MS/MSD precision results and the MS/MSD accuracy results for benzaldehyde, 2,4-

dinitrophenol, 4,6-dinitro-2-methylphenol, pentachlorophenol, and 2,3,4,6-tetrachlorophenol during the spiked analyses of sample with lab ID F5197-01; the MS accuracy result for dimethylphthalate and the MS/MSD precision results for naphthalene, 2-methylnaphthalene, and 2,4-dinitrophenol during the spiked analyses of sample with lab ID F1028-08; the MSD accuracy results for naphthalene and 2-methylnaphthalene and the MS/MSD precision results for naphthalene, 2-methylnaphthalene, acenaphthene, phenanthrene, and 3,3'-dichlorobenzidine during the spiked analyses of sample with lab ID F1204-11; the MS/MSD precision for dimethylphthalate during the spiked analyses of sample with lab ID F1466-04; the MS/MSD precision for 2,4-dinitrophenol during the spiked analyses of sample with lab ID F1518-06; and the many MS accuracy results and MS/MSD precision results during the spiked analyses of sample with lab ID F1553-01. Validation qualification of the parent samples was not required for these compounds.

LCS Recoveries

All LCS recoveries were considered acceptable and within QC limits with the exception of the less than 10% LCS recoveries for benzaldehyde (3%R, 4%R) associated with all samples in SDGs F4695 and F5197; the low LCS recoveries for benzaldehyde (9%R), 1,2,4,5-tetrachlorobenzene (61%R), and 2,3,4,6-tetrachlorophenol (61%R) associated with sample with lab ID F1204-09; and the 0% LCS recovery for benzaldehyde associated with soil samples in SDG F1466. Therefore, results for these compounds were considered estimated, possibly biased low, with positive results qualified "J-" and nondetected results qualified "UJ" for the affected samples. The nondetected benzaldehyde results were considered unusable and qualified "R" for the affected samples.

Blank Contamination

The field equipment blank FB121514 associated with soil samples in SDG F5197 contained acetophenone below the reporting limit at a concentration of 2 µg/L; and the field equipment blank FB012114 associated with soil samples in SDG F1204 contained naphthalene below the reporting limit at a concentration of 2.6 µg/L. Therefore, results for these compounds less than validation action concentrations were considered not detected and qualified "U" for the affected samples.

Continuing Calibrations

All continuing calibration compounds were compliant with a minimum relative response factor (RRF) of 0.05 and a percent difference (%D) within ±20% with the exception of pentachlorophenol (39%D) in the continuing calibration associated with sample with lab ID F1204-09; benzo(k)fluoranthene (26%D) in the continuing calibration associated with sample with lab ID F1204-01; 2,6-dinitrotoluene (26.4%D), 2,4-dinitrophenol (65.3%D), 2,4-dinitrotoluene (28.4%D), and 4,6-dinitro-2-methylphenol (50.7%D) in the continuing calibration associated with soil samples in SDG F1466; 2,4-dinitropenol (53.1%D) and 4,6-dinitro-2-methylphenol (49.3%D) in the continuing calibration associated with samples with lab IDs F1518-02, -03, -04, -12, -14, and -18; 2-nitrophenol (26.6%D), 2,4-dinitrophenol (77.7%D), 2,4-dinitrotoluene (25.7%D), and 4,6-dinitro-2-methylphenol (43.8%D) in the continuing calibration associated with samples with lab IDs F1518-03, -05, -09, and -13; 2,4-dinitrophenol (53.1%D) in the continuing calibration associated with samples with lab IDs F1553-01, -04, -06, -08, and -10; and 2-nitrophenol (26.6%D) and 2,4-dinitrophenol (51%D) in the continuing calibration associated with samples with lab IDs F1553-02, -03, -05, and -09. Therefore, the results for

these compounds were considered estimated with positive results qualified “J” and nondetected results qualified "UJ" for the affected samples.

Internal Standard Responses

All internal standard areas were within -50% to +100% for all samples with the exception of the low IS naphthalene-d8 in sample with lab ID F1028-05; the low IS acenaphthene-d10 in sample with lab ID F1518-11; and the low ISs phenanthrene-d10 and perylene-d12 in sample with lab ID F1553-03. Therefore, positive results associated with these ISs were considered estimated with positive results qualified “J” and nondetected results qualified “UJ” for the affected sample.

Field Duplicate Precision

All field duplicate precision results were considered acceptable with the exception of the precision for 2-methylnaphthalene and naphthalene for sample SB-47(29-31) and its field duplicate SB-147(29-31); and chrysene, phenanthrene, anthracene, fluoranthene, pyrene, benzo(a)anthracene, benzo(b)fluoranthene, and benzo(a)pyrene for sample CSB-60(7-9) and its field duplicate CSB-160(7-9). Therefore, the results for these compounds were considered estimated and qualified “J” for these samples.

Usability

All semivolatile sample results were considered usable following data validation with the exception of certain nondetected results based upon poor LCS recoveries.

Summary

The quality assurance objectives for measurement data included considerations for precision, accuracy, representativeness, completeness, comparability, and sensitivity. The soil semivolatile data presented by Chemtech were 99.7% complete (i.e., usable). The validated semivolatile laboratory data are tabulated and presented in Attachment A-3.

It was noted that samples with lab IDs F1028-07, -09, F1204-01, -05, -07, -08, -16, F1518-01, -02, -12, -15, -16, -19, -20, -21, F1553-01, -04, and -05 contained less than 70% solids. Therefore, results for these samples were considered estimated with positive results qualified “J” and nondetected results qualified “UJ”.

### 2.3.3 Inorganics

The following items were reviewed for compliancy in the inorganic analysis:

- Custody documentation
- Holding times
- Matrix spike/matrix spike duplicate (MS/MSD) precision and accuracy
- Laboratory control sample (LCS) recoveries
- Laboratory preparation blank and equipment blank contamination
- ICP serial dilutions
- Interference check sample (ICS) recoveries
- Initial and continuing calibration verifications
- Laboratory duplicate precision
- Field duplicate precision

- Sample result verification and identification
- Quantitation limits
- Data completeness

These items were considered compliant and acceptable in accordance with the validation protocols with the exception of matrix spike recoveries, serial dilutions, ICS recoveries, and field duplicate precision as discussed below.

Matrix Spike Recoveries

All matrix spike recoveries were within the 75-125%R QC limit with the exception of the matrix spike recoveries for silver (63%R, 64.6%R) and zinc (132%R, 129%R) associated with sample SB-75(15-20); barium (129%R, 136%R) associated with sample with lab ID F5197-01; all analytes associated with sample with lab ID F1028-13; antimony (29.8%R), copper (134%R), silver (58%R) associated with sample with lab ID F1204-11; antimony (36.1%R, 36.5%R) associated with sample with lab ID F1466-03; cadmium (129%R, 130%R) and lead (128%R, 127%R) associated with sample with lab ID F1518-06; and antimony (27.8%R, 28.5%R) associated with sample with lab ID F1553-09. Therefore, results for those analytes where matrix spike recoveries fell below the QC limit were considered estimated, possibly biased low, with positive results qualified "J-" for the affected samples. Positive results for those analytes where matrix spike recoveries exceeded the QC limit were considered estimated, possibly biased high, and qualified "J+" for the affected samples.

Serial Dilutions

All ICP serial dilution results were considered acceptable and less than 10%D with the exception of the serial dilution for calcium (16%D), chromium (17%D), copper (26%D), vanadium (16%D), manganese (18%D), aluminum (14%D), magnesium (14%D), and potassium (14%D) associated with sample SB-75(15-20); aluminum (55%D) and iron (57%D) associated with sample with lab ID F1028-01; manganese (16%D) and potassium (20%D) associated with sample with lab ID F1028-13; aluminum (16%D), barium (16%D), calcium (17%D), chromium (22%D), manganese (28%D), and vanadium (22%D) associated with sample with lab ID F1204-11; copper (18%D) and manganese (20%D) associated with samples with lab IDs F1466-01, -02, -03, -06, and -07; barium (17%D), calcium (17%D), copper (25%D), and manganese (25%D) associated with sample with lab ID F1518-06; and arsenic (26%D), barium (17%D), calcium (18%D), chromium (20%D), copper (24%D), magnesium (16%D), manganese (21%D), and vanadium (17%D) associated with sample with lab ID F1553-09. Therefore, the results for these analytes were considered estimated and qualified "J" for the affected samples.

ICS Recoveries

All ICS recoveries were considered acceptable and within the 80-120%R QC limit with the exception of the ICS recoveries for cadmium (319%R), copper (270%R), and manganese (247%R) associated with soil samples in SDG F4695; barium (49.5%R) associated with samples with lab IDs F1028-10, -11, -12, and -13; barium (225.5%R) and cobalt (155.3%R) associated with samples with lab IDs F1466-01, -02, -03, -06, and -07; barium (167%R) and cobalt (121.8%R) associated with soil samples in SDG F1518; barium (135%R) associated with samples with lab IDs F1553-01, -02, -03, -04, -05, -06, and -08; and barium (164%R) and cobalt (129.8%R) associated with samples with lab IDs F1553-09 and -10. Therefore, positive results for those analytes where ICS recoveries exceeded the QC limit were considered estimated, possibly biased high, and qualified "J+" for the affected samples. Results for those analytes

where ICS recoveries fell below the QC limit were considered estimated, possibly biased low, with positive results qualified "J-" and nondetected results qualified "UJ" for the affected samples.

Field Duplicate Precision

All field duplicate precision results were considered acceptable with the exception of the precision cyanide, calcium, and magnesium associated with sample SB-75(5-7) and its field duplicate SB-175(5-7); aluminum, beryllium, chromium, cobalt, copper, iron, lead, magnesium, potassium, selenium, silver, sodium, vanadium, zinc associated with sample CSB-79(16-18) and its field duplicate CSB-179(16-18); aluminum, calcium, chromium, iron, lead, magnesium, manganese, potassium, sodium, vanadium, and zinc associated with sample SB-57(29-31) and its field duplicate SB-157(29-31); and many analytes associated with sample CSB-60(7-9) and its field duplicate CSB-160(7-9). Results for these analytes were considered estimated and qualified "J" for the associated parent sample and its field duplicate.

Usability

All inorganic sample results were considered usable following data validation.

Summary

The quality assurance objectives for measurement data included considerations for precision, accuracy, representativeness, completeness, comparability, and sensitivity. The inorganic soil data presented by Chemtech were 100% complete (i.e., usable). The validated inorganic laboratory data are tabulated and presented in Attachment A-3.

It was noted that sample with lab ID F1518-15 contained less than 50% solids. Therefore, results for this sample were considered estimated with positive results qualified "J" and nondetected results qualified "UJ".

## 2.4 2015 SAMPLING

Data review has been completed for data packages generated by Chemtech containing analytical results from groundwater and soil samples collected from the site during 2015. All of these samples were properly preserved, shipped under a COC record, and received intact by the analytical laboratory. Analytical data were submitted in sample delivery groups (SDGs) G1159, G2627, and G2747.

Data validation was performed for all samples in accordance with the most current editions of the USEPA Region II SOPs for organic data review. This data validation and usability report is presented by analysis type. The validated laboratory data are presented in Attachment A-4.

### 2.4.1 Volatiles

The following items were reviewed for compliancy in the volatile analysis:

- Custody documentation
- Holding times
- Surrogate recoveries
- Matrix spike/matrix spike duplicate (MS/MSD) precision and accuracy
- Laboratory control sample (LCS) recoveries
- Laboratory method blank and trip/equipment blank contamination

- GC/MS instrument performance
- Initial and continuing calibrations
- Internal standard area counts and retention times
- Field duplicate precision
- Sample result verification and identification
- Quantitation limits
- Data completeness

These items were considered compliant and acceptable in accordance with the validation protocols with the exception of the surrogate recoveries, MS/MSD precision and accuracy, LCS recoveries, blank contamination, initial and continuing calibrations, and field duplicate precision as discussed below.

Surrogate Recoveries

All sample surrogate recoveries were within QC criteria for all samples with the exception of the high 1,2-dichloroethane-d4 recovery (QC limit 56-120%R) in sample SB-76(11-13) (130%R). This sample was reanalyzed yielding similar surrogate recoveries and confirming the presence of matrix effects. Therefore, positive results associated with this surrogate were considered estimated, possibly biased high, and qualified "J+" for the affected sample.

MS/MSD Precision and Accuracy

All MS/MSD precision (relative percent difference; RPD) and accuracy (percent recovery; %R) measurements were considered acceptable and within QC limits for designated spiked analyses with the exception of the MS/MSD precision result for methylcyclohexane during the spiked analyses of sample SB-84(17-19); the MS/MSD precision result for 1,4-dioxane during the spiked analyses of sample MW-41; and the MS/MSD precision results for acetone, 2-butanone, methylcyclohexane, n-butylbenzene, 1,2,4-trichlorobenzene, and 1,2,3-trichlorobenzene, and the high MS or MSD accuracy results for 1,1,2,2-tetrachloroethane and 1,2-dibromo-3-chloropropane during the spiked analyses of sample SB-76(11-13). Validation qualification of the parent samples was not required for these compounds.

LCS Recoveries

All LCS recoveries were considered acceptable and within QC limits with the exception of the high LCS recoveries for 2-hexanone (140%R; QC limit 71-134%R) and 1,2-dibromo-3-chloropropane (129%R; QC limit 72-127%R) associated with sample with lab IDs G1159-04; the high LCS recoveries for 1,2-dichloroethane (128%R; QC limit 78-124%R), bromodichloromethane (124%R; QC limit 78-122%R), trans-1,3-dichloropropane (124%R; QC limit 77-123%R), 2-hexanone (140%R; QC limit 71-134%R), bromochloromethane (124%R; QC limit 77-121%R), and 1,1,2,2-tetrachloroethane (129%R; QC limit 79-124%R) associated with soil samples with lab IDs G1159-01, -02, -03, and -08; and the high LCS recovery for bromodichloromethane (123%R; QC limit 78-122%R) associated with soil samples with lab IDs G1159-07, -09, and -10. Therefore, positive results associated with these compounds were considered estimated, possibly biased high, and qualified "J+" for the affected samples.

Blank Contamination

The laboratory method blank associated with soil sample with lab ID G1159-04 contained methylene chloride below the reporting limit at a concentration of 2.1 µg/kg; and the laboratory

method blank associated with soil samples with lab IDs G1159-07, -09, and -10 contained methylene chloride below the reporting limit at a concentration of 4.4 µg/kg. Therefore, methylene chloride results less than validation action concentrations were considered not detected and qualified "U" for the affected samples.

Initial and Continuing Calibrations

All initial calibration compounds were compliant with a minimum average relative response factor (RRF) of 0.05 and a maximum percent relative standard deviation (%RSD) of 20% with the exception of 1,1,1-trichloroethane (38.5%RSD) in the initial calibration associated with sample FB062315. Therefore, the nondetected result for this compound was considered estimated and qualified "UJ" for the affected sample.

All continuing calibration compounds were compliant with a minimum relative response factor (RRF) of 0.05 and a percent difference (%D) within ±20% with the exception of bromomethane (36.3%D) in the continuing calibration associated with groundwater samples. Therefore, the nondetected bromomethane results were considered estimated and qualified "UJ" for the affected samples.

Field Duplicate Precision

All field duplicate precision results were considered acceptable with the exception of the precision for acetone (110%RPD) and 2-butanone (114%RPD) associated with sample SB-76(11-13) and its field duplicate SB-176(11-13). Therefore, the results for these compounds were considered estimated and qualified "J" for these samples.

Usability

All volatile sample results were considered usable following data validation.

Summary

The quality assurance objectives for measurement data included considerations for precision, accuracy, representativeness, completeness, comparability, and sensitivity. The volatile soil and groundwater data presented by Chemtech were 100% complete (i.e., usable). The validated volatile laboratory data are tabulated and presented in Attachment A-4.

### 2.4.2 Semivolatiles

The following items were reviewed for compliancy in the semivolatile analysis:

- Custody documentation
- Holding times
- Surrogate recoveries
- MS/MSD precision and accuracy
- LCS recoveries
- Laboratory method blank and equipment blank contamination
- GC/MS instrument performance
- Initial and continuing calibrations
- Internal standard area counts and retention times
- Field duplicate precision
- Sample result verification and identification

- Quantitation limits
- Data completeness

These items were considered compliant and acceptable in accordance with the validation protocols with the exception of surrogate recoveries, MS/MSD precision and accuracy, LCS recoveries, and initial and continuing calibrations as discussed below.

Surrogate Recoveries

All sample surrogate recoveries were considered acceptable and within QC limits with the exception of the low surrogate recoveries for nitrobenzene-d5 (QC limit 36-131%R), 2-fluorobiphenyl (QC limit 39-131%R), 2,4,6-tribromophenol (QC limit 25-155%R), and terphenyl-d14 (QC limit 23-130%R) in groundwater sample MW-27 (13%R, 16%R, 17%R, and 15%R, respectively). This sample was reanalyzed yielding similar surrogate recoveries confirming the presence of matrix effects. Therefore, the base-neutral fraction sample results were considered estimated, possibly biased low, with positive results qualified "J-" and nondetected results qualified "UJ" for this sample.

MS/MSD Precision and Accuracy

All MS/MSD precision (relative percent difference; RPD) and accuracy (percent recovery; %R) measurements were considered acceptable and within QC limits for designated spiked analyses with the exception of the low MSD accuracy result for 1,2,4,5-tetrachlorobenzene during the spiked analyses of sample MW-41; and the MS/MSD precision results for dimethylphthalate, 4,6-dinitro-2-methylphenol, pyrene, and benzo(b)fluoranthene, and the high MSD accuracy result for 2,4-dinitrotoluene during the spiked analyses of sample SB-76(11-13). Validation qualification of the parent samples was not required for these compounds.

Initial and Continuing Calibrations

All initial calibration compounds were compliant with a minimum average relative response factor (RRF) of 0.05 and a maximum percent relative standard deviation (%RSD) of 20% with the exception of hexachlorocyclopentadiene (43.03%RSD), 2,4-dinitrophenol (44.73%RSD), 4,6-dinito-2-methylphenol (43.05%RSD) and pentachlorophenol (25.39%RSD) in the initial calibration associated with soil samples with lab IDs G1159-03, -04, and -09; pentachlorophenol (28.23%RSD) in the initial calibration associated with soil samples with lab IDs G1159-01, -02, -07, -08, and -10; hexachlorocylcopentadiene (34.2%RSD) and 2,4-dinitrophenol (51.6%RSD) in the initial calibration associated with groundwater samples MW-41, MW-141, MW-21, and CSB-60; and hexachlorocyclopentadiene (47.5%RSD) in the initial calibration associated with all groundwater samples except MW-41, MW-141, MW-21, and CSB-60. Therefore, the results for these compounds were considered estimated with positive results qualified "J" and nondetected results qualified "UJ" for the affected samples.

All continuing calibration compounds were compliant with a minimum relative response factor (RRF) of 0.05 and a percent difference (%D) within ±20% with the exception of 2,4-dinitrophenol (43.2%D) in the continuing calibration associated with groundwater samples MW-41, MW-141, MW-21, and CSB-60; and 2,4-dinitrophenol (46.2%D) in the continuing calibration associated with sample FB062315. Therefore, the results for these compounds were considered estimated with positive results qualified "J" and nondetected results qualified "UJ" for the affected samples.

Usability

All semivolatile sample results were considered usable following data validation.

Summary

The quality assurance objectives for measurement data included considerations for precision, accuracy, representativeness, completeness, comparability, and sensitivity. The soil and groundwater semivolatile data presented by Chemtech were 100% complete (i.e., usable). The validated semivolatile laboratory data are tabulated and presented in Attachment A-4.

### 2.4.3 Inorganics

The following items were reviewed for compliancy in the inorganic analysis:

- Custody documentation
- Holding times
- Matrix spike/matrix spike duplicate (MS/MSD) precision and accuracy
- Laboratory control sample (LCS) recoveries
- Laboratory preparation blank and equipment blank contamination
- ICP serial dilutions
- Interference check sample (ICS) recoveries
- Initial and continuing calibration verifications
- Laboratory duplicate precision
- Field duplicate precision
- Sample result verification and identification
- Quantitation limits
- Data completeness

These items were considered compliant and acceptable in accordance with the validation protocols with the exception of blank contamination, matrix spike recoveries, serial dilutions, ICS recoveries, and field duplicate precision as discussed below.

Blank Contamination

The laboratory preparation blank associated with the groundwater samples contained potassium and sodium below the reporting limit at concentrations of 65.2 and 185 µg/L, respectively; the laboratory preparation blank associated with soil samples in SDG G2747 contained barium less than the reporting limit at a concentration of 0.427 mg/kg; the laboratory preparation blank associated with sample FB062315 contained aluminum, potassium, and sodium below the reporting limit at concentrations of 9.95, 67.4, and 374 µg/L, respectively; the field equipment blank associated with groundwater samples contained aluminum, calcium, iron, magnesium, potassium, and sodium below the reporting limit at concentrations of 15, 717, 16, 205, 91, and 907 µg/L, respectively; and the field equipment blank associated with samples in SDG G2747 contained aluminum, barium, calcium, chromium, iron, magnesium, manganese, potassium, sodium, and zinc at concentrations of 176, 4.18, 114, 5.05, 243, 53.5, 4.58, 97.8, 275, and 7.31 µg/L, respectively. Therefore, results for these analytes less than validation action concentrations were considered not detected and qualified "U" for the affected samples.

Matrix Spike Recoveries

All matrix spike recoveries were within the 75-125%R QC limit with the exception of the matrix spike recoveries for chromium (124%R, 126%R), mercury (25%R, 2%R), nickel (133%R, 136%R), silver (68.1%R, 69.6%R), and sodium (173%R, 182%R) associated with sample SB-84 (17-19); aluminum (138%R, 176%R), antimony (138.8%R), beryllium (148%R), sodium (0%R, 0%R), arsenic (134%R), zinc (141%R), silver (131%R), and selenium (135%R) associated with sample MW-41; and silver (71%R, 68%R) and chromium (74%R) associated with sample SB-76(11-13). Therefore, positive results for those analytes where matrix spike recoveries exceeded the QC limit were considered estimated, possibly biased high, and qualified "J+" for the affected parent sample. Results for those analytes where matrix spike recoveries fell below the QC limit were considered estimated, possibly biased low, with positive results qualified "J-" and nondetected results qualified "UJ" for the affected parent sample. However, nondetected results where matrix spike recoveries fell below 10% were considered unusable and qualified "R" for the affected parent sample.

Serial Dilutions

All ICP serial dilution results were considered acceptable and less than 10%D with the exception of the serial dilution for manganese (11%D), mercury (18%D), and zinc (19%D) associated with sample SB-84(17-19); and barium (13%D), calcium (11%D), chromium (13%D), copper (17%D), manganese (13%D), vanadium (12%D), and zinc (13%D) associated with sample SB-76(11-13). Therefore, the positive results for these analytes were considered estimated and qualified "J" for these samples.

ICS Recoveries

All ICS recoveries were considered acceptable and within the 80-120%R QC limit with the exception of the high ICS recoveries for cadmium (165%R), copper (391.5%R), and manganese (207.1%R) associated with samples in SDG G1159. Therefore, results for these analytes were considered estimated, possibly biased high, and qualified "J+" for the affected samples.

Field Duplicate Precision

All field duplicate precision results were considered acceptable with the exception of aluminum (140%RPD), arsenic (134%RPD), cadmium (96%RPD), iron (84%RPD), zinc (59%RPD), and lead (nondetect and 8.92 µg/L) associated with sample MW-41 and its field duplicate MW-141; and calcium (130%RPD) and magnesium (105%RPD) associated with sample SB-76(11-13) and its field duplicate SB-176(11-13). Therefore, results for these analytes were considered estimated with positive results qualified "J" and nondetected results qualified "UJ" for the affected parent samples and field duplicates.

Usability

All inorganic sample results were considered usable following data validation with the exception of certain nondetected results based upon poor matrix spike recoveries.

Summary

The quality assurance objectives for measurement data included considerations for precision, accuracy, representativeness, completeness, comparability, and sensitivity. The inorganic groundwater and soil data presented by Chemtech were 99.8% complete (i.e., usable). The validated inorganic laboratory data are tabulated and presented in Attachment A-4.

# ATTACHMENT A

# VALIDATED LABORATORY DATA

# ATTACHMENT A-1

# VALIDATED LABORATORY DATA FOR 2011 SAMPLES

| Consolidated Edison<br>Farrington Street Remedial Investigation<br>2011 Air Analytical Data<br>SDG: 1108582 | | Location ID:<br>Sample ID:<br>Lab Sample Id:<br>Source:<br>SDG:<br>Matrix:<br>Sampled:<br>Validated: | SG-1<br>SG-1<br>1108582-06A<br>PARSONS<br>1108582<br>AIR<br>8/24/2011 13:40<br>1/23/2012 | SG-2<br>SG-2<br>1108582-07A<br>PARSONS<br>1108582<br>AIR<br>8/24/2011 13:50<br>1/23/2012 | SG-6<br>SG-6<br>1108582-01A<br>PARSONS<br>1108582<br>AIR<br>8/25/2011 8:35<br>1/23/2012 | SG-7<br>SG-7<br>1108582-02A<br>PARSONS<br>1108582<br>AIR<br>8/25/2011 8:45<br>1/23/2012 |
|---|---|---|---|---|---|---|
| CAS NO. | COMPOUND | UNITS: | | | | |
| | VOLATILES | | | | | |
| 71-55-6 | 1,1,1-TRICHLOROETHANE | ug/m3 | 3.7 U | 18 U | 0.98 U | 4.8 U |
| 79-34-5 | 1,1,2,2-TETRACHLOROETHANE | ug/m3 | 4.7 U | 23 U | 1.2 U | 6 U |
| 76-13-1 | 1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE | ug/m3 | 5.2 UJ | 26 UJ | 1.4 UJ | 6.7 UJ |
| 79-00-5 | 1,1,2-TRICHLOROETHANE | ug/m3 | 3.7 U | 18 U | 0.98 U | 4.8 U |
| 75-34-3 | 1,1-DICHLOROETHANE | ug/m3 | 2.8 U | 24 | 0.72 U | 3.5 U |
| 75-35-4 | 1,1-DICHLOROETHENE | ug/m3 | 2.7 UJ | 13 UJ | 0.71 UJ | 3.5 UJ |
| 120-82-1 | 1,2,4-TRICHLOROBENZENE | ug/m3 | 25 U | 120 U | 6.6 U | 32 U |
| 95-63-6 | 1,2,4-TRIMETHYLBENZENE | ug/m3 | 6.1 | 16 U | 8.3 | 260 |
| 106-93-4 | 1,2-DIBROMOETHANE | ug/m3 | 5.2 U | 26 U | 1.4 U | 6.7 U |
| 95-50-1 | 1,2-DICHLOROBENZENE | ug/m3 | 4.1 U | 20 U | 1.1 U | 5.3 U |
| 107-06-2 | 1,2-DICHLOROETHANE | ug/m3 | 2.8 U | 14 U | 0.72 U | 3.5 U |
| 78-87-5 | 1,2-DICHLOROPROPANE | ug/m3 | 3.2 U | 16 U | 0.83 U | 4 U |
| 108-67-8 | 1,3,5-TRIMETHYLBENZENE | ug/m3 | 3.4 U | 16 U | 3.2 | 200 |
| 106-99-0 | 1,3-BUTADIENE | ug/m3 | 1.7 | 7.4 U | 0.4 U | 21 |
| 541-73-1 | 1,3-DICHLOROBENZENE | ug/m3 | 4.1 U | 20 U | 1.1 U | 5.3 U |
| 106-46-7 | 1,4-DICHLOROBENZENE | ug/m3 | 4.1 U | 20 U | 2 | 5.3 U |
| 123-91-1 | 1,4-DIOXANE (P-DIOXANE) | ug/m3 | 2.5 U | 12 U | 0.64 U | 3.2 U |
| 540-84-1 | 2,2,4-TRIMETHYLPENTANE | ug/m3 | 21 | 94 | 8.7 | 20 U |
| 565-59-3 | 2,3-DIMETHYLPENTANE | ug/m3 | 16 | 320 J | 6.3 | 58 |
| 591-78-6 | 2-HEXANONE | ug/m3 | 14 U | 69 U | 4.5 | 18 U |
| 107-83-5 | 2-METHYLPENTANE | ug/m3 | 18 | 1300 J | 18 J | 120 J |
| 67-63-0 | 2-PROPANOL | ug/m3 | 14 | 41 U | 4.5 | 11 U |
| 622-96-8 | 4-ETHYLTOLUENE | ug/m3 | 6.1 | 16 U | 10 | 110 |
| 67-64-1 | ACETONE | ug/m3 | 3300 J | 3300 J | 890 J | 1400 J |
| 107-05-1 | ALLYL CHLORIDE (3-CHLOROPROPENE) | ug/m3 | 11 UJ | 52 UJ | 2.8 UJ | 14 UJ |
| 100-44-7 | ALPHA-CHLOROTOLUENE | ug/m3 | 3.5 U | 17 U | 0.93 U | 4.5 U |
| 71-43-2 | BENZENE | ug/m3 | 11 | 16 | 62 | 730 |
| 75-27-4 | BROMODICHLOROMETHANE | ug/m3 | 4.6 U | 22 U | 1.2 U | 5.9 U |
| 75-25-2 | BROMOFORM | ug/m3 | 7.1 U | 35 U | 1.8 U | 9 U |
| 74-83-9 | BROMOMETHANE | ug/m3 | 2.6 U | 13 U | 0.7 U | 3.4 U |
| 75-15-0 | CARBON DISULFIDE | ug/m3 | 350 | 300 | 47 | 14 U |
| 56-23-5 | CARBON TETRACHLORIDE | ug/m3 | 4.3 UJ | 21 UJ | 1.1 UJ | 5.5 UJ |
| 108-90-7 | CHLOROBENZENE | ug/m3 | 3.1 U | 15 U | 54 | 4 U |
| 75-00-3 | CHLOROETHANE | ug/m3 | 9 U | 44 U | 2.4 U | 12 U |
| 67-66-3 | CHLOROFORM | ug/m3 | 7 | 16 U | 0.87 U | 4.3 U |
| 74-87-3 | CHLOROMETHANE | ug/m3 | 2 | 6.9 U | 1.2 | 1.8 U |
| 156-59-2 | CIS-1,2-DICHLOROETHYLENE | ug/m3 | 2.7 U | 13 U | 0.71 U | 3.5 U |
| 10061-01-5 | CIS-1,3-DICHLOROPROPENE | ug/m3 | 3.1 U | 15 U | 0.81 U | 4 U |
| 110-82-7 | CYCLOHEXANE | ug/m3 | 9.2 | 200 | 6.6 | 14 |
| 124-48-1 | DIBROMOCHLOROMETHANE | ug/m3 | 5.8 U | 29 U | 1.5 U | 7.4 U |
| 75-71-8 | DICHLORODIFLUOROMETHANE | ug/m3 | 57 | 17 U | 2.1 | 4.3 U |
| 64-17-5 | ETHANOL | ug/m3 | 25 J | 87 J | 10 J | 8.2 UJ |
| 100-41-4 | ETHYLBENZENE | ug/m3 | 19 | 22 | 20 | 100 |
| 76-14-2 | FREON 114 | ug/m3 | 4.8 U | 23 U | 1.2 U | 6.1 U |
| 142-82-5 | HEPTANE | ug/m3 | 24 | 69 | 7.3 | 11 |
| 87-68-3 | HEXACHLOROBUTADIENE | ug/m3 | 36 U | 180 U | 9.5 U | 47 U |
| 496-11-7 | INDAN | ug/m3 | 16 U | 81 U | 4.3 U | 49 |
| 95-13-6 | INDENE | ug/m3 | 16 U | 80 U | 4.2 U | 140 J |
| 78-78-4 | ISOPENTANE | ug/m3 | 14 | 2700 | 21 | 38 |
| 98-82-8 | ISOPROPYLBENZENE (CUMENE) | ug/m3 | 3.4 U | 16 U | 3.6 | 11 |
| XYLMP | M,P-XYLENE (SUM OF ISOMERS) | ug/m3 | 48 | 64 | 63 | 940 |
| 78-93-3 | METHYL ETHYL KETONE (2-BUTANONE) | ug/m3 | 40 | 57 | 14 | 24 |
| 108-10-1 | METHYL ISOBUTYL KETONE | ug/m3 | 2.8 U | 14 U | 0.73 U | 3.6 U |
| 75-09-2 | METHYLENE CHLORIDE | ug/m3 | 4.8 U | 23 U | 4.6 | 6.1 U |
| 91-20-3 | NAPHTHALENE | ug/m3 | 18 U | 88 U | 4.7 U | 23 U |
| 110-54-3 | N-HEXANE | ug/m3 | 14 | 60 | 9.3 | 5.5 |
| 95-47-6 | O-XYLENE (1,2-DIMETHYLBENZENE) | ug/m3 | 10 | 16 | 18 | 470 |
| 103-65-1 | PROPYLBENZENE | ug/m3 | 3.4 U | 16 U | 2.5 | 13 |
| 100-42-5 | STYRENE | ug/m3 | 2.9 U | 14 U | 1.8 | 71 |
| 1634-04-4 | TERT-BUTYL METHYL ETHER | ug/m3 | 2.5 U | 12 U | 0.64 U | 3.2 U |
| 127-18-4 | TETRACHLOROETHYLENE(PCE) | ug/m3 | 38 | 30 | 37 | 12 |
| 109-99-9 | TETRAHYDROFURAN | ug/m3 | 10 U | 50 U | 2.6 U | 13 U |
| 110-02-1 | THIOPHENE | ug/m3 | 12 U | 58 U | 3.1 U | 15 U |
| 108-88-3 | TOLUENE | ug/m3 | 50 | 42 | 48 | 770 |
| 156-60-5 | TRANS-1,2-DICHLOROETHENE | ug/m3 | 2.7 U | 13 U | 0.71 U | 3.5 U |
| 10061-02-6 | TRANS-1,3-DICHLOROPROPENE | ug/m3 | 3.1 U | 15 U | 0.81 U | 4 U |
| 79-01-6 | TRICHLOROETHYLENE (TCE) | ug/m3 | 3.7 U | 18 U | 0.96 U | 4.7 U |
| 75-69-4 | TRICHLOROFLUOROMETHANE | ug/m3 | 3.8 U | 19 U | 1.5 | 4.9 U |
| 75-01-4 | VINYL CHLORIDE | ug/m3 | 1.7 U | 8.6 U | 0.46 U | 2.2 U |

| Consolidated Edison<br>Farrington Street Remedial Investigation<br>2011 Air Analytical Data<br>SDG: 1108582 | | Location ID:<br>Sample ID:<br>Lab Sample Id:<br>Source:<br>SDG:<br>Matrix:<br>Sampled:<br>Validated: | SG-8<br>SG-8<br>1108582-04A<br>PARSONS<br>1108582<br>AIR<br>8/24/2011 8:55<br>1/23/2012 | SG-9<br>SG-9<br>1108582-05A<br>PARSONS<br>1108582<br>AIR<br>8/24/2011 9:55<br>1/23/2012 | SG-10<br>SG-10<br>1108582-03A<br>PARSONS<br>1108582<br>AIR<br>8/25/2011 9:30<br>1/23/2012 | SG-11<br>SG-11<br>1108582-08A<br>PARSONS<br>1108582<br>AIR<br>8/26/2011 10:45<br>1/23/2012 |
|---|---|---|---|---|---|---|
| CAS NO. | COMPOUND | UNITS: | | | | |
| | VOLATILES | | | | | |
| 71-55-6 | 1,1,1-TRICHLOROETHANE | ug/m3 | 6 | 18 U | 3.6 | 15 |
| 79-34-5 | 1,1,2,2-TETRACHLOROETHANE | ug/m3 | 5.8 U | 22 U | 2.3 U | 2.3 U |
| 76-13-1 | 1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE | ug/m3 | 6.4 UJ | 25 UJ | 2.6 UJ | 2.6 UJ |
| 79-00-5 | 1,1,2-TRICHLOROETHANE | ug/m3 | 4.6 U | 18 U | 1.8 U | 1.8 U |
| 75-34-3 | 1,1-DICHLOROETHANE | ug/m3 | 3.4 U | 13 U | 1.4 U | 1.4 U |
| 75-35-4 | 1,1-DICHLOROETHENE | ug/m3 | 3.3 UJ | 13 UJ | 1.3 UJ | 1.3 UJ |
| 120-82-1 | 1,2,4-TRICHLOROBENZENE | ug/m3 | 31 U | 120 U | 12 U | 12 U |
| 95-63-6 | 1,2,4-TRIMETHYLBENZENE | ug/m3 | 4.1 U | 610 | 4.7 | 19 |
| 106-93-4 | 1,2-DIBROMOETHANE | ug/m3 | 6.4 U | 25 U | 2.6 U | 2.6 U |
| 95-50-1 | 1,2-DICHLOROBENZENE | ug/m3 | 5 U | 20 U | 2 U | 2 U |
| 107-06-2 | 1,2-DICHLOROETHANE | ug/m3 | 3.4 U | 13 U | 1.4 U | 1.4 U |
| 78-87-5 | 1,2-DICHLOROPROPANE | ug/m3 | 3.9 U | 15 U | 1.6 U | 1.6 U |
| 108-67-8 | 1,3,5-TRIMETHYLBENZENE | ug/m3 | 4.1 U | 130 | 2 | 9.8 |
| 106-99-0 | 1,3-BUTADIENE | ug/m3 | 30 | 40 | 0.74 U | 0.74 U |
| 541-73-1 | 1,3-DICHLOROBENZENE | ug/m3 | 5 U | 20 U | 2 U | 2 U |
| 106-46-7 | 1,4-DICHLOROBENZENE | ug/m3 | 5 U | 20 U | 2 U | 2 U |
| 123-91-1 | 1,4-DIOXANE (P-DIOXANE) | ug/m3 | 3 U | 12 U | 1.2 U | 1.2 U |
| 540-84-1 | 2,2,4-TRIMETHYLPENTANE | ug/m3 | 20 U | 77 U | 7.8 U | 7.8 U |
| 565-59-3 | 2,3-DIMETHYLPENTANE | ug/m3 | 17 U | 590 J | 6.9 U | 6.9 U |
| 591-78-6 | 2-HEXANONE | ug/m3 | 17 U | 67 U | 7.6 | 10 |
| 107-83-5 | 2-METHYLPENTANE | ug/m3 | 53 | 3300 J | 5.9 U | 6.3 |
| 67-63-0 | 2-PROPANOL | ug/m3 | 32 | 40 U | 12 | 6.7 |
| 622-96-8 | 4-ETHYLTOLUENE | ug/m3 | 12 | 180 | 5 | 13 |
| 67-64-1 | ACETONE | ug/m3 | 4900 J | 3600 J | 2300 J | 1100 J |
| 107-05-1 | ALLYL CHLORIDE (3-CHLOROPROPENE) | ug/m3 | 13 UJ | 51 UJ | 5.2 UJ | 5.2 UJ |
| 100-44-7 | ALPHA-CHLOROTOLUENE | ug/m3 | 4.3 U | 17 U | 1.7 U | 1.7 U |
| 71-43-2 | BENZENE | ug/m3 | 72 | 2200 | 7.5 | 30 |
| 75-27-4 | BROMODICHLOROMETHANE | ug/m3 | 5.6 U | 22 U | 2.2 U | 2.2 U |
| 75-25-2 | BROMOFORM | ug/m3 | 8.7 U | 34 U | 3.5 U | 3.5 U |
| 74-83-9 | BROMOMETHANE | ug/m3 | 3.3 U | 13 U | 1.3 U | 1.3 U |
| 75-15-0 | CARBON DISULFIDE | ug/m3 | 53 | 79 | 5.2 U | 20 |
| 56-23-5 | CARBON TETRACHLORIDE | ug/m3 | 5.3 UJ | 21 UJ | 2.1 UJ | 2.1 UJ |
| 108-90-7 | CHLOROBENZENE | ug/m3 | 34 | 15 U | 1.5 U | 3.9 |
| 75-00-3 | CHLOROETHANE | ug/m3 | 11 U | 43 U | 4.4 U | 4.4 U |
| 67-66-3 | CHLOROFORM | ug/m3 | 15 | 16 U | 7.8 | 92 |
| 74-87-3 | CHLOROMETHANE | ug/m3 | 4 | 6.8 U | 0.93 | 0.92 |
| 156-59-2 | CIS-1,2-DICHLOROETHYLENE | ug/m3 | 3.3 U | 13 U | 1.3 U | 1.3 U |
| 10061-01-5 | CIS-1,3-DICHLOROPROPENE | ug/m3 | 3.8 U | 15 U | 1.5 U | 1.5 U |
| 110-82-7 | CYCLOHEXANE | ug/m3 | 10 | 920 | 1.3 | 3.4 |
| 124-48-1 | DIBROMOCHLOROMETHANE | ug/m3 | 7.2 U | 28 U | 2.9 U | 2.9 U |
| 75-71-8 | DICHLORODIFLUOROMETHANE | ug/m3 | 4.2 U | 16 U | 2.8 | 2.7 |
| 64-17-5 | ETHANOL | ug/m3 | 120 J | 410 J | 25 J | 11 J |
| 100-41-4 | ETHYLBENZENE | ug/m3 | 400 | 73 | 16 | 74 |
| 76-14-2 | FREON 114 | ug/m3 | 5.9 U | 23 U | 2.3 U | 2.3 U |
| 142-82-5 | HEPTANE | ug/m3 | 24 | 610 | 4.7 | 4.9 |
| 87-68-3 | HEXACHLOROBUTADIENE | ug/m3 | 45 U | 170 U | 18 U | 18 U |
| 496-11-7 | INDAN | ug/m3 | 20 U | 1100 J | 8.1 U | 8.1 U |
| 95-13-6 | INDENE | ug/m3 | 20 U | 78 U | 8 U | 8 U |
| 78-78-4 | ISOPENTANE | ug/m3 | 62 | 4300 J | 5 U | 5 U |
| 98-82-8 | ISOPROPYLBENZENE (CUMENE) | ug/m3 | 10 | 340 | 1.6 U | 3.2 |
| XYLMP | M,P-XYLENE (SUM OF ISOMERS) | ug/m3 | 850 | 80 | 50 | 230 |
| 78-93-3 | METHYL ETHYL KETONE (2-BUTANONE) | ug/m3 | 120 | 69 | 30 | 30 |
| 108-10-1 | METHYL ISOBUTYL KETONE | ug/m3 | 3.4 U | 13 U | 1.4 U | 1.4 U |
| 75-09-2 | METHYLENE CHLORIDE | ug/m3 | 5.8 U | 23 U | 2.3 U | 2.3 U |
| 91-20-3 | NAPHTHALENE | ug/m3 | 22 U | 86 U | 8.8 U | 8.8 U |
| 110-54-3 | N-HEXANE | ug/m3 | 39 | 1700 | 3.2 | 3.9 |
| 95-47-6 | O-XYLENE (1,2-DIMETHYLBENZENE) | ug/m3 | 210 | 100 | 13 | 71 |
| 103-65-1 | PROPYLBENZENE | ug/m3 | 4.2 | 150 | 1.6 U | 3.4 |
| 100-42-5 | STYRENE | ug/m3 | 3.6 U | 14 U | 3.1 | 1.4 U |
| 1634-04-4 | TERT-BUTYL METHYL ETHER | ug/m3 | 3 U | 12 U | 1.2 U | 1.2 U |
| 127-18-4 | TETRACHLOROETHYLENE(PCE) | ug/m3 | 100 | 23 | 130 | 150 |
| 109-99-9 | TETRAHYDROFURAN | ug/m3 | 12 U | 48 U | 5 U | 5 U |
| 110-02-1 | THIOPHENE | ug/m3 | 14 U | 56 U | 5.8 U | 5.8 U |
| 108-88-3 | TOLUENE | ug/m3 | 500 | 140 | 35 | 120 |
| 156-60-5 | TRANS-1,2-DICHLOROETHENE | ug/m3 | 3.3 U | 13 U | 1.3 U | 1.3 U |
| 10061-02-6 | TRANS-1,3-DICHLOROPROPENE | ug/m3 | 3.8 U | 15 U | 1.5 U | 1.5 U |
| 79-01-6 | TRICHLOROETHYLENE (TCE) | ug/m3 | 44 | 18 U | 1.8 U | 2.7 |
| 75-69-4 | TRICHLOROFLUOROMETHANE | ug/m3 | 5 | 18 U | 1.9 U | 2.2 |
| 75-01-4 | VINYL CHLORIDE | ug/m3 | 2.1 U | 14 | 0.86 U | 0.86 U |

| Consolidated Edison<br>Farrington Street Remedial Investigation<br>Validated Soil Analytical Data<br>SDG: C3584 | | Location ID:<br>Sample ID:<br>Lab Sample Id:<br>Depth:<br>Source:<br>SDG:<br>Matrix:<br>Sampled:<br>Validated: | MW-23<br>MW-23(21-23)<br>C3584-07<br>21 - 23 ft<br>CTECH<br>C3584<br>SOIL<br>9/1/2011<br>1/23/2012 | MW-23<br>MW-23(39-41)<br>C3584-08<br>39 - 41 ft<br>CTECH<br>C3584<br>SOIL<br>9/1/2011<br>1/23/2012 | MW-24<br>MW-24(17-19)<br>C3584-04<br>17 - 19 ft<br>CTECH<br>C3584<br>SOIL<br>8/30/2011<br>1/23/2012 | MW-24<br>MW-24(38-40)<br>C3584-05<br>38 - 40 ft<br>CTECH<br>C3584<br>SOIL<br>8/31/2011<br>1/23/2012 | MW-24<br>MW-24(41-42)<br>C3584-06<br>41 - 42 ft<br>CTECH<br>C3584<br>SOIL<br>8/31/2011<br>1/23/2012 | MW-26<br>MW-26(12-14)<br>C3584-01<br>12 - 14 ft<br>CTECH<br>C3584<br>SOIL<br>8/25/2011<br>1/23/2012 |
|---|---|---|---|---|---|---|---|---|
| CAS NO. | COMPOUND | UNITS: | | | | | | |
| | VOLATILES | | | | | | | |
| 71-55-6 | 1,1,1-TRICHLOROETHANE | ug/kg | 250 U | 1.1 U | 1.1 U | 48 U | 1 U | 98 U |
| 79-34-5 | 1,1,2,2-TETRACHLOROETHANE | ug/kg | 190 U | 0.55 U | 0.56 U | 37 U | 0.54 U | 76 U |
| 76-13-1 | 1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE | ug/kg | 280 U | 1.6 U | 1.6 U | 54 U | 1.6 U | 110 U |
| 79-00-5 | 1,1,2-TRICHLOROETHANE | ug/kg | 240 U | 1.1 U | 1.1 U | 46 U | 1.1 U | 93 U |
| 75-34-3 | 1,1-DICHLOROETHANE | ug/kg | 220 U | 1.1 U | 1.1 U | 43 U | 1.1 U | 89 U |
| 75-35-4 | 1,1-DICHLOROETHENE | ug/kg | 290 U | 1.8 U | 1.8 U | 57 U | 1.7 U | 120 U |
| 120-82-1 | 1,2,4-TRICHLOROBENZENE | ug/kg | 390 U | 0.84 U | 0.86 U | 75 U | 0.83 U | 150 U |
| 96-12-8 | 1,2-DIBROMO-3-CHLOROPROPANE | ug/kg | 290 U | 1 U | 1.1 U | 56 U | 1 U | 110 U |
| 106-93-4 | 1,2-DIBROMOETHANE | ug/kg | 250 U | 0.77 U | 0.78 U | 50 U | 0.75 U | 100 U |
| 95-50-1 | 1,2-DICHLOROBENZENE | ug/kg | 280 U | 0.75 U | 0.76 U | 54 U | 0.73 U | 110 U |
| 107-06-2 | 1,2-DICHLOROETHANE | ug/kg | 300 U | 0.77 U | 0.78 U | 58 U | 0.75 U | 120 U |
| 78-87-5 | 1,2-DICHLOROPROPANE | ug/kg | 290 U | 0.31 U | 0.32 U | 56 U | 0.31 U | 110 U |
| 541-73-1 | 1,3-DICHLOROBENZENE | ug/kg | 270 U | 0.44 U | 0.45 U | 52 U | 0.44 U | 110 U |
| 106-46-7 | 1,4-DICHLOROBENZENE | ug/kg | 200 U | 0.49 U | 0.5 U | 39 U | 0.48 U | 79 U |
| 591-78-6 | 2-HEXANONE | ug/kg | 1200 U | 4.7 U | 4.8 U | 230 U | 4.6 U | 480 U |
| 67-64-1 | ACETONE | ug/kg | 1700 U | R | R | 330 U | R | 680 U |
| 71-43-2 | BENZENE | ug/kg | 200 U | 0.46 U | 1.4 J | 39 U | 0.45 U | 79 U |
| 75-27-4 | BROMODICHLOROMETHANE | ug/kg | 220 U | 0.75 U | 0.76 U | 43 U | 0.73 U | 89 U |
| 75-25-2 | BROMOFORM | ug/kg | 290 U | 0.89 U | 0.9 U | 57 U | 0.87 U | 120 U |
| 74-83-9 | BROMOMETHANE | ug/kg | 390 U | 2.9 U | 3 U | 75 U | 2.9 U | 150 U |
| 75-15-0 | CARBON DISULFIDE | ug/kg | 340 U | 1.3 U | 1.3 J | 65 U | 1.2 U | 130 U |
| 56-23-5 | CARBON TETRACHLORIDE | ug/kg | 390 U | 1.2 U | 1.2 U | 75 U | 1.2 U | 150 U |
| 108-90-7 | CHLOROBENZENE | ug/kg | 300 U | 0.6 U | 0.61 U | 59 U | 0.59 U | 120 U |
| 75-00-3 | CHLOROETHANE | ug/kg | 410 UJ | 1.7 U | 1.7 U | 80 U | 1.7 U | 160 U |
| 67-66-3 | CHLOROFORM | ug/kg | 210 U | 0.89 U | 0.9 U | 41 U | 0.87 U | 84 U |
| 74-87-3 | CHLOROMETHANE | ug/kg | 340 U | 1 U | 1.1 U | 65 U | 1 U | 130 U |
| 156-59-2 | CIS-1,2-DICHLOROETHYLENE | ug/kg | 220 U | 1.1 U | 1.1 U | 42 U | 1 U | 86 U |
| 10061-01-5 | CIS-1,3-DICHLOROPROPENE | ug/kg | 190 U | 0.87 U | 0.88 U | 37 U | 0.85 U | 76 U |
| 110-82-7 | CYCLOHEXANE | ug/kg | 340 U | 1.2 U | 3.1 J | 66 U | 1.2 U | 140 U |
| 124-48-1 | DIBROMOCHLOROMETHANE | ug/kg | 320 U | 0.65 U | 0.66 U | 63 U | 0.64 U | 130 U |
| 75-71-8 | DICHLORODIFLUOROMETHANE | ug/kg | 340 UJ | 0.78 U | 0.79 U | 66 U | 0.77 U | 140 U |
| 100-41-4 | ETHYLBENZENE | ug/kg | 8600 | 1.7 J | 10 | 40000 | 0.73 U | 130 U |
| 98-82-8 | ISOPROPYLBENZENE (CUMENE) | ug/kg | 2400 J | 0.58 U | 24 | 1900 | 0.57 U | 450 J |
| 79-20-9 | METHYL ACETATE | ug/kg | 520 U | 1.8 U | 1.8 U | 100 U | 1.8 U | 200 U |
| 78-93-3 | METHYL ETHYL KETONE (2-BUTANONE) | ug/kg | 820 U | 3.7 U | 3.8 U | 160 U | 3.7 U | 320 U |
| 108-10-1 | METHYL ISOBUTYL KETONE | ug/kg | 1300 U | 3.5 U | 3.6 U | 250 U | 3.4 U | 520 U |
| 108-87-2 | METHYLCYCLOHEXANE | ug/kg | 420 U | 1.3 U | 15 | 82 U | 1.2 U | 330 J |
| 75-09-2 | METHYLENE CHLORIDE | ug/kg | 250 U | 4.1 J | 5.4 J | 50 U | 3.6 J | 100 U |
| 95-47-6 | O-XYLENE (1,2-DIMETHYLBENZENE) | ug/kg | 2300 J | 0.82 U | 2.2 J | 5900 | 0.8 U | 110 U |
| 100-42-5 | STYRENE | ug/kg | 220 U | 0.54 U | 0.55 U | 43 U | 0.53 U | 89 U |
| 1634-04-4 | TERT-BUTYL METHYL ETHER | ug/kg | 220 U | 1.2 U | 1.2 U | 42 U | 1.1 U | 86 U |
| 127-18-4 | TETRACHLOROETHYLENE(PCE) | ug/kg | 170 U | 1.2 U | 1.2 U | 33 UJ | 1.2 U | 66 UJ |
| 108-88-3 | TOLUENE | ug/kg | 230 U | 0.77 U | 0.78 U | 45 U | 0.75 U | 91 U |
| 156-60-5 | TRANS-1,2-DICHLOROETHENE | ug/kg | 250 U | 0.83 U | 0.84 U | 50 U | 0.81 U | 100 U |
| 10061-02-6 | TRANS-1,3-DICHLOROPROPENE | ug/kg | 180 U | 0.95 U | 0.97 U | 35 U | 0.93 U | 71 U |
| 79-01-6 | TRICHLOROETHYLENE (TCE) | ug/kg | 170 U | 1 U | 1.1 U | 34 U | 1 U | 69 U |
| 75-69-4 | TRICHLOROFLUOROMETHANE | ug/kg | 220 U | 1.6 U | 1.6 U | 42 U | 1.6 U | 86 U |
| 75-01-4 | VINYL CHLORIDE | ug/kg | 210 U | 1.5 U | 1.5 U | 41 U | 1.4 U | 84 U |
| XYLMP | M,P-XYLENE (SUM OF ISOMERS) | ug/kg | 6000 J | 0.87 U | 0.88 U | 7400 | 0.85 U | 230 U |

| Consolidated Edison<br>Farrington Street Remedial Investigation<br>Validated Soil Analytical Data<br>SDG: C3584 | | Location ID:<br>Sample ID:<br>Lab Sample Id:<br>Depth:<br>Source:<br>SDG:<br>Matrix:<br>Sampled:<br>Validated: | MW-23<br>MW-23(21-23)<br>C3584-07<br>21 - 23 ft<br>CTECH<br>C3584<br>SOIL<br>9/1/2011<br>1/23/2012 | MW-23<br>MW-23(39-41)<br>C3584-08<br>39 - 41 ft<br>CTECH<br>C3584<br>SOIL<br>9/1/2011<br>1/23/2012 | MW-24<br>MW-24(17-19)<br>C3584-04<br>17 - 19 ft<br>CTECH<br>C3584<br>SOIL<br>8/30/2011<br>1/23/2012 | MW-24<br>MW-24(38-40)<br>C3584-05<br>38 - 40 ft<br>CTECH<br>C3584<br>SOIL<br>8/31/2011<br>1/23/2012 | MW-24<br>MW-24(41-42)<br>C3584-06<br>41 - 42 ft<br>CTECH<br>C3584<br>SOIL<br>8/31/2011<br>1/23/2012 | MW-26<br>MW-26(12-14)<br>C3584-01<br>12 - 14 ft<br>CTECH<br>C3584<br>SOIL<br>8/25/2011<br>1/23/2012 |
|---|---|---|---|---|---|---|---|---|
| CAS NO. | COMPOUND | UNITS: | | | | | | |
| | SEMIVOLATILES | | | | | | | |
| 95-95-4 | 2,4,5-TRICHLOROPHENOL | ug/kg | 430 U | 28 U | 29 U | 28 U | 27 U | 85 U |
| 88-06-2 | 2,4,6-TRICHLOROPHENOL | ug/kg | 190 U | 12 U | 13 U | 12 U | 12 U | 37 U |
| 120-83-2 | 2,4-DICHLOROPHENOL | ug/kg | 230 U | 15 U | 16 U | 15 U | 15 U | 46 U |
| 105-67-9 | 2,4-DIMETHYLPHENOL | ug/kg | 350 U | 23 U | 23 U | 23 U | 22 U | 69 U |
| 51-28-5 | 2,4-DINITROPHENOL | ug/kg | 630 UJ | 41 UJ | 42 UJ | 41 UJ | 40 UJ | 120 UJ |
| 121-14-2 | 2,4-DINITROTOLUENE | ug/kg | 190 U | 12 U | 12 U | 12 U | 12 U | 37 U |
| 606-20-2 | 2,6-DINITROTOLUENE | ug/kg | 250 U | 16 U | 17 U | 17 U | 16 U | 50 U |
| 91-58-7 | 2-CHLORONAPHTHALENE | ug/kg | 140 U | 9.1 U | 9.4 U | 9.2 U | 8.9 U | 28 U |
| 95-57-8 | 2-CHLOROPHENOL | ug/kg | 330 U | 21 U | 22 U | 21 U | 21 U | 64 U |
| 91-57-6 | 2-METHYLNAPHTHALENE | ug/kg | 45000 | 10 U | 810 | 2500 | 9.9 U | 1500 |
| 95-48-7 | 2-METHYLPHENOL (O-CRESOL) | ug/kg | 330 U | 22 U | 22 U | 22 U | 21 U | 66 U |
| 88-74-4 | 2-NITROANILINE | ug/kg | 270 U | 18 U | 18 U | 18 U | 17 U | 54 U |
| 88-75-5 | 2-NITROPHENOL | ug/kg | 300 U | 19 U | 20 U | 20 U | 19 U | 59 U |
| 91-94-1 | 3,3'-DICHLOROBENZIDINE | ug/kg | 400 U | 26 U | 26 U | 26 U | 25 U | 78 U |
| 99-09-2 | 3-NITROANILINE | ug/kg | 400 U | 26 U | 26 U | 26 U | 25 U | 78 U |
| 534-52-1 | 4,6-DINITRO-2-METHYLPHENOL | ug/kg | 350 U | 23 U | 24 U | 23 U | 22 U | 70 U |
| 101-55-3 | 4-BROMOPHENYL PHENYL ETHER | ug/kg | 120 U | 7.8 U | 8 U | 7.9 U | 7.6 U | 24 U |
| 59-50-7 | 4-CHLORO-3-METHYLPHENOL | ug/kg | 270 U | 18 U | 18 U | 18 U | 17 U | 54 U |
| 106-47-8 | 4-CHLOROANILINE | ug/kg | 430 U | 28 U | 29 U | 29 U | 28 U | 86 U |
| 7005-72-3 | 4-CHLOROPHENYL PHENYL ETHER | ug/kg | 330 U | 22 U | 22 U | 22 U | 21 U | 66 U |
| 100-01-6 | 4-NITROANILINE | ug/kg | 800 U | 52 U | 53 U | 53 U | 51 U | 160 U |
| 100-02-7 | 4-NITROPHENOL | ug/kg | 1100 U | 75 U | 76 U | 75 U | 73 U | 230 U |
| 83-32-9 | ACENAPHTHENE | ug/kg | 80000 | 11 U | 1500 | 2200 | 11 U | 19000 |
| 208-96-8 | ACENAPHTHYLENE | ug/kg | 5700 J | 10 U | 120 J | 180 J | 9.9 U | 1300 |
| 98-86-2 | ACETOPHENONE | ug/kg | 190 U | 12 U | 13 U | 12 U | 12 U | 37 U |
| 120-12-7 | ANTHRACENE | ug/kg | 32000 | 8.2 U | 1100 | 1000 | 8 U | 8900 |
| 1912-24-9 | ATRAZINE | ug/kg | 330 U | 21 U | 22 U | 21 U | 21 U | 64 U |
| 100-52-7 | BENZALDEHYDE | ug/kg | 320 U | 21 U | 21 U | 21 U | 20 U | 63 U |
| 56-55-3 | BENZO(A)ANTHRACENE | ug/kg | 28000 | 19 U | 750 | 830 | 19 U | 6600 |
| 50-32-8 | BENZO(A)PYRENE | ug/kg | 19000 | 8.7 U | 490 | 610 | 8.5 U | 4400 |
| 205-99-2 | BENZO(B)FLUORANTHENE | ug/kg | 16000 | 13 U | 340 J | 470 | 13 U | 3900 |
| 191-24-2 | BENZO(G,H,I)PERYLENE | ug/kg | 8600 | 16 U | 190 J | 260 J | 16 U | 2200 |
| 207-08-9 | BENZO(K)FLUORANTHENE | ug/kg | 5500 J | 19 U | 170 J | 170 J | 18 U | 1200 J |
| 85-68-7 | BENZYL BUTYL PHTHALATE | ug/kg | 300 U | 19 U | 20 U | 19 U | 19 U | 58 U |
| 92-52-4 | BIPHENYL (DIPHENYL) | ug/kg | 6800 | 15 U | 16 U | 440 | 15 U | 230 J |
| 111-91-1 | BIS(2-CHLOROETHOXY) METHANE | ug/kg | 350 U | 23 U | 24 U | 23 U | 23 U | 70 U |
| 111-44-4 | BIS(2-CHLOROETHYL) ETHER | ug/kg | 300 U | 19 U | 20 U | 19 U | 19 U | 58 U |
| 108-60-1 | BIS(2-CHLOROISOPROPYL) ETHER | ug/kg | 260 U | 17 U | 17 U | 17 U | 16 U | 50 U |
| 117-81-7 | BIS(2-ETHYLHEXYL) PHTHALATE | ug/kg | 220 U | 62 J | 88 J | 100 J | 52 J | 270 J |
| 105-60-2 | CAPROLACTAM | ug/kg | 290 U | 19 U | 19 U | 19 U | 18 U | 57 U |
| 86-74-8 | CARBAZOLE | ug/kg | 130 U | 8.8 U | 9 U | 8.9 U | 8.6 U | 27 U |
| 218-01-9 | CHRYSENE | ug/kg | 24000 | 18 U | 750 | 810 | 18 U | 6400 |
| MEPH1314 | CRESOLS, M & P | ug/kg | 320 U | 21 U | 21 U | 21 U | 20 U | 63 U |
| 53-70-3 | DIBENZ(A,H)ANTHRACENE | ug/kg | 2400 J | 12 U | 12 U | 12 U | 11 U | 450 J |
| 132-64-9 | DIBENZOFURAN | ug/kg | 3400 J | 16 U | 110 J | 100 J | 15 U | 1600 |
| 84-66-2 | DIETHYL PHTHALATE | ug/kg | 96 U | 6.3 U | 6.4 U | 6.3 U | 6.1 U | 19 U |
| 131-11-3 | DIMETHYL PHTHALATE | ug/kg | 170 U | 11 U | 11 U | 11 U | 11 U | 33 U |
| 84-74-2 | DI-N-BUTYL PHTHALATE | ug/kg | 480 U | 32 U | 32 U | 32 U | 31 U | 96 U |
| 117-84-0 | DI-N-OCTYLPHTHALATE | ug/kg | 70 U | 4.6 U | 4.7 U | 4.6 U | 4.5 U | 14 U |
| 206-44-0 | FLUORANTHENE | ug/kg | 39000 | 8.1 U | 1100 | 1300 | 7.9 U | 10000 |
| 86-73-7 | FLUORENE | ug/kg | 34000 | 15 U | 760 | 960 | 15 U | 9000 |
| 118-74-1 | HEXACHLOROBENZENE | ug/kg | 250 U | 16 U | 17 U | 17 U | 16 U | 50 U |
| 87-68-3 | HEXACHLOROBUTADIENE | ug/kg | 220 U | 15 U | 15 U | 15 U | 14 U | 44 U |
| 77-47-4 | HEXACHLOROCYCLOPENTADIENE | ug/kg | 150 U | 9.7 U | 10 U | 9.8 U | 9.5 U | 30 U |
| 67-72-1 | HEXACHLOROETHANE | ug/kg | 280 U | 18 U | 18 U | 18 U | 18 U | 54 U |
| 193-39-5 | INDENO(1,2,3-C,D)PYRENE | ug/kg | 7300 | 13 U | 160 J | 210 J | 13 U | 1600 |
| 78-59-1 | ISOPHORONE | ug/kg | 200 U | 13 U | 14 U | 13 U | 13 U | 40 U |
| 91-20-3 | NAPHTHALENE | ug/kg | 120000 | 14 U | 120 J | 9500 | 14 U | 42 U |
| 98-95-3 | NITROBENZENE | ug/kg | 230 U | 15 U | 16 U | 15 U | 15 U | 46 U |
| 621-64-7 | N-NITROSODI-N-PROPYLAMINE | ug/kg | 310 U | 20 U | 21 U | 20 U | 20 U | 61 U |
| 86-30-6 | N-NITROSODIPHENYLAMINE | ug/kg | 150 U | 9.6 U | 9.9 U | 9.7 U | 9.4 U | 29 U |
| 87-86-5 | PENTACHLOROPHENOL | ug/kg | 420 U | 27 U | 28 U | 28 U | 27 U | 83 U |
| 85-01-8 | PHENANTHRENE | ug/kg | 120000 | 11 U | 2900 | 3000 | 11 U | 27000 |
| 108-95-2 | PHENOL | ug/kg | 140 U | 9.3 U | 9.5 U | 9.4 U | 56 J | 28 U |
| 129-00-0 | PYRENE | ug/kg | 56000 | 9.6 U | 1600 | 1700 | 9.4 U | 13000 |

| Consolidated Edison<br>Farrington Street Remedial Investigation<br>Validated Soil Analytical Data<br>SDG: C3584 | | Location ID:<br>Sample ID:<br>Lab Sample Id:<br>Depth:<br>Source:<br>SDG:<br>Matrix:<br>Sampled:<br>Validated: | MW-23<br>MW-23(21-23)<br>C3584-07<br>21 - 23 ft<br>CTECH<br>C3584<br>SOIL<br>9/1/2011<br>1/23/2012 | MW-23<br>MW-23(39-41)<br>C3584-08<br>39 - 41 ft<br>CTECH<br>C3584<br>SOIL<br>9/1/2011<br>1/23/2012 | MW-24<br>MW-24(17-19)<br>C3584-04<br>17 - 19 ft<br>CTECH<br>C3584<br>SOIL<br>8/30/2011<br>1/23/2012 | MW-24<br>MW-24(38-40)<br>C3584-05<br>38 - 40 ft<br>CTECH<br>C3584<br>SOIL<br>8/31/2011<br>1/23/2012 | MW-24<br>MW-24(41-42)<br>C3584-06<br>41 - 42 ft<br>CTECH<br>C3584<br>SOIL<br>8/31/2011<br>1/23/2012 | MW-26<br>MW-26(12-14)<br>C3584-01<br>12 - 14 ft<br>CTECH<br>C3584<br>SOIL<br>8/25/2011<br>1/23/2012 |
|---|---|---|---|---|---|---|---|---|
| CAS NO. | COMPOUND | UNITS: | | | | | | |
| | INORGANICS | | | | | | | |
| 7429-90-5 | ALUMINUM | mg/kg | 3740 | 4170 | 2250 | 1740 | 3370 | 2730 |
| 7440-36-0 | ANTIMONY | mg/kg | 0.7 U | 0.59 U | 0.55 U | 0.66 U | 0.61 U | 0.6 U |
| 7440-38-2 | ARSENIC | mg/kg | 0.49 J | 1.72 | 0.48 J | 0.39 U | 1.45 | 1.59 |
| 7440-39-3 | BARIUM | mg/kg | 38.3 | 53.3 | 25.4 | 19.2 | 37.2 | 24.8 |
| 7440-41-7 | BERYLLIUM | mg/kg | 0.17 J | 0.32 | 0.06 U | 0.07 U | 0.27 J | 0.14 J |
| 7440-43-9 | CADMIUM | mg/kg | 0.07 U | 0.06 U | 0.06 U | 0.07 U | 0.07 U | 0.06 U |
| 7440-70-2 | CALCIUM | mg/kg | 680 | 1070 | 552 | 1230 | 669 | 12600 |
| 7440-47-3 | CHROMIUM, TOTAL | mg/kg | 11.2 | 14.6 | 8.51 | 9.04 | 16 | 9.27 |
| 7440-48-4 | COBALT | mg/kg | 4.07 | 7.75 | 3.77 | 2.14 | 7.96 | 5.78 |
| 7440-50-8 | COPPER | mg/kg | 12.2 | 16.8 | 8.15 | 5.99 | 10 | 15.4 |
| 7439-89-6 | IRON | mg/kg | 9440 | 12600 | 9370 | 5950 | 11200 | 8920 |
| 7439-92-1 | LEAD | mg/kg | 1.7 J | 5.99 J | 1 J | 1 J | 4.05 J | 2.58 J |
| 7439-95-4 | MAGNESIUM | mg/kg | 1450 | 1960 | 884 | 775 | 1320 | 7230 |
| 7439-96-5 | MANGANESE | mg/kg | 90.8 | 244 | 88.2 | 63.4 | 282 | 132 |
| 7439-97-6 | MERCURY | mg/kg | 0.004 J | 0.01 J | 0.002 J | 0.006 J | 0.008 J | 0.003 J |
| 7440-02-0 | NICKEL | mg/kg | 11.1 | 15.1 | 7.41 | 7.36 | 10.9 | 8.91 |
| 7440-09-7 | POTASSIUM | mg/kg | 1290 | 1460 | 967 | 711 | 1040 | 904 |
| 7782-49-2 | SELENIUM | mg/kg | 0.51 U | 0.43 U | 0.4 U | 0.48 U | 0.45 U | 0.44 U |
| 7440-22-4 | SILVER | mg/kg | 0.34 J | 0.4 J | 0.32 J | 0.3 J | 0.33 J | 0.3 J |
| 7440-23-5 | SODIUM | mg/kg | 189 | 167 | 140 | 191 | 298 | 511 |
| 7440-28-0 | THALLIUM | mg/kg | 0.34 U | 0.29 U | 0.27 U | 0.32 U | 0.3 U | 0.29 U |
| 7440-62-2 | VANADIUM | mg/kg | 11.9 | 17.5 | 10.3 | 6.81 | 15.3 | 13 |
| 7440-66-6 | ZINC | mg/kg | 21 | 34.9 | 15.6 | 14.6 | 27.4 | 18.8 |
| 57-12-5 | CYANIDE | mg/kg | 0.103 J | 0.082 J | 0.181 J | 0.246 J | 0.039 U | 0.148 J |

| Consolidated Edison<br>Farrington Street Remedial Investigation<br>Validated Soil Analytical Data<br>SDG: C3584 | | Location ID:<br>Sample ID:<br>Lab Sample Id:<br>Depth:<br>Source:<br>SDG:<br>Matrix:<br>Sampled:<br>Validated: | MW-26<br>MW-26(22-24)<br>C3584-02<br>22 - 24 ft<br>CTECH<br>C3584<br>SOIL<br>8/25/2011<br>1/23/2012 | MW-26<br>MW-26(26-28)<br>C3584-03<br>26 - 28 ft<br>CTECH<br>C3584<br>SOIL<br>8/25/2011<br>1/23/2012 | MW-29<br>MW-29(15-17)<br>C3584-09<br>15 - 17 ft<br>CTECH<br>C3584<br>SOIL<br>9/2/2011<br>1/23/2012 |
|---|---|---|---|---|---|
| CAS NO. | COMPOUND | UNITS: | | | |
| | VOLATILES | | | | |
| 71-55-6 | 1,1,1-TRICHLOROETHANE | ug/kg | 460 U | 1 U | 50 U |
| 79-34-5 | 1,1,2,2-TETRACHLOROETHANE | ug/kg | 360 U | 0.54 U | 39 U |
| 76-13-1 | 1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE | ug/kg | 520 U | 1.6 U | 56 UJ |
| 79-00-5 | 1,1,2-TRICHLOROETHANE | ug/kg | 440 U | 1 U | 47 U |
| 75-34-3 | 1,1-DICHLOROETHANE | ug/kg | 410 U | 1.1 U | 45 U |
| 75-35-4 | 1,1-DICHLOROETHENE | ug/kg | 540 U | 1.7 U | 59 U |
| 120-82-1 | 1,2,4-TRICHLOROBENZENE | ug/kg | 710 U | 0.82 U | 77 U |
| 96-12-8 | 1,2-DIBROMO-3-CHLOROPROPANE | ug/kg | 530 U | 1 U | 57 U |
| 106-93-4 | 1,2-DIBROMOETHANE | ug/kg | 470 U | 0.75 U | 51 U |
| 95-50-1 | 1,2-DICHLOROBENZENE | ug/kg | 520 U | 0.72 U | 56 U |
| 107-06-2 | 1,2-DICHLOROETHANE | ug/kg | 550 U | 0.75 U | 60 U |
| 78-87-5 | 1,2-DICHLOROPROPANE | ug/kg | 530 U | 0.3 U | 57 U |
| 541-73-1 | 1,3-DICHLOROBENZENE | ug/kg | 500 U | 0.43 U | 54 U |
| 106-46-7 | 1,4-DICHLOROBENZENE | ug/kg | 370 U | 0.48 U | 40 U |
| 591-78-6 | 2-HEXANONE | ug/kg | 2200 U | 4.6 U | 240 U |
| 67-64-1 | ACETONE | ug/kg | 3200 U | R | 340 U |
| 71-43-2 | BENZENE | ug/kg | 370 U | 0.44 U | 40 U |
| 75-27-4 | BROMODICHLOROMETHANE | ug/kg | 410 U | 0.72 U | 45 U |
| 75-25-2 | BROMOFORM | ug/kg | 540 U | 0.86 U | 59 U |
| 74-83-9 | BROMOMETHANE | ug/kg | 710 U | 2.9 U | 77 U |
| 75-15-0 | CARBON DISULFIDE | ug/kg | 620 U | 1.2 U | 67 U |
| 56-23-5 | CARBON TETRACHLORIDE | ug/kg | 710 U | 1.2 U | 77 U |
| 108-90-7 | CHLOROBENZENE | ug/kg | 560 U | 0.58 U | 61 U |
| 75-00-3 | CHLOROETHANE | ug/kg | 760 U | 1.6 U | 82 U |
| 67-66-3 | CHLOROFORM | ug/kg | 390 U | 0.86 U | 42 U |
| 74-87-3 | CHLOROMETHANE | ug/kg | 620 U | 1 U | 67 U |
| 156-59-2 | CIS-1,2-DICHLOROETHYLENE | ug/kg | 400 U | 1 U | 44 U |
| 10061-01-5 | CIS-1,3-DICHLOROPROPENE | ug/kg | 360 U | 0.84 U | 39 U |
| 110-82-7 | CYCLOHEXANE | ug/kg | 630 U | 1.2 U | 69 U |
| 124-48-1 | DIBROMOCHLOROMETHANE | ug/kg | 600 U | 0.63 U | 65 U |
| 75-71-8 | DICHLORODIFLUOROMETHANE | ug/kg | 630 U | 0.76 U | 69 U |
| 100-41-4 | ETHYLBENZENE | ug/kg | 4000 J | 0.72 U | 270 J |
| 98-82-8 | ISOPROPYLBENZENE (CUMENE) | ug/kg | 5500 J | 0.56 U | 570 J |
| 79-20-9 | METHYL ACETATE | ug/kg | 960 U | 1.8 U | 100 U |
| 78-93-3 | METHYL ETHYL KETONE (2-BUTANONE) | ug/kg | 1500 U | 3.6 U | 160 U |
| 108-10-1 | METHYL ISOBUTYL KETONE | ug/kg | 2400 U | 3.4 U | 260 U |
| 108-87-2 | METHYLCYCLOHEXANE | ug/kg | 780 U | 1.2 U | 85 U |
| 75-09-2 | METHYLENE CHLORIDE | ug/kg | 470 U | 3.6 J | 51 U |
| 95-47-6 | O-XYLENE (1,2-DIMETHYLBENZENE) | ug/kg | 500 U | 0.79 U | 54 U |
| 100-42-5 | STYRENE | ug/kg | 410 U | 0.52 U | 45 U |
| 1634-04-4 | TERT-BUTYL METHYL ETHER | ug/kg | 400 U | 5 J | 44 U |
| 127-18-4 | TETRACHLOROETHYLENE(PCE) | ug/kg | 310 UJ | 1.2 U | 34 UJ |
| 108-88-3 | TOLUENE | ug/kg | 430 U | 0.75 U | 46 U |
| 156-60-5 | TRANS-1,2-DICHLOROETHENE | ug/kg | 470 U | 0.8 U | 51 U |
| 10061-02-6 | TRANS-1,3-DICHLOROPROPENE | ug/kg | 330 U | 0.92 U | 36 U |
| 79-01-6 | TRICHLOROETHYLENE (TCE) | ug/kg | 320 U | 1 U | 35 U |
| 75-69-4 | TRICHLOROFLUOROMETHANE | ug/kg | 400 U | 1.5 U | 44 U |
| 75-01-4 | VINYL CHLORIDE | ug/kg | 390 U | 1.4 U | 42 U |
| XYLMP | M,P-XYLENE (SUM OF ISOMERS) | ug/kg | 1100 U | 0.84 U | 120 U |

| Consolidated Edison<br>Farrington Street Remedial Investigation<br>Validated Soil Analytical Data<br>SDG: C3584 | | Location ID:<br>Sample ID:<br>Lab Sample Id:<br>Depth:<br>Source:<br>SDG:<br>Matrix:<br>Sampled:<br>Validated: | MW-26<br>MW-26(22-24)<br>C3584-02<br>22 - 24 ft<br>CTECH<br>C3584<br>SOIL<br>8/25/2011<br>1/23/2012 | MW-26<br>MW-26(26-28)<br>C3584-03<br>26 - 28 ft<br>CTECH<br>C3584<br>SOIL<br>8/25/2011<br>1/23/2012 | MW-29<br>MW-29(15-17)<br>C3584-09<br>15 - 17 ft<br>CTECH<br>C3584<br>SOIL<br>9/2/2011<br>1/23/2012 |
|---|---|---|---|---|---|
| CAS NO. | COMPOUND | UNITS: | | | |
| | SEMIVOLATILES | | | | |
| 95-95-4 | 2,4,5-TRICHLOROPHENOL | ug/kg | 400 U | 27 U | 29 U |
| 88-06-2 | 2,4,6-TRICHLOROPHENOL | ug/kg | 170 U | 12 U | 13 U |
| 120-83-2 | 2,4-DICHLOROPHENOL | ug/kg | 220 U | 15 U | 16 U |
| 105-67-9 | 2,4-DIMETHYLPHENOL | ug/kg | 320 U | 22 U | 24 U |
| 51-28-5 | 2,4-DINITROPHENOL | ug/kg | 580 UJ | 39 UJ | 42 UJ |
| 121-14-2 | 2,4-DINITROTOLUENE | ug/kg | 170 U | 12 U | 13 U |
| 606-20-2 | 2,6-DINITROTOLUENE | ug/kg | 230 U | 16 U | 17 U |
| 91-58-7 | 2-CHLORONAPHTHALENE | ug/kg | 130 U | 8.7 U | 9.5 U |
| 95-57-8 | 2-CHLOROPHENOL | ug/kg | 300 U | 20 U | 22 U |
| 91-57-6 | 2-METHYLNAPHTHALENE | ug/kg | 140 U | 9.6 U | 11000 J |
| 95-48-7 | 2-METHYLPHENOL (O-CRESOL) | ug/kg | 310 U | 21 U | 23 U |
| 88-74-4 | 2-NITROANILINE | ug/kg | 250 U | 17 U | 18 U |
| 88-75-5 | 2-NITROPHENOL | ug/kg | 280 U | 18 U | 20 U |
| 91-94-1 | 3,3'-DICHLOROBENZIDINE | ug/kg | 370 U | 25 U | 27 U |
| 99-09-2 | 3-NITROANILINE | ug/kg | 370 U | 25 U | 27 U |
| 534-52-1 | 4,6-DINITRO-2-METHYLPHENOL | ug/kg | 330 U | 22 U | 24 U |
| 101-55-3 | 4-BROMOPHENYL PHENYL ETHER | ug/kg | 110 U | 7.5 U | 8.1 U |
| 59-50-7 | 4-CHLORO-3-METHYLPHENOL | ug/kg | 250 U | 17 U | 18 U |
| 106-47-8 | 4-CHLOROANILINE | ug/kg | 400 U | 27 U | 29 U |
| 7005-72-3 | 4-CHLOROPHENYL PHENYL ETHER | ug/kg | 310 U | 21 U | 23 U |
| 100-01-6 | 4-NITROANILINE | ug/kg | 740 U | 50 U | 54 U |
| 100-02-7 | 4-NITROPHENOL | ug/kg | 1100 U | 71 U | 77 U |
| 83-32-9 | ACENAPHTHENE | ug/kg | 87000 | 11 U | 3200 |
| 208-96-8 | ACENAPHTHYLENE | ug/kg | 14000 | 9.6 U | 240 J |
| 98-86-2 | ACETOPHENONE | ug/kg | 170 U | 12 U | 13 U |
| 120-12-7 | ANTHRACENE | ug/kg | 42000 | 65 J | 1700 |
| 1912-24-9 | ATRAZINE | ug/kg | 300 U | 20 U | 22 U |
| 100-52-7 | BENZALDEHYDE | ug/kg | 300 U | 20 U | 22 U |
| 56-55-3 | BENZO(A)ANTHRACENE | ug/kg | 28000 | 18 U | 1000 |
| 50-32-8 | BENZO(A)PYRENE | ug/kg | 18000 | 8.3 U | 640 |
| 205-99-2 | BENZO(B)FLUORANTHENE | ug/kg | 13000 | 12 U | 530 |
| 191-24-2 | BENZO(G,H,I)PERYLENE | ug/kg | 6900 | 15 U | 290 J |
| 207-08-9 | BENZO(K)FLUORANTHENE | ug/kg | 5100 J | 18 U | 220 J |
| 85-68-7 | BENZYL BUTYL PHTHALATE | ug/kg | 270 U | 18 U | 20 U |
| 92-52-4 | BIPHENYL (DIPHENYL) | ug/kg | 8700 | 14 U | 280 J |
| 111-91-1 | BIS(2-CHLOROETHOXY) METHANE | ug/kg | 330 U | 22 U | 24 U |
| 111-44-4 | BIS(2-CHLOROETHYL) ETHER | ug/kg | 270 U | 18 U | 20 U |
| 108-60-1 | BIS(2-CHLOROISOPROPYL) ETHER | ug/kg | 240 U | 16 U | 17 U |
| 117-81-7 | BIS(2-ETHYLHEXYL) PHTHALATE | ug/kg | 200 U | 55 J | 340 J |
| 105-60-2 | CAPROLACTAM | ug/kg | 270 U | 18 U | 19 U |
| 86-74-8 | CARBAZOLE | ug/kg | 120 U | 8.4 U | 9.1 U |
| 218-01-9 | CHRYSENE | ug/kg | 28000 | 57 J | 980 |
| MEPH1314 | CRESOLS, M & P | ug/kg | 300 U | 20 U | 22 U |
| 53-70-3 | DIBENZ(A,H)ANTHRACENE | ug/kg | 2100 J | 11 U | 77 J |
| 132-64-9 | DIBENZOFURAN | ug/kg | 4500 J | 15 U | 250 J |
| 84-66-2 | DIETHYL PHTHALATE | ug/kg | 89 U | 6 U | 6.5 U |
| 131-11-3 | DIMETHYL PHTHALATE | ug/kg | 150 U | 10 U | 11 U |
| 84-74-2 | DI-N-BUTYL PHTHALATE | ug/kg | 450 U | 30 U | 33 U |
| 117-84-0 | DI-N-OCTYLPHTHALATE | ug/kg | 65 U | 4.4 U | 4.7 U |
| 206-44-0 | FLUORANTHENE | ug/kg | 39000 | 73 J | 1700 |
| 86-73-7 | FLUORENE | ug/kg | 11000 | 14 U | 1900 |
| 118-74-1 | HEXACHLOROBENZENE | ug/kg | 230 U | 16 U | 17 U |
| 87-68-3 | HEXACHLOROBUTADIENE | ug/kg | 210 U | 14 U | 15 U |
| 77-47-4 | HEXACHLOROCYCLOPENTADIENE | ug/kg | 140 U | 9.3 U | 10 U |
| 67-72-1 | HEXACHLOROETHANE | ug/kg | 260 U | 17 U | 19 U |
| 193-39-5 | INDENO(1,2,3-C,D)PYRENE | ug/kg | 6000 | 13 U | 230 J |
| 78-59-1 | ISOPHORONE | ug/kg | 190 U | 13 U | 14 U |
| 91-20-3 | NAPHTHALENE | ug/kg | 740 J | 13 U | 7500 |
| 98-95-3 | NITROBENZENE | ug/kg | 220 U | 14 U | 16 U |
| 621-64-7 | N-NITROSODI-N-PROPYLAMINE | ug/kg | 290 U | 19 U | 21 U |
| 86-30-6 | N-NITROSODIPHENYLAMINE | ug/kg | 140 U | 9.2 U | 10 U |
| 87-86-5 | PENTACHLOROPHENOL | ug/kg | 390 U | 26 U | 28 U |
| 85-01-8 | PHENANTHRENE | ug/kg | 150000 | 190 J | 6300 |
| 108-95-2 | PHENOL | ug/kg | 130 U | 53 J | 54 J |
| 129-00-0 | PYRENE | ug/kg | 66000 | 110 J | 2200 |

| Consolidated Edison<br>Farrington Street Remedial Investigation<br>Validated Soil Analytical Data<br>SDG: C3584 | | Location ID:<br>Sample ID:<br>Lab Sample Id:<br>Depth:<br>Source:<br>SDG:<br>Matrix:<br>Sampled:<br>Validated: | MW-26<br>MW-26(22-24)<br>C3584-02<br>22 - 24 ft<br>CTECH<br>C3584<br>SOIL<br>8/25/2011<br>1/23/2012 | MW-26<br>MW-26(26-28)<br>C3584-03<br>26 - 28 ft<br>CTECH<br>C3584<br>SOIL<br>8/25/2011<br>1/23/2012 | MW-29<br>MW-29(15-17)<br>C3584-09<br>15 - 17 ft<br>CTECH<br>C3584<br>SOIL<br>9/2/2011<br>1/23/2012 |
|---|---|---|---|---|---|
| CAS NO. | COMPOUND | UNITS: | | | |
| | INORGANICS | | | | |
| 7429-90-5 | ALUMINUM | mg/kg | 2170 | 4250 | 4710 |
| 7440-36-0 | ANTIMONY | mg/kg | 0.46 U | 0.49 U | 0.7 U |
| 7440-38-2 | ARSENIC | mg/kg | 3.19 | 0.29 U | 0.41 U |
| 7440-39-3 | BARIUM | mg/kg | 24.4 | 48.4 | 47.4 |
| 7440-41-7 | BERYLLIUM | mg/kg | 0.07 J | 0.1 J | 0.13 J |
| 7440-43-9 | CADMIUM | mg/kg | 0.05 U | 0.05 U | 0.07 U |
| 7440-70-2 | CALCIUM | mg/kg | 724 | 1130 | 2960 |
| 7440-47-3 | CHROMIUM, TOTAL | mg/kg | 7.54 | 13.2 | 18.3 |
| 7440-48-4 | COBALT | mg/kg | 2.65 | 4.88 | 5.59 |
| 7440-50-8 | COPPER | mg/kg | 9.64 | 13.7 | 12 |
| 7439-89-6 | IRON | mg/kg | 7390 | 9440 | 11000 |
| 7439-92-1 | LEAD | mg/kg | 2.09 J | 1.44 J | 7.04 J |
| 7439-95-4 | MAGNESIUM | mg/kg | 996 | 1690 | 3120 |
| 7439-96-5 | MANGANESE | mg/kg | 207 | 163 | 121 |
| 7439-97-6 | MERCURY | mg/kg | 0.005 J | 0.007 J | 0.056 |
| 7440-02-0 | NICKEL | mg/kg | 8.25 | 12.1 | 16.8 |
| 7440-09-7 | POTASSIUM | mg/kg | 900 | 1700 | 2130 |
| 7782-49-2 | SELENIUM | mg/kg | 0.34 U | 0.36 U | 0.51 U |
| 7440-22-4 | SILVER | mg/kg | 0.24 J | 0.3 J | 0.36 J |
| 7440-23-5 | SODIUM | mg/kg | 569 | 304 | 195 |
| 7440-28-0 | THALLIUM | mg/kg | 0.22 U | 0.23 U | 0.34 U |
| 7440-62-2 | VANADIUM | mg/kg | 8.37 | 16.7 | 17 |
| 7440-66-6 | ZINC | mg/kg | 13.9 | 19.4 | 32 |
| 57-12-5 | CYANIDE | mg/kg | 0.058 J | 0.038 U | |

| Consolidated Edison<br>Farrington Street Remedial Investigation<br>Validated Soil Analytical Data<br>SDG: C3666 | | Location ID:<br>Sample ID:<br>Lab Sample Id:<br>Depth:<br>Source:<br>SDG:<br>Matrix:<br>Sampled:<br>Validated: | CMW-32<br>CMW-32(13-15)<br>C3666-06<br>13 - 15 ft<br>CTECH<br>C3666<br>SOIL<br>9/8/2011<br>1/23/2012 | CMW-32<br>CMW-32(39-41)<br>C3666-07<br>39 - 41 ft<br>CTECH<br>C3666<br>SOIL<br>9/9/2011<br>1/23/2012 | MW-29<br>MW-29(37-39)<br>C3666-01<br>37 - 39 ft<br>CTECH<br>C3666<br>SOIL<br>9/6/2011<br>1/23/2012 | MW-30<br>MW-30(29-31)<br>C3666-02<br>29 - 31 ft<br>CTECH<br>C3666<br>SOIL<br>9/7/2011<br>1/23/2012 | MW-30<br>MW-30(33-35)<br>C3666-04<br>33 - 35 ft<br>CTECH<br>C3666<br>SOIL<br>9/8/2011<br>1/23/2012 | Dup of MW-30(33-35)<br>MW-30<br>MW-30A(29-31)<br>C3666-03<br>29 - 31 ft<br>CTECH<br>C3666<br>SOIL<br>9/7/2011<br>1/23/2012 |
|---|---|---|---|---|---|---|---|---|
| CAS NO. | COMPOUND | UNITS: | | | | | | |
| | VOLATILES | | | | | | | |
| 71-55-6 | 1,1,1-TRICHLOROETHANE | ug/kg | 1000 UJ | 1.1 U | 1 U | 1.1 U | 1.1 U | 1 U |
| 79-34-5 | 1,1,2,2-TETRACHLOROETHANE | ug/kg | 780 UJ | 0.55 U | 0.54 U | 0.56 U | 0.57 U | 0.54 U |
| 76-13-1 | 1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE | ug/kg | 1100 UJ | 1.6 U | 1.5 U | 1.6 U | 1.7 U | 1.6 U |
| 79-00-5 | 1,1,2-TRICHLOROETHANE | ug/kg | 960 UJ | 1.1 U | 1 U | 1.1 U | 1.1 U | 1.1 U |
| 75-34-3 | 1,1-DICHLOROETHANE | ug/kg | 910 UJ | 1.1 U | 1.1 U | 1.1 U | 1.2 U | 1.1 U |
| 75-35-4 | 1,1-DICHLOROETHENE | ug/kg | 1200 UJ | 1.8 U | 1.7 U | 1.8 U | 1.8 U | 1.7 U |
| 120-82-1 | 1,2,4-TRICHLOROBENZENE | ug/kg | 1600 UJ | 0.84 U | 0.82 U | 0.85 U | 0.87 U | 0.83 U |
| 96-12-8 | 1,2-DIBROMO-3-CHLOROPROPANE | ug/kg | 1200 UJ | 1 U | 1 U | 1.1 U | 1.1 U | 1 U |
| 106-93-4 | 1,2-DIBROMOETHANE | ug/kg | 1000 UJ | 0.77 U | 0.75 U | 0.77 U | 0.8 U | 0.76 U |
| 95-50-1 | 1,2-DICHLOROBENZENE | ug/kg | 1100 UJ | 0.74 U | 0.72 U | 0.75 U | 0.77 U | 0.73 U |
| 107-06-2 | 1,2-DICHLOROETHANE | ug/kg | 1200 UJ | 0.77 U | 0.75 U | 0.77 U | 0.8 U | 0.76 U |
| 78-87-5 | 1,2-DICHLOROPROPANE | ug/kg | 1200 UJ | 0.31 U | 0.3 U | 0.31 U | 0.32 U | 0.31 U |
| 541-73-1 | 1,3-DICHLOROBENZENE | ug/kg | 1100 UJ | 0.44 U | 0.43 U | 0.45 U | 0.46 U | 0.44 U |
| 106-46-7 | 1,4-DICHLOROBENZENE | ug/kg | 810 UJ | 0.49 U | 0.48 U | 0.5 U | 0.51 U | 0.48 U |
| 591-78-6 | 2-HEXANONE | ug/kg | 4900 UJ | 4.7 U | 4.6 U | 4.7 U | 4.9 U | 4.6 U |
| 67-64-1 | ACETONE | ug/kg | 6900 UJ | 3.6 U | 3.5 U | 3.7 U | 3.8 U | 3.6 U |
| 71-43-2 | BENZENE | ug/kg | 32000 J | 0.45 U | 0.44 U | 0.46 U | 0.47 U | 0.45 U |
| 75-27-4 | BROMODICHLOROMETHANE | ug/kg | 910 UJ | 0.74 U | 0.72 U | 0.75 U | 0.77 U | 0.73 U |
| 75-25-2 | BROMOFORM | ug/kg | 1200 UJ | 0.88 U | 0.86 U | 0.9 U | 0.92 U | 0.87 U |
| 74-83-9 | BROMOMETHANE | ug/kg | 1600 UJ | 2.9 U | 2.9 U | 3 U | 3.1 U | 2.9 U |
| 75-15-0 | CARBON DISULFIDE | ug/kg | 1400 UJ | 1.3 U | 1.2 U | 1.3 U | 1.3 U | 1.3 U |
| 56-23-5 | CARBON TETRACHLORIDE | ug/kg | 1600 UJ | 1.2 U | 1.2 U | 1.2 U | 1.2 U | 1.2 U |
| 108-90-7 | CHLOROBENZENE | ug/kg | 1200 UJ | 0.6 U | 0.58 U | 0.6 U | 0.62 U | 0.59 U |
| 75-00-3 | CHLOROETHANE | ug/kg | 1700 UJ | 1.7 U | 1.6 U | 1.7 U | 1.7 U | 1.7 U |
| 67-66-3 | CHLOROFORM | ug/kg | 860 UJ | 0.88 U | 0.86 U | 0.9 U | 0.92 U | 0.87 U |
| 74-87-3 | CHLOROMETHANE | ug/kg | 1400 UJ | 1 U | 1 U | 1 U | 1.1 U | 1 U |
| 156-59-2 | CIS-1,2-DICHLOROETHYLENE | ug/kg | 880 UJ | 1.1 U | 1 U | 1.1 U | 1.1 U | 1.1 U |
| 10061-01-5 | CIS-1,3-DICHLOROPROPENE | ug/kg | 780 UJ | 0.86 U | 0.84 U | 0.87 U | 0.9 U | 0.85 U |
| 110-82-7 | CYCLOHEXANE | ug/kg | 1400 UJ | 1.2 U | 1.2 U | 1.2 U | 1.3 U | 1.2 U |
| 124-48-1 | DIBROMOCHLOROMETHANE | ug/kg | 1300 UJ | 0.65 U | 0.63 U | 0.65 U | 0.67 U | 0.64 U |
| 75-71-8 | DICHLORODIFLUOROMETHANE | ug/kg | 1400 UJ | 0.78 U | 0.76 U | 0.79 U | 0.81 U | 0.77 U |
| 100-41-4 | ETHYLBENZENE | ug/kg | 150000 J | 0.74 U | 0.72 U | 0.75 U | 0.77 U | 0.73 U |
| 98-82-8 | ISOPROPYLBENZENE (CUMENE) | ug/kg | 33000 J | 0.57 U | 0.56 U | 0.58 U | 0.6 U | 0.57 U |
| 79-20-9 | METHYL ACETATE | ug/kg | 2100 UJ | 1.8 U | 1.8 U | 1.8 U | 1.9 U | 1.8 U |
| 78-93-3 | METHYL ETHYL KETONE (2-BUTANONE) | ug/kg | 3300 UJ | 3.7 U | 3.6 U | 3.8 U | 3.9 U | 3.7 U |
| 108-10-1 | METHYL ISOBUTYL KETONE | ug/kg | 5300 UJ | 3.5 U | 3.4 U | 3.5 U | 3.6 U | 3.4 U |
| 108-87-2 | METHYLCYCLOHEXANE | ug/kg | 1700 UJ | 1.3 U | 1.2 U | 1.3 U | 1.3 U | 1.3 U |
| 75-09-2 | METHYLENE CHLORIDE | ug/kg | 1000 UJ | 1.7 U | 1.7 U | 1.7 U | 6.2 U | 1.7 U |
| 95-47-6 | O-XYLENE (1,2-DIMETHYLBENZENE) | ug/kg | 150000 J | 0.81 U | 0.79 U | 0.82 U | 0.85 U | 0.8 U |
| 100-42-5 | STYRENE | ug/kg | 910 UJ | 0.54 U | 0.52 U | 0.54 U | 0.56 U | 0.53 U |
| 1634-04-4 | TERT-BUTYL METHYL ETHER | ug/kg | 880 UJ | 8.3 | 1.4 J | 1.2 U | 1.2 U | 1.1 U |
| 127-18-4 | TETRACHLOROETHYLENE(PCE) | ug/kg | 680 UJ | 1.2 U | 1.2 U | 1.2 U | 1.3 U | 1.2 U |
| 108-88-3 | TOLUENE | ug/kg | 17000 J | 0.77 U | 0.75 U | 0.77 U | 0.8 U | 0.76 U |
| 156-60-5 | TRANS-1,2-DICHLOROETHENE | ug/kg | 1000 UJ | 0.82 U | 0.8 U | 0.83 U | 0.86 U | 0.81 U |
| 10061-02-6 | TRANS-1,3-DICHLOROPROPENE | ug/kg | 730 UJ | 0.94 U | 0.92 U | 0.96 U | 0.99 U | 0.93 U |
| 79-01-6 | TRICHLOROETHYLENE (TCE) | ug/kg | 710 UJ | 1 U | 1 U | 1 U | 1.1 U | 1 U |
| 75-69-4 | TRICHLOROFLUOROMETHANE | ug/kg | 880 UJ | 1.6 U | 1.5 U | 1.6 U | 1.6 U | 1.6 U |
| 75-01-4 | VINYL CHLORIDE | ug/kg | 860 UJ | 1.5 U | 1.4 U | 1.5 U | 1.5 U | 1.5 U |
| XYLMP | M,P-XYLENE (SUM OF ISOMERS) | ug/kg | 390000 J | 0.86 U | 0.84 U | 0.87 U | 0.9 U | 0.85 U |

| Consolidated Edison<br>Farrington Street Remedial Investigation<br>Validated Soil Analytical Data<br>SDG: C3666 | | Location ID:<br>Sample ID:<br>Lab Sample Id:<br>Depth:<br>Source:<br>SDG:<br>Matrix:<br>Sampled:<br>Validated: | CMW-32<br>CMW-32(13-15)<br>C3666-06<br>13 - 15 ft<br>CTECH<br>C3666<br>SOIL<br>9/8/2011<br>1/23/2012 | CMW-32<br>CMW-32(39-41)<br>C3666-07<br>39 - 41 ft<br>CTECH<br>C3666<br>SOIL<br>9/9/2011<br>1/23/2012 | MW-29<br>MW-29(37-39)<br>C3666-01<br>37 - 39 ft<br>CTECH<br>C3666<br>SOIL<br>9/6/2011<br>1/23/2012 | MW-30<br>MW-30(29-31)<br>C3666-02<br>29 - 31 ft<br>CTECH<br>C3666<br>SOIL<br>9/7/2011<br>1/23/2012 | MW-30<br>MW-30(33-35)<br>C3666-04<br>33 - 35 ft<br>CTECH<br>C3666<br>SOIL<br>9/8/2011<br>1/23/2012 | Dup of MW-30(33-35)<br>MW-30<br>MW-30A(29-31)<br>C3666-03<br>29 - 31 ft<br>CTECH<br>C3666<br>SOIL<br>9/7/2011<br>1/23/2012 |
|---|---|---|---|---|---|---|---|---|
| CAS NO. | COMPOUND | UNITS: | | | | | | |
| | SEMIVOLATILES | | | | | | | |
| 95-95-4 | 2,4,5-TRICHLOROPHENOL | ug/kg | 2900 UJ | 28 U | 27 U | 28 U | 29 U | 28 U |
| 88-06-2 | 2,4,6-TRICHLOROPHENOL | ug/kg | 1300 UJ | 12 U | 12 U | 12 U | 13 U | 12 U |
| 120-83-2 | 2,4-DICHLOROPHENOL | ug/kg | 1600 UJ | 15 U | 15 U | 15 U | 16 U | 15 U |
| 105-67-9 | 2,4-DIMETHYLPHENOL | ug/kg | 2400 UJ | 22 U | 22 U | 23 U | 23 U | 22 U |
| 51-28-5 | 2,4-DINITROPHENOL | ug/kg | 4200 UJ | 40 UJ | 40 UJ | 41 UJ | 42 UJ | 40 UJ |
| 121-14-2 | 2,4-DINITROTOLUENE | ug/kg | 1300 UJ | 12 U | 12 U | 12 U | 12 U | 12 U |
| 606-20-2 | 2,6-DINITROTOLUENE | ug/kg | 1700 UJ | 16 U | 16 U | 16 U | 17 U | 16 U |
| 91-58-7 | 2-CHLORONAPHTHALENE | ug/kg | 950 UJ | 8.9 U | 8.9 U | 9.1 U | 9.4 U | 9 U |
| 95-57-8 | 2-CHLOROPHENOL | ug/kg | 2200 UJ | 21 U | 21 U | 21 U | 22 U | 21 U |
| 91-57-6 | 2-METHYLNAPHTHALENE | ug/kg | 1300000 J | 57 J | 9.9 U | 10 U | 10 U | 10 U |
| 95-48-7 | 2-METHYLPHENOL (O-CRESOL) | ug/kg | 2300 UJ | 21 U | 21 U | 22 U | 22 U | 21 U |
| 88-74-4 | 2-NITROANILINE | ug/kg | 1800 UJ | 17 U | 17 U | 18 U | 18 U | 18 U |
| 88-75-5 | 2-NITROPHENOL | ug/kg | 2000 UJ | 19 U | 19 U | 19 U | 20 U | 19 U |
| 91-94-1 | 3,3'-DICHLOROBENZIDINE | ug/kg | 2700 UJ | 25 U | 25 U | 26 U | 26 U | 25 U |
| 99-09-2 | 3-NITROANILINE | ug/kg | 2700 UJ | 25 U | 25 U | 26 U | 26 U | 25 U |
| 534-52-1 | 4,6-DINITRO-2-METHYLPHENOL | ug/kg | 2400 UJ | 22 U | 22 U | 23 U | 24 U | 23 U |
| 101-55-3 | 4-BROMOPHENYL PHENYL ETHER | ug/kg | 810 UJ | 7.6 U | 7.6 U | 7.8 U | 8 U | 7.7 U |
| 59-50-7 | 4-CHLORO-3-METHYLPHENOL | ug/kg | 1800 UJ | 17 U | 17 U | 18 U | 18 U | 18 U |
| 106-47-8 | 4-CHLOROANILINE | ug/kg | 2900 UJ | 28 U | 28 U | 28 U | 29 U | 28 U |
| 7005-72-3 | 4-CHLOROPHENYL PHENYL ETHER | ug/kg | 2300 UJ | 21 U | 21 U | 22 U | 22 U | 21 U |
| 100-01-6 | 4-NITROANILINE | ug/kg | 5400 UJ | 51 U | 51 U | 52 U | 54 U | 51 U |
| 100-02-7 | 4-NITROPHENOL | ug/kg | 7700 UJ | 73 U | 73 U | 74 U | 76 U | 73 U |
| 83-32-9 | ACENAPHTHENE | ug/kg | 260000 J | 11 U | 11 U | 11 U | 12 U | 11 U |
| 208-96-8 | ACENAPHTHYLENE | ug/kg | 550000 J | 9.9 U | 9.9 U | 10 U | 10 U | 10 U |
| 98-86-2 | ACETOPHENONE | ug/kg | 1300 UJ | 12 U | 12 U | 12 U | 13 U | 12 U |
| 120-12-7 | ANTHRACENE | ug/kg | 710000 J | 8 U | 8 U | 8.2 U | 8.4 U | 8.1 U |
| 1912-24-9 | ATRAZINE | ug/kg | 2200 UJ | 21 UJ | 21 UJ | 21 UJ | 22 UJ | 21 UJ |
| 100-52-7 | BENZALDEHYDE | ug/kg | 2200 UJ | 20 U | 20 U | 21 U | 21 U | 21 U |
| 56-55-3 | BENZO(A)ANTHRACENE | ug/kg | 510000 J | 19 U | 19 U | 19 U | 20 U | 19 U |
| 50-32-8 | BENZO(A)PYRENE | ug/kg | 280000 J | 8.5 U | 8.5 U | 8.6 U | 8.9 U | 8.5 U |
| 205-99-2 | BENZO(B)FLUORANTHENE | ug/kg | 410000 J | 13 U | 13 U | 13 U | 13 U | 13 U |
| 191-24-2 | BENZO(G,H,I)PERYLENE | ug/kg | 110000 J | 16 U | 16 U | 16 U | 17 U | 16 U |
| 207-08-9 | BENZO(K)FLUORANTHENE | ug/kg | 100000 J | 18 U | 18 U | 19 U | 19 U | 19 U |
| 85-68-7 | BENZYL BUTYL PHTHALATE | ug/kg | 2000 UJ | 19 U | 19 U | 19 U | 20 U | 19 U |
| 92-52-4 | BIPHENYL (DIPHENYL) | ug/kg | 200000 J | 15 U | 15 U | 15 U | 16 U | 15 U |
| 111-91-1 | BIS(2-CHLOROETHOXY) METHANE | ug/kg | 2400 UJ | 23 U | 23 U | 23 U | 24 U | 23 U |
| 111-44-4 | BIS(2-CHLOROETHYL) ETHER | ug/kg | 2000 UJ | 19 U | 19 U | 19 U | 20 U | 19 U |
| 108-60-1 | BIS(2-CHLOROISOPROPYL) ETHER | ug/kg | 1700 UJ | 16 U | 16 U | 17 U | 17 U | 16 U |
| 117-81-7 | BIS(2-ETHYLHEXYL) PHTHALATE | ug/kg | 1500 UJ | 130 J | 14 U | 93 J | 150 J | 97 J |
| 105-60-2 | CAPROLACTAM | ug/kg | 1900 UJ | 18 U | 18 U | 19 U | 19 U | 18 U |
| 86-74-8 | CARBAZOLE | ug/kg | 190000 J | 8.6 U | 8.6 U | 8.8 U | 9 U | 8.7 U |
| 218-01-9 | CHRYSENE | ug/kg | 440000 J | 18 U | 18 U | 18 U | 19 U | 18 U |
| MEPH1314 | CRESOLS, M & P | ug/kg | 2200 UJ | 20 U | 20 U | 21 U | 21 U | 21 U |
| 53-70-3 | DIBENZ(A,H)ANTHRACENE | ug/kg | 44000 J | 11 U | 11 U | 12 U | 12 U | 11 U |
| 132-64-9 | DIBENZOFURAN | ug/kg | 630000 J | 15 U | 15 U | 16 U | 16 U | 15 U |
| 84-66-2 | DIETHYL PHTHALATE | ug/kg | 650 UJ | 6.1 U | 6.1 U | 6.2 U | 6.4 U | 6.2 U |
| 131-11-3 | DIMETHYL PHTHALATE | ug/kg | 1100 UJ | 11 U | 11 U | 11 U | 11 U | 11 U |
| 84-74-2 | DI-N-BUTYL PHTHALATE | ug/kg | 3300 UJ | 31 U | 31 U | 31 U | 32 U | 31 U |
| 117-84-0 | DI-N-OCTYLPHTHALATE | ug/kg | 470 UJ | 4.5 U | 4.5 U | 4.6 U | 4.7 U | 4.5 U |
| 206-44-0 | FLUORANTHENE | ug/kg | 960000 J | 50 J | 7.9 U | 8 U | 8.3 U | 7.9 U |
| 86-73-7 | FLUORENE | ug/kg | 830000 J | 15 U | 15 U | 15 U | 16 U | 15 U |
| 118-74-1 | HEXACHLOROBENZENE | ug/kg | 1700 UJ | 16 U | 16 U | 16 U | 17 U | 16 U |
| 87-68-3 | HEXACHLOROBUTADIENE | ug/kg | 1500 UJ | 14 U | 14 U | 15 U | 15 U | 14 U |
| 77-47-4 | HEXACHLOROCYCLOPENTADIENE | ug/kg | 1000 UJ | 9.5 U | 9.5 U | 9.7 U | 10 U | 9.6 U |
| 67-72-1 | HEXACHLOROETHANE | ug/kg | 1900 UJ | 18 U | 17 U | 18 U | 18 U | 18 U |
| 193-39-5 | INDENO(1,2,3-C,D)PYRENE | ug/kg | 140000 J | 13 U | 13 U | 13 U | 14 U | 13 U |
| 78-59-1 | ISOPHORONE | ug/kg | 1400 UJ | 13 U | 13 U | 13 U | 14 U | 13 U |
| 91-20-3 | NAPHTHALENE | ug/kg | 3700000 J | 140 J | 13 U | 14 U | 14 U | 14 U |
| 98-95-3 | NITROBENZENE | ug/kg | 1600 UJ | 15 U | 15 U | 15 U | 16 U | 15 U |
| 621-64-7 | N-NITROSODI-N-PROPYLAMINE | ug/kg | 2100 UJ | 20 U | 20 U | 20 U | 21 U | 20 U |
| 86-30-6 | N-NITROSODIPHENYLAMINE | ug/kg | 1000 UJ | 9.4 U | 9.4 U | 9.6 U | 9.9 U | 9.5 U |
| 87-86-5 | PENTACHLOROPHENOL | ug/kg | 2800 UJ | 27 U | 27 U | 27 U | 28 U | 27 U |
| 85-01-8 | PHENANTHRENE | ug/kg | 2000000 J | 96 J | 11 U | 11 U | 11 U | 11 U |
| 108-95-2 | PHENOL | ug/kg | 960 UJ | 9.1 U | 9 U | 9.2 U | 9.5 U | 9.1 U |
| 129-00-0 | PYRENE | ug/kg | 800000 J | 58 J | 9.4 U | 9.6 U | 9.9 U | 9.5 U |

| Consolidated Edison<br>Farrington Street Remedial Investigation<br>Validated Soil Analytical Data<br>SDG: C3666 | | Location ID:<br>Sample ID:<br>Lab Sample Id:<br>Depth:<br>Source:<br>SDG:<br>Matrix:<br>Sampled:<br>Validated: | CMW-32<br>CMW-32(13-15)<br>C3666-06<br>13 - 15 ft<br>CTECH<br>C3666<br>SOIL<br>9/8/2011<br>1/23/2012 | CMW-32<br>CMW-32(39-41)<br>C3666-07<br>39 - 41 ft<br>CTECH<br>C3666<br>SOIL<br>9/9/2011<br>1/23/2012 | MW-29<br>MW-29(37-39)<br>C3666-01<br>37 - 39 ft<br>CTECH<br>C3666<br>SOIL<br>9/6/2011<br>1/23/2012 | MW-30<br>MW-30(29-31)<br>C3666-02<br>29 - 31 ft<br>CTECH<br>C3666<br>SOIL<br>9/7/2011<br>1/23/2012 | MW-30<br>MW-30(33-35)<br>C3666-04<br>33 - 35 ft<br>CTECH<br>C3666<br>SOIL<br>9/8/2011<br>1/23/2012 | Dup of MW-30(33-35)<br>MW-30<br>MW-30A(29-31)<br>C3666-03<br>29 - 31 ft<br>CTECH<br>C3666<br>SOIL<br>9/7/2011<br>1/23/2012 |
|---|---|---|---|---|---|---|---|---|
| CAS NO. | COMPOUND | UNITS: | | | | | | |
| | INORGANICS | | | | | | | |
| 7429-90-5 | ALUMINUM | mg/kg | 10200 J | 4250 | 5380 | 4210 | 2170 | 4000 |
| 7440-36-0 | ANTIMONY | mg/kg | 1.7 J | 0.484 U | 0.658 U | 0.626 U | 0.598 U | 0.509 U |
| 7440-38-2 | ARSENIC | mg/kg | 27.6 J | 1.45 | 1.09 J | 0.745 J | 0.537 J | 1.54 |
| 7440-39-3 | BARIUM | mg/kg | 111 J | 56.9 | 46.8 | 45.3 | 19.1 | 42.7 |
| 7440-41-7 | BERYLLIUM | mg/kg | 0.747 J | 0.189 J | 0.249 J | 0.13 J | 0.067 J | 0.11 J |
| 7440-43-9 | CADMIUM | mg/kg | 0.471 J | 0.052 U | 0.071 U | 0.067 U | 0.064 U | 0.055 U |
| 7440-70-2 | CALCIUM | mg/kg | 5740 J | 992 | 606 | 750 | 1500 | 755 |
| 7440-47-3 | CHROMIUM, TOTAL | mg/kg | 23.3 J | 13.2 | 15.8 | 15.8 | 7.8 | 17 |
| 7440-48-4 | COBALT | mg/kg | 21.9 J | 5.88 | 8.42 | 5.26 | 2.8 | 4.98 |
| 7440-50-8 | COPPER | mg/kg | 96.3 J | 9.54 J | 9.83 J | 8.47 J | 4.44 J | 8.86 J |
| 7439-89-6 | IRON | mg/kg | 34700 J | 12500 | 14200 | 11800 | 6530 | 11500 |
| 7439-92-1 | LEAD | mg/kg | 273 J | 2.43 | 3.63 | 3.56 | 2.41 | 7.95 |
| 7439-95-4 | MAGNESIUM | mg/kg | 2910 J | 1820 | 1980 | 1870 | 938 | 1760 |
| 7439-96-5 | MANGANESE | mg/kg | 293 J | 369 | 214 | 113 | 61.7 | 108 |
| 7439-97-6 | MERCURY | mg/kg | 0.028 J | 0.002 U | 0.002 U | 0.002 U | 0.018 | 0.002 J |
| 7440-02-0 | NICKEL | mg/kg | 31.2 J | 9.76 | 13.5 | 17 | 9.64 | 16.3 |
| 7440-09-7 | POTASSIUM | mg/kg | 1250 J | 1440 | 1900 | 1740 | 642 | 1630 |
| 7782-49-2 | SELENIUM | mg/kg | 0.84 J | 0.354 U | 0.482 U | 0.458 U | 0.438 U | 0.373 U |
| 7440-22-4 | SILVER | mg/kg | 0.244 UJ | 0.13 U | 0.176 U | 0.168 U | 0.16 U | 0.136 U |
| 7440-23-5 | SODIUM | mg/kg | 520 UJ | 132 U | 245 U | 179 U | 124 U | 177 U |
| 7440-28-0 | THALLIUM | mg/kg | 0.439 UJ | 0.233 U | 0.317 U | 0.302 U | 0.288 U | 0.245 U |
| 7440-62-2 | VANADIUM | mg/kg | 28.7 J | 19.2 | 18.7 | 16.2 | 9.18 | 15.9 |
| 7440-66-6 | ZINC | mg/kg | 218 J | 22.4 | 28.7 | 24.4 | 16 | 22.3 |
| 57-12-5 | CYANIDE | mg/kg | 14 J | 0.098 J | 0.039 U | 0.056 J | 0.066 J | 0.081 J |

| Consolidated Edison<br>Farrington Street Remedial Investigation<br>Validated Soil Analytical Data<br>SDG: C3666 | | Location ID:<br>Sample ID:<br>Lab Sample Id:<br>Depth:<br>Source:<br>SDG:<br>Matrix:<br>Sampled:<br>Validated: | FIELDQC<br>FB090911<br>C3666-05<br>-<br>CTECH<br>C3666<br>WATER<br>9/9/2011<br>1/23/2012 |
|---|---|---|---|
| CAS NO. | COMPOUND | UNITS: | ug/L |
| | VOLATILES | | |
| 71-55-6 | 1,1,1-TRICHLOROETHANE | ug/kg | 0.4 UJ |
| 79-34-5 | 1,1,2,2-TETRACHLOROETHANE | ug/kg | 0.31 U |
| 76-13-1 | 1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE | ug/kg | 0.45 U |
| 79-00-5 | 1,1,2-TRICHLOROETHANE | ug/kg | 0.38 U |
| 75-34-3 | 1,1-DICHLOROETHANE | ug/kg | 0.36 U |
| 75-35-4 | 1,1-DICHLOROETHENE | ug/kg | 0.47 U |
| 120-82-1 | 1,2,4-TRICHLOROBENZENE | ug/kg | 0.62 UJ |
| 96-12-8 | 1,2-DIBROMO-3-CHLOROPROPANE | ug/kg | 0.46 U |
| 106-93-4 | 1,2-DIBROMOETHANE | ug/kg | 0.41 U |
| 95-50-1 | 1,2-DICHLOROBENZENE | ug/kg | 0.45 U |
| 107-06-2 | 1,2-DICHLOROETHANE | ug/kg | 0.48 U |
| 78-87-5 | 1,2-DICHLOROPROPANE | ug/kg | 0.46 U |
| 541-73-1 | 1,3-DICHLOROBENZENE | ug/kg | 0.43 U |
| 106-46-7 | 1,4-DICHLOROBENZENE | ug/kg | 0.32 U |
| 591-78-6 | 2-HEXANONE | ug/kg | 1.9 UJ |
| 67-64-1 | ACETONE | ug/kg | R |
| 71-43-2 | BENZENE | ug/kg | 0.32 U |
| 75-27-4 | BROMODICHLOROMETHANE | ug/kg | 0.36 U |
| 75-25-2 | BROMOFORM | ug/kg | 0.47 U |
| 74-83-9 | BROMOMETHANE | ug/kg | 0.62 U |
| 75-15-0 | CARBON DISULFIDE | ug/kg | 2.6 J |
| 56-23-5 | CARBON TETRACHLORIDE | ug/kg | 0.62 U |
| 108-90-7 | CHLOROBENZENE | ug/kg | 0.49 U |
| 75-00-3 | CHLOROETHANE | ug/kg | 0.66 U |
| 67-66-3 | CHLOROFORM | ug/kg | 0.34 U |
| 74-87-3 | CHLOROMETHANE | ug/kg | 0.54 U |
| 156-59-2 | CIS-1,2-DICHLOROETHYLENE | ug/kg | 0.35 U |
| 10061-01-5 | CIS-1,3-DICHLOROPROPENE | ug/kg | 0.31 U |
| 110-82-7 | CYCLOHEXANE | ug/kg | 0.55 U |
| 124-48-1 | DIBROMOCHLOROMETHANE | ug/kg | 0.52 U |
| 75-71-8 | DICHLORODIFLUOROMETHANE | ug/kg | 0.55 U |
| 100-41-4 | ETHYLBENZENE | ug/kg | 0.53 UJ |
| 98-82-8 | ISOPROPYLBENZENE (CUMENE) | ug/kg | 0.45 UJ |
| 79-20-9 | METHYL ACETATE | ug/kg | 0.83 U |
| 78-93-3 | METHYL ETHYL KETONE (2-BUTANONE) | ug/kg | 1.3 UJ |
| 108-10-1 | METHYL ISOBUTYL KETONE | ug/kg | 2.1 UJ |
| 108-87-2 | METHYLCYCLOHEXANE | ug/kg | 0.68 U |
| 75-09-2 | METHYLENE CHLORIDE | ug/kg | 0.83 J |
| 95-47-6 | O-XYLENE (1,2-DIMETHYLBENZENE) | ug/kg | 0.43 U |
| 100-42-5 | STYRENE | ug/kg | 0.36 U |
| 1634-04-4 | TERT-BUTYL METHYL ETHER | ug/kg | 0.35 U |
| 127-18-4 | TETRACHLOROETHYLENE(PCE) | ug/kg | 0.27 U |
| 108-88-3 | TOLUENE | ug/kg | 0.37 U |
| 156-60-5 | TRANS-1,2-DICHLOROETHENE | ug/kg | 0.41 U |
| 10061-02-6 | TRANS-1,3-DICHLOROPROPENE | ug/kg | 0.29 U |
| 79-01-6 | TRICHLOROETHYLENE (TCE) | ug/kg | 0.28 U |
| 75-69-4 | TRICHLOROFLUOROMETHANE | ug/kg | 0.35 UJ |
| 75-01-4 | VINYL CHLORIDE | ug/kg | 0.34 U |
| XYLMP | M,P-XYLENE (SUM OF ISOMERS) | ug/kg | 0.95 U |

| Consolidated Edison<br>Farrington Street Remedial Investigation<br>Validated Soil Analytical Data<br>SDG: C3666 | | Location ID:<br>Sample ID:<br>Lab Sample Id:<br>Depth:<br>Source:<br>SDG:<br>Matrix:<br>Sampled:<br>Validated: | FIELDQC<br>FB090911<br>C3666-05<br>-<br>CTECH<br>C3666<br>WATER<br>9/9/2011<br>1/23/2012 |
|---|---|---|---|
| CAS NO. | COMPOUND | UNITS: | ug/L |
| | SEMIVOLATILES | | |
| 95-95-4 | 2,4,5-TRICHLOROPHENOL | ug/kg | R |
| 88-06-2 | 2,4,6-TRICHLOROPHENOL | ug/kg | R |
| 120-83-2 | 2,4-DICHLOROPHENOL | ug/kg | R |
| 105-67-9 | 2,4-DIMETHYLPHENOL | ug/kg | R |
| 51-28-5 | 2,4-DINITROPHENOL | ug/kg | R |
| 121-14-2 | 2,4-DINITROTOLUENE | ug/kg | 1.1 U |
| 606-20-2 | 2,6-DINITROTOLUENE | ug/kg | 0.33 U |
| 91-58-7 | 2-CHLORONAPHTHALENE | ug/kg | 0.16 U |
| 95-57-8 | 2-CHLOROPHENOL | ug/kg | R |
| 91-57-6 | 2-METHYLNAPHTHALENE | ug/kg | 0.33 U |
| 95-48-7 | 2-METHYLPHENOL (O-CRESOL) | ug/kg | R |
| 88-74-4 | 2-NITROANILINE | ug/kg | 0.51 U |
| 88-75-5 | 2-NITROPHENOL | ug/kg | R |
| 91-94-1 | 3,3'-DICHLOROBENZIDINE | ug/kg | 2.1 U |
| 99-09-2 | 3-NITROANILINE | ug/kg | 1.1 U |
| 534-52-1 | 4,6-DINITRO-2-METHYLPHENOL | ug/kg | R |
| 101-55-3 | 4-BROMOPHENYL PHENYL ETHER | ug/kg | 0.24 U |
| 59-50-7 | 4-CHLORO-3-METHYLPHENOL | ug/kg | R |
| 106-47-8 | 4-CHLOROANILINE | ug/kg | 2.9 U |
| 7005-72-3 | 4-CHLOROPHENYL PHENYL ETHER | ug/kg | 0.22 U |
| 100-01-6 | 4-NITROANILINE | ug/kg | 1.4 U |
| 100-02-7 | 4-NITROPHENOL | ug/kg | R |
| 83-32-9 | ACENAPHTHENE | ug/kg | 0.22 U |
| 208-96-8 | ACENAPHTHYLENE | ug/kg | 0.72 U |
| 98-86-2 | ACETOPHENONE | ug/kg | 0.14 U |
| 120-12-7 | ANTHRACENE | ug/kg | 0.16 U |
| 1912-24-9 | ATRAZINE | ug/kg | 0.41 UJ |
| 100-52-7 | BENZALDEHYDE | ug/kg | 0.79 U |
| 56-55-3 | BENZO(A)ANTHRACENE | ug/kg | 0.16 U |
| 50-32-8 | BENZO(A)PYRENE | ug/kg | 0.14 U |
| 205-99-2 | BENZO(B)FLUORANTHENE | ug/kg | 0.3 U |
| 191-24-2 | BENZO(G,H,I)PERYLENE | ug/kg | 0.3 U |
| 207-08-9 | BENZO(K)FLUORANTHENE | ug/kg | 0.19 U |
| 85-68-7 | BENZYL BUTYL PHTHALATE | ug/kg | 0.2 U |
| 92-52-4 | BIPHENYL (DIPHENYL) | ug/kg | 0.15 U |
| 111-91-1 | BIS(2-CHLOROETHOXY) METHANE | ug/kg | 0.57 U |
| 111-44-4 | BIS(2-CHLOROETHYL) ETHER | ug/kg | 0.57 U |
| 108-60-1 | BIS(2-CHLOROISOPROPYL) ETHER | ug/kg | 0.18 U |
| 117-81-7 | BIS(2-ETHYLHEXYL) PHTHALATE | ug/kg | 0.16 U |
| 105-60-2 | CAPROLACTAM | ug/kg | 2.1 U |
| 86-74-8 | CARBAZOLE | ug/kg | 0.23 U |
| 218-01-9 | CHRYSENE | ug/kg | 0.19 U |
| MEPH1314 | CRESOLS, M & P | ug/kg | R |
| 53-70-3 | DIBENZ(A,H)ANTHRACENE | ug/kg | 0.43 U |
| 132-64-9 | DIBENZOFURAN | ug/kg | 0.25 U |
| 84-66-2 | DIETHYL PHTHALATE | ug/kg | 0.39 U |
| 131-11-3 | DIMETHYL PHTHALATE | ug/kg | 0.23 U |
| 84-74-2 | DI-N-BUTYL PHTHALATE | ug/kg | 2.1 U |
| 117-84-0 | DI-N-OCTYLPHTHALATE | ug/kg | 0.53 U |
| 206-44-0 | FLUORANTHENE | ug/kg | 0.41 U |
| 86-73-7 | FLUORENE | ug/kg | 0.32 U |
| 118-74-1 | HEXACHLOROBENZENE | ug/kg | 0.19 U |
| 87-68-3 | HEXACHLOROBUTADIENE | ug/kg | 0.26 U |
| 77-47-4 | HEXACHLOROCYCLOPENTADIENE | ug/kg | 0.25 U |
| 67-72-1 | HEXACHLOROETHANE | ug/kg | 0.26 U |
| 193-39-5 | INDENO(1,2,3-C,D)PYRENE | ug/kg | 0.15 U |
| 78-59-1 | ISOPHORONE | ug/kg | 0.31 U |
| 91-20-3 | NAPHTHALENE | ug/kg | 0.12 U |
| 98-95-3 | NITROBENZENE | ug/kg | 0.7 U |
| 621-64-7 | N-NITROSODI-N-PROPYLAMINE | ug/kg | 0.21 U |
| 86-30-6 | N-NITROSODIPHENYLAMINE | ug/kg | 0.62 U |
| 87-86-5 | PENTACHLOROPHENOL | ug/kg | R |
| 85-01-8 | PHENANTHRENE | ug/kg | 0.27 U |
| 108-95-2 | PHENOL | ug/kg | R |
| 129-00-0 | PYRENE | ug/kg | 0.21 U |

| Consolidated Edison<br>Farrington Street Remedial Investigation<br>Validated Soil Analytical Data<br>SDG: C3666 | | Location ID:<br>Sample ID:<br>Lab Sample Id:<br>Depth:<br>Source:<br>SDG:<br>Matrix:<br>Sampled:<br>Validated: | FIELDQC<br>FB090911<br>C3666-05<br>-<br>CTECH<br>C3666<br>WATER<br>9/9/2011<br>1/23/2012 |
|---|---|---|---|
| CAS NO. | COMPOUND | UNITS: | ug/L |
| | INORGANICS | | |
| 7429-90-5 | ALUMINUM | mg/kg | 27.9 |
| 7440-36-0 | ANTIMONY | mg/kg | 0.56 U |
| 7440-38-2 | ARSENIC | mg/kg | 0.843 J |
| 7440-39-3 | BARIUM | mg/kg | 0.67 J |
| 7440-41-7 | BERYLLIUM | mg/kg | 0.06 U |
| 7440-43-9 | CADMIUM | mg/kg | 0.06 U |
| 7440-70-2 | CALCIUM | mg/kg | 686 |
| 7440-47-3 | CHROMIUM, TOTAL | mg/kg | 1.06 |
| 7440-48-4 | COBALT | mg/kg | 0.57 U |
| 7440-50-8 | COPPER | mg/kg | 0.32 UJ |
| 7439-89-6 | IRON | mg/kg | 84.8 |
| 7439-92-1 | LEAD | mg/kg | 0.28 J |
| 7439-95-4 | MAGNESIUM | mg/kg | 72 J |
| 7439-96-5 | MANGANESE | mg/kg | 1.28 |
| 7439-97-6 | MERCURY | mg/kg | 0.092 U |
| 7440-02-0 | NICKEL | mg/kg | 0.642 J |
| 7440-09-7 | POTASSIUM | mg/kg | 924 |
| 7782-49-2 | SELENIUM | mg/kg | 0.41 U |
| 7440-22-4 | SILVER | mg/kg | 0.15 U |
| 7440-23-5 | SODIUM | mg/kg | 3840 |
| 7440-28-0 | THALLIUM | mg/kg | 0.27 U |
| 7440-62-2 | VANADIUM | mg/kg | 0.59 U |
| 7440-66-6 | ZINC | mg/kg | 14.2 |
| 57-12-5 | CYANIDE | mg/kg | 3 U |

| Consolidated Edison<br>Farrington Street Remedial Investigation<br>Validated Soil Analytical Data<br>SDG: C3769 | | Location ID:<br>Sample ID:<br>Lab Sample Id:<br>Depth:<br>Source:<br>SDG:<br>Matrix:<br>Sampled:<br>Validated: | CMW-33<br>CMW-33(18-19)<br>C3769-01<br>18 - 19 ft<br>CTECH<br>C3769<br>SOIL<br>9/12/2011<br>1/23/2012 | CMW-33<br>CMW-33(41-43)<br>C3769-02<br>41 - 43 ft<br>CTECH<br>C3769<br>SOIL<br>9/13/2011<br>1/23/2012 | CMW-35<br>CMW-35(9-11)<br>C3769-03<br>9 - 11 ft<br>CTECH<br>C3769<br>SOIL<br>9/14/2011<br>1/23/2012 | CMW-35<br>CMW-35(31-33)<br>C3769-04<br>31 - 33 ft<br>CTECH<br>C3769<br>SOIL<br>9/15/2011<br>1/23/2012 | CMW-37<br>CMW-37(15-17)<br>C3769-11<br>15 - 17 ft<br>CTECH<br>C3769<br>SOIL<br>9/19/2011<br>1/23/2012 | CMW-37<br>CMW-37(39-41)<br>C3769-12<br>39 - 41 ft<br>CTECH<br>C3769<br>SOIL<br>9/19/2011<br>1/23/2012 |
|---|---|---|---|---|---|---|---|---|
| CAS NO. | COMPOUND | UNITS: | | | | | | |
| | VOLATILES | | | | | | | |
| 71-55-6 | 1,1,1-TRICHLOROETHANE | ug/kg | 49 U | 1.1 U | 92 U | 1.1 U | 1.2 U | 1.1 U |
| 79-34-5 | 1,1,2,2-TETRACHLOROETHANE | ug/kg | 38 U | 0.57 U | 72 U | 0.58 U | 0.62 U | 0.57 U |
| 76-13-1 | 1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE | ug/kg | 56 U | 1.6 UJ | 100 U | 1.7 UJ | 1.8 UJ | 1.7 UJ |
| 79-00-5 | 1,1,2-TRICHLOROETHANE | ug/kg | 47 U | 1.1 U | 88 U | 1.1 U | 1.2 U | 1.1 U |
| 75-34-3 | 1,1-DICHLOROETHANE | ug/kg | 44 U | 1.2 U | 83 U | 1.2 U | 1.3 U | 1.2 U |
| 75-35-4 | 1,1-DICHLOROETHENE | ug/kg | 58 U | 1.8 UJ | 110 U | 1.8 UJ | 2 UJ | 1.8 UJ |
| 120-82-1 | 1,2,4-TRICHLOROBENZENE | ug/kg | 77 U | 0.87 U | 140 U | 0.88 U | 0.94 U | 0.87 U |
| 96-12-8 | 1,2-DIBROMO-3-CHLOROPROPANE | ug/kg | 57 U | 1.1 U | 110 U | 1.1 U | 1.2 U | 1.1 U |
| 106-93-4 | 1,2-DIBROMOETHANE | ug/kg | 51 U | 0.79 U | 95 U | 0.8 U | 0.86 U | 0.8 U |
| 95-50-1 | 1,2-DICHLOROBENZENE | ug/kg | 56 U | 0.77 U | 100 U | 0.78 U | 0.83 U | 0.77 U |
| 107-06-2 | 1,2-DICHLOROETHANE | ug/kg | 59 U | 0.79 U | 110 U | 0.8 U | 0.86 U | 0.8 U |
| 78-87-5 | 1,2-DICHLOROPROPANE | ug/kg | 57 U | 0.32 U | 110 U | 0.33 U | 0.35 U | 0.32 U |
| 541-73-1 | 1,3-DICHLOROBENZENE | ug/kg | 53 U | 0.46 U | 99 U | 0.46 U | 0.5 U | 0.46 U |
| 106-46-7 | 1,4-DICHLOROBENZENE | ug/kg | 40 U | 0.51 U | 74 U | 0.51 U | 0.55 U | 0.51 U |
| 591-78-6 | 2-HEXANONE | ug/kg | 240 U | 4.9 U | 450 U | 4.9 U | 5.3 U | 4.9 U |
| 67-64-1 | ACETONE | ug/kg | 340 U | 3.7 U | 630 U | 3.8 U | 4.1 U | 3.8 U |
| 71-43-2 | BENZENE | ug/kg | 40 U | 0.47 U | 74 U | 0.48 U | 1.9 J | 0.47 U |
| 75-27-4 | BROMODICHLOROMETHANE | ug/kg | 44 U | 0.77 U | 83 U | 0.78 U | 0.83 U | 0.77 U |
| 75-25-2 | BROMOFORM | ug/kg | 58 U | 0.92 U | 110 U | 0.93 U | 0.99 U | 0.92 U |
| 74-83-9 | BROMOMETHANE | ug/kg | 77 U | 3 UJ | 140 U | 3.1 UJ | 3.3 UJ | 3.1 UJ |
| 75-15-0 | CARBON DISULFIDE | ug/kg | 67 U | 1.3 UJ | 120 U | 1.3 UJ | 1.4 UJ | 1.3 UJ |
| 56-23-5 | CARBON TETRACHLORIDE | ug/kg | 77 U | 1.2 U | 140 U | 1.2 U | 1.3 U | 1.2 U |
| 108-90-7 | CHLOROBENZENE | ug/kg | 60 U | 0.62 U | 110 U | 0.63 U | 0.67 U | 0.62 U |
| 75-00-3 | CHLOROETHANE | ug/kg | 81 U | 1.7 UJ | 150 U | 1.8 UJ | 1.9 UJ | 1.7 UJ |
| 67-66-3 | CHLOROFORM | ug/kg | 42 U | 0.92 U | 78 U | 0.93 U | 0.99 U | 1.8 J |
| 74-87-3 | CHLOROMETHANE | ug/kg | 67 U | 1.1 U | 120 U | 1.1 U | 1.2 U | 1.1 U |
| 156-59-2 | CIS-1,2-DICHLOROETHYLENE | ug/kg | 43 U | 1.1 U | 81 U | 1.1 U | 1.2 U | 1.1 U |
| 10061-01-5 | CIS-1,3-DICHLOROPROPENE | ug/kg | 38 U | 0.89 U | 72 U | 0.9 U | 0.97 U | 0.9 U |
| 110-82-7 | CYCLOHEXANE | ug/kg | 68 U | 1.3 U | 130 U | 1.3 U | 1.4 U | 1.3 U |
| 124-48-1 | DIBROMOCHLOROMETHANE | ug/kg | 64 U | 0.67 U | 120 U | 0.68 U | 0.73 U | 0.67 U |
| 75-71-8 | DICHLORODIFLUOROMETHANE | ug/kg | 68 U | 0.81 U | 130 U | 0.81 U | 0.87 U | 0.81 U |
| 100-41-4 | ETHYLBENZENE | ug/kg | 65 U | 0.77 U | 120 U | 0.78 U | 3.1 J | 0.77 U |
| 98-82-8 | ISOPROPYLBENZENE (CUMENE) | ug/kg | 130 J | 0.59 U | 100 U | 0.6 U | 4.7 J | 0.6 U |
| 79-20-9 | METHYL ACETATE | ug/kg | 100 U | 1.9 U | 190 U | 1.9 U | 2 U | 1.9 U |
| 78-93-3 | METHYL ETHYL KETONE (2-BUTANONE) | ug/kg | 160 U | 3.9 U | 300 U | 3.9 U | 4.2 U | 3.9 U |
| 108-10-1 | METHYL ISOBUTYL KETONE | ug/kg | 260 U | 3.6 U | 480 U | 3.7 U | 3.9 U | 3.6 U |
| 108-87-2 | METHYLCYCLOHEXANE | ug/kg | 84 U | 1.3 U | 160 U | 1.3 U | 1.4 U | 1.3 U |
| 75-09-2 | METHYLENE CHLORIDE | ug/kg | 51 U | 1.8 U | 95 U | 4.7 J | 1.9 U | 1.8 U |
| 95-47-6 | O-XYLENE (1,2-DIMETHYLBENZENE) | ug/kg | 53 U | 0.84 U | 99 U | 0.85 U | 56 | 0.85 U |
| 100-42-5 | STYRENE | ug/kg | 44 U | 0.56 U | 83 U | 0.56 U | 0.6 U | 0.56 U |
| 1634-04-4 | TERT-BUTYL METHYL ETHER | ug/kg | 43 U | 1.2 U | 81 U | 1.2 U | 1.3 U | 1.2 U |
| 127-18-4 | TETRACHLOROETHYLENE(PCE) | ug/kg | 33 U | 1.3 U | 62 U | 1.3 U | 1.4 U | 1.3 U |
| 108-88-3 | TOLUENE | ug/kg | 46 U | 0.79 U | 85 U | 0.8 U | 0.86 U | 0.8 U |
| 156-60-5 | TRANS-1,2-DICHLOROETHENE | ug/kg | 51 U | 0.86 UJ | 95 U | 0.86 UJ | 0.93 UJ | 0.86 UJ |
| 10061-02-6 | TRANS-1,3-DICHLOROPROPENE | ug/kg | 36 U | 0.98 U | 67 U | 0.99 U | 1.1 U | 0.99 U |
| 79-01-6 | TRICHLOROETHYLENE (TCE) | ug/kg | 35 U | 1.1 U | 65 U | 1.1 U | 1.2 U | 1.1 U |
| 75-69-4 | TRICHLOROFLUOROMETHANE | ug/kg | 43 U | 1.6 UJ | 81 U | 1.7 UJ | 1.8 UJ | 1.6 UJ |
| 75-01-4 | VINYL CHLORIDE | ug/kg | 42 U | 1.5 U | 78 U | 1.5 U | 1.7 U | 1.5 U |
| XYLMP | M,P-XYLENE (SUM OF ISOMERS) | ug/kg | 120 U | 0.89 U | 220 U | 0.9 U | 65 | 0.9 U |

| Consolidated Edison<br>Farrington Street Remedial Investigation<br>Validated Soil Analytical Data<br>SDG: C3769 | | Location ID:<br>Sample ID:<br>Lab Sample Id:<br>Depth:<br>Source:<br>SDG:<br>Matrix:<br>Sampled:<br>Validated: | CMW-33<br>CMW-33(18-19)<br>C3769-01<br>18 - 19 ft<br>CTECH<br>C3769<br>SOIL<br>9/12/2011<br>1/23/2012 | CMW-33<br>CMW-33(41-43)<br>C3769-02<br>41 - 43 ft<br>CTECH<br>C3769<br>SOIL<br>9/13/2011<br>1/23/2012 | CMW-35<br>CMW-35(9-11)<br>C3769-03<br>9 - 11 ft<br>CTECH<br>C3769<br>SOIL<br>9/14/2011<br>1/23/2012 | CMW-35<br>CMW-35(31-33)<br>C3769-04<br>31 - 33 ft<br>CTECH<br>C3769<br>SOIL<br>9/15/2011<br>1/23/2012 | CMW-37<br>CMW-37(15-17)<br>C3769-11<br>15 - 17 ft<br>CTECH<br>C3769<br>SOIL<br>9/19/2011<br>1/23/2012 | CMW-37<br>CMW-37(39-41)<br>C3769-12<br>39 - 41 ft<br>CTECH<br>C3769<br>SOIL<br>9/19/2011<br>1/23/2012 |
|---|---|---|---|---|---|---|---|---|
| CAS NO. | COMPOUND | UNITS: | | | | | | |
| | SEMIVOLATILES | | | | | | | |
| 95-95-4 | 2,4,5-TRICHLOROPHENOL | ug/kg | 29 U | 28 U | 27 U | 30 U | 32 U | 30 U |
| 88-06-2 | 2,4,6-TRICHLOROPHENOL | ug/kg | 13 U | 12 U | 12 U | 13 U | 14 U | 13 U |
| 120-83-2 | 2,4-DICHLOROPHENOL | ug/kg | 16 U | 15 U | 15 U | 16 U | 17 U | 16 U |
| 105-67-9 | 2,4-DIMETHYLPHENOL | ug/kg | 23 U | 23 U | 22 U | 24 U | 25 U | 24 U |
| 51-28-5 | 2,4-DINITROPHENOL | ug/kg | 42 UJ | 41 UJ | 39 UJ | 43 UJ | 46 UJ | 43 UJ |
| 121-14-2 | 2,4-DINITROTOLUENE | ug/kg | 12 U | 12 U | 12 U | 13 U | 14 U | 13 U |
| 606-20-2 | 2,6-DINITROTOLUENE | ug/kg | 17 U | 17 U | 16 U | 17 U | 18 U | 17 U |
| 91-58-7 | 2-CHLORONAPHTHALENE | ug/kg | 9.4 U | 9.3 U | 8.8 U | 9.6 U | 10 U | 9.6 U |
| 95-57-8 | 2-CHLOROPHENOL | ug/kg | 22 U | 21 U | 20 U | 22 U | 24 U | 22 U |
| 91-57-6 | 2-METHYLNAPHTHALENE | ug/kg | 1000 | 10 U | 750 | 11 U | 11 U | 11 U |
| 95-48-7 | 2-METHYLPHENOL (O-CRESOL) | ug/kg | 22 U | 22 U | 21 U | 23 U | 24 U | 23 U |
| 88-74-4 | 2-NITROANILINE | ug/kg | 18 U | 18 U | 17 U | 19 U | 20 U | 19 U |
| 88-75-5 | 2-NITROPHENOL | ug/kg | 20 U | 20 U | 19 U | 20 U | 22 U | 20 U |
| 91-94-1 | 3,3'-DICHLOROBENZIDINE | ug/kg | 26 U | 26 U | 25 U | 27 U | 29 U | 27 U |
| 99-09-2 | 3-NITROANILINE | ug/kg | 26 U | 26 U | 25 U | 27 U | 29 U | 27 U |
| 534-52-1 | 4,6-DINITRO-2-METHYLPHENOL | ug/kg | 24 U | 23 U | 22 U | 24 U | 26 U | 24 U |
| 101-55-3 | 4-BROMOPHENYL PHENYL ETHER | ug/kg | 8 U | 7.9 U | 7.5 U | 8.2 U | 8.8 U | 8.2 U |
| 59-50-7 | 4-CHLORO-3-METHYLPHENOL | ug/kg | 18 U | 18 U | 17 U | 19 U | 20 U | 19 U |
| 106-47-8 | 4-CHLOROANILINE | ug/kg | 29 U | 29 U | 27 U | 30 U | 32 U | 30 U |
| 7005-72-3 | 4-CHLOROPHENYL PHENYL ETHER | ug/kg | 22 U | 22 U | 21 U | 23 U | 24 U | 23 U |
| 100-01-6 | 4-NITROANILINE | ug/kg | 53 U | 53 U | 50 U | 55 U | 58 U | 55 U |
| 100-02-7 | 4-NITROPHENOL | ug/kg | 76 U | 75 U | 72 U | 78 U | 83 U | 78 U |
| 83-32-9 | ACENAPHTHENE | ug/kg | 1900 | 11 U | 10000 | 12 U | 13 U | 12 U |
| 208-96-8 | ACENAPHTHYLENE | ug/kg | 140 J | 10 U | 720 | 11 U | 11 U | 11 U |
| 98-86-2 | ACETOPHENONE | ug/kg | 13 U | 12 U | 12 U | 13 U | 14 U | 13 U |
| 120-12-7 | ANTHRACENE | ug/kg | 630 | 8.3 U | 4300 | 8.6 U | 9.2 U | 8.6 U |
| 1912-24-9 | ATRAZINE | ug/kg | 22 U | 21 U | 20 U | 22 U | 24 U | 22 U |
| 100-52-7 | BENZALDEHYDE | ug/kg | 21 U | 21 U | 20 U | 22 U | 23 U | 22 U |
| 56-55-3 | BENZO(A)ANTHRACENE | ug/kg | 440 | 19 U | 5700 | 20 U | 21 U | 20 U |
| 50-32-8 | BENZO(A)PYRENE | ug/kg | 310 J | 8.8 U | 3500 | 9.1 U | 9.7 U | 9.1 U |
| 205-99-2 | BENZO(B)FLUORANTHENE | ug/kg | 220 J | 13 U | 3000 | 14 U | 15 U | 14 U |
| 191-24-2 | BENZO(G,H,I)PERYLENE | ug/kg | 110 J | 16 U | 1600 | 17 U | 18 U | 17 U |
| 207-08-9 | BENZO(K)FLUORANTHENE | ug/kg | 100 J | 19 U | 830 | 20 U | 21 U | 20 U |
| 85-68-7 | BENZYL BUTYL PHTHALATE | ug/kg | 20 U | 19 U | 19 U | 20 U | 22 U | 20 U |
| 92-52-4 | BIPHENYL (DIPHENYL) | ug/kg | 16 U | 15 U | 15 U | 16 U | 17 U | 16 U |
| 111-91-1 | BIS(2-CHLOROETHOXY) METHANE | ug/kg | 24 U | 23 U | 22 U | 24 U | 26 U | 24 U |
| 111-44-4 | BIS(2-CHLOROETHYL) ETHER | ug/kg | 20 U | 19 U | 19 U | 20 U | 22 U | 20 U |
| 108-60-1 | BIS(2-CHLOROISOPROPYL) ETHER | ug/kg | 17 U | 17 U | 16 U | 17 U | 19 U | 17 U |
| 117-81-7 | BIS(2-ETHYLHEXYL) PHTHALATE | ug/kg | 150 J | 14 U | 140 J | 15 U | 16 U | 15 U |
| 105-60-2 | CAPROLACTAM | ug/kg | 19 U | 19 U | 18 U | 20 U | 21 U | 20 U |
| 86-74-8 | CARBAZOLE | ug/kg | 9 U | 8.9 U | 8.5 U | 9.2 U | 9.8 U | 9.2 U |
| 218-01-9 | CHRYSENE | ug/kg | 430 | 18 U | 5100 | 19 U | 20 U | 19 U |
| MEPH1314 | CRESOLS, M & P | ug/kg | 21 U | 21 U | 20 U | 22 U | 23 U | 22 U |
| 53-70-3 | DIBENZ(A,H)ANTHRACENE | ug/kg | 12 U | 12 U | 390 | 12 U | 13 U | 12 U |
| 132-64-9 | DIBENZOFURAN | ug/kg | 100 J | 16 U | 750 | 16 U | 18 U | 16 U |
| 84-66-2 | DIETHYL PHTHALATE | ug/kg | 6.4 U | 6.3 U | 6 U | 6.6 U | 7 U | 6.6 U |
| 131-11-3 | DIMETHYL PHTHALATE | ug/kg | 11 U | 11 U | 10 U | 11 U | 12 U | 11 U |
| 84-74-2 | DI-N-BUTYL PHTHALATE | ug/kg | 32 U | 32 U | 30 U | 33 U | 35 U | 33 U |
| 117-84-0 | DI-N-OCTYLPHTHALATE | ug/kg | 4.7 U | 4.6 U | 4.4 U | 4.8 U | 5.1 U | 4.8 U |
| 206-44-0 | FLUORANTHENE | ug/kg | 550 | 8.2 U | 9600 | 8.5 U | 9 U | 8.5 U |
| 86-73-7 | FLUORENE | ug/kg | 710 | 15 U | 3000 | 16 U | 17 U | 16 U |
| 118-74-1 | HEXACHLOROBENZENE | ug/kg | 17 U | 17 U | 16 U | 17 U | 18 U | 17 U |
| 87-68-3 | HEXACHLOROBUTADIENE | ug/kg | 15 U | 15 U | 14 U | 15 U | 16 U | 15 U |
| 77-47-4 | HEXACHLOROCYCLOPENTADIENE | ug/kg | 10 U | 9.9 U | 9.4 U | 10 U | 11 U | 10 U |
| 67-72-1 | HEXACHLOROETHANE | ug/kg | 18 U | 18 U | 17 U | 19 U | 20 U | 19 U |
| 193-39-5 | INDENO(1,2,3-C,D)PYRENE | ug/kg | 88 J | 14 U | 1500 | 14 U | 15 U | 14 U |
| 78-59-1 | ISOPHORONE | ug/kg | 14 U | 13 U | 13 U | 14 U | 15 U | 14 U |
| 91-20-3 | NAPHTHALENE | ug/kg | 74 J | 14 U | 580 | 15 U | 67 J | 15 U |
| 98-95-3 | NITROBENZENE | ug/kg | 16 U | 15 U | 15 U | 16 U | 17 U | 16 U |
| 621-64-7 | N-NITROSODI-N-PROPYLAMINE | ug/kg | 21 U | 20 U | 19 U | 21 U | 23 U | 21 U |
| 86-30-6 | N-NITROSODIPHENYLAMINE | ug/kg | 9.9 U | 9.7 U | 9.3 U | 10 U | 11 U | 10 U |
| 87-86-5 | PENTACHLOROPHENOL | ug/kg | 28 U | 28 U | 26 U | 29 U | 31 U | 29 U |
| 85-01-8 | PHENANTHRENE | ug/kg | 2000 | 11 U | 9400 | 11 U | 12 U | 11 U |
| 108-95-2 | PHENOL | ug/kg | 9.5 U | 9.4 U | 8.9 U | 9.7 U | 10 U | 9.7 U |
| 129-00-0 | PYRENE | ug/kg | 800 | 9.7 U | 13000 | 10 U | 11 U | 10 U |

| Consolidated Edison<br>Farrington Street Remedial Investigation<br>Validated Soil Analytical Data<br>SDG: C3769 | | Location ID:<br>Sample ID:<br>Lab Sample Id:<br>Depth:<br>Source:<br>SDG:<br>Matrix:<br>Sampled:<br>Validated: | CMW-33<br>CMW-33(18-19)<br>C3769-01<br>18 - 19 ft<br>CTECH<br>C3769<br>SOIL<br>9/12/2011<br>1/23/2012 | CMW-33<br>CMW-33(41-43)<br>C3769-02<br>41 - 43 ft<br>CTECH<br>C3769<br>SOIL<br>9/13/2011<br>1/23/2012 | CMW-35<br>CMW-35(9-11)<br>C3769-03<br>9 - 11 ft<br>CTECH<br>C3769<br>SOIL<br>9/14/2011<br>1/23/2012 | CMW-35<br>CMW-35(31-33)<br>C3769-04<br>31 - 33 ft<br>CTECH<br>C3769<br>SOIL<br>9/15/2011<br>1/23/2012 | CMW-37<br>CMW-37(15-17)<br>C3769-11<br>15 - 17 ft<br>CTECH<br>C3769<br>SOIL<br>9/19/2011<br>1/23/2012 | CMW-37<br>CMW-37(39-41)<br>C3769-12<br>39 - 41 ft<br>CTECH<br>C3769<br>SOIL<br>9/19/2011<br>1/23/2012 |
|---|---|---|---|---|---|---|---|---|
| CAS NO. | COMPOUND | UNITS: | | | | | | |
| | INORGANICS | | | | | | | |
| 7429-90-5 | ALUMINUM | mg/kg | 4030 | 3000 | 4260 | 11100 | 10900 | 1580 |
| 7440-36-0 | ANTIMONY | mg/kg | 0.472 U | 0.472 U | 0.502 U | 0.478 U | 0.579 U | 0.509 U |
| 7440-38-2 | ARSENIC | mg/kg | 0.853 | 0.543 J | 1.38 | 1.84 | 3.91 | 0.752 J |
| 7440-39-3 | BARIUM | mg/kg | 45 J | 29.4 J | 23.3 J | 136 J | 30.2 J | 12.8 J |
| 7440-41-7 | BERYLLIUM | mg/kg | 0.136 J | 0.12 J | 0.179 J | 0.351 | 0.469 | 0.12 J |
| 7440-43-9 | CADMIUM | mg/kg | 0.063 J | 0.051 U | 0.054 U | 0.083 J | 0.141 J | 0.055 U |
| 7440-70-2 | CALCIUM | mg/kg | 311 | 438 | 446 | 1860 | 494 | 324 |
| 7440-47-3 | CHROMIUM, TOTAL | mg/kg | 11.5 | 13.4 | 9.07 | 36.4 | 17.4 | 5.51 |
| 7440-48-4 | COBALT | mg/kg | 7.44 | 5.99 | 5.03 | 13.5 | 5.06 | 2.43 |
| 7440-50-8 | COPPER | mg/kg | 10.1 | 6.77 | 14.1 | 19.5 | 9.48 | 3.48 |
| 7439-89-6 | IRON | mg/kg | 13400 | 8320 | 10200 | 23000 | 17000 | 5660 |
| 7439-92-1 | LEAD | mg/kg | 3.12 | 3.15 | 5.27 | 6.36 | 39.2 | 2.94 |
| 7439-95-4 | MAGNESIUM | mg/kg | 1520 | 1190 | 1250 | 5930 | 2140 | 591 |
| 7439-96-5 | MANGANESE | mg/kg | 115 | 205 | 78.8 | 255 | 84.4 | 46.4 |
| 7439-97-6 | MERCURY | mg/kg | 0.002 U | 0.002 U | 0.002 U | 0.002 U | 0.049 | 0.002 U |
| 7440-02-0 | NICKEL | mg/kg | 11.9 | 11.5 | 8.97 | 36.2 | 13.4 | 4.02 |
| 7440-09-7 | POTASSIUM | mg/kg | 1680 J | 755 J | 824 J | 5590 J | 733 J | 435 J |
| 7782-49-2 | SELENIUM | mg/kg | 0.375 J | 0.346 U | 0.368 U | 0.35 U | 1.09 | 0.373 U |
| 7440-22-4 | SILVER | mg/kg | 0.127 U | 0.126 U | 0.135 U | 0.128 U | 0.155 U | 0.136 U |
| 7440-23-5 | SODIUM | mg/kg | 192 J | 263 J | 324 J | 1460 J | 578 J | 284 J |
| 7440-28-0 | THALLIUM | mg/kg | 0.228 U | 0.228 U | 0.242 U | 0.231 U | 0.279 U | 0.245 U |
| 7440-62-2 | VANADIUM | mg/kg | 14.8 | 11.2 | 12.7 | 38 | 22.9 | 7.94 |
| 7440-66-6 | ZINC | mg/kg | 25 | 17.7 | 20.2 | 56.6 | 78.7 | 12.5 |
| 57-12-5 | CYANIDE | mg/kg | 0.057 J | 0.04 UJ | 0.038 UJ | 0.088 J | 0.452 J | 0.042 J |

| Consolidated Edison<br>Farrington Street Remedial Investigation<br>Validated Soil Analytical Data<br>SDG: C3769 | | Location ID:<br>Sample ID:<br>Lab Sample Id:<br>Depth:<br>Source:<br>SDG:<br>Matrix:<br>Sampled:<br>Validated: | MW-27<br>MW-27(13-15)<br>C3769-05<br>13 - 15 ft<br>CTECH<br>C3769<br>SOIL<br>9/15/2011<br>1/23/2012 | MW-27<br>MW-27(23-25)<br>C3769-06<br>23 - 25 ft<br>CTECH<br>C3769<br>SOIL<br>9/15/2011<br>1/23/2012 | MW-28<br>MW-28(11-13)<br>C3769-07<br>11 - 13 ft<br>CTECH<br>C3769<br>SOIL<br>9/16/2011<br>1/23/2012 | MW-28<br>MW-28(23-25)<br>C3769-08<br>23 - 25 ft<br>CTECH<br>C3769<br>SOIL<br>9/16/2011<br>1/23/2012 |
|---|---|---|---|---|---|---|
| CAS NO. | COMPOUND | UNITS: | | | | |
| | VOLATILES | | | | | |
| 71-55-6 | 1,1,1-TRICHLOROETHANE | ug/kg | 1.1 U | 1.2 U | 1 U | 1 U |
| 79-34-5 | 1,1,2,2-TETRACHLOROETHANE | ug/kg | 0.58 U | 0.6 U | 0.53 U | 0.53 U |
| 76-13-1 | 1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE | ug/kg | 1.7 UJ | 1.7 UJ | 1.5 UJ | 1.5 UJ |
| 79-00-5 | 1,1,2-TRICHLOROETHANE | ug/kg | 1.1 U | 1.2 U | 1 U | 1 U |
| 75-34-3 | 1,1-DICHLOROETHANE | ug/kg | 1.2 U | 1.2 U | 1.1 U | 1.1 U |
| 75-35-4 | 1,1-DICHLOROETHENE | ug/kg | 1.8 UJ | 1.9 UJ | 1.7 UJ | 1.7 UJ |
| 120-82-1 | 1,2,4-TRICHLOROBENZENE | ug/kg | 0.88 U | 0.92 U | 0.8 U | 0.81 U |
| 96-12-8 | 1,2-DIBROMO-3-CHLOROPROPANE | ug/kg | 1.1 U | 1.1 U | 1 U | 1 U |
| 106-93-4 | 1,2-DIBROMOETHANE | ug/kg | 0.8 U | 0.84 U | 0.73 U | 0.74 U |
| 95-50-1 | 1,2-DICHLOROBENZENE | ug/kg | 0.78 U | 0.81 U | 0.71 U | 0.72 U |
| 107-06-2 | 1,2-DICHLOROETHANE | ug/kg | 0.8 U | 0.84 U | 0.73 U | 0.74 U |
| 78-87-5 | 1,2-DICHLOROPROPANE | ug/kg | 0.33 U | 0.34 U | 0.3 U | 0.3 U |
| 541-73-1 | 1,3-DICHLOROBENZENE | ug/kg | 0.46 U | 0.48 U | 0.42 U | 0.43 U |
| 106-46-7 | 1,4-DICHLOROBENZENE | ug/kg | 0.51 U | 0.54 U | 0.47 U | 0.47 U |
| 591-78-6 | 2-HEXANONE | ug/kg | 4.9 U | 5.1 U | 4.5 U | 4.5 U |
| 67-64-1 | ACETONE | ug/kg | 3.8 U | 4 U | 3.5 U | 3.5 U |
| 71-43-2 | BENZENE | ug/kg | 0.48 U | 0.5 U | 0.44 U | 0.44 U |
| 75-27-4 | BROMODICHLOROMETHANE | ug/kg | 0.78 U | 0.81 U | 0.71 U | 0.72 U |
| 75-25-2 | BROMOFORM | ug/kg | 0.93 U | 0.97 U | 0.85 U | 0.86 U |
| 74-83-9 | BROMOMETHANE | ug/kg | 3.1 UJ | 3.2 UJ | 2.8 UJ | 2.8 UJ |
| 75-15-0 | CARBON DISULFIDE | ug/kg | 1.3 UJ | 1.4 UJ | 1.2 UJ | 1.2 UJ |
| 56-23-5 | CARBON TETRACHLORIDE | ug/kg | 1.2 U | 1.3 U | 1.1 U | 1.1 U |
| 108-90-7 | CHLOROBENZENE | ug/kg | 0.63 U | 0.66 U | 0.57 U | 0.58 U |
| 75-00-3 | CHLOROETHANE | ug/kg | 1.8 UJ | 1.8 UJ | 1.6 UJ | 1.6 UJ |
| 67-66-3 | CHLOROFORM | ug/kg | 0.93 U | 0.97 U | 0.85 U | 0.86 U |
| 74-87-3 | CHLOROMETHANE | ug/kg | 1.1 U | 1.1 U | 0.98 U | 0.99 U |
| 156-59-2 | CIS-1,2-DICHLOROETHYLENE | ug/kg | 1.1 U | 1.2 U | 1 U | 1 U |
| 10061-01-5 | CIS-1,3-DICHLOROPROPENE | ug/kg | 0.9 U | 0.94 U | 0.82 U | 0.83 U |
| 110-82-7 | CYCLOHEXANE | ug/kg | 1.3 U | 1.3 U | 1.2 U | 1.2 U |
| 124-48-1 | DIBROMOCHLOROMETHANE | ug/kg | 0.68 U | 0.71 U | 0.62 U | 0.62 U |
| 75-71-8 | DICHLORODIFLUOROMETHANE | ug/kg | 0.82 U | 0.85 U | 0.74 U | 0.75 U |
| 100-41-4 | ETHYLBENZENE | ug/kg | 0.78 U | 0.81 U | 0.71 U | 0.72 U |
| 98-82-8 | ISOPROPYLBENZENE (CUMENE) | ug/kg | 0.6 U | 0.63 U | 0.55 U | 0.55 U |
| 79-20-9 | METHYL ACETATE | ug/kg | 1.9 U | 2 U | 1.7 U | 1.7 U |
| 78-93-3 | METHYL ETHYL KETONE (2-BUTANONE) | ug/kg | 3.9 U | 4.1 U | 3.6 U | 3.6 U |
| 108-10-1 | METHYL ISOBUTYL KETONE | ug/kg | 3.7 U | 3.8 U | 3.3 U | 3.4 U |
| 108-87-2 | METHYLCYCLOHEXANE | ug/kg | 1.3 U | 1.4 U | 1.2 U | 1.2 U |
| 75-09-2 | METHYLENE CHLORIDE | ug/kg | 5.2 J | 4.9 J | 1.6 U | 5.2 J |
| 95-47-6 | O-XYLENE (1,2-DIMETHYLBENZENE) | ug/kg | 0.85 U | 0.89 U | 0.78 U | 0.79 U |
| 100-42-5 | STYRENE | ug/kg | 0.56 U | 0.59 U | 0.52 U | 0.52 U |
| 1634-04-4 | TERT-BUTYL METHYL ETHER | ug/kg | 1.2 U | 1.3 U | 1.1 U | 1.1 U |
| 127-18-4 | TETRACHLOROETHYLENE(PCE) | ug/kg | 1.3 U | 1.3 U | 1.2 U | 1.2 U |
| 108-88-3 | TOLUENE | ug/kg | 0.8 U | 0.84 U | 0.73 U | 0.74 U |
| 156-60-5 | TRANS-1,2-DICHLOROETHENE | ug/kg | 0.87 UJ | 0.9 UJ | 0.79 UJ | 0.8 UJ |
| 10061-02-6 | TRANS-1,3-DICHLOROPROPENE | ug/kg | 0.99 U | 1 U | 0.9 U | 0.91 U |
| 79-01-6 | TRICHLOROETHYLENE (TCE) | ug/kg | 1.1 U | 1.1 U | 0.98 U | 0.99 U |
| 75-69-4 | TRICHLOROFLUOROMETHANE | ug/kg | 1.7 UJ | 1.7 UJ | 1.5 UJ | 1.5 UJ |
| 75-01-4 | VINYL CHLORIDE | ug/kg | 1.5 U | 1.6 U | 1.4 U | 1.4 U |
| XYLMP | M,P-XYLENE (SUM OF ISOMERS) | ug/kg | 0.9 U | 0.94 U | 0.82 U | 0.83 U |

| Consolidated Edison<br>Farrington Street Remedial Investigation<br>Validated Soil Analytical Data<br>SDG: C3769 | | Location ID:<br>Sample ID:<br>Lab Sample Id:<br>Depth:<br>Source:<br>SDG:<br>Matrix:<br>Sampled:<br>Validated: | MW-27<br>MW-27(13-15)<br>C3769-05<br>13 - 15 ft<br>CTECH<br>C3769<br>SOIL<br>9/15/2011<br>1/23/2012 | MW-27<br>MW-27(23-25)<br>C3769-06<br>23 - 25 ft<br>CTECH<br>C3769<br>SOIL<br>9/15/2011<br>1/23/2012 | MW-28<br>MW-28(11-13)<br>C3769-07<br>11 - 13 ft<br>CTECH<br>C3769<br>SOIL<br>9/16/2011<br>1/23/2012 | MW-28<br>MW-28(23-25)<br>C3769-08<br>23 - 25 ft<br>CTECH<br>C3769<br>SOIL<br>9/16/2011<br>1/23/2012 |
|---|---|---|---|---|---|---|
| CAS NO. | COMPOUND | UNITS: | | | | |
| | SEMIVOLATILES | | | | | |
| 95-95-4 | 2,4,5-TRICHLOROPHENOL | ug/kg | 29 U | 31 U | 27 U | 27 U |
| 88-06-2 | 2,4,6-TRICHLOROPHENOL | ug/kg | 13 U | 13 U | 12 U | 12 U |
| 120-83-2 | 2,4-DICHLOROPHENOL | ug/kg | 16 U | 17 U | 15 U | 15 U |
| 105-67-9 | 2,4-DIMETHYLPHENOL | ug/kg | 24 U | 25 U | 22 U | 22 U |
| 51-28-5 | 2,4-DINITROPHENOL | ug/kg | 42 UJ | 45 UJ | 39 UJ | 39 UJ |
| 121-14-2 | 2,4-DINITROTOLUENE | ug/kg | 13 U | 13 U | 12 U | 12 U |
| 606-20-2 | 2,6-DINITROTOLUENE | ug/kg | 17 U | 18 U | 16 U | 16 U |
| 91-58-7 | 2-CHLORONAPHTHALENE | ug/kg | 9.5 U | 10 U | 8.7 U | 8.8 U |
| 95-57-8 | 2-CHLOROPHENOL | ug/kg | 22 U | 23 U | 20 U | 20 U |
| 91-57-6 | 2-METHYLNAPHTHALENE | ug/kg | 10 U | 11 U | 9.6 U | 9.8 U |
| 95-48-7 | 2-METHYLPHENOL (O-CRESOL) | ug/kg | 23 U | 24 U | 21 U | 21 U |
| 88-74-4 | 2-NITROANILINE | ug/kg | 18 U | 19 U | 17 U | 17 U |
| 88-75-5 | 2-NITROPHENOL | ug/kg | 20 U | 21 U | 18 U | 19 U |
| 91-94-1 | 3,3'-DICHLOROBENZIDINE | ug/kg | 27 U | 28 U | 25 U | 25 U |
| 99-09-2 | 3-NITROANILINE | ug/kg | 27 U | 28 U | 25 U | 25 U |
| 534-52-1 | 4,6-DINITRO-2-METHYLPHENOL | ug/kg | 24 U | 25 U | 22 U | 22 U |
| 101-55-3 | 4-BROMOPHENYL PHENYL ETHER | ug/kg | 8.1 U | 8.5 U | 7.5 U | 7.6 U |
| 59-50-7 | 4-CHLORO-3-METHYLPHENOL | ug/kg | 18 U | 19 U | 17 U | 17 U |
| 106-47-8 | 4-CHLOROANILINE | ug/kg | 29 U | 31 U | 27 U | 27 U |
| 7005-72-3 | 4-CHLOROPHENYL PHENYL ETHER | ug/kg | 23 U | 24 U | 21 U | 21 U |
| 100-01-6 | 4-NITROANILINE | ug/kg | 54 U | 57 U | 50 U | 50 U |
| 100-02-7 | 4-NITROPHENOL | ug/kg | 77 U | 81 U | 71 U | 72 U |
| 83-32-9 | ACENAPHTHENE | ug/kg | 12 U | 12 U | 11 U | 11 U |
| 208-96-8 | ACENAPHTHYLENE | ug/kg | 10 U | 11 U | 9.6 U | 9.8 U |
| 98-86-2 | ACETOPHENONE | ug/kg | 13 U | 13 U | 12 U | 12 U |
| 120-12-7 | ANTHRACENE | ug/kg | 8.5 U | 8.9 U | 7.8 U | 7.9 U |
| 1912-24-9 | ATRAZINE | ug/kg | 22 U | 23 U | 20 U | 20 U |
| 100-52-7 | BENZALDEHYDE | ug/kg | 22 U | 23 U | 20 U | 20 U |
| 56-55-3 | BENZO(A)ANTHRACENE | ug/kg | 20 U | 21 U | 18 U | 18 U |
| 50-32-8 | BENZO(A)PYRENE | ug/kg | 9 U | 9.5 U | 8.3 U | 8.4 U |
| 205-99-2 | BENZO(B)FLUORANTHENE | ug/kg | 14 U | 14 U | 13 U | 13 U |
| 191-24-2 | BENZO(G,H,I)PERYLENE | ug/kg | 17 U | 18 U | 15 U | 16 U |
| 207-08-9 | BENZO(K)FLUORANTHENE | ug/kg | 20 U | 21 U | 18 U | 18 U |
| 85-68-7 | BENZYL BUTYL PHTHALATE | ug/kg | 20 U | 21 U | 18 U | 19 U |
| 92-52-4 | BIPHENYL (DIPHENYL) | ug/kg | 16 U | 17 U | 14 U | 15 U |
| 111-91-1 | BIS(2-CHLOROETHOXY) METHANE | ug/kg | 24 U | 25 U | 22 U | 22 U |
| 111-44-4 | BIS(2-CHLOROETHYL) ETHER | ug/kg | 20 U | 21 U | 18 U | 19 U |
| 108-60-1 | BIS(2-CHLOROISOPROPYL) ETHER | ug/kg | 17 U | 18 U | 16 U | 16 U |
| 117-81-7 | BIS(2-ETHYLHEXYL) PHTHALATE | ug/kg | 15 U | 15 U | 14 U | 14 U |
| 105-60-2 | CAPROLACTAM | ug/kg | 19 U | 20 U | 18 U | 18 U |
| 86-74-8 | CARBAZOLE | ug/kg | 9.1 U | 9.6 U | 8.4 U | 8.5 U |
| 218-01-9 | CHRYSENE | ug/kg | 19 U | 20 U | 17 U | 18 U |
| MEPH1314 | CRESOLS, M & P | ug/kg | 22 U | 23 U | 20 U | 20 U |
| 53-70-3 | DIBENZ(A,H)ANTHRACENE | ug/kg | 12 U | 13 U | 11 U | 11 U |
| 132-64-9 | DIBENZOFURAN | ug/kg | 16 U | 17 U | 15 U | 15 U |
| 84-66-2 | DIETHYL PHTHALATE | ug/kg | 6.5 U | 6.8 U | 6 U | 6 U |
| 131-11-3 | DIMETHYL PHTHALATE | ug/kg | 11 U | 12 U | 10 U | 10 U |
| 84-74-2 | DI-N-BUTYL PHTHALATE | ug/kg | 33 U | 34 U | 30 U | 30 U |
| 117-84-0 | DI-N-OCTYLPHTHALATE | ug/kg | 4.7 U | 5 U | 4.4 U | 4.4 U |
| 206-44-0 | FLUORANTHENE | ug/kg | 8.3 U | 8.8 U | 7.7 U | 7.8 U |
| 86-73-7 | FLUORENE | ug/kg | 16 U | 17 U | 14 U | 15 U |
| 118-74-1 | HEXACHLOROBENZENE | ug/kg | 17 U | 18 U | 16 U | 16 U |
| 87-68-3 | HEXACHLOROBUTADIENE | ug/kg | 15 U | 16 U | 14 U | 14 U |
| 77-47-4 | HEXACHLOROCYCLOPENTADIENE | ug/kg | 10 U | 11 U | 9.3 U | 9.4 U |
| 67-72-1 | HEXACHLOROETHANE | ug/kg | 19 U | 20 U | 17 U | 17 U |
| 193-39-5 | INDENO(1,2,3-C,D)PYRENE | ug/kg | 14 U | 15 U | 13 U | 13 U |
| 78-59-1 | ISOPHORONE | ug/kg | 14 U | 14 U | 13 U | 13 U |
| 91-20-3 | NAPHTHALENE | ug/kg | 14 U | 15 U | 13 U | 13 U |
| 98-95-3 | NITROBENZENE | ug/kg | 16 U | 17 U | 14 U | 15 U |
| 621-64-7 | N-NITROSODI-N-PROPYLAMINE | ug/kg | 21 U | 22 U | 19 U | 20 U |
| 86-30-6 | N-NITROSODIPHENYLAMINE | ug/kg | 10 U | 11 U | 9.2 U | 9.3 U |
| 87-86-5 | PENTACHLOROPHENOL | ug/kg | 28 U | 30 U | 26 U | 26 U |
| 85-01-8 | PHENANTHRENE | ug/kg | 11 U | 12 U | 10 U | 10 U |
| 108-95-2 | PHENOL | ug/kg | 9.6 U | 10 U | 8.8 U | 8.9 U |
| 129-00-0 | PYRENE | ug/kg | 10 U | 11 U | 9.2 U | 9.3 U |

| Consolidated Edison<br>Farrington Street Remedial Investigation<br>Validated Soil Analytical Data<br>SDG: C3769 | | Location ID:<br>Sample ID:<br>Lab Sample Id:<br>Depth:<br>Source:<br>SDG:<br>Matrix:<br>Sampled:<br>Validated: | MW-27<br>MW-27(13-15)<br>C3769-05<br>13 - 15 ft<br>CTECH<br>C3769<br>SOIL<br>9/15/2011<br>1/23/2012 | MW-27<br>MW-27(23-25)<br>C3769-06<br>23 - 25 ft<br>CTECH<br>C3769<br>SOIL<br>9/15/2011<br>1/23/2012 | MW-28<br>MW-28(11-13)<br>C3769-07<br>11 - 13 ft<br>CTECH<br>C3769<br>SOIL<br>9/16/2011<br>1/23/2012 | MW-28<br>MW-28(23-25)<br>C3769-08<br>23 - 25 ft<br>CTECH<br>C3769<br>SOIL<br>9/16/2011<br>1/23/2012 |
|---|---|---|---|---|---|---|
| CAS NO. | COMPOUND | UNITS: | | | | |
| | INORGANICS | | | | | |
| 7429-90-5 | ALUMINUM | mg/kg | 12900 | 5060 | 3270 | 4250 |
| 7440-36-0 | ANTIMONY | mg/kg | 0.546 U | 0.526 U | 0.464 U | 0.653 U |
| 7440-38-2 | ARSENIC | mg/kg | 0.851 J | 0.883 J | 0.906 | 1.51 |
| 7440-39-3 | BARIUM | mg/kg | 171 J | 56.8 J | 35.4 J | 46.7 J |
| 7440-41-7 | BERYLLIUM | mg/kg | 0.374 | 0.176 J | 0.119 J | 0.168 J |
| 7440-43-9 | CADMIUM | mg/kg | 0.106 J | 0.056 U | 0.05 U | 0.1 J |
| 7440-70-2 | CALCIUM | mg/kg | 1260 | 1060 | 596 | 714 |
| 7440-47-3 | CHROMIUM, TOTAL | mg/kg | 33.3 | 18.2 | 9.43 | 19.6 |
| 7440-48-4 | COBALT | mg/kg | 15.7 | 6.48 | 4 | 6.94 |
| 7440-50-8 | COPPER | mg/kg | 21 | 12.2 | 11.4 | 18 |
| 7439-89-6 | IRON | mg/kg | 29700 | 13600 | 9770 | 17000 |
| 7439-92-1 | LEAD | mg/kg | 7.12 | 4.47 | 2.96 | 4.92 |
| 7439-95-4 | MAGNESIUM | mg/kg | 5610 | 2340 | 1170 | 1590 |
| 7439-96-5 | MANGANESE | mg/kg | 390 | 211 | 89.7 | 302 |
| 7439-97-6 | MERCURY | mg/kg | 0.002 U | 0.002 U | 0.002 U | 0.002 U |
| 7440-02-0 | NICKEL | mg/kg | 28.2 | 18.9 | 8.4 | 15.8 |
| 7440-09-7 | POTASSIUM | mg/kg | 7380 J | 2120 J | 1260 J | 1550 J |
| 7782-49-2 | SELENIUM | mg/kg | 0.4 U | 0.385 U | 0.561 J | 0.764 J |
| 7440-22-4 | SILVER | mg/kg | 0.146 U | 0.141 U | 0.124 U | 0.175 U |
| 7440-23-5 | SODIUM | mg/kg | 315 J | 352 J | 299 J | 384 J |
| 7440-28-0 | THALLIUM | mg/kg | 0.263 U | 0.254 U | 0.224 U | 0.315 U |
| 7440-62-2 | VANADIUM | mg/kg | 45.8 | 20.6 | 12.3 | 20.6 |
| 7440-66-6 | ZINC | mg/kg | 70.5 | 26.9 | 18.3 | 26.9 |
| 57-12-5 | CYANIDE | mg/kg | 0.041 UJ | 0.043 UJ | 0.038 UJ | 0.069 J |

| Consolidated Edison<br>Farrington Street Remedial Investigation<br>Validated Soil Analytical Data<br>SDG: C3816 | | Location ID:<br>Sample ID:<br>Lab Sample Id:<br>Depth:<br>Source:<br>SDG:<br>Matrix:<br>Sampled:<br>Validated: | CMW-36<br>CMW-36(12-14)<br>C3816-05<br>12 - 14 ft<br>CTECH<br>C3816<br>SOIL<br>9/23/2011<br>1/23/2012 | CMW-36<br>CMW-36(24-26)<br>C3816-06<br>24 - 26 ft<br>CTECH<br>C3816<br>SOIL<br>9/23/2011<br>1/23/2012 | MW-25<br>MW-25(13-15)<br>C3816-01<br>13 - 15 ft<br>CTECH<br>C3816<br>SOIL<br>9/20/2011<br>1/23/2012 | MW-25<br>MW-25(31-33)<br>C3816-02<br>31 - 33 ft<br>CTECH<br>C3816<br>SOIL<br>9/20/2011<br>1/23/2012 | MW-25<br>MW-25(43-45)<br>C3816-03<br>43 - 45 ft<br>CTECH<br>C3816<br>SOIL<br>9/21/2011<br>1/23/2012 | MW-25<br>MW-25(53-55)<br>C3816-04<br>53 - 55 ft<br>CTECH<br>C3816<br>SOIL<br>9/21/2011<br>1/23/2012 |
|---|---|---|---|---|---|---|---|---|
| CAS NO. | COMPOUND | UNITS: | | | | | | |
| | VOLATILES | | | | | | | |
| 71-55-6 | 1,1,1-TRICHLOROETHANE | ug/kg | 1.1 U | 1.1 U | 1.1 U | 190 U | 89 U | 0.96 U |
| 79-34-5 | 1,1,2,2-TETRACHLOROETHANE | ug/kg | 0.55 U | 0.59 U | 0.56 UJ | 150 U | 69 U | 0.5 U |
| 76-13-1 | 1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE | ug/kg | 1.6 U | 1.7 U | 1.6 U | 220 U | 100 U | 1.5 U |
| 79-00-5 | 1,1,2-TRICHLOROETHANE | ug/kg | 1.1 U | 1.2 U | 1.1 U | 180 U | 85 U | 0.98 U |
| 75-34-3 | 1,1-DICHLOROETHANE | ug/kg | 1.1 U | 1.2 U | 1.2 U | 170 U | 80 U | 1 U |
| 75-35-4 | 1,1-DICHLOROETHENE | ug/kg | 1.8 U | 1.9 U | 1.8 U | 230 U | 100 U | 1.6 U |
| 120-82-1 | 1,2,4-TRICHLOROBENZENE | ug/kg | 0.84 U | 0.9 U | 0.86 UJ | 300 U | 140 U | 0.77 U |
| 96-12-8 | 1,2-DIBROMO-3-CHLOROPROPANE | ug/kg | 1 U | 1.1 U | 1.1 UJ | 220 U | 100 U | 0.95 U |
| 106-93-4 | 1,2-DIBROMOETHANE | ug/kg | 0.77 U | 0.83 U | 0.78 U | 200 U | 91 U | 0.7 U |
| 95-50-1 | 1,2-DICHLOROBENZENE | ug/kg | 0.75 U | 0.8 U | 0.76 UJ | 220 U | 100 U | 0.68 U |
| 107-06-2 | 1,2-DICHLOROETHANE | ug/kg | 0.77 U | 0.83 U | 0.78 U | 230 U | 110 U | 0.7 U |
| 78-87-5 | 1,2-DICHLOROPROPANE | ug/kg | 0.31 U | 0.34 U | 0.32 U | 220 U | 100 U | 0.28 U |
| 541-73-1 | 1,3-DICHLOROBENZENE | ug/kg | 0.45 U | 0.48 U | 0.45 UJ | 210 U | 96 U | 0.4 U |
| 106-46-7 | 1,4-DICHLOROBENZENE | ug/kg | 0.49 U | 0.53 U | 0.5 UJ | 160 U | 71 U | 0.45 U |
| 591-78-6 | 2-HEXANONE | ug/kg | 4.7 U | 5.1 U | 4.8 U | 940 U | 430 U | 4.3 U |
| 67-64-1 | ACETONE | ug/kg | 3.6 U | 3.9 U | 3.7 U | 1300 UJ | 610 UJ | 3.3 U |
| 71-43-2 | BENZENE | ug/kg | 0.46 U | 0.49 U | 0.47 U | 160 U | 71 U | 0.42 U |
| 75-27-4 | BROMODICHLOROMETHANE | ug/kg | 0.75 U | 0.8 U | 0.76 U | 170 U | 80 U | 0.68 U |
| 75-25-2 | BROMOFORM | ug/kg | 0.89 U | 0.95 U | 0.91 U | 230 U | 100 U | 0.81 U |
| 74-83-9 | BROMOMETHANE | ug/kg | 3 U | 3.2 U | 3 U | 300 U | 140 U | 2.7 U |
| 75-15-0 | CARBON DISULFIDE | ug/kg | 1.3 U | 1.4 U | 1.3 U | 260 U | 120 U | 1.2 U |
| 56-23-5 | CARBON TETRACHLORIDE | ug/kg | 1.2 U | 1.3 U | 1.2 U | 300 U | 140 U | 1.1 U |
| 108-90-7 | CHLOROBENZENE | ug/kg | 0.6 U | 0.64 U | 0.61 U | 240 U | 110 U | 0.55 U |
| 75-00-3 | CHLOROETHANE | ug/kg | 1.7 U | 1.8 U | 1.7 U | 320 U | 150 U | 1.5 U |
| 67-66-3 | CHLOROFORM | ug/kg | 0.89 U | 0.95 U | 0.91 U | 170 U | 76 U | 0.81 U |
| 74-87-3 | CHLOROMETHANE | ug/kg | 1 U | 1.1 U | 1.1 U | 260 U | 120 U | 0.94 U |
| 156-59-2 | CIS-1,2-DICHLOROETHYLENE | ug/kg | 1.1 U | 1.1 U | 1.1 U | 170 U | 78 U | 0.97 U |
| 10061-01-5 | CIS-1,3-DICHLOROPROPENE | ug/kg | 0.87 U | 0.93 U | 0.88 U | 150 U | 69 U | 0.79 U |
| 110-82-7 | CYCLOHEXANE | ug/kg | 1.2 U | 1.3 U | 1.2 U | 270 U | 120 U | 1.1 U |
| 124-48-1 | DIBROMOCHLOROMETHANE | ug/kg | 0.65 U | 0.7 U | 0.66 U | 250 U | 120 U | 0.59 U |
| 75-71-8 | DICHLORODIFLUOROMETHANE | ug/kg | 0.78 U | 0.84 U | 0.8 U | 270 U | 120 U | 0.71 U |
| 100-41-4 | ETHYLBENZENE | ug/kg | 0.75 U | 0.8 U | 540 J | 2600 | 410 J | 0.68 U |
| 98-82-8 | ISOPROPYLBENZENE (CUMENE) | ug/kg | 0.58 U | 0.62 U | 400 J | 1300 J | 290 J | 0.52 U |
| 79-20-9 | METHYL ACETATE | ug/kg | 1.8 U | 1.9 U | 1.9 U | 400 U | 190 U | 1.7 U |
| 78-93-3 | METHYL ETHYL KETONE (2-BUTANONE) | ug/kg | 3.7 U | 4 U | 3.8 U | 640 U | 290 U | 3.4 U |
| 108-10-1 | METHYL ISOBUTYL KETONE | ug/kg | 3.5 U | 3.8 U | 3.6 U | 1000 U | 470 U | 3.2 U |
| 108-87-2 | METHYLCYCLOHEXANE | ug/kg | 1.3 U | 1.4 U | 120 J | 330 U | 150 U | 1.2 U |
| 75-09-2 | METHYLENE CHLORIDE | ug/kg | 1.7 U | 1.8 U | 1.7 U | 200 U | 91 U | 1.6 U |
| 95-47-6 | O-XYLENE (1,2-DIMETHYLBENZENE) | ug/kg | 0.82 U | 0.88 U | 84 J | 2000 J | 240 J | 0.74 U |
| 100-42-5 | STYRENE | ug/kg | 0.54 U | 0.58 U | 0.55 U | 170 U | 80 U | 0.49 U |
| 1634-04-4 | TERT-BUTYL METHYL ETHER | ug/kg | 1.2 U | 1.2 U | 1.2 U | 170 U | 78 U | 1 U |
| 127-18-4 | TETRACHLOROETHYLENE(PCE) | ug/kg | 1.2 U | 1.3 U | 1.2 U | 130 U | 60 U | 1.1 U |
| 108-88-3 | TOLUENE | ug/kg | 0.77 U | 0.83 U | 0.78 U | 180 U | 82 U | 0.7 U |
| 156-60-5 | TRANS-1,2-DICHLOROETHENE | ug/kg | 0.83 U | 0.89 U | 0.85 U | 200 U | 91 U | 0.75 U |
| 10061-02-6 | TRANS-1,3-DICHLOROPROPENE | ug/kg | 0.95 U | 1 U | 0.97 U | 140 U | 65 U | 0.86 U |
| 79-01-6 | TRICHLOROETHYLENE (TCE) | ug/kg | 1 U | 1.1 U | 1.1 U | 140 U | 62 U | 0.94 U |
| 75-69-4 | TRICHLOROFLUOROMETHANE | ug/kg | 1.6 U | 1.7 U | 1.6 U | 170 U | 78 U | 1.4 U |
| 75-01-4 | VINYL CHLORIDE | ug/kg | 1.5 U | 1.6 U | 1.5 U | 170 U | 76 U | 1.3 U |
| XYLMP | M,P-XYLENE (SUM OF ISOMERS) | ug/kg | 0.87 U | 0.93 U | 34 J | 1300 J | 210 U | 0.79 U |

| Consolidated Edison<br>Farrington Street Remedial Investigation<br>Validated Soil Analytical Data<br>SDG: C3816 | | Location ID:<br>Sample ID:<br>Lab Sample Id:<br>Depth:<br>Source:<br>SDG:<br>Matrix:<br>Sampled:<br>Validated: | CMW-36<br>CMW-36(12-14)<br>C3816-05<br>12 - 14 ft<br>CTECH<br>C3816<br>SOIL<br>9/23/2011<br>1/23/2012 | CMW-36<br>CMW-36(24-26)<br>C3816-06<br>24 - 26 ft<br>CTECH<br>C3816<br>SOIL<br>9/23/2011<br>1/23/2012 | MW-25<br>MW-25(13-15)<br>C3816-01<br>13 - 15 ft<br>CTECH<br>C3816<br>SOIL<br>9/20/2011<br>1/23/2012 | MW-25<br>MW-25(31-33)<br>C3816-02<br>31 - 33 ft<br>CTECH<br>C3816<br>SOIL<br>9/20/2011<br>1/23/2012 | MW-25<br>MW-25(43-45)<br>C3816-03<br>43 - 45 ft<br>CTECH<br>C3816<br>SOIL<br>9/21/2011<br>1/23/2012 | MW-25<br>MW-25(53-55)<br>C3816-04<br>53 - 55 ft<br>CTECH<br>C3816<br>SOIL<br>9/21/2011<br>1/23/2012 |
|---|---|---|---|---|---|---|---|---|
| CAS NO. | COMPOUND | UNITS: | | | | | | |
| | SEMIVOLATILES | | | | | | | |
| 95-95-4 | 2,4,5-TRICHLOROPHENOL | ug/kg | 28 U | 30 U | 87 U | 420 U | 79 U | 26 U |
| 88-06-2 | 2,4,6-TRICHLOROPHENOL | ug/kg | 12 U | 13 U | 38 U | 180 U | 34 U | 11 U |
| 120-83-2 | 2,4-DICHLOROPHENOL | ug/kg | 15 U | 16 U | 47 U | 230 U | 43 U | 14 U |
| 105-67-9 | 2,4-DIMETHYLPHENOL | ug/kg | 23 U | 24 U | 71 U | 340 U | 64 U | 21 U |
| 51-28-5 | 2,4-DINITROPHENOL | ug/kg | 41 UJ | 43 UJ | 130 UJ | 610 UJ | 110 UJ | 38 UJ |
| 121-14-2 | 2,4-DINITROTOLUENE | ug/kg | 12 U | 13 U | 38 U | 180 U | 34 U | 11 U |
| 606-20-2 | 2,6-DINITROTOLUENE | ug/kg | 16 U | 17 U | 51 U | 240 U | 46 U | 15 U |
| 91-58-7 | 2-CHLORONAPHTHALENE | ug/kg | 9.1 U | 9.7 U | 28 U | 140 U | 26 U | 8.4 U |
| 95-57-8 | 2-CHLOROPHENOL | ug/kg | 21 U | 23 U | 66 U | 320 U | 59 U | 19 U |
| 91-57-6 | 2-METHYLNAPHTHALENE | ug/kg | 10 U | 11 U | 45000 | 130000 | 26000 | 9.3 U |
| 95-48-7 | 2-METHYLPHENOL (O-CRESOL) | ug/kg | 22 U | 23 U | 68 U | 320 U | 61 U | 20 U |
| 88-74-4 | 2-NITROANILINE | ug/kg | 18 U | 19 U | 55 U | 270 U | 50 U | 16 U |
| 88-75-5 | 2-NITROPHENOL | ug/kg | 19 U | 21 U | 60 U | 290 U | 54 U | 18 U |
| 91-94-1 | 3,3'-DICHLOROBENZIDINE | ug/kg | 26 U | 27 U | 80 U | 380 U | 72 U | 24 U |
| 99-09-2 | 3-NITROANILINE | ug/kg | 26 U | 27 U | 80 U | 380 U | 72 U | 24 U |
| 534-52-1 | 4,6-DINITRO-2-METHYLPHENOL | ug/kg | 23 U | 24 U | 71 U | 340 U | 64 U | 21 U |
| 101-55-3 | 4-BROMOPHENYL PHENYL ETHER | ug/kg | 7.8 U | 8.3 U | 24 U | 120 U | 22 U | 7.2 U |
| 59-50-7 | 4-CHLORO-3-METHYLPHENOL | ug/kg | 18 U | 19 U | 55 U | 270 U | 50 U | 16 U |
| 106-47-8 | 4-CHLOROANILINE | ug/kg | 28 U | 30 U | 88 U | 420 U | 79 U | 26 U |
| 7005-72-3 | 4-CHLOROPHENYL PHENYL ETHER | ug/kg | 22 U | 23 U | 68 U | 320 U | 61 U | 20 U |
| 100-01-6 | 4-NITROANILINE | ug/kg | 52 U | 56 U | 160 U | 780 U | 150 U | 48 U |
| 100-02-7 | 4-NITROPHENOL | ug/kg | 74 U | 79 U | 230 U | 1100 U | 210 U | 69 U |
| 83-32-9 | ACENAPHTHENE | ug/kg | 11 U | 12 U | 31000 | 180000 | 89000 | 10 U |
| 208-96-8 | ACENAPHTHYLENE | ug/kg | 10 U | 11 U | 1600 | 14000 | 6700 | 46 J |
| 98-86-2 | ACETOPHENONE | ug/kg | 12 U | 13 U | 38 U | 180 U | 34 U | 11 U |
| 120-12-7 | ANTHRACENE | ug/kg | 8.2 U | 8.7 U | 16000 | 73000 | 33000 | 73 J |
| 1912-24-9 | ATRAZINE | ug/kg | 21 U | 23 U | 66 U | 320 U | 59 U | 19 U |
| 100-52-7 | BENZALDEHYDE | ug/kg | 21 U | 22 U | 65 U | 310 U | 59 U | 19 U |
| 56-55-3 | BENZO(A)ANTHRACENE | ug/kg | 19 U | 20 U | 12000 | 61000 | 29000 | 18 U |
| 50-32-8 | BENZO(A)PYRENE | ug/kg | 8.7 U | 9.2 U | 7300 | 42000 | 20000 | 8 U |
| 205-99-2 | BENZO(B)FLUORANTHENE | ug/kg | 13 U | 14 U | 7100 | 36000 | 17000 | 12 U |
| 191-24-2 | BENZO(G,H,I)PERYLENE | ug/kg | 16 U | 17 U | 3500 | 21000 | 8200 | 85 J |
| 207-08-9 | BENZO(K)FLUORANTHENE | ug/kg | 19 U | 20 U | 2000 | 14000 | 4700 | 17 U |
| 85-68-7 | BENZYL BUTYL PHTHALATE | ug/kg | 19 U | 20 U | 60 U | 290 U | 54 U | 18 U |
| 92-52-4 | BIPHENYL (DIPHENYL) | ug/kg | 15 U | 16 U | 1600 | 33000 | 17000 | 14 U |
| 111-91-1 | BIS(2-CHLOROETHOXY) METHANE | ug/kg | 23 U | 25 U | 72 U | 340 U | 65 U | 21 U |
| 111-44-4 | BIS(2-CHLOROETHYL) ETHER | ug/kg | 19 U | 20 U | 60 U | 290 U | 54 U | 18 U |
| 108-60-1 | BIS(2-CHLOROISOPROPYL) ETHER | ug/kg | 17 U | 18 U | 51 U | 250 U | 46 U | 15 U |
| 117-81-7 | BIS(2-ETHYLHEXYL) PHTHALATE | ug/kg | 310 J | 15 U | 44 U | 210 U | 180 J | 13 U |
| 105-60-2 | CAPROLACTAM | ug/kg | 19 U | 20 U | 58 U | 280 U | 52 U | 17 U |
| 86-74-8 | CARBAZOLE | ug/kg | 8.8 U | 9.3 U | 560 J | 1500 J | 710 J | 8.1 U |
| 218-01-9 | CHRYSENE | ug/kg | 18 U | 19 U | 11000 | 57000 | 26000 | 17 U |
| MEPH1314 | CRESOLS, M & P | ug/kg | 21 U | 22 U | 65 U | 310 U | 58 U | 19 U |
| 53-70-3 | DIBENZ(A,H)ANTHRACENE | ug/kg | 12 U | 12 U | 800 J | 3900 J | 1900 | 11 U |
| 132-64-9 | DIBENZOFURAN | ug/kg | 16 U | 17 U | 2800 | 7100 | 5200 | 14 U |
| 84-66-2 | DIETHYL PHTHALATE | ug/kg | 82 J | 6.7 U | 19 U | 93 U | 17 U | 5.8 U |
| 131-11-3 | DIMETHYL PHTHALATE | ug/kg | 11 U | 12 U | 34 U | 160 U | 30 U | 10 U |
| 84-74-2 | DI-N-BUTYL PHTHALATE | ug/kg | 32 U | 34 U | 98 U | 470 U | 88 U | 29 U |
| 117-84-0 | DI-N-OCTYLPHTHALATE | ug/kg | 4.6 U | 4.9 U | 14 U | 68 U | 13 U | 4.2 U |
| 206-44-0 | FLUORANTHENE | ug/kg | 8.1 U | 8.6 U | 19000 | 100000 | 44000 | 7.4 U |
| 86-73-7 | FLUORENE | ug/kg | 15 U | 16 U | 14000 | 74000 | 35000 | 14 U |
| 118-74-1 | HEXACHLOROBENZENE | ug/kg | 16 U | 17 U | 51 U | 240 U | 46 U | 15 U |
| 87-68-3 | HEXACHLOROBUTADIENE | ug/kg | 15 U | 15 U | 45 U | 220 U | 41 U | 13 U |
| 77-47-4 | HEXACHLOROCYCLOPENTADIENE | ug/kg | 9.7 U | 10 U | 30 U | 150 U | 27 U | 9 U |
| 67-72-1 | HEXACHLOROETHANE | ug/kg | 18 U | 19 U | 56 U | 270 U | 50 U | 16 U |
| 193-39-5 | INDENO(1,2,3-C,D)PYRENE | ug/kg | 13 U | 14 U | 3500 | 17000 | 8000 | 12 U |
| 78-59-1 | ISOPHORONE | ug/kg | 13 U | 14 U | 41 U | 200 U | 37 U | 12 U |
| 91-20-3 | NAPHTHALENE | ug/kg | 14 U | 15 U | 100000 | 550000 | 88000 | 13 U |
| 98-95-3 | NITROBENZENE | ug/kg | 15 U | 16 U | 47 U | 230 U | 42 U | 14 U |
| 621-64-7 | N-NITROSODI-N-PROPYLAMINE | ug/kg | 20 U | 22 U | 63 U | 300 U | 57 U | 19 U |
| 86-30-6 | N-NITROSODIPHENYLAMINE | ug/kg | 9.6 U | 10 U | 30 U | 140 U | 27 U | 8.9 U |
| 87-86-5 | PENTACHLOROPHENOL | ug/kg | 27 U | 29 U | 85 U | 410 U | 77 U | 25 U |
| 85-01-8 | PHENANTHRENE | ug/kg | 11 U | 12 U | 47000 | 230000 | 120000 | 10 U |
| 108-95-2 | PHENOL | ug/kg | 9.3 U | 9.9 U | 29 U | 140 U | 26 U | 8.5 U |
| 129-00-0 | PYRENE | ug/kg | 9.6 U | 10 U | 25000 | 130000 | 64000 | 8.9 U |

| Consolidated Edison<br>Farrington Street Remedial Investigation<br>Validated Soil Analytical Data<br>SDG: C3816 | | Location ID:<br>Sample ID:<br>Lab Sample Id:<br>Depth:<br>Source:<br>SDG:<br>Matrix:<br>Sampled:<br>Validated: | CMW-36<br>CMW-36(12-14)<br>C3816-05<br>12 - 14 ft<br>CTECH<br>C3816<br>SOIL<br>9/23/2011<br>1/23/2012 | CMW-36<br>CMW-36(24-26)<br>C3816-06<br>24 - 26 ft<br>CTECH<br>C3816<br>SOIL<br>9/23/2011<br>1/23/2012 | MW-25<br>MW-25(13-15)<br>C3816-01<br>13 - 15 ft<br>CTECH<br>C3816<br>SOIL<br>9/20/2011<br>1/23/2012 | MW-25<br>MW-25(31-33)<br>C3816-02<br>31 - 33 ft<br>CTECH<br>C3816<br>SOIL<br>9/20/2011<br>1/23/2012 | MW-25<br>MW-25(43-45)<br>C3816-03<br>43 - 45 ft<br>CTECH<br>C3816<br>SOIL<br>9/21/2011<br>1/23/2012 | MW-25<br>MW-25(53-55)<br>C3816-04<br>53 - 55 ft<br>CTECH<br>C3816<br>SOIL<br>9/21/2011<br>1/23/2012 |
|---|---|---|---|---|---|---|---|---|
| CAS NO. | COMPOUND | UNITS: | | | | | | |
| | INORGANICS | | | | | | | |
| 7429-90-5 | ALUMINUM | mg/kg | 4140 | 4180 | 6310 | 6000 | 2080 | 5730 |
| 7440-36-0 | ANTIMONY | mg/kg | 0.585 U | 0.617 U | 0.698 U | 0.541 U | 0.425 U | 0.55 U |
| 7440-38-2 | ARSENIC | mg/kg | 1.03 J | 3.52 | 1.65 | 1.14 | 0.526 J | 1.66 |
| 7440-39-3 | BARIUM | mg/kg | 45.7 | 50.1 | 68.3 | 67.2 | 12 | 41.2 |
| 7440-41-7 | BERYLLIUM | mg/kg | 0.183 J | 0.134 J | 0.22 J | 0.18 J | 0.14 J | 0.378 |
| 7440-43-9 | CADMIUM | mg/kg | 0.695 | 1.24 | 0.881 | 0.845 | 0.282 | 0.742 |
| 7440-70-2 | CALCIUM | mg/kg | 1180 | 1130 | 900 | 763 | 1050 | 1330 |
| 7440-47-3 | CHROMIUM, TOTAL | mg/kg | 13.3 J | 37.1 J | 19.9 J | 19.2 J | 5.03 J | 20.2 J |
| 7440-48-4 | COBALT | mg/kg | 5.65 | 6.72 | 6.62 | 7.48 | 2.14 | 9.2 |
| 7440-50-8 | COPPER | mg/kg | 11.8 J | 38.7 J | 10.6 J | 10.5 J | 4.11 J | 15.4 J |
| 7439-89-6 | IRON | mg/kg | 12800 | 23600 | 15900 | 15100 | 5090 | 13400 |
| 7439-92-1 | LEAD | mg/kg | 2.93 | 2.13 | 5.95 | 5.92 | 1.13 | 4.3 |
| 7439-95-4 | MAGNESIUM | mg/kg | 1580 | 1880 | 2740 | 2600 | 1000 | 1920 |
| 7439-96-5 | MANGANESE | mg/kg | 160 | 261 | 155 | 183 | 80.3 | 146 |
| 7439-97-6 | MERCURY | mg/kg | 0.002 U | 0.002 U | 0.021 | 0.003 J | 0.002 U | 0.002 U |
| 7440-02-0 | NICKEL | mg/kg | 9.54 | 30.2 | 18.9 | 16.5 | 4.68 | 16.5 |
| 7440-09-7 | POTASSIUM | mg/kg | 1740 | 1870 | 2740 | 2620 | 344 | 1270 |
| 7782-49-2 | SELENIUM | mg/kg | 0.428 U | 0.857 J | 0.511 U | 0.396 U | 0.311 U | 0.439 J |
| 7440-22-4 | SILVER | mg/kg | 0.157 U | 0.165 U | 0.187 U | 0.145 U | 0.114 U | 0.147 U |
| 7440-23-5 | SODIUM | mg/kg | 261 J | 231 J | 195 J | 440 J | 145 J | 179 J |
| 7440-28-0 | THALLIUM | mg/kg | 0.282 U | 0.297 U | 0.337 U | 0.261 U | 0.205 U | 0.265 U |
| 7440-62-2 | VANADIUM | mg/kg | 19.7 | 19.5 | 23.7 | 22.9 | 8.43 | 33.4 |
| 7440-66-6 | ZINC | mg/kg | 24.1 | 24.1 | 34.2 | 30.4 | 12 | 31.3 |
| 57-12-5 | CYANIDE | mg/kg | 0.04 U | 0.042 U | 0.792 | 0.351 | 0.037 U | 0.051 J |

| Consolidated Edison<br>Farrington Street Remedial Investigation<br>Validated Soil Analytical Data<br>SDG: C3954 | | Location ID:<br>Sample ID:<br>Lab Sample Id:<br>Depth:<br>Source:<br>SDG:<br>Matrix:<br>Sampled:<br>Validated: | CMW-38<br>CMW-38(13-15)<br>C3954-16<br>13 - 15 ft<br>CTECH<br>C3954<br>SOIL<br>9/27/2011<br>1/23/2012 | CMW-38<br>CMW-38(39-41)<br>C3954-17<br>39 - 41 ft<br>CTECH<br>C3954<br>SOIL<br>9/27/2011<br>1/23/2012 | SB-38<br>SB-38(15-17)<br>C3954-03<br>15 - 17 ft<br>CTECH<br>C3954<br>SOIL<br>9/30/2011<br>1/23/2012 | SB-38<br>SB-38(43-45)<br>C3954-04<br>43 - 45 ft<br>CTECH<br>C3954<br>SOIL<br>9/30/2011<br>1/23/2012 | SB-39<br>SB-39(13-15)<br>C3954-14<br>13 - 15 ft<br>CTECH<br>C3954<br>SOIL<br>9/26/2011<br>1/23/2012 | SB-39<br>SB-39(35-37)<br>C3954-15<br>35 - 37 ft<br>CTECH<br>C3954<br>SOIL<br>9/26/2011<br>1/23/2012 |
|---|---|---|---|---|---|---|---|---|
| CAS NO. | COMPOUND | UNITS: | | | | | | |
| | VOLATILES | | | | | | | |
| 71-55-6 | 1,1,1-TRICHLOROETHANE | ug/kg | 480 U | 1 U | 240 U | 1 U | 510 U | 1.1 U |
| 79-34-5 | 1,1,2,2-TETRACHLOROETHANE | ug/kg | 380 U | 0.54 U | 180 U | 0.53 U | 390 U | 0.57 U |
| 76-13-1 | 1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE | ug/kg | 540 U | 1.6 U | 270 U | 1.5 U | 570 U | 1.6 U |
| 79-00-5 | 1,1,2-TRICHLOROETHANE | ug/kg | 460 U | 1.1 U | 220 U | 1 U | 480 U | 1.1 U |
| 75-34-3 | 1,1-DICHLOROETHANE | ug/kg | 440 U | 1.1 U | 210 U | 1.1 U | 460 U | 1.2 U |
| 75-35-4 | 1,1-DICHLOROETHENE | ug/kg | 570 U | 1.7 U | 280 U | 1.7 U | 590 U | 1.8 U |
| 120-82-1 | 1,2,4-TRICHLOROBENZENE | ug/kg | 750 U | 0.83 U | 370 U | 0.81 U | 780 U | 0.86 U |
| 96-12-8 | 1,2-DIBROMO-3-CHLOROPROPANE | ug/kg | 560 U | 1 U | 270 U | 1 U | 580 U | 1.1 U |
| 106-93-4 | 1,2-DIBROMOETHANE | ug/kg | 500 U | 0.76 U | 240 U | 0.74 U | 520 U | 0.79 U |
| 95-50-1 | 1,2-DICHLOROBENZENE | ug/kg | 540 U | 0.73 U | 270 U | 0.71 U | 570 U | 0.76 U |
| 107-06-2 | 1,2-DICHLOROETHANE | ug/kg | 580 U | 0.76 U | 280 U | 0.74 U | 610 U | 0.79 U |
| 78-87-5 | 1,2-DICHLOROPROPANE | ug/kg | 560 U | 0.31 U | 270 U | 0.3 U | 580 U | 0.32 U |
| 541-73-1 | 1,3-DICHLOROBENZENE | ug/kg | 520 U | 0.44 U | 250 U | 0.43 U | 540 U | 0.46 U |
| 106-46-7 | 1,4-DICHLOROBENZENE | ug/kg | 390 U | 0.49 U | 190 U | 0.47 U | 410 U | 0.51 U |
| 591-78-6 | 2-HEXANONE | ug/kg | 2300 U | 4.6 U | 1100 U | 4.5 U | 2500 U | 4.8 U |
| 67-64-1 | ACETONE | ug/kg | 3300 U | R | 1600 U | 3.5 U | 3500 UJ | 3.7 U |
| 71-43-2 | BENZENE | ug/kg | 3500 J | 2.8 J | 16000 | 0.44 U | 13000 | 0.47 U |
| 75-27-4 | BROMODICHLOROMETHANE | ug/kg | 440 U | 0.73 U | 210 U | 0.71 U | 460 U | 0.76 U |
| 75-25-2 | BROMOFORM | ug/kg | 570 U | 0.88 U | 280 U | 0.85 U | 590 U | 0.91 U |
| 74-83-9 | BROMOMETHANE | ug/kg | 750 U | 2.9 U | 370 U | 2.8 U | 780 U | 3 U |
| 75-15-0 | CARBON DISULFIDE | ug/kg | 650 U | 1.3 U | 320 U | 1.2 U | 680 U | 1.3 U |
| 56-23-5 | CARBON TETRACHLORIDE | ug/kg | 750 U | 1.2 U | 370 U | 1.1 U | 780 U | 1.2 U |
| 108-90-7 | CHLOROBENZENE | ug/kg | 590 U | 0.59 U | 290 U | 0.58 U | 620 U | 0.62 U |
| 75-00-3 | CHLOROETHANE | ug/kg | 800 U | 1.7 U | 390 U | 1.6 U | 840 U | 1.7 U |
| 67-66-3 | CHLOROFORM | ug/kg | 410 U | 0.88 U | 200 U | 0.85 U | 430 U | 0.91 U |
| 74-87-3 | CHLOROMETHANE | ug/kg | 650 U | 1 U | 320 U | 0.99 U | 680 U | 1.1 U |
| 156-59-2 | CIS-1,2-DICHLOROETHYLENE | ug/kg | 420 U | 1.1 U | 210 U | 1 U | 440 U | 1.1 U |
| 10061-01-5 | CIS-1,3-DICHLOROPROPENE | ug/kg | 380 U | 0.85 U | 180 U | 0.83 U | 390 U | 0.89 U |
| 110-82-7 | CYCLOHEXANE | ug/kg | 670 U | 1.2 U | 330 U | 1.2 U | 700 U | 1.2 U |
| 124-48-1 | DIBROMOCHLOROMETHANE | ug/kg | 630 U | 0.64 U | 310 U | 0.62 U | 660 U | 0.67 U |
| 75-71-8 | DICHLORODIFLUOROMETHANE | ug/kg | 670 U | 0.77 U | 330 U | 0.75 U | 700 U | 0.8 U |
| 100-41-4 | ETHYLBENZENE | ug/kg | 21000 | 2.9 J | 23000 | 0.71 U | 47000 | 0.76 U |
| 98-82-8 | ISOPROPYLBENZENE (CUMENE) | ug/kg | 2700 J | 0.57 U | 2700 J | 0.55 U | 6200 J | 0.59 U |
| 79-20-9 | METHYL ACETATE | ug/kg | 1000 UJ | 1.8 U | 490 UJ | 1.7 U | 1100 UJ | 1.9 U |
| 78-93-3 | METHYL ETHYL KETONE (2-BUTANONE) | ug/kg | 1600 U | 3.7 U | 780 U | 3.6 U | 1700 U | 3.8 U |
| 108-10-1 | METHYL ISOBUTYL KETONE | ug/kg | 2500 U | 3.5 U | 1200 U | 3.4 U | 2700 U | 3.6 U |
| 108-87-2 | METHYLCYCLOHEXANE | ug/kg | 820 U | 1.3 U | 400 U | 1.2 U | 860 U | 1.3 U |
| 75-09-2 | METHYLENE CHLORIDE | ug/kg | 500 U | 1.7 U | 240 U | 1.6 U | 520 U | 1.8 U |
| 95-47-6 | O-XYLENE (1,2-DIMETHYLBENZENE) | ug/kg | 3800 J | 0.8 U | 8900 | 0.78 U | 6500 | 0.84 U |
| 100-42-5 | STYRENE | ug/kg | 440 U | 0.53 U | 210 U | 0.52 U | 460 U | 0.55 U |
| 1634-04-4 | TERT-BUTYL METHYL ETHER | ug/kg | 420 U | 1.1 U | 210 U | 1.1 U | 440 U | 1.2 U |
| 127-18-4 | TETRACHLOROETHYLENE(PCE) | ug/kg | 330 UJ | 20 | 160 UJ | 2.7 J | 340 UJ | 1.2 U |
| 108-88-3 | TOLUENE | ug/kg | 450 U | 0.76 U | 220 U | 0.74 U | 470 U | 0.79 U |
| 156-60-5 | TRANS-1,2-DICHLOROETHENE | ug/kg | 500 U | 0.82 U | 240 U | 0.79 U | 520 U | 0.85 U |
| 10061-02-6 | TRANS-1,3-DICHLOROPROPENE | ug/kg | 350 U | 0.94 U | 170 U | 0.91 U | 370 U | 0.97 U |
| 79-01-6 | TRICHLOROETHYLENE (TCE) | ug/kg | 340 U | 1 U | 170 U | 0.99 U | 350 U | 1.1 U |
| 75-69-4 | TRICHLOROFLUOROMETHANE | ug/kg | 420 U | 1.6 U | 210 U | 1.5 U | 440 U | 1.6 U |
| 75-01-4 | VINYL CHLORIDE | ug/kg | 410 U | 1.5 U | 200 U | 1.4 U | 430 U | 1.5 U |
| XYLMP | M,P-XYLENE (SUM OF ISOMERS) | ug/kg | 1100 U | 0.85 U | 560 U | 0.83 U | 1200 U | 0.89 U |

| Consolidated Edison<br>Farrington Street Remedial Investigation<br>Validated Soil Analytical Data<br>SDG: C3954 | | Location ID:<br>Sample ID:<br>Lab Sample Id:<br>Depth:<br>Source:<br>SDG:<br>Matrix:<br>Sampled:<br>Validated: | CMW-38<br>CMW-38(13-15)<br>C3954-16<br>13 - 15 ft<br>CTECH<br>C3954<br>SOIL<br>9/27/2011<br>1/23/2012 | CMW-38<br>CMW-38(39-41)<br>C3954-17<br>39 - 41 ft<br>CTECH<br>C3954<br>SOIL<br>9/27/2011<br>1/23/2012 | SB-38<br>SB-38(15-17)<br>C3954-03<br>15 - 17 ft<br>CTECH<br>C3954<br>SOIL<br>9/30/2011<br>1/23/2012 | SB-38<br>SB-38(43-45)<br>C3954-04<br>43 - 45 ft<br>CTECH<br>C3954<br>SOIL<br>9/30/2011<br>1/23/2012 | SB-39<br>SB-39(13-15)<br>C3954-14<br>13 - 15 ft<br>CTECH<br>C3954<br>SOIL<br>9/26/2011<br>1/23/2012 | SB-39<br>SB-39(35-37)<br>C3954-15<br>35 - 37 ft<br>CTECH<br>C3954<br>SOIL<br>9/26/2011<br>1/23/2012 |
|---|---|---|---|---|---|---|---|---|
| CAS NO. | COMPOUND | UNITS: | | | | | | |
| | SEMIVOLATILES | | | | | | | |
| 95-95-4 | 2,4,5-TRICHLOROPHENOL | ug/kg | 86 U | 27 U | 420 U | 27 U | 440 U | 29 U |
| 88-06-2 | 2,4,6-TRICHLOROPHENOL | ug/kg | 38 U | 12 U | 180 U | 12 U | 190 U | 13 U |
| 120-83-2 | 2,4-DICHLOROPHENOL | ug/kg | 47 U | 15 U | 230 U | 15 U | 240 U | 16 U |
| 105-67-9 | 2,4-DIMETHYLPHENOL | ug/kg | 70 U | 22 U | 340 U | 22 U | 360 U | 24 U |
| 51-28-5 | 2,4-DINITROPHENOL | ug/kg | 120 UJ | 40 UJ | 600 UJ | 39 UJ | 640 UJ | 42 UJ |
| 121-14-2 | 2,4-DINITROTOLUENE | ug/kg | 37 U | 12 U | 180 U | 12 U | 190 U | 13 U |
| 606-20-2 | 2,6-DINITROTOLUENE | ug/kg | 50 U | 16 U | 240 U | 16 U | 260 U | 17 U |
| 91-58-7 | 2-CHLORONAPHTHALENE | ug/kg | 28 U | 8.9 U | 140 U | 8.8 U | 140 U | 9.5 U |
| 95-57-8 | 2-CHLOROPHENOL | ug/kg | 65 U | 21 U | 310 U | 20 U | 330 U | 22 U |
| 91-57-6 | 2-METHYLNAPHTHALENE | ug/kg | 460000 | 9.9 U | 150000 | 9.7 U | 180000 | 10 U |
| 95-48-7 | 2-METHYLPHENOL (O-CRESOL) | ug/kg | 67 U | 21 U | 320 U | 21 U | 340 U | 23 U |
| 88-74-4 | 2-NITROANILINE | ug/kg | 55 U | 17 U | 260 U | 17 U | 280 U | 18 U |
| 88-75-5 | 2-NITROPHENOL | ug/kg | 59 U | 19 U | 290 U | 19 U | 300 U | 20 U |
| 91-94-1 | 3,3'-DICHLOROBENZIDINE | ug/kg | 79 U | 25 U | 380 U | 25 U | 410 U | 27 U |
| 99-09-2 | 3-NITROANILINE | ug/kg | 79 U | 25 U | 380 U | 25 U | 410 U | 27 U |
| 534-52-1 | 4,6-DINITRO-2-METHYLPHENOL | ug/kg | 70 U | 22 U | 340 U | 22 U | 360 U | 24 U |
| 101-55-3 | 4-BROMOPHENYL PHENYL ETHER | ug/kg | 24 U | 7.6 U | 120 U | 7.5 U | 120 U | 8.1 U |
| 59-50-7 | 4-CHLORO-3-METHYLPHENOL | ug/kg | 55 U | 17 U | 260 U | 17 U | 280 U | 18 U |
| 106-47-8 | 4-CHLOROANILINE | ug/kg | 87 U | 28 U | 420 U | 27 U | 440 U | 29 U |
| 7005-72-3 | 4-CHLOROPHENYL PHENYL ETHER | ug/kg | 67 U | 21 U | 320 U | 21 U | 340 U | 23 U |
| 100-01-6 | 4-NITROANILINE | ug/kg | 160 U | 51 U | 770 U | 50 U | 820 U | 54 U |
| 100-02-7 | 4-NITROPHENOL | ug/kg | 230 U | 73 U | 1100 U | 72 U | 1200 U | 77 U |
| 83-32-9 | ACENAPHTHENE | ug/kg | 130000 | 11 U | 120000 | 11 U | 130000 | 12 U |
| 208-96-8 | ACENAPHTHYLENE | ug/kg | 7700 | 9.9 U | 6400 | 9.7 U | 7700 | 10 U |
| 98-86-2 | ACETOPHENONE | ug/kg | 38 U | 12 U | 180 U | 12 U | 190 U | 13 U |
| 120-12-7 | ANTHRACENE | ug/kg | 52000 | 8 U | 55000 | 7.9 U | 50000 | 8.5 U |
| 1912-24-9 | ATRAZINE | ug/kg | 65 U | 21 U | 310 U | 20 U | 330 U | 22 U |
| 100-52-7 | BENZALDEHYDE | ug/kg | 3300 | 20 U | 310 U | 20 U | 330 U | 22 U |
| 56-55-3 | BENZO(A)ANTHRACENE | ug/kg | 27000 | 19 U | 34000 | 18 U | 29000 | 20 U |
| 50-32-8 | BENZO(A)PYRENE | ug/kg | 16000 | 8.4 U | 21000 | 8.4 U | 20000 | 9 U |
| 205-99-2 | BENZO(B)FLUORANTHENE | ug/kg | 11000 J | 13 U | 18000 | 13 U | 17000 | 14 U |
| 191-24-2 | BENZO(G,H,I)PERYLENE | ug/kg | 6800 | 16 U | 8400 | 16 U | 7700 | 17 U |
| 207-08-9 | BENZO(K)FLUORANTHENE | ug/kg | 3200 | 18 U | 4500 J | 18 U | 4200 J | 20 U |
| 85-68-7 | BENZYL BUTYL PHTHALATE | ug/kg | 59 U | 19 U | 280 U | 19 U | 300 U | 20 U |
| 92-52-4 | BIPHENYL (DIPHENYL) | ug/kg | 26000 | 15 U | 24000 | 15 U | 25000 | 16 U |
| 111-91-1 | BIS(2-CHLOROETHOXY) METHANE | ug/kg | 71 U | 23 U | 340 U | 22 U | 360 U | 24 U |
| 111-44-4 | BIS(2-CHLOROETHYL) ETHER | ug/kg | 59 U | 19 U | 280 U | 19 U | 300 U | 20 U |
| 108-60-1 | BIS(2-CHLOROISOPROPYL) ETHER | ug/kg | 51 U | 16 U | 250 U | 16 U | 260 U | 17 U |
| 117-81-7 | BIS(2-ETHYLHEXYL) PHTHALATE | ug/kg | 43 U | 14 U | 210 U | 210 J | 220 U | 15 U |
| 105-60-2 | CAPROLACTAM | ug/kg | 57 U | 18 U | 280 U | 18 U | 290 U | 19 U |
| 86-74-8 | CARBAZOLE | ug/kg | 27 U | 8.6 U | 130 U | 8.5 U | 140 U | 9.1 U |
| 218-01-9 | CHRYSENE | ug/kg | 25000 | 18 U | 29000 | 18 U | 28000 | 19 U |
| MEPH1314 | CRESOLS, M & P | ug/kg | 64 U | 20 U | 310 U | 20 U | 330 U | 22 U |
| 53-70-3 | DIBENZ(A,H)ANTHRACENE | ug/kg | 1600 | 11 U | 170 U | 11 U | 180 U | 12 U |
| 132-64-9 | DIBENZOFURAN | ug/kg | 5700 | 15 U | 8200 | 15 U | 8900 | 16 U |
| 84-66-2 | DIETHYL PHTHALATE | ug/kg | 19 U | 6.1 U | 92 U | 6 U | 98 U | 6.5 U |
| 131-11-3 | DIMETHYL PHTHALATE | ug/kg | 33 U | 11 U | 160 U | 10 U | 170 U | 11 U |
| 84-74-2 | DI-N-BUTYL PHTHALATE | ug/kg | 97 U | 31 U | 470 U | 30 U | 500 U | 33 U |
| 117-84-0 | DI-N-OCTYLPHTHALATE | ug/kg | 14 U | 4.5 U | 68 U | 4.4 U | 72 U | 4.7 U |
| 206-44-0 | FLUORANTHENE | ug/kg | 44000 | 7.9 U | 55000 | 7.8 U | 48000 | 8.4 U |
| 86-73-7 | FLUORENE | ug/kg | 59000 | 15 U | 53000 | 15 U | 62000 | 16 U |
| 118-74-1 | HEXACHLOROBENZENE | ug/kg | 50 U | 16 U | 240 U | 16 U | 260 U | 17 U |
| 87-68-3 | HEXACHLOROBUTADIENE | ug/kg | 45 U | 14 U | 210 U | 14 U | 230 U | 15 U |
| 77-47-4 | HEXACHLOROCYCLOPENTADIENE | ug/kg | 30 U | 9.5 U | 140 U | 9.4 U | 150 U | 10 U |
| 67-72-1 | HEXACHLOROETHANE | ug/kg | 55 U | 17 U | 260 U | 17 U | 280 U | 19 U |
| 193-39-5 | INDENO(1,2,3-C,D)PYRENE | ug/kg | 6700 | 13 U | 6900 | 13 U | 6300 | 14 U |
| 78-59-1 | ISOPHORONE | ug/kg | 41 U | 13 U | 200 U | 13 U | 210 U | 14 U |
| 91-20-3 | NAPHTHALENE | ug/kg | 570000 | 13 U | 600000 | 13 U | 590000 | 14 U |
| 98-95-3 | NITROBENZENE | ug/kg | 46 U | 15 U | 220 U | 15 U | 240 U | 16 U |
| 621-64-7 | N-NITROSODI-N-PROPYLAMINE | ug/kg | 62 U | 20 U | 300 U | 19 U | 320 U | 21 U |
| 86-30-6 | N-NITROSODIPHENYLAMINE | ug/kg | 29 U | 9.4 U | 140 U | 9.3 U | 150 U | 10 U |
| 87-86-5 | PENTACHLOROPHENOL | ug/kg | 84 U | 27 U | 410 U | 26 U | 430 U | 28 U |
| 85-01-8 | PHENANTHRENE | ug/kg | 170000 | 11 U | 160000 | 10 U | 180000 | 11 U |
| 108-95-2 | PHENOL | ug/kg | 28 U | 9 U | 140 U | 8.9 U | 150 U | 9.6 U |
| 129-00-0 | PYRENE | ug/kg | 71000 | 9.4 U | 70000 | 9.3 U | 74000 | 10 U |

| Consolidated Edison<br>Farrington Street Remedial Investigation<br>Validated Soil Analytical Data<br>SDG: C3954 | | Location ID:<br>Sample ID:<br>Lab Sample Id:<br>Depth:<br>Source:<br>SDG:<br>Matrix:<br>Sampled:<br>Validated: | CMW-38<br>CMW-38(13-15)<br>C3954-16<br>13 - 15 ft<br>CTECH<br>C3954<br>SOIL<br>9/27/2011<br>1/23/2012 | CMW-38<br>CMW-38(39-41)<br>C3954-17<br>39 - 41 ft<br>CTECH<br>C3954<br>SOIL<br>9/27/2011<br>1/23/2012 | SB-38<br>SB-38(15-17)<br>C3954-03<br>15 - 17 ft<br>CTECH<br>C3954<br>SOIL<br>9/30/2011<br>1/23/2012 | SB-38<br>SB-38(43-45)<br>C3954-04<br>43 - 45 ft<br>CTECH<br>C3954<br>SOIL<br>9/30/2011<br>1/23/2012 | SB-39<br>SB-39(13-15)<br>C3954-14<br>13 - 15 ft<br>CTECH<br>C3954<br>SOIL<br>9/26/2011<br>1/23/2012 | SB-39<br>SB-39(35-37)<br>C3954-15<br>35 - 37 ft<br>CTECH<br>C3954<br>SOIL<br>9/26/2011<br>1/23/2012 |
|---|---|---|---|---|---|---|---|---|
| CAS NO. | COMPOUND | UNITS: | | | | | | |
| | INORGANICS | | | | | | | |
| 7429-90-5 | ALUMINUM | mg/kg | 5240 | 3990 | 2860 | 3010 | 3740 | 4930 |
| 7440-36-0 | ANTIMONY | mg/kg | 0.55 U | 0.58 U | 0.54 U | 0.54 U | 0.43 U | 0.57 U |
| 7440-38-2 | ARSENIC | mg/kg | 0.33 U | 1.17 | 0.32 U | 0.32 U | 1.42 | 2.79 |
| 7440-39-3 | BARIUM | mg/kg | 79.6 J | 47.2 J | 32.4 J | 39 J | 44.3 J | 90.4 J |
| 7440-41-7 | BERYLLIUM | mg/kg | 0.1 J | 0.23 J | 0.1 J | 0.12 J | 0.15 J | 0.29 J |
| 7440-43-9 | CADMIUM | mg/kg | 0.06 U | 0.06 U | 0.06 U | 0.06 U | 0.2 J | 0.26 J |
| 7440-70-2 | CALCIUM | mg/kg | 767 J | 788 J | 876 J | 519 J | 8320 J | 1100 J |
| 7440-47-3 | CHROMIUM, TOTAL | mg/kg | 15 J | 14.4 J | 8.55 J | 9.76 J | 9.68 J | 17.3 J |
| 7440-48-4 | COBALT | mg/kg | 6.29 | 7.18 | 3.13 | 2.9 | 4.6 | 10.9 |
| 7440-50-8 | COPPER | mg/kg | 12.4 | 11.6 | 9.14 | 6.11 | 21.2 | 16.5 |
| 7439-89-6 | IRON | mg/kg | 13100 | 17700 | 9820 | 8260 | 9050 | 22300 |
| 7439-92-1 | LEAD | mg/kg | 2.07 | 4.28 | 2.14 | 1.95 | 60.1 | 5.28 |
| 7439-95-4 | MAGNESIUM | mg/kg | 2290 | 1580 | 1110 | 1380 | 1850 | 1970 |
| 7439-96-5 | MANGANESE | mg/kg | 475 | 381 | 180 | 111 | 126 | 1210 |
| 7439-97-6 | MERCURY | mg/kg | 0.002 U | 0.008 J | 0.009 J | 0.006 J | 0.113 | 0.009 J |
| 7440-02-0 | NICKEL | mg/kg | 15 | 12.3 | 8.07 | 8.19 | 10.2 | 17.6 |
| 7440-09-7 | POTASSIUM | mg/kg | 3160 J | 1340 J | 1250 J | 1280 J | 1230 J | 1660 J |
| 7782-49-2 | SELENIUM | mg/kg | 0.41 U | 0.43 U | 0.39 U | 0.39 U | 0.31 U | 0.42 U |
| 7440-22-4 | SILVER | mg/kg | 0.26 J | 0.36 J | 0.23 J | 0.21 J | 0.18 J | 0.45 J |
| 7440-23-5 | SODIUM | mg/kg | 167 | 239 | 102 | 125 | 90.1 | 131 |
| 7440-28-0 | THALLIUM | mg/kg | 0.27 U | 0.28 U | 0.26 U | 0.26 U | 0.21 U | 0.27 U |
| 7440-62-2 | VANADIUM | mg/kg | 18.3 | 16.5 | 11.6 | 11.1 | 12.4 | 19.4 |
| 7440-66-6 | ZINC | mg/kg | 29.8 | 33.3 | 19.8 | 19.7 | 46.6 | 45.7 |
| 57-12-5 | CYANIDE | mg/kg | 0.05 J | 0.039 U | 0.039 U | 0.051 J | 0.175 J | 0.055 J |

| Consolidated Edison<br>Farrington Street Remedial Investigation<br>Validated Soil Analytical Data<br>SDG: C3954 | | Location ID:<br>Sample ID:<br>Lab Sample Id:<br>Depth:<br>Source:<br>SDG:<br>Matrix:<br>Sampled:<br>Validated: | SB-40<br>SB-40(15-17)<br>C3954-20<br>15 - 17 ft<br>CTECH<br>C3954<br>SOIL<br>9/29/2011<br>1/23/2012 | SB-40<br>SB-40(39-41)<br>C3954-24<br>39 - 41 ft<br>CTECH<br>C3954<br>SOIL<br>9/29/2011<br>1/23/2012 | SB-41<br>SB-41(13-15)<br>C3954-11<br>13 - 15 ft<br>CTECH<br>C3954<br>SOIL<br>9/26/2011<br>1/23/2012 | Dup of SB-41(13-15)<br>SB-41A<br>SB-41A(13-15)<br>C3954-13<br>13 - 15 ft<br>CTECH<br>C3954<br>SOIL<br>9/26/2011<br>1/23/2012 | SB-41<br>SB-41(33-35)<br>C3954-12<br>33 - 35 ft<br>CTECH<br>C3954<br>SOIL<br>9/26/2011<br>1/23/2012 | SB-42<br>SB-42(14-16)<br>C3954-06<br>14 - 16 ft<br>CTECH<br>C3954<br>SOIL<br>9/29/2011<br>1/23/2012 |
|---|---|---|---|---|---|---|---|---|
| CAS NO. | COMPOUND | UNITS: | | | | | | |
| | VOLATILES | | | | | | | |
| 71-55-6 | 1,1,1-TRICHLOROETHANE | ug/kg | 48 U | 1 U | 450 U | 450 U | 1.1 U | 240 U |
| 79-34-5 | 1,1,2,2-TETRACHLOROETHANE | ug/kg | 37 U | 0.53 U | 350 U | 350 U | 0.6 U | 180 U |
| 76-13-1 | 1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE | ug/kg | 54 U | 1.5 U | 510 U | 500 U | 1.7 U | 270 U |
| 79-00-5 | 1,1,2-TRICHLOROETHANE | ug/kg | 45 U | 1 U | 430 U | 430 U | 1.2 U | 230 U |
| 75-34-3 | 1,1-DICHLOROETHANE | ug/kg | 43 U | 1.1 U | 410 U | 400 U | 1.2 U | 210 U |
| 75-35-4 | 1,1-DICHLOROETHENE | ug/kg | 56 U | 1.7 U | 530 U | 530 U | 1.9 U | 280 U |
| 120-82-1 | 1,2,4-TRICHLOROBENZENE | ug/kg | 74 U | 0.8 U | 710 U | 690 U | 0.91 U | 370 U |
| 96-12-8 | 1,2-DIBROMO-3-CHLOROPROPANE | ug/kg | 55 U | 1 U | 520 U | 520 U | 1.1 U | 270 U |
| 106-93-4 | 1,2-DIBROMOETHANE | ug/kg | 49 U | 0.73 U | 470 U | 460 U | 0.83 U | 240 U |
| 95-50-1 | 1,2-DICHLOROBENZENE | ug/kg | 54 U | 0.71 U | 510 U | 500 U | 0.8 U | 270 U |
| 107-06-2 | 1,2-DICHLOROETHANE | ug/kg | 57 U | 0.73 U | 550 U | 540 U | 0.83 U | 290 U |
| 78-87-5 | 1,2-DICHLOROPROPANE | ug/kg | 55 U | 0.3 U | 520 U | 520 U | 0.34 U | 270 U |
| 541-73-1 | 1,3-DICHLOROBENZENE | ug/kg | 51 U | 0.42 U | 490 U | 480 U | 0.48 U | 260 U |
| 106-46-7 | 1,4-DICHLOROBENZENE | ug/kg | 38 U | 0.47 U | 360 U | 360 U | 0.53 U | 190 U |
| 591-78-6 | 2-HEXANONE | ug/kg | 230 U | 4.5 U | 2200 U | 2200 U | 5.1 U | 1200 U |
| 67-64-1 | ACETONE | ug/kg | 330 UJ | R | 3100 UJ | 3100 UJ | 3.9 U | 1600 U |
| 71-43-2 | BENZENE | ug/kg | 38 U | 0.44 U | 6800 | 10000 | 0.49 U | 1500 J |
| 75-27-4 | BROMODICHLOROMETHANE | ug/kg | 43 U | 0.71 U | 410 U | 400 U | 0.8 U | 210 U |
| 75-25-2 | BROMOFORM | ug/kg | 56 U | 0.85 U | 530 U | 530 U | 0.96 U | 280 U |
| 74-83-9 | BROMOMETHANE | ug/kg | 74 U | 2.8 U | 710 U | 690 U | 3.2 U | 370 U |
| 75-15-0 | CARBON DISULFIDE | ug/kg | 64 U | 1.2 U | 610 U | 610 U | 1.4 U | 320 U |
| 56-23-5 | CARBON TETRACHLORIDE | ug/kg | 74 U | 1.1 U | 710 U | 690 U | 1.3 U | 370 U |
| 108-90-7 | CHLOROBENZENE | ug/kg | 58 U | 0.57 U | 560 U | 550 U | 0.65 U | 290 U |
| 75-00-3 | CHLOROETHANE | ug/kg | 79 U | 1.6 U | 750 U | 740 U | 1.8 U | 390 U |
| 67-66-3 | CHLOROFORM | ug/kg | 40 U | 0.85 U | 390 U | 380 U | 0.96 U | 200 U |
| 74-87-3 | CHLOROMETHANE | ug/kg | 64 U | 0.99 U | 610 U | 610 U | 1.1 U | 320 U |
| 156-59-2 | CIS-1,2-DICHLOROETHYLENE | ug/kg | 42 U | 1 U | 400 U | 390 U | 1.2 U | 210 U |
| 10061-01-5 | CIS-1,3-DICHLOROPROPENE | ug/kg | 37 U | 0.83 U | 350 U | 350 U | 0.93 U | 180 U |
| 110-82-7 | CYCLOHEXANE | ug/kg | 65 U | 1.2 U | 630 U | 620 U | 1.3 U | 330 U |
| 124-48-1 | DIBROMOCHLOROMETHANE | ug/kg | 62 U | 0.62 U | 590 U | 580 U | 0.7 U | 310 U |
| 75-71-8 | DICHLORODIFLUOROMETHANE | ug/kg | 65 U | 0.75 U | 630 U | 620 U | 0.84 U | 330 U |
| 100-41-4 | ETHYLBENZENE | ug/kg | 1200 | 0.71 U | 12000 | 16000 | 0.8 U | 31000 |
| 98-82-8 | ISOPROPYLBENZENE (CUMENE) | ug/kg | 350 J | 0.55 U | 4900 J | 5600 J | 0.62 U | 3600 |
| 79-20-9 | METHYL ACETATE | ug/kg | 99 UJ | 1.7 U | 940 UJ | 930 UJ | 2 U | 490 UJ |
| 78-93-3 | METHYL ETHYL KETONE (2-BUTANONE) | ug/kg | 160 U | 3.6 U | 1500 U | 1500 U | 4 U | 790 U |
| 108-10-1 | METHYL ISOBUTYL KETONE | ug/kg | 250 U | 3.3 U | 2400 U | 2400 U | 3.8 U | 1200 U |
| 108-87-2 | METHYLCYCLOHEXANE | ug/kg | 81 U | 1.2 U | 770 U | 760 U | 1.4 U | 400 U |
| 75-09-2 | METHYLENE CHLORIDE | ug/kg | 49 U | 1.6 U | 470 U | 460 U | 1.8 U | 240 U |
| 95-47-6 | O-XYLENE (1,2-DIMETHYLBENZENE) | ug/kg | 51 U | 0.78 U | 6700 | 8000 | 0.88 U | 2600 J |
| 100-42-5 | STYRENE | ug/kg | 43 U | 0.52 U | 410 U | 400 U | 0.58 U | 210 U |
| 1634-04-4 | TERT-BUTYL METHYL ETHER | ug/kg | 42 U | 1.1 U | 400 U | 390 U | 1.2 U | 210 U |
| 127-18-4 | TETRACHLOROETHYLENE(PCE) | ug/kg | 32 UJ | 1.2 U | 310 UJ | 300 UJ | 1.3 U | 160 UJ |
| 108-88-3 | TOLUENE | ug/kg | 44 U | 0.73 U | 420 U | 410 U | 0.83 U | 220 U |
| 156-60-5 | TRANS-1,2-DICHLOROETHENE | ug/kg | 49 U | 0.79 U | 470 U | 460 U | 0.89 U | 240 U |
| 10061-02-6 | TRANS-1,3-DICHLOROPROPENE | ug/kg | 35 U | 0.91 U | 330 U | 320 U | 1 U | 170 U |
| 79-01-6 | TRICHLOROETHYLENE (TCE) | ug/kg | 33 U | 0.99 U | 320 U | 310 U | 1.1 U | 170 U |
| 75-69-4 | TRICHLOROFLUOROMETHANE | ug/kg | 42 U | 1.5 U | 400 U | 390 U | 1.7 U | 210 U |
| 75-01-4 | VINYL CHLORIDE | ug/kg | 40 U | 1.4 U | 390 U | 380 U | 1.6 U | 200 U |
| XYLMP | M,P-XYLENE (SUM OF ISOMERS) | ug/kg | 110 U | 0.83 U | 2800 J | 3800 J | 0.93 U | 570 U |

| Consolidated Edison<br>Farrington Street Remedial Investigation<br>Validated Soil Analytical Data<br>SDG: C3954 | | Location ID:<br>Sample ID:<br>Lab Sample Id:<br>Depth:<br>Source:<br>SDG:<br>Matrix:<br>Sampled:<br>Validated: | SB-40<br>SB-40(15-17)<br>C3954-20<br>15 - 17 ft<br>CTECH<br>C3954<br>SOIL<br>9/29/2011<br>1/23/2012 | SB-40<br>SB-40(39-41)<br>C3954-24<br>39 - 41 ft<br>CTECH<br>C3954<br>SOIL<br>9/29/2011<br>1/23/2012 | SB-41<br>SB-41(13-15)<br>C3954-11<br>13 - 15 ft<br>CTECH<br>C3954<br>SOIL<br>9/26/2011<br>1/23/2012 | Dup of SB-41(13-15)<br>SB-41A<br>SB-41A(13-15)<br>C3954-13<br>13 - 15 ft<br>CTECH<br>C3954<br>SOIL<br>9/26/2011<br>1/23/2012 | SB-41<br>SB-41(33-35)<br>C3954-12<br>33 - 35 ft<br>CTECH<br>C3954<br>SOIL<br>9/26/2011<br>1/23/2012 | SB-42<br>SB-42(14-16)<br>C3954-06<br>14 - 16 ft<br>CTECH<br>C3954<br>SOIL<br>9/29/2011<br>1/23/2012 |
|---|---|---|---|---|---|---|---|---|
| CAS NO. | COMPOUND | UNITS: | | | | | | |
| | SEMIVOLATILES | | | | | | | |
| 95-95-4 | 2,4,5-TRICHLOROPHENOL | ug/kg | 830 U | 27 U | 78 U | 79 U | 30 U | 420 U |
| 88-06-2 | 2,4,6-TRICHLOROPHENOL | ug/kg | 360 U | 12 U | 34 U | 35 U | 13 U | 180 U |
| 120-83-2 | 2,4-DICHLOROPHENOL | ug/kg | 450 U | 15 U | 43 UJ | 43 U | 16 U | 230 U |
| 105-67-9 | 2,4-DIMETHYLPHENOL | ug/kg | 670 U | 22 U | 63 UJ | 64 U | 24 U | 340 U |
| 51-28-5 | 2,4-DINITROPHENOL | ug/kg | 1200 UJ | 39 UJ | 110 UJ | 110 UJ | 44 UJ | 600 UJ |
| 121-14-2 | 2,4-DINITROTOLUENE | ug/kg | 360 U | 12 U | 34 U | 34 U | 13 U | 180 U |
| 606-20-2 | 2,6-DINITROTOLUENE | ug/kg | 480 U | 16 U | 46 U | 46 U | 18 U | 240 U |
| 91-58-7 | 2-CHLORONAPHTHALENE | ug/kg | 270 U | 8.7 U | 25 U | 26 U | 9.9 U | 140 U |
| 95-57-8 | 2-CHLOROPHENOL | ug/kg | 620 U | 20 U | 59 U | 60 U | 23 U | 310 U |
| 91-57-6 | 2-METHYLNAPHTHALENE | ug/kg | 220000 | 9.6 U | 120000 | 150000 | 11 U | 350000 |
| 95-48-7 | 2-METHYLPHENOL (O-CRESOL) | ug/kg | 640 U | 21 U | 61 U | 61 U | 23 U | 320 U |
| 88-74-4 | 2-NITROANILINE | ug/kg | 530 U | 17 U | 50 U | 50 U | 19 U | 260 U |
| 88-75-5 | 2-NITROPHENOL | ug/kg | 570 U | 18 U | 54 UJ | 55 U | 21 U | 290 U |
| 91-94-1 | 3,3'-DICHLOROBENZIDINE | ug/kg | 760 U | 25 U | 72 U | 73 U | 28 U | 380 U |
| 99-09-2 | 3-NITROANILINE | ug/kg | 760 U | 25 U | 72 U | 73 U | 28 U | 380 U |
| 534-52-1 | 4,6-DINITRO-2-METHYLPHENOL | ug/kg | 680 U | 22 U | 64 UJ | 65 U | 25 U | 340 U |
| 101-55-3 | 4-BROMOPHENYL PHENYL ETHER | ug/kg | 230 U | 7.5 U | 22 UJ | 22 U | 8.4 U | 120 U |
| 59-50-7 | 4-CHLORO-3-METHYLPHENOL | ug/kg | 530 U | 17 U | 50 UJ | 50 U | 19 U | 260 U |
| 106-47-8 | 4-CHLOROANILINE | ug/kg | 830 U | 27 U | 79 UJ | 80 U | 30 U | 420 U |
| 7005-72-3 | 4-CHLOROPHENYL PHENYL ETHER | ug/kg | 640 U | 21 U | 61 U | 61 U | 23 U | 320 U |
| 100-01-6 | 4-NITROANILINE | ug/kg | 1500 U | 50 U | 150 U | 150 U | 56 U | 770 U |
| 100-02-7 | 4-NITROPHENOL | ug/kg | 2200 U | 71 U | 210 U | 210 U | 80 U | 1100 U |
| 83-32-9 | ACENAPHTHENE | ug/kg | 170000 | 11 U | 42000 | 56000 | 12 U | 180000 |
| 208-96-8 | ACENAPHTHYLENE | ug/kg | 18000 | 9.6 U | 3400 | 4100 | 11 U | 19000 |
| 98-86-2 | ACETOPHENONE | ug/kg | 360 U | 12 U | 34 UJ | 35 U | 13 U | 180 U |
| 120-12-7 | ANTHRACENE | ug/kg | 92000 | 7.8 U | 21000 | 24000 | 8.8 U | 86000 |
| 1912-24-9 | ATRAZINE | ug/kg | 620 U | 20 U | 59 UJ | 60 U | 23 U | 310 U |
| 100-52-7 | BENZALDEHYDE | ug/kg | 620 U | 20 U | 58 U | 59 U | 23 U | 310 U |
| 56-55-3 | BENZO(A)ANTHRACENE | ug/kg | 71000 | 18 U | 14000 | 17000 | 21 U | 57000 |
| 50-32-8 | BENZO(A)PYRENE | ug/kg | 48000 | 8.3 U | 7600 | 9700 | 9.3 U | 39000 |
| 205-99-2 | BENZO(B)FLUORANTHENE | ug/kg | 39000 | 13 U | 5900 | 8200 | 14 U | 35000 |
| 191-24-2 | BENZO(G,H,I)PERYLENE | ug/kg | 19000 | 15 U | 3100 | 3800 | 17 U | 16000 |
| 207-08-9 | BENZO(K)FLUORANTHENE | ug/kg | 16000 | 18 U | 2300 | 2000 | 20 U | 9100 |
| 85-68-7 | BENZYL BUTYL PHTHALATE | ug/kg | 570 U | 18 U | 54 U | 54 U | 21 U | 280 U |
| 92-52-4 | BIPHENYL (DIPHENYL) | ug/kg | 16000 | 14 U | 12000 | 15000 | 16 U | 44000 |
| 111-91-1 | BIS(2-CHLOROETHOXY) METHANE | ug/kg | 680 U | 22 U | 64 UJ | 65 U | 25 U | 340 U |
| 111-44-4 | BIS(2-CHLOROETHYL) ETHER | ug/kg | 570 U | 18 U | 54 U | 54 U | 21 U | 280 U |
| 108-60-1 | BIS(2-CHLOROISOPROPYL) ETHER | ug/kg | 490 U | 16 U | 46 U | 47 U | 18 U | 250 U |
| 117-81-7 | BIS(2-ETHYLHEXYL) PHTHALATE | ug/kg | 420 U | 14 U | 40 U | 40 U | 15 U | 210 U |
| 105-60-2 | CAPROLACTAM | ug/kg | 550 U | 18 U | 52 UJ | 53 U | 20 U | 280 U |
| 86-74-8 | CARBAZOLE | ug/kg | 260 U | 8.4 U | 24 UJ | 25 U | 9.5 U | 6600 |
| 218-01-9 | CHRYSENE | ug/kg | 65000 | 17 U | 12000 | 15000 | 20 U | 57000 |
| MEPH1314 | CRESOLS, M & P | ug/kg | 610 U | 20 U | 58 U | 59 U | 22 U | 310 U |
| 53-70-3 | DIBENZ(A,H)ANTHRACENE | ug/kg | 340 U | 11 U | 780 J | 900 J | 12 U | 3300 J |
| 132-64-9 | DIBENZOFURAN | ug/kg | 10000 J | 15 U | 2900 | 3600 | 17 U | 17000 |
| 84-66-2 | DIETHYL PHTHALATE | ug/kg | 180 U | 6 U | 17 U | 18 U | 6.7 U | 93 U |
| 131-11-3 | DIMETHYL PHTHALATE | ug/kg | 320 U | 10 U | 30 U | 31 U | 12 U | 160 U |
| 84-74-2 | DI-N-BUTYL PHTHALATE | ug/kg | 930 U | 30 U | 88 U | 89 U | 34 U | 470 U |
| 117-84-0 | DI-N-OCTYLPHTHALATE | ug/kg | 130 U | 4.4 U | 13 U | 13 U | 4.9 U | 68 U |
| 206-44-0 | FLUORANTHENE | ug/kg | 120000 | 7.7 U | 21000 | 25000 | 8.7 U | 110000 |
| 86-73-7 | FLUORENE | ug/kg | 91000 | 14 U | 22000 | 27000 | 16 U | 98000 |
| 118-74-1 | HEXACHLOROBENZENE | ug/kg | 480 U | 16 U | 46 UJ | 46 U | 18 U | 240 U |
| 87-68-3 | HEXACHLOROBUTADIENE | ug/kg | 430 U | 14 U | 41 UJ | 41 U | 16 U | 220 U |
| 77-47-4 | HEXACHLOROCYCLOPENTADIENE | ug/kg | 290 U | 9.3 U | 27 U | 27 U | 10 U | 140 U |
| 67-72-1 | HEXACHLOROETHANE | ug/kg | 530 U | 17 U | 50 U | 51 U | 19 U | 270 U |
| 193-39-5 | INDENO(1,2,3-C,D)PYRENE | ug/kg | 16000 | 13 U | 3000 | 3900 | 14 U | 14000 |
| 78-59-1 | ISOPHORONE | ug/kg | 390 U | 13 U | 37 UJ | 37 U | 14 U | 200 U |
| 91-20-3 | NAPHTHALENE | ug/kg | 800000 | 13 U | 210000 | 330000 | 15 U | 920000 |
| 98-95-3 | NITROBENZENE | ug/kg | 450 U | 14 U | 42 UJ | 43 U | 16 U | 220 U |
| 621-64-7 | N-NITROSODI-N-PROPYLAMINE | ug/kg | 600 U | 19 U | 56 U | 57 U | 22 U | 300 U |
| 86-30-6 | N-NITROSODIPHENYLAMINE | ug/kg | 280 U | 9.2 U | 27 UJ | 27 U | 10 U | 140 U |
| 87-86-5 | PENTACHLOROPHENOL | ug/kg | 810 U | 26 U | 76 UJ | 77 U | 30 U | 410 U |
| 85-01-8 | PHENANTHRENE | ug/kg | 340000 | 10 U | 76000 | 90000 | 12 U | 330000 |
| 108-95-2 | PHENOL | ug/kg | 270 U | 8.8 U | 26 U | 26 U | 10 U | 140 U |
| 129-00-0 | PYRENE | ug/kg | 150000 | 9.2 U | 28000 | 33000 | 10 U | 130000 |

| Consolidated Edison<br>Farrington Street Remedial Investigation<br>Validated Soil Analytical Data<br>SDG: C3954 | | | | | | Dup of SB-41(13-15) | | |
|---|---|---|---|---|---|---|---|---|
| | | Location ID: | SB-40 | SB-40 | SB-41 | SB-41A | SB-41 | SB-42 |
| | | Sample ID: | SB-40(15-17) | SB-40(39-41) | SB-41(13-15) | SB-41A(13-15) | SB-41(33-35) | SB-42(14-16) |
| | | Lab Sample Id: | C3954-20 | C3954-24 | C3954-11 | C3954-13 | C3954-12 | C3954-06 |
| | | Depth: | 15 - 17 ft | 39 - 41 ft | 13 - 15 ft | 13 - 15 ft | 33 - 35 ft | 14 - 16 ft |
| | | Source: | CTECH | CTECH | CTECH | CTECH | CTECH | CTECH |
| | | SDG: | C3954 | C3954 | C3954 | C3954 | C3954 | C3954 |
| | | Matrix: | SOIL | SOIL | SOIL | SOIL | SOIL | SOIL |
| | | Sampled: | 9/29/2011 | 9/29/2011 | 9/26/2011 | 9/26/2011 | 9/26/2011 | 9/29/2011 |
| | | Validated: | 1/23/2012 | 1/23/2012 | 1/23/2012 | 1/23/2012 | 1/23/2012 | 1/23/2012 |
| CAS NO. | COMPOUND | UNITS: | | | | | | |
| | INORGANICS | | | | | | | |
| 7429-90-5 | ALUMINUM | mg/kg | 2820 | 1980 | 1820 | 1690 | 6810 | 1970 |
| 7440-36-0 | ANTIMONY | mg/kg | 0.41 U | 0.52 U | 0.48 U | 0.63 U | 0.52 U | 0.44 U |
| 7440-38-2 | ARSENIC | mg/kg | 0.36 J | 0.61 J | 0.42 J | 0.52 J | 0.56 J | 0.86 |
| 7440-39-3 | BARIUM | mg/kg | 27.2 J | 20 J | 16.2 J | 16.4 J | 94.7 J | 16.8 J |
| 7440-41-7 | BERYLLIUM | mg/kg | 0.1 J | 0.09 J | 0.05 J | 0.07 U | 0.19 J | 0.07 J |
| 7440-43-9 | CADMIUM | mg/kg | 0.04 U | 0.06 U | 0.05 U | 0.07 U | 0.06 U | 0.05 U |
| 7440-70-2 | CALCIUM | mg/kg | 839 J | 460 J | 854 J | 599 J | 895 J | 3150 J |
| 7440-47-3 | CHROMIUM, TOTAL | mg/kg | 10.4 J | 8.19 J | 7.64 J | 5.01 J | 20 J | 5.53 J |
| 7440-48-4 | COBALT | mg/kg | 3.79 | 2.59 | 3.77 | 3.29 | 7.57 | 2.7 |
| 7440-50-8 | COPPER | mg/kg | 8.15 | 3.89 | 7.7 | 6.5 | 9.68 | 7.05 |
| 7439-89-6 | IRON | mg/kg | 8640 | 5910 | 5490 | 4740 | 13800 | 6710 |
| 7439-92-1 | LEAD | mg/kg | 1.58 | 1.46 | 4.7 | 4.91 | 3.4 | 2.97 |
| 7439-95-4 | MAGNESIUM | mg/kg | 1050 | 762 | 1150 | 877 | 3040 | 1630 |
| 7439-96-5 | MANGANESE | mg/kg | 139 | 116 | 84.1 | 57.1 | 293 | 124 |
| 7439-97-6 | MERCURY | mg/kg | 0.004 J | 0.003 J | 0.035 | 0.038 | 0.004 J | 0.09 |
| 7440-02-0 | NICKEL | mg/kg | 12.9 | 7.56 | 15.3 | 11.1 | 19 | 9.79 |
| 7440-09-7 | POTASSIUM | mg/kg | 703 J | 577 J | 386 J | 458 J | 3630 J | 482 J |
| 7782-49-2 | SELENIUM | mg/kg | 0.3 U | 0.38 U | 0.35 U | 0.5 J | 0.38 U | 0.32 U |
| 7440-22-4 | SILVER | mg/kg | 0.2 J | 0.14 U | 0.18 J | 0.17 U | 0.2 J | 0.17 J |
| 7440-23-5 | SODIUM | mg/kg | 95.3 | 71.4 J | 114 | 117 | 431 | 131 |
| 7440-28-0 | THALLIUM | mg/kg | 0.2 U | 0.25 U | 0.23 U | 0.3 U | 0.25 U | 0.21 U |
| 7440-62-2 | VANADIUM | mg/kg | 11.1 | 7.09 | 9.32 | 6.08 | 22.6 | 6.64 |
| 7440-66-6 | ZINC | mg/kg | 15.9 | 14.4 | 19.1 | 18.1 | 37.2 | 13.7 |
| 57-12-5 | CYANIDE | mg/kg | 0.453 | 0.201 J | 0.088 J | 0.037 U | 0.054 J | 0.211 J |

| Consolidated Edison<br>Farrington Street Remedial Investigation<br>Validated Soil Analytical Data<br>SDG: C3954 | | | Dup of SB-42(14-16) | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | Location ID: | SB-42 | SB-42 | SB-42 | SB-43 | SB-43 | SB-44 |
| | | Sample ID: | SB-42A(14-16) | SB-42(22-24) | SB-42(34-36) | SB-43(15-17) | SB-43(29-31) | SB-44(16.5-18) |
| | | Lab Sample Id: | C3954-07 | C3954-08 | C3954-01 | C3954-19 | C3954-18 | C3954-21 |
| | | Depth: | 14 - 16 ft | 22 - 24 ft | 34 - 36 ft | 15 - 17 ft | 29 - 31 ft | 16.5 - 18 ft |
| | | Source: | CTECH | CTECH | CTECH | CTECH | CTECH | CTECH |
| | | SDG: | C3954 | C3954 | C3954 | C3954 | C3954 | C3954 |
| | | Matrix: | SOIL | SOIL | SOIL | SOIL | SOIL | SOIL |
| | | Sampled: | 9/29/2011 | 9/30/2011 | 9/30/2011 | 9/27/2011 | 9/27/2011 | 9/28/2011 |
| | | Validated: | 1/23/2012 | 1/23/2012 | 1/23/2012 | 1/23/2012 | 1/23/2012 | 1/23/2012 |
| CAS NO. | COMPOUND | UNITS: | | | | | | |
| | VOLATILES | | | | | | | |
| 71-55-6 | 1,1,1-TRICHLOROETHANE | ug/kg | 450 U | 100 U | 1.1 U | 190 U | 1.1 U | 240 U |
| 79-34-5 | 1,1,2,2-TETRACHLOROETHANE | ug/kg | 350 U | 79 U | 0.56 U | 150 U | 0.58 U | 190 U |
| 76-13-1 | 1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE | ug/kg | 500 U | 110 U | 1.6 U | 220 U | 1.7 U | 270 U |
| 79-00-5 | 1,1,2-TRICHLOROETHANE | ug/kg | 420 U | 97 U | 1.1 U | 180 U | 1.1 U | 230 U |
| 75-34-3 | 1,1-DICHLOROETHANE | ug/kg | 400 U | 92 U | 1.1 U | 180 U | 1.2 U | 220 U |
| 75-35-4 | 1,1-DICHLOROETHENE | ug/kg | 520 U | 120 U | 1.8 U | 230 U | 1.8 U | 290 U |
| 120-82-1 | 1,2,4-TRICHLOROBENZENE | ug/kg | 690 U | 160 U | 0.85 U | 300 U | 0.88 U | 380 U |
| 96-12-8 | 1,2-DIBROMO-3-CHLOROPROPANE | ug/kg | 510 U | 120 U | 1.1 U | 220 U | 1.1 U | 280 U |
| 106-93-4 | 1,2-DIBROMOETHANE | ug/kg | 460 U | 100 U | 0.78 U | 200 U | 0.8 U | 250 U |
| 95-50-1 | 1,2-DICHLOROBENZENE | ug/kg | 500 U | 110 U | 0.75 U | 220 U | 0.78 U | 270 U |
| 107-06-2 | 1,2-DICHLOROETHANE | ug/kg | 530 U | 120 U | 0.78 U | 230 U | 0.8 U | 290 U |
| 78-87-5 | 1,2-DICHLOROPROPANE | ug/kg | 510 U | 120 U | 0.32 U | 220 U | 0.33 U | 280 U |
| 541-73-1 | 1,3-DICHLOROBENZENE | ug/kg | 480 U | 110 U | 0.45 U | 210 U | 0.47 U | 260 U |
| 106-46-7 | 1,4-DICHLOROBENZENE | ug/kg | 360 U | 82 U | 0.5 U | 160 U | 0.52 U | 190 U |
| 591-78-6 | 2-HEXANONE | ug/kg | 2200 U | 500 U | 4.8 U | 940 U | 4.9 U | 1200 U |
| 67-64-1 | ACETONE | ug/kg | 3100 UJ | 700 UJ | 3.7 U | 1300 U | R | 1700 U |
| 71-43-2 | BENZENE | ug/kg | 360 U | 2500 | 0.46 U | 160 U | 0.48 U | 190 U |
| 75-27-4 | BROMODICHLOROMETHANE | ug/kg | 400 U | 92 U | 0.75 U | 180 U | 0.78 U | 220 U |
| 75-25-2 | BROMOFORM | ug/kg | 520 U | 120 U | 0.9 U | 230 U | 0.93 U | 290 U |
| 74-83-9 | BROMOMETHANE | ug/kg | 690 U | 160 U | 3 U | 300 U | 3.1 U | 380 U |
| 75-15-0 | CARBON DISULFIDE | ug/kg | 600 U | 140 U | 1.3 U | 260 U | 1.3 U | 330 U |
| 56-23-5 | CARBON TETRACHLORIDE | ug/kg | 690 U | 160 U | 1.2 U | 300 U | 1.2 U | 380 U |
| 108-90-7 | CHLOROBENZENE | ug/kg | 550 U | 130 U | 0.61 U | 240 U | 0.63 U | 300 U |
| 75-00-3 | CHLOROETHANE | ug/kg | 740 U | 170 U | 1.7 U | 320 U | 1.8 U | 400 U |
| 67-66-3 | CHLOROFORM | ug/kg | 380 U | 87 U | 0.9 U | 170 U | 0.93 U | 210 U |
| 74-87-3 | CHLOROMETHANE | ug/kg | 600 U | 140 U | 1 U | 260 U | 1.1 U | 330 U |
| 156-59-2 | CIS-1,2-DICHLOROETHYLENE | ug/kg | 390 U | 89 U | 1.1 U | 170 U | 1.1 U | 210 U |
| 10061-01-5 | CIS-1,3-DICHLOROPROPENE | ug/kg | 350 U | 79 U | 0.87 U | 150 U | 0.91 U | 190 U |
| 110-82-7 | CYCLOHEXANE | ug/kg | 610 U | 140 U | 1.2 U | 270 U | 1.3 U | 330 U |
| 124-48-1 | DIBROMOCHLOROMETHANE | ug/kg | 580 U | 130 U | 0.65 U | 250 U | 0.68 U | 320 U |
| 75-71-8 | DICHLORODIFLUOROMETHANE | ug/kg | 610 U | 140 U | 0.79 U | 270 U | 0.82 U | 330 U |
| 100-41-4 | ETHYLBENZENE | ug/kg | 46000 | 9000 | 0.75 U | 260 U | 0.78 U | 320 U |
| 98-82-8 | ISOPROPYLBENZENE (CUMENE) | ug/kg | 5200 J | 2300 | 0.58 U | 1500 J | 0.6 U | 270 U |
| 79-20-9 | METHYL ACETATE | ug/kg | 920 UJ | 210 UJ | 1.8 U | 400 UJ | 1.9 U | 500 UJ |
| 78-93-3 | METHYL ETHYL KETONE (2-BUTANONE) | ug/kg | 1500 U | 340 U | 3.8 U | 640 U | 3.9 U | 800 U |
| 108-10-1 | METHYL ISOBUTYL KETONE | ug/kg | 2300 U | 540 U | 3.5 U | 1000 U | 3.7 U | 1300 U |
| 108-87-2 | METHYLCYCLOHEXANE | ug/kg | 760 U | 170 U | 1.3 U | 330 U | 1.3 U | 410 U |
| 75-09-2 | METHYLENE CHLORIDE | ug/kg | 460 U | 100 U | 1.7 U | 200 U | 1.8 U | 250 U |
| 95-47-6 | O-XYLENE (1,2-DIMETHYLBENZENE) | ug/kg | 3600 J | 2100 | 0.82 U | 210 U | 0.85 U | 260 U |
| 100-42-5 | STYRENE | ug/kg | 400 U | 92 U | 0.55 U | 180 U | 0.57 U | 220 U |
| 1634-04-4 | TERT-BUTYL METHYL ETHER | ug/kg | 390 U | 89 U | 1.2 U | 170 U | 1.2 U | 210 U |
| 127-18-4 | TETRACHLOROETHYLENE(PCE) | ug/kg | 300 UJ | 69 UJ | 1.2 U | 130 UJ | 1.3 U | 160 UJ |
| 108-88-3 | TOLUENE | ug/kg | 410 U | 94 U | 0.78 U | 180 U | 0.8 U | 220 U |
| 156-60-5 | TRANS-1,2-DICHLOROETHENE | ug/kg | 460 U | 100 U | 0.84 U | 200 U | 0.87 U | 250 U |
| 10061-02-6 | TRANS-1,3-DICHLOROPROPENE | ug/kg | 320 U | 74 U | 0.96 U | 140 U | 0.99 U | 180 U |
| 79-01-6 | TRICHLOROETHYLENE (TCE) | ug/kg | 310 U | 72 U | 1 U | 140 U | 1.1 U | 170 U |
| 75-69-4 | TRICHLOROFLUOROMETHANE | ug/kg | 390 U | 89 U | 1.6 U | 170 U | 1.7 U | 210 U |
| 75-01-4 | VINYL CHLORIDE | ug/kg | 380 U | 87 U | 1.5 U | 170 U | 1.5 U | 210 U |
| XYLMP | M,P-XYLENE (SUM OF ISOMERS) | ug/kg | 1100 U | 240 U | 0.87 U | 460 U | 0.91 U | 580 U |

| Consolidated Edison<br>Farrington Street Remedial Investigation<br>Validated Soil Analytical Data<br>SDG: C3954 | | | Dup of SB-42(14-16) | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | Location ID: | SB-42 | SB-42 | SB-42 | SB-43 | SB-43 | SB-44 |
| | | Sample ID: | SB-42A(14-16) | SB-42(22-24) | SB-42(34-36) | SB-43(15-17) | SB-43(29-31) | SB-44(16.5-18) |
| | | Lab Sample Id: | C3954-07 | C3954-08 | C3954-01 | C3954-19 | C3954-18 | C3954-21 |
| | | Depth: | 14 - 16 ft | 22 - 24 ft | 34 - 36 ft | 15 - 17 ft | 29 - 31 ft | 16.5 - 18 ft |
| | | Source: | CTECH | CTECH | CTECH | CTECH | CTECH | CTECH |
| | | SDG: | C3954 | C3954 | C3954 | C3954 | C3954 | C3954 |
| | | Matrix: | SOIL | SOIL | SOIL | SOIL | SOIL | SOIL |
| | | Sampled: | 9/29/2011 | 9/30/2011 | 9/30/2011 | 9/27/2011 | 9/27/2011 | 9/28/2011 |
| | | Validated: | 1/23/2012 | 1/23/2012 | 1/23/2012 | 1/23/2012 | 1/23/2012 | 1/23/2012 |
| CAS NO. | COMPOUND | UNITS: | | | | | | |
| | SEMIVOLATILES | | | | | | | |
| 95-95-4 | 2,4,5-TRICHLOROPHENOL | ug/kg | 790 U | 900 U | 28 U | 28 U | 29 U | 420 U |
| 88-06-2 | 2,4,6-TRICHLOROPHENOL | ug/kg | 350 U | 390 U | 12 U | 12 U | 13 U | 180 U |
| 120-83-2 | 2,4-DICHLOROPHENOL | ug/kg | 430 U | 490 U | 15 U | 15 U | 16 U | 230 U |
| 105-67-9 | 2,4-DIMETHYLPHENOL | ug/kg | 640 U | 720 U | 22 U | 23 U | 23 U | 340 U |
| 51-28-5 | 2,4-DINITROPHENOL | ug/kg | 1100 UJ | 1300 UJ | 40 UJ | 41 UJ | 42 UJ | 610 UJ |
| 121-14-2 | 2,4-DINITROTOLUENE | ug/kg | 340 U | 390 U | 12 U | 12 U | 12 U | 180 U |
| 606-20-2 | 2,6-DINITROTOLUENE | ug/kg | 460 U | 520 U | 16 U | 17 U | 17 U | 250 U |
| 91-58-7 | 2-CHLORONAPHTHALENE | ug/kg | 260 U | 290 U | 9 U | 9.3 U | 9.3 U | 140 U |
| 95-57-8 | 2-CHLOROPHENOL | ug/kg | 600 U | 670 U | 21 U | 21 U | 22 U | 320 U |
| 91-57-6 | 2-METHYLNAPHTHALENE | ug/kg | 440000 | 270000 | 10 U | 78000 | 10 U | 10000 |
| 95-48-7 | 2-METHYLPHENOL (O-CRESOL) | ug/kg | 610 U | 690 U | 21 U | 22 U | 22 U | 330 U |
| 88-74-4 | 2-NITROANILINE | ug/kg | 500 U | 570 U | 18 U | 18 U | 18 U | 270 U |
| 88-75-5 | 2-NITROPHENOL | ug/kg | 550 U | 620 U | 19 U | 20 U | 20 U | 290 U |
| 91-94-1 | 3,3'-DICHLOROBENZIDINE | ug/kg | 730 U | 820 U | 25 U | 26 U | 26 U | 390 U |
| 99-09-2 | 3-NITROANILINE | ug/kg | 730 U | 820 U | 25 U | 26 U | 26 U | 390 U |
| 534-52-1 | 4,6-DINITRO-2-METHYLPHENOL | ug/kg | 650 U | 730 U | 23 U | 23 U | 23 U | 340 U |
| 101-55-3 | 4-BROMOPHENYL PHENYL ETHER | ug/kg | 220 U | 250 U | 7.7 U | 7.9 U | 8 U | 120 U |
| 59-50-7 | 4-CHLORO-3-METHYLPHENOL | ug/kg | 500 U | 570 U | 18 U | 18 U | 18 U | 270 U |
| 106-47-8 | 4-CHLOROANILINE | ug/kg | 800 U | 900 U | 28 U | 29 U | 29 U | 420 U |
| 7005-72-3 | 4-CHLOROPHENYL PHENYL ETHER | ug/kg | 610 U | 690 U | 21 U | 22 U | 22 U | 330 U |
| 100-01-6 | 4-NITROANILINE | ug/kg | 1500 U | 1700 U | 52 U | 53 U | 53 U | 780 U |
| 100-02-7 | 4-NITROPHENOL | ug/kg | 2100 U | 2400 U | 73 U | 75 U | 76 U | 1100 U |
| 83-32-9 | ACENAPHTHENE | ug/kg | 260000 | 230000 | 11 U | 20000 | 12 U | 60000 |
| 208-96-8 | ACENAPHTHYLENE | ug/kg | 22000 | 27000 J | 10 U | 770 | 10 U | 7100 |
| 98-86-2 | ACETOPHENONE | ug/kg | 350 U | 390 U | 12 U | 12 U | 13 U | 180 U |
| 120-12-7 | ANTHRACENE | ug/kg | 120000 | 98000 J | 8.1 U | 10000 | 8.4 U | 26000 |
| 1912-24-9 | ATRAZINE | ug/kg | 600 U | 670 U | 21 U | 21 U | 22 U | 320 U |
| 100-52-7 | BENZALDEHYDE | ug/kg | 590 U | 670 U | 21 U | 21 U | 21 U | 310 U |
| 56-55-3 | BENZO(A)ANTHRACENE | ug/kg | 68000 | 78000 J | 19 U | 5100 | 20 U | 20000 |
| 50-32-8 | BENZO(A)PYRENE | ug/kg | 47000 | 51000 J | 8.5 U | 2700 | 8.9 U | 14000 |
| 205-99-2 | BENZO(B)FLUORANTHENE | ug/kg | 43000 | 44000 J | 13 U | 2300 | 13 U | 12000 |
| 191-24-2 | BENZO(G,H,I)PERYLENE | ug/kg | 20000 | 21000 J | 16 U | 1100 | 17 U | 5800 J |
| 207-08-9 | BENZO(K)FLUORANTHENE | ug/kg | 10000 J | 11000 J | 19 U | 680 | 19 U | 4100 J |
| 85-68-7 | BENZYL BUTYL PHTHALATE | ug/kg | 540 U | 610 U | 19 U | 19 U | 20 U | 290 U |
| 92-52-4 | BIPHENYL (DIPHENYL) | ug/kg | 58000 | 48000 J | 15 U | 3700 J | 15 U | 230 U |
| 111-91-1 | BIS(2-CHLOROETHOXY) METHANE | ug/kg | 650 U | 730 U | 23 U | 23 U | 24 U | 350 U |
| 111-44-4 | BIS(2-CHLOROETHYL) ETHER | ug/kg | 540 U | 610 U | 19 U | 19 U | 20 U | 290 U |
| 108-60-1 | BIS(2-CHLOROISOPROPYL) ETHER | ug/kg | 470 U | 530 U | 16 U | 17 U | 17 U | 250 U |
| 117-81-7 | BIS(2-ETHYLHEXYL) PHTHALATE | ug/kg | 400 U | 450 U | 14 U | 14 U | 15 U | 210 U |
| 105-60-2 | CAPROLACTAM | ug/kg | 530 U | 590 U | 18 U | 19 U | 19 U | 280 U |
| 86-74-8 | CARBAZOLE | ug/kg | 9100 J | 280 U | 8.7 U | 8.9 U | 9 U | 130 U |
| 218-01-9 | CHRYSENE | ug/kg | 64000 | 72000 J | 18 U | 5000 | 19 U | 19000 |
| MEPH1314 | CRESOLS, M & P | ug/kg | 590 U | 660 U | 21 U | 21 U | 21 U | 310 U |
| 53-70-3 | DIBENZ(A,H)ANTHRACENE | ug/kg | 330 U | 370 U | 11 U | 280 J | 12 U | 170 U |
| 132-64-9 | DIBENZOFURAN | ug/kg | 23000 | 16000 J | 15 U | 1400 | 16 U | 3400 J |
| 84-66-2 | DIETHYL PHTHALATE | ug/kg | 180 U | 200 U | 6.2 U | 6.3 U | 6.4 U | 94 U |
| 131-11-3 | DIMETHYL PHTHALATE | ug/kg | 310 U | 340 U | 11 U | 11 U | 11 U | 160 U |
| 84-74-2 | DI-N-BUTYL PHTHALATE | ug/kg | 890 U | 1000 U | 31 U | 32 U | 32 U | 470 U |
| 117-84-0 | DI-N-OCTYLPHTHALATE | ug/kg | 130 U | 150 U | 4.5 U | 4.6 U | 4.7 U | 68 U |
| 206-44-0 | FLUORANTHENE | ug/kg | 140000 | 140000 | 8 U | 8100 | 8.2 U | 35000 |
| 86-73-7 | FLUORENE | ug/kg | 140000 | 120000 | 15 U | 9500 | 15 U | 22000 |
| 118-74-1 | HEXACHLOROBENZENE | ug/kg | 460 U | 520 U | 16 U | 17 U | 17 U | 250 U |
| 87-68-3 | HEXACHLOROBUTADIENE | ug/kg | 410 U | 460 U | 14 U | 15 U | 15 U | 220 U |
| 77-47-4 | HEXACHLOROCYCLOPENTADIENE | ug/kg | 270 U | 310 U | 9.6 U | 9.9 U | 10 U | 150 U |
| 67-72-1 | HEXACHLOROETHANE | ug/kg | 510 U | 570 U | 18 U | 18 U | 18 U | 270 U |
| 193-39-5 | INDENO(1,2,3-C,D)PYRENE | ug/kg | 17000 | 16000 J | 13 U | 1100 | 14 U | 4600 J |
| 78-59-1 | ISOPHORONE | ug/kg | 370 U | 420 U | 13 U | 13 U | 14 U | 200 U |
| 91-20-3 | NAPHTHALENE | ug/kg | 1500000 | 920000 | 14 U | 170000 | 14 U | 73000 |
| 98-95-3 | NITROBENZENE | ug/kg | 430 U | 480 U | 15 U | 15 U | 15 U | 230 U |
| 621-64-7 | N-NITROSODI-N-PROPYLAMINE | ug/kg | 570 U | 640 U | 20 U | 20 U | 21 U | 300 U |
| 86-30-6 | N-NITROSODIPHENYLAMINE | ug/kg | 270 U | 310 U | 9.5 U | 9.7 U | 9.8 U | 140 U |
| 87-86-5 | PENTACHLOROPHENOL | ug/kg | 770 U | 870 U | 27 U | 28 U | 28 U | 410 U |
| 85-01-8 | PHENANTHRENE | ug/kg | 410000 | 400000 | 11 U | 31000 | 11 U | 75000 |
| 108-95-2 | PHENOL | ug/kg | 260 U | 290 U | 9.1 U | 9.4 U | 9.5 U | 140 U |
| 129-00-0 | PYRENE | ug/kg | 180000 | 180000 | 9.5 U | 13000 | 9.8 U | 45000 |

| Consolidated Edison<br>Farrington Street Remedial Investigation<br>Validated Soil Analytical Data<br>SDG: C3954 | | | Dup of SB-42(14-16) | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | Location ID: | SB-42 | SB-42 | SB-42 | SB-43 | SB-43 | SB-44 |
| | | Sample ID: | SB-42A(14-16) | SB-42(22-24) | SB-42(34-36) | SB-43(15-17) | SB-43(29-31) | SB-44(16.5-18) |
| | | Lab Sample Id: | C3954-07 | C3954-08 | C3954-01 | C3954-19 | C3954-18 | C3954-21 |
| | | Depth: | 14 - 16 ft | 22 - 24 ft | 34 - 36 ft | 15 - 17 ft | 29 - 31 ft | 16.5 - 18 ft |
| | | Source: | CTECH | CTECH | CTECH | CTECH | CTECH | CTECH |
| | | SDG: | C3954 | C3954 | C3954 | C3954 | C3954 | C3954 |
| | | Matrix: | SOIL | SOIL | SOIL | SOIL | SOIL | SOIL |
| | | Sampled: | 9/29/2011 | 9/30/2011 | 9/30/2011 | 9/27/2011 | 9/27/2011 | 9/28/2011 |
| | | Validated: | 1/23/2012 | 1/23/2012 | 1/23/2012 | 1/23/2012 | 1/23/2012 | 1/23/2012 |
| CAS NO. | COMPOUND | UNITS: | | | | | | |
| | INORGANICS | | | | | | | |
| 7429-90-5 | ALUMINUM | mg/kg | 3640 | 4020 | 5970 | 3100 | 3800 | 3210 |
| 7440-36-0 | ANTIMONY | mg/kg | 0.61 U | 0.72 U | 0.53 U | 0.46 U | 0.54 U | 0.45 U |
| 7440-38-2 | ARSENIC | mg/kg | 0.71 J | 0.43 U | 0.85 J | 0.27 U | 0.32 U | 0.51 J |
| 7440-39-3 | BARIUM | mg/kg | 33.2 J | 52.1 J | 47.4 J | 30.3 J | 49.1 J | 30.8 J |
| 7440-41-7 | BERYLLIUM | mg/kg | 0.11 J | 0.1 J | 0.37 | 0.09 J | 0.11 J | 0.1 J |
| 7440-43-9 | CADMIUM | mg/kg | 0.07 U | 0.08 U | 0.06 U | 0.05 U | 0.06 U | 0.05 U |
| 7440-70-2 | CALCIUM | mg/kg | 4920 J | 1030 J | 865 J | 731 J | 618 J | 763 J |
| 7440-47-3 | CHROMIUM, TOTAL | mg/kg | 10.1 J | 13.5 J | 19.6 J | 11.6 J | 12.1 J | 12.6 J |
| 7440-48-4 | COBALT | mg/kg | 4.57 | 5.28 | 5.43 | 3.24 | 4.7 | 4.89 |
| 7440-50-8 | COPPER | mg/kg | 13.1 | 12 | 11.9 | 6.21 | 8.1 | 16.4 |
| 7439-89-6 | IRON | mg/kg | 10500 | 12900 | 13000 | 6750 | 10700 | 12500 |
| 7439-92-1 | LEAD | mg/kg | 7.68 | 2.21 | 5.61 | 1.5 | 2.8 | 6.17 |
| 7439-95-4 | MAGNESIUM | mg/kg | 2600 | 1760 | 2040 | 1360 | 1740 | 1210 |
| 7439-96-5 | MANGANESE | mg/kg | 188 | 200 | 166 | 102 | 101 | 128 |
| 7439-97-6 | MERCURY | mg/kg | 0.207 | 0.006 J | 0.021 | 0.003 J | 0.011 | 0.008 J |
| 7440-02-0 | NICKEL | mg/kg | 13.9 | 12.6 | 14.6 | 14.2 | 13.2 | 12.1 |
| 7440-09-7 | POTASSIUM | mg/kg | 1010 J | 1990 J | 1510 J | 1110 J | 2100 J | 1090 J |
| 7782-49-2 | SELENIUM | mg/kg | 0.45 U | 0.53 U | 0.39 U | 0.34 U | 0.4 U | 0.33 U |
| 7440-22-4 | SILVER | mg/kg | 0.25 J | 0.31 J | 0.28 J | 0.14 J | 0.22 J | 0.26 J |
| 7440-23-5 | SODIUM | mg/kg | 155 | 506 | 160 | 84.2 | 124 | 244 |
| 7440-28-0 | THALLIUM | mg/kg | 0.3 U | 0.35 U | 0.25 U | 0.22 U | 0.26 U | 0.22 U |
| 7440-62-2 | VANADIUM | mg/kg | 11.5 | 16 | 18.6 | 11.2 | 14.6 | 16.1 |
| 7440-66-6 | ZINC | mg/kg | 23.4 | 26.2 | 34.3 | 19.7 | 28.8 | 19.5 |
| 57-12-5 | CYANIDE | mg/kg | 0.205 J | 0.042 U | 0.039 U | 0.057 J | 0.041 U | 0.209 J |

| Consolidated Edison<br>Farrington Street Remedial Investigation<br>Validated Soil Analytical Data<br>SDG: C3954 | | Location ID:<br>Sample ID:<br>Lab Sample Id:<br>Depth:<br>Source:<br>SDG:<br>Matrix:<br>Sampled:<br>Validated: | SB-44<br>SB-44(28-30)<br>C3954-25<br>28 - 30 ft<br>CTECH<br>C3954<br>SOIL<br>9/28/2011<br>1/23/2012 | SB-45<br>SB-45(13-15)<br>C3954-23<br>13 - 15 ft<br>CTECH<br>C3954<br>SOIL<br>9/28/2011<br>1/23/2012 | SB-45<br>SB-45(27-29)<br>C3954-22<br>27 - 29 ft<br>CTECH<br>C3954<br>SOIL<br>9/28/2011<br>1/23/2012 | SB-45<br>SB-45(43-45)<br>C3954-05<br>43 - 45 ft<br>CTECH<br>C3954<br>SOIL<br>9/29/2011<br>1/23/2012 | FIELDQC<br>FB093011<br>C3954-02<br>-<br>CTECH<br>C3954<br>WATER<br>9/30/2011<br>1/23/2012 |
|---|---|---|---|---|---|---|---|
| CAS NO. | COMPOUND | UNITS: | | | | | ug/L |
| | VOLATILES | | | | | | |
| 71-55-6 | 1,1,1-TRICHLOROETHANE | ug/kg | 1.2 U | 480 U | 490 U | 1.1 U | 0.4 U |
| 79-34-5 | 1,1,2,2-TETRACHLOROETHANE | ug/kg | 0.61 U | 370 U | 380 U | 0.57 U | 0.31 U |
| 76-13-1 | 1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE | ug/kg | 1.8 U | 540 U | 560 U | 1.6 U | 0.45 U |
| 79-00-5 | 1,1,2-TRICHLOROETHANE | ug/kg | 1.2 U | 450 U | 470 U | 1.1 U | 0.38 U |
| 75-34-3 | 1,1-DICHLOROETHANE | ug/kg | 1.3 U | 430 U | 440 U | 1.2 U | 0.36 U |
| 75-35-4 | 1,1-DICHLOROETHENE | ug/kg | 2 U | 560 U | 580 U | 1.8 U | 0.47 U |
| 120-82-1 | 1,2,4-TRICHLOROBENZENE | ug/kg | 0.93 U | 740 U | 770 U | 0.87 U | 0.62 U |
| 96-12-8 | 1,2-DIBROMO-3-CHLOROPROPANE | ug/kg | 1.2 U | 550 U | 570 U | 1.1 U | 0.46 U |
| 106-93-4 | 1,2-DIBROMOETHANE | ug/kg | 0.85 U | 490 U | 510 U | 0.79 U | 0.41 U |
| 95-50-1 | 1,2-DICHLOROBENZENE | ug/kg | 0.82 U | 540 U | 560 U | 0.77 U | 0.45 U |
| 107-06-2 | 1,2-DICHLOROETHANE | ug/kg | 0.85 U | 570 U | 590 U | 0.79 U | 0.48 U |
| 78-87-5 | 1,2-DICHLOROPROPANE | ug/kg | 0.35 U | 550 U | 570 U | 0.32 U | 0.46 U |
| 541-73-1 | 1,3-DICHLOROBENZENE | ug/kg | 0.49 U | 510 U | 530 U | 0.46 U | 0.43 U |
| 106-46-7 | 1,4-DICHLOROBENZENE | ug/kg | 0.55 U | 380 U | 400 U | 0.51 U | 0.32 U |
| 591-78-6 | 2-HEXANONE | ug/kg | 5.2 U | 2300 U | 2400 U | 4.9 U | 1.9 U |
| 67-64-1 | ACETONE | ug/kg | R | 3300 U | 3400 U | 3.7 U | 2.8 U |
| 71-43-2 | BENZENE | ug/kg | 0.51 U | 380 U | 400 U | 0.47 U | 0.32 U |
| 75-27-4 | BROMODICHLOROMETHANE | ug/kg | 0.82 U | 430 U | 440 U | 0.77 U | 0.36 UJ |
| 75-25-2 | BROMOFORM | ug/kg | 0.98 U | 560 U | 580 U | 0.92 U | 0.47 U |
| 74-83-9 | BROMOMETHANE | ug/kg | 3.3 U | 740 U | 770 U | 3 U | 0.62 UJ |
| 75-15-0 | CARBON DISULFIDE | ug/kg | 1.4 U | 650 U | 670 U | 1.3 U | 0.54 U |
| 56-23-5 | CARBON TETRACHLORIDE | ug/kg | 1.3 U | 740 U | 770 U | 1.2 U | 0.62 U |
| 108-90-7 | CHLOROBENZENE | ug/kg | 0.67 U | 590 U | 600 U | 0.62 U | 0.49 U |
| 75-00-3 | CHLOROETHANE | ug/kg | 1.9 U | 790 U | 810 U | 1.7 U | 0.66 U |
| 67-66-3 | CHLOROFORM | ug/kg | 0.98 U | 410 U | 420 U | 0.92 U | 0.34 U |
| 74-87-3 | CHLOROMETHANE | ug/kg | 1.1 U | 650 U | 670 U | 1.1 U | 0.54 U |
| 156-59-2 | CIS-1,2-DICHLOROETHYLENE | ug/kg | 1.2 U | 420 U | 430 U | 1.1 U | 0.35 U |
| 10061-01-5 | CIS-1,3-DICHLOROPROPENE | ug/kg | 0.96 U | 370 U | 380 U | 0.89 U | 0.31 U |
| 110-82-7 | CYCLOHEXANE | ug/kg | 1.3 U | 660 U | 680 U | 1.3 U | 0.55 U |
| 124-48-1 | DIBROMOCHLOROMETHANE | ug/kg | 0.72 U | 620 U | 640 U | 0.67 U | 0.52 U |
| 75-71-8 | DICHLORODIFLUOROMETHANE | ug/kg | 0.86 U | 660 U | 680 U | 0.81 U | 0.55 U |
| 100-41-4 | ETHYLBENZENE | ug/kg | 0.82 U | 4600 J | 7400 | 0.77 U | 0.53 U |
| 98-82-8 | ISOPROPYLBENZENE (CUMENE) | ug/kg | 0.64 U | 6300 | 560 U | 0.6 U | 0.45 U |
| 79-20-9 | METHYL ACETATE | ug/kg | 2 U | 990 UJ | 1000 UJ | 1.9 U | 0.83 U |
| 78-93-3 | METHYL ETHYL KETONE (2-BUTANONE) | ug/kg | 4.1 U | 1600 U | 1600 U | 3.9 U | 1.3 U |
| 108-10-1 | METHYL ISOBUTYL KETONE | ug/kg | 3.9 U | 2500 U | 2600 U | 3.6 U | 2.1 U |
| 108-87-2 | METHYLCYCLOHEXANE | ug/kg | 1.4 U | 810 U | 840 U | 1.3 U | 0.68 U |
| 75-09-2 | METHYLENE CHLORIDE | ug/kg | 3.1 J | 490 U | 510 U | 3 J | 0.41 U |
| 95-47-6 | O-XYLENE (1,2-DIMETHYLBENZENE) | ug/kg | 0.9 U | 510 U | 4500 J | 0.84 U | 0.43 U |
| 100-42-5 | STYRENE | ug/kg | 0.6 U | 430 U | 440 U | 0.56 U | 0.36 U |
| 1634-04-4 | TERT-BUTYL METHYL ETHER | ug/kg | 1.3 U | 420 U | 430 U | 1.2 U | 0.35 U |
| 127-18-4 | TETRACHLOROETHYLENE(PCE) | ug/kg | 1.3 U | 320 UJ | 330 UJ | 6.3 | 0.27 U |
| 108-88-3 | TOLUENE | ug/kg | 0.85 U | 440 U | 460 U | 0.79 U | 0.37 U |
| 156-60-5 | TRANS-1,2-DICHLOROETHENE | ug/kg | 0.92 U | 490 U | 510 U | 0.86 U | 0.41 U |
| 10061-02-6 | TRANS-1,3-DICHLOROPROPENE | ug/kg | 1.1 U | 350 U | 360 U | 0.98 U | 0.29 U |
| 79-01-6 | TRICHLOROETHYLENE (TCE) | ug/kg | 1.1 U | 330 U | 350 U | 1.1 U | 0.28 U |
| 75-69-4 | TRICHLOROFLUOROMETHANE | ug/kg | 1.8 U | 420 U | 430 U | 1.6 U | 0.35 U |
| 75-01-4 | VINYL CHLORIDE | ug/kg | 1.6 U | 410 U | 420 U | 1.5 U | 0.34 U |
| XYLMP | M,P-XYLENE (SUM OF ISOMERS) | ug/kg | 0.96 U | 1100 U | 3900 J | 0.89 U | 0.95 U |

| Consolidated Edison<br>Farrington Street Remedial Investigation<br>Validated Soil Analytical Data<br>SDG: C3954 | | Location ID:<br>Sample ID:<br>Lab Sample Id:<br>Depth:<br>Source:<br>SDG:<br>Matrix:<br>Sampled:<br>Validated: | SB-44<br>SB-44(28-30)<br>C3954-25<br>28 - 30 ft<br>CTECH<br>C3954<br>SOIL<br>9/28/2011<br>1/23/2012 | SB-45<br>SB-45(13-15)<br>C3954-23<br>13 - 15 ft<br>CTECH<br>C3954<br>SOIL<br>9/28/2011<br>1/23/2012 | SB-45<br>SB-45(27-29)<br>C3954-22<br>27 - 29 ft<br>CTECH<br>C3954<br>SOIL<br>9/28/2011<br>1/23/2012 | SB-45<br>SB-45(43-45)<br>C3954-05<br>43 - 45 ft<br>CTECH<br>C3954<br>SOIL<br>9/29/2011<br>1/23/2012 | FIELDQC<br>FB093011<br>C3954-02<br>-<br>CTECH<br>C3954<br>WATER<br>9/30/2011<br>1/23/2012 |
|---|---|---|---|---|---|---|---|
| CAS NO. | COMPOUND | UNITS: | | | | | ug/L |
| | SEMIVOLATILES | | | | | | |
| 95-95-4 | 2,4,5-TRICHLOROPHENOL | ug/kg | 32 U | 28 U | 860 U | 29 U | R |
| 88-06-2 | 2,4,6-TRICHLOROPHENOL | ug/kg | 14 U | 12 U | 380 U | 13 U | R |
| 120-83-2 | 2,4-DICHLOROPHENOL | ug/kg | 17 U | 15 U | 470 U | 16 U | R |
| 105-67-9 | 2,4-DIMETHYLPHENOL | ug/kg | 25 U | 23 U | 700 U | 24 U | R |
| 51-28-5 | 2,4-DINITROPHENOL | ug/kg | 46 UJ | 41 UJ | 1200 UJ | 42 UJ | R |
| 121-14-2 | 2,4-DINITROTOLUENE | ug/kg | 14 U | 12 U | 370 U | 13 U | 1 U |
| 606-20-2 | 2,6-DINITROTOLUENE | ug/kg | 18 U | 17 U | 500 U | 17 U | 0.32 U |
| 91-58-7 | 2-CHLORONAPHTHALENE | ug/kg | 10 U | 9.2 U | 280 U | 9.5 U | 0.16 U |
| 95-57-8 | 2-CHLOROPHENOL | ug/kg | 24 U | 21 U | 650 U | 22 U | R |
| 91-57-6 | 2-METHYLNAPHTHALENE | ug/kg | 11 U | 100000 | 180000 | 10 U | 0.32 U |
| 95-48-7 | 2-METHYLPHENOL (O-CRESOL) | ug/kg | 24 U | 22 U | 670 U | 23 U | R |
| 88-74-4 | 2-NITROANILINE | ug/kg | 20 U | 18 U | 550 U | 18 U | 0.49 U |
| 88-75-5 | 2-NITROPHENOL | ug/kg | 22 U | 20 U | 590 U | 20 U | R |
| 91-94-1 | 3,3'-DICHLOROBENZIDINE | ug/kg | 29 U | 26 U | 790 U | 27 U | 2 U |
| 99-09-2 | 3-NITROANILINE | ug/kg | 29 U | 26 U | 790 U | 27 U | 1.1 U |
| 534-52-1 | 4,6-DINITRO-2-METHYLPHENOL | ug/kg | 26 U | 23 U | 700 U | 24 U | R |
| 101-55-3 | 4-BROMOPHENYL PHENYL ETHER | ug/kg | 8.8 U | 7.9 U | 240 U | 8.1 U | 0.23 U |
| 59-50-7 | 4-CHLORO-3-METHYLPHENOL | ug/kg | 20 U | 18 U | 550 U | 18 U | R |
| 106-47-8 | 4-CHLOROANILINE | ug/kg | 32 U | 29 U | 870 U | 29 U | 2.9 U |
| 7005-72-3 | 4-CHLOROPHENYL PHENYL ETHER | ug/kg | 24 U | 22 U | 670 U | 23 U | 0.21 U |
| 100-01-6 | 4-NITROANILINE | ug/kg | 58 U | 53 U | 1600 U | 54 U | 1.4 U |
| 100-02-7 | 4-NITROPHENOL | ug/kg | 83 U | 75 U | 2300 U | 77 U | R |
| 83-32-9 | ACENAPHTHENE | ug/kg | 13 U | 24000 | 180000 | 12 U | 0.21 U |
| 208-96-8 | ACENAPHTHYLENE | ug/kg | 11 U | 1100 | 23000 | 10 U | 0.7 U |
| 98-86-2 | ACETOPHENONE | ug/kg | 14 U | 12 U | 380 U | 13 U | 0.14 U |
| 120-12-7 | ANTHRACENE | ug/kg | 9.2 U | 11000 | 75000 | 8.5 U | 0.16 U |
| 1912-24-9 | ATRAZINE | ug/kg | 24 U | 21 U | 650 U | 22 U | 0.4 U |
| 100-52-7 | BENZALDEHYDE | ug/kg | 23 U | 21 U | 640 U | 22 U | 0.77 U |
| 56-55-3 | BENZO(A)ANTHRACENE | ug/kg | 21 U | 7200 | 56000 | 20 U | 0.16 U |
| 50-32-8 | BENZO(A)PYRENE | ug/kg | 9.7 U | 4200 | 39000 | 9 U | 0.14 U |
| 205-99-2 | BENZO(B)FLUORANTHENE | ug/kg | 15 U | 3300 J | 34000 | 14 U | 0.29 U |
| 191-24-2 | BENZO(G,H,I)PERYLENE | ug/kg | 18 U | 940 | 14000 | 17 U | 0.29 U |
| 207-08-9 | BENZO(K)FLUORANTHENE | ug/kg | 21 U | 790 | 8700 J | 20 U | 0.18 U |
| 85-68-7 | BENZYL BUTYL PHTHALATE | ug/kg | 22 U | 19 U | 590 U | 20 U | 0.19 U |
| 92-52-4 | BIPHENYL (DIPHENYL) | ug/kg | 17 U | 1800 | 40000 | 16 U | 0.15 U |
| 111-91-1 | BIS(2-CHLOROETHOXY) METHANE | ug/kg | 26 U | 23 U | 710 U | 24 U | 0.55 U |
| 111-44-4 | BIS(2-CHLOROETHYL) ETHER | ug/kg | 22 U | 19 U | 590 U | 20 U | 0.55 U |
| 108-60-1 | BIS(2-CHLOROISOPROPYL) ETHER | ug/kg | 19 U | 17 U | 510 U | 17 U | 0.17 U |
| 117-81-7 | BIS(2-ETHYLHEXYL) PHTHALATE | ug/kg | 16 U | 190 J | 430 U | 15 U | 0.16 U |
| 105-60-2 | CAPROLACTAM | ug/kg | 21 U | 19 U | 570 U | 19 U | 2 U |
| 86-74-8 | CARBAZOLE | ug/kg | 9.8 U | 330 J | 270 U | 9.1 U | 0.22 U |
| 218-01-9 | CHRYSENE | ug/kg | 20 U | 6700 | 50000 | 19 U | 0.18 U |
| MEPH1314 | CRESOLS, M & P | ug/kg | 23 U | 21 U | 640 U | 22 U | R |
| 53-70-3 | DIBENZ(A,H)ANTHRACENE | ug/kg | 13 U | 490 | 350 U | 12 U | 0.42 U |
| 132-64-9 | DIBENZOFURAN | ug/kg | 18 U | 1300 | 10000 J | 16 U | 0.24 U |
| 84-66-2 | DIETHYL PHTHALATE | ug/kg | 7 U | 6.3 U | 190 U | 6.5 U | 0.38 U |
| 131-11-3 | DIMETHYL PHTHALATE | ug/kg | 12 U | 11 U | 330 U | 11 U | 0.22 U |
| 84-74-2 | DI-N-BUTYL PHTHALATE | ug/kg | 35 U | 32 U | 970 U | 33 U | 2 U |
| 117-84-0 | DI-N-OCTYLPHTHALATE | ug/kg | 5.1 U | 4.6 U | 140 U | 4.7 U | 0.51 U |
| 206-44-0 | FLUORANTHENE | ug/kg | 9 U | 12000 | 88000 | 8.4 U | 0.4 U |
| 86-73-7 | FLUORENE | ug/kg | 17 U | 12000 | 83000 | 16 U | 0.31 U |
| 118-74-1 | HEXACHLOROBENZENE | ug/kg | 18 U | 17 U | 500 U | 17 U | 0.18 U |
| 87-68-3 | HEXACHLOROBUTADIENE | ug/kg | 16 U | 15 U | 450 U | 15 U | 0.25 U |
| 77-47-4 | HEXACHLOROCYCLOPENTADIENE | ug/kg | 11 U | 9.9 U | 300 U | 10 U | 0.24 U |
| 67-72-1 | HEXACHLOROETHANE | ug/kg | 20 U | 18 U | 550 U | 19 U | 0.25 U |
| 193-39-5 | INDENO(1,2,3-C,D)PYRENE | ug/kg | 15 U | 1900 | 12000 J | 14 U | 0.15 U |
| 78-59-1 | ISOPHORONE | ug/kg | 15 U | 13 U | 410 U | 14 U | 0.3 U |
| 91-20-3 | NAPHTHALENE | ug/kg | 15 U | 200000 | 490000 | 14 U | 0.12 U |
| 98-95-3 | NITROBENZENE | ug/kg | 17 U | 15 U | 460 U | 16 U | 0.68 U |
| 621-64-7 | N-NITROSODI-N-PROPYLAMINE | ug/kg | 23 U | 20 U | 620 U | 21 U | 0.2 U |
| 86-30-6 | N-NITROSODIPHENYLAMINE | ug/kg | 11 U | 9.7 U | 290 U | 10 U | 0.6 U |
| 87-86-5 | PENTACHLOROPHENOL | ug/kg | 31 U | 28 U | 840 U | 28 U | R |
| 85-01-8 | PHENANTHRENE | ug/kg | 12 U | 38000 | 310000 | 11 U | 0.26 U |
| 108-95-2 | PHENOL | ug/kg | 10 U | 9.4 U | 280 U | 9.6 U | R |
| 129-00-0 | PYRENE | ug/kg | 11 U | 18000 | 140000 | 10 U | 0.2 U |

| Consolidated Edison<br>Farrington Street Remedial Investigation<br>Validated Soil Analytical Data<br>SDG: C3954 | | Location ID:<br>Sample ID:<br>Lab Sample Id:<br>Depth:<br>Source:<br>SDG:<br>Matrix:<br>Sampled:<br>Validated: | SB-44<br>SB-44(28-30)<br>C3954-25<br>28 - 30 ft<br>CTECH<br>C3954<br>SOIL<br>9/28/2011<br>1/23/2012 | SB-45<br>SB-45(13-15)<br>C3954-23<br>13 - 15 ft<br>CTECH<br>C3954<br>SOIL<br>9/28/2011<br>1/23/2012 | SB-45<br>SB-45(27-29)<br>C3954-22<br>27 - 29 ft<br>CTECH<br>C3954<br>SOIL<br>9/28/2011<br>1/23/2012 | SB-45<br>SB-45(43-45)<br>C3954-05<br>43 - 45 ft<br>CTECH<br>C3954<br>SOIL<br>9/29/2011<br>1/23/2012 | FIELDQC<br>FB093011<br>C3954-02<br>-<br>CTECH<br>C3954<br>WATER<br>9/30/2011<br>1/23/2012 |
|---|---|---|---|---|---|---|---|
| CAS NO. | COMPOUND | UNITS: | | | | | ug/L |
| | INORGANICS | | | | | | |
| 7429-90-5 | ALUMINUM | mg/kg | 6550 | 4550 | 1950 | 7060 | 24.6 J |
| 7440-36-0 | ANTIMONY | mg/kg | 0.76 U | 0.48 U | 0.64 U | 0.57 U | 8 U |
| 7440-38-2 | ARSENIC | mg/kg | 0.45 U | 0.28 U | 0.38 U | 0.33 U | 4.2 U |
| 7440-39-3 | BARIUM | mg/kg | 97 J | 56.1 J | 22.7 J | 95.8 J | 4 U |
| 7440-41-7 | BERYLLIUM | mg/kg | 0.1 J | 0.15 J | 0.07 U | 0.18 J | 0.7 U |
| 7440-43-9 | CADMIUM | mg/kg | 0.08 U | 0.12 J | 0.07 U | 0.09 J | 0.5 U |
| 7440-70-2 | CALCIUM | mg/kg | 912 J | 696 J | 581 J | 915 J | 31.8 U |
| 7440-47-3 | CHROMIUM, TOTAL | mg/kg | 17.9 J | 14.1 J | 8.11 J | 20.8 J | 1.1 U |
| 7440-48-4 | COBALT | mg/kg | 6.61 | 6.07 | 2.98 | 7.93 | 5.8 U |
| 7440-50-8 | COPPER | mg/kg | 13.3 | 10.2 | 6.88 | 13.1 | 2 U |
| 7439-89-6 | IRON | mg/kg | 13100 | 13000 | 7610 | 17000 | 20.4 U |
| 7439-92-1 | LEAD | mg/kg | 2.48 | 2.32 | 1.26 | 3.31 | 2.6 U |
| 7439-95-4 | MAGNESIUM | mg/kg | 3000 | 1870 | 818 | 3090 | 32.5 U |
| 7439-96-5 | MANGANESE | mg/kg | 189 | 154 | 63.8 | 220 | 1.7 U |
| 7439-97-6 | MERCURY | mg/kg | 0.003 J | 0.003 J | 0.004 J | 0.009 J | 0.092 U |
| 7440-02-0 | NICKEL | mg/kg | 14.9 | 14.3 | 7.34 | 16.1 | 4.2 U |
| 7440-09-7 | POTASSIUM | mg/kg | 3860 J | 2460 J | 943 J | 4160 J | 38.8 U |
| 7782-49-2 | SELENIUM | mg/kg | 0.56 U | 0.35 U | 0.47 U | 0.41 U | 4.8 U |
| 7440-22-4 | SILVER | mg/kg | 0.3 J | 0.27 J | 0.2 J | 0.29 J | 1.5 U |
| 7440-23-5 | SODIUM | mg/kg | 312 | 124 | 134 | 201 | 13.9 U |
| 7440-28-0 | THALLIUM | mg/kg | 0.37 U | 0.23 U | 0.31 U | 0.27 U | 2.4 U |
| 7440-62-2 | VANADIUM | mg/kg | 18.9 | 17.7 | 10.5 | 26.9 | 6.1 U |
| 7440-66-6 | ZINC | mg/kg | 34.3 | 37.4 | 16.7 | 41.4 | 6.5 U |
| 57-12-5 | CYANIDE | mg/kg | 0.093 J | 0.04 U | 0.041 U | 0.041 U | 3 U |

| Consolidated Edison<br>Farrington Street Remedial Investigation<br>Validated Soil Analytical Data<br>SDG: C4297 | | Location ID:<br>Sample ID:<br>Lab Sample Id:<br>Depth:<br>Source:<br>SDG:<br>Matrix:<br>Sampled:<br>Validated: | CMW-39<br>CMW-39(22-24)<br>C4297-03<br>22 - 24 ft<br>CTECH<br>C4297<br>SOIL<br>10/20/2011<br>1/23/2012 | CMW-39<br>CMW-39(40-42)<br>C4297-04<br>40 - 42 ft<br>CTECH<br>C4297<br>SOIL<br>10/20/2011<br>1/23/2012 | CMW-40<br>CMW-40(36-38)<br>C4297-01<br>36 - 38 ft<br>CTECH<br>C4297<br>SOIL<br>10/17/2011<br>1/23/2012 | CMW-40<br>CMW-40(40-42)<br>C4297-02<br>40 - 42 ft<br>CTECH<br>C4297<br>SOIL<br>10/17/2011<br>1/23/2012 | FIELDQC<br>FB102011<br>C4297-05<br>-<br>CTECH<br>C4297<br>WATER<br>10/20/2011<br>1/23/2012 |
|---|---|---|---|---|---|---|---|
| CAS NO. | COMPOUND | UNITS: | | | | | ug/L |
| | VOLATILES | | | | | | |
| 71-55-6 | 1,1,1-TRICHLOROETHANE | ug/kg | 1.1 U | 0.96 U | 1 U | 1.1 U | 0.4 U |
| 79-34-5 | 1,1,2,2-TETRACHLOROETHANE | ug/kg | 50 | 3 J | 0.54 U | 7.5 | 0.31 U |
| 76-13-1 | 1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE | ug/kg | 1.7 U | 1.4 U | 1.6 U | 1.6 U | 0.45 U |
| 79-00-5 | 1,1,2-TRICHLOROETHANE | ug/kg | 1.1 U | 0.98 U | 1.1 U | 1.1 U | 0.38 U |
| 75-34-3 | 1,1-DICHLOROETHANE | ug/kg | 1.2 U | 1 U | 1.1 U | 1.1 U | 0.36 U |
| 75-35-4 | 1,1-DICHLOROETHENE | ug/kg | 1.8 UJ | 1.6 UJ | 1.7 UJ | 1.8 UJ | 0.47 U |
| 120-82-1 | 1,2,4-TRICHLOROBENZENE | ug/kg | 0.88 UJ | 0.76 UJ | 0.83 UJ | 0.84 UJ | 0.62 U |
| 96-12-8 | 1,2-DIBROMO-3-CHLOROPROPANE | ug/kg | 1.1 U | 0.95 U | 1 U | 1 U | 0.46 U |
| 106-93-4 | 1,2-DIBROMOETHANE | ug/kg | 0.8 U | 0.7 U | 0.76 U | 0.77 U | 0.41 U |
| 95-50-1 | 1,2-DICHLOROBENZENE | ug/kg | 0.78 U | 0.67 U | 0.73 U | 0.74 U | 0.45 U |
| 107-06-2 | 1,2-DICHLOROETHANE | ug/kg | 0.8 U | 0.7 U | 0.76 U | 0.77 U | 0.48 U |
| 78-87-5 | 1,2-DICHLOROPROPANE | ug/kg | 0.32 U | 0.28 U | 0.31 U | 0.31 U | 0.46 U |
| 541-73-1 | 1,3-DICHLOROBENZENE | ug/kg | 0.46 U | 0.4 U | 0.44 U | 0.44 U | 0.43 U |
| 106-46-7 | 1,4-DICHLOROBENZENE | ug/kg | 0.51 U | 0.45 U | 0.48 U | 0.49 U | 0.32 U |
| 591-78-6 | 2-HEXANONE | ug/kg | 4.9 U | 4.3 U | 4.6 U | 4.7 U | 1.9 U |
| 67-64-1 | ACETONE | ug/kg | 3.8 U | 3.3 U | 3.6 U | 3.6 U | 2.8 U |
| 71-43-2 | BENZENE | ug/kg | 0.48 U | 0.41 U | 0.45 U | 0.46 U | 0.32 U |
| 75-27-4 | BROMODICHLOROMETHANE | ug/kg | 0.78 U | 0.67 U | 0.73 U | 0.74 U | 0.36 U |
| 75-25-2 | BROMOFORM | ug/kg | 0.92 U | 0.81 U | 0.87 U | 0.89 U | 0.47 U |
| 74-83-9 | BROMOMETHANE | ug/kg | 3.1 UJ | 2.7 UJ | 2.9 UJ | 2.9 UJ | 0.62 U |
| 75-15-0 | CARBON DISULFIDE | ug/kg | 1.3 UJ | 1.2 UJ | 1.3 UJ | 1.3 UJ | 0.54 U |
| 56-23-5 | CARBON TETRACHLORIDE | ug/kg | 1.2 U | 1.1 U | 1.2 U | 1.2 U | 0.62 U |
| 108-90-7 | CHLOROBENZENE | ug/kg | 0.62 U | 0.54 U | 0.59 U | 0.6 U | 0.49 U |
| 75-00-3 | CHLOROETHANE | ug/kg | 1.8 U | 1.5 U | 1.7 U | 1.7 U | 0.66 U |
| 67-66-3 | CHLOROFORM | ug/kg | 0.92 U | 0.81 U | 0.87 U | 0.89 U | 0.34 U |
| 74-87-3 | CHLOROMETHANE | ug/kg | 1.1 U | 0.94 U | 1 U | 1 U | 0.54 U |
| 156-59-2 | CIS-1,2-DICHLOROETHYLENE | ug/kg | 1.1 U | 0.97 U | 1.1 U | 1.1 U | 0.35 U |
| 10061-01-5 | CIS-1,3-DICHLOROPROPENE | ug/kg | 0.9 U | 0.78 U | 0.85 U | 0.86 U | 0.31 U |
| 110-82-7 | CYCLOHEXANE | ug/kg | 1.3 U | 1.1 U | 1.2 U | 1.2 U | 0.55 U |
| 124-48-1 | DIBROMOCHLOROMETHANE | ug/kg | 0.68 U | 0.59 U | 0.64 U | 0.65 U | 0.52 U |
| 75-71-8 | DICHLORODIFLUOROMETHANE | ug/kg | 0.81 U | 0.71 U | 0.77 U | 0.78 U | 0.55 U |
| 100-41-4 | ETHYLBENZENE | ug/kg | 0.78 U | 0.67 U | 0.73 U | 0.74 U | 0.53 U |
| 98-82-8 | ISOPROPYLBENZENE (CUMENE) | ug/kg | 0.6 U | 0.52 U | 0.57 U | 0.57 U | 0.45 U |
| 79-20-9 | METHYL ACETATE | ug/kg | 1.9 U | 1.6 U | 1.8 U | 1.8 U | 0.83 U |
| 78-93-3 | METHYL ETHYL KETONE (2-BUTANONE) | ug/kg | 3.9 U | 3.4 U | 3.7 U | 3.7 U | 1.3 U |
| 108-10-1 | METHYL ISOBUTYL KETONE | ug/kg | 3.6 U | 3.2 U | 3.4 U | 3.5 U | 2.1 U |
| 108-87-2 | METHYLCYCLOHEXANE | ug/kg | 1.3 U | 1.2 U | 1.3 U | 1.3 U | 0.68 U |
| 75-09-2 | METHYLENE CHLORIDE | ug/kg | 1.8 U | 1.5 U | 1.7 U | 1.7 U | 0.41 U |
| 95-47-6 | O-XYLENE (1,2-DIMETHYLBENZENE) | ug/kg | 0.85 U | 0.74 U | 0.8 U | 0.81 U | 0.43 U |
| 100-42-5 | STYRENE | ug/kg | 0.56 U | 0.49 U | 0.53 U | 0.54 U | 0.36 U |
| 1634-04-4 | TERT-BUTYL METHYL ETHER | ug/kg | 1.2 U | 1 U | 1.1 U | 1.1 U | 0.35 U |
| 127-18-4 | TETRACHLOROETHYLENE(PCE) | ug/kg | 1.3 U | 1.1 U | 1.2 U | 1.2 U | 0.27 U |
| 108-88-3 | TOLUENE | ug/kg | 0.8 U | 0.7 U | 0.76 U | 0.77 U | 0.37 U |
| 156-60-5 | TRANS-1,2-DICHLOROETHENE | ug/kg | 0.86 UJ | 0.75 UJ | 0.82 UJ | 0.83 UJ | 0.41 U |
| 10061-02-6 | TRANS-1,3-DICHLOROPROPENE | ug/kg | 0.99 U | 0.86 U | 0.93 U | 0.95 U | 0.29 U |
| 79-01-6 | TRICHLOROETHYLENE (TCE) | ug/kg | 10 | 0.94 U | 1 U | 1 U | 0.28 U |
| 75-69-4 | TRICHLOROFLUOROMETHANE | ug/kg | 1.6 UJ | 1.4 UJ | 1.6 UJ | 1.6 UJ | 0.35 U |
| 75-01-4 | VINYL CHLORIDE | ug/kg | 1.5 U | 1.3 U | 1.5 U | 1.5 U | 0.34 U |
| XYLMP | M,P-XYLENE (SUM OF ISOMERS) | ug/kg | 0.9 U | 0.78 U | 0.85 U | 0.86 U | 0.95 U |

| Consolidated Edison<br>Farrington Street Remedial Investigation<br>Validated Soil Analytical Data<br>SDG: C4297 | | Location ID:<br>Sample ID:<br>Lab Sample Id:<br>Depth:<br>Source:<br>SDG:<br>Matrix:<br>Sampled:<br>Validated: | CMW-39<br>CMW-39(22-24)<br>C4297-03<br>22 - 24 ft<br>CTECH<br>C4297<br>SOIL<br>10/20/2011<br>1/23/2012 | CMW-39<br>CMW-39(40-42)<br>C4297-04<br>40 - 42 ft<br>CTECH<br>C4297<br>SOIL<br>10/20/2011<br>1/23/2012 | CMW-40<br>CMW-40(36-38)<br>C4297-01<br>36 - 38 ft<br>CTECH<br>C4297<br>SOIL<br>10/17/2011<br>1/23/2012 | CMW-40<br>CMW-40(40-42)<br>C4297-02<br>40 - 42 ft<br>CTECH<br>C4297<br>SOIL<br>10/17/2011<br>1/23/2012 | FIELDQC<br>FB102011<br>C4297-05<br>-<br>CTECH<br>C4297<br>WATER<br>10/20/2011<br>1/23/2012 |
|---|---|---|---|---|---|---|---|
| CAS NO. | COMPOUND | UNITS: | | | | | ug/L |
| | SEMIVOLATILES | | | | | | |
| 95-95-4 | 2,4,5-TRICHLOROPHENOL | ug/kg | 29 U | 26 U | 27 U | 28 U | 0.47 U |
| 88-06-2 | 2,4,6-TRICHLOROPHENOL | ug/kg | 13 U | 11 U | 12 U | 12 U | 0.65 U |
| 120-83-2 | 2,4-DICHLOROPHENOL | ug/kg | 16 U | 14 U | 15 U | 15 U | 0.77 U |
| 105-67-9 | 2,4-DIMETHYLPHENOL | ug/kg | 24 U | 21 U | 22 U | 22 U | 0.83 U |
| 51-28-5 | 2,4-DINITROPHENOL | ug/kg | 42 UJ | 37 UJ | 40 UJ | 40 UJ | 2.4 UJ |
| 121-14-2 | 2,4-DINITROTOLUENE | ug/kg | 13 U | 11 U | 12 U | 12 U | 1.2 U |
| 606-20-2 | 2,6-DINITROTOLUENE | ug/kg | 17 U | 15 U | 16 U | 16 U | 0.37 U |
| 91-58-7 | 2-CHLORONAPHTHALENE | ug/kg | 9.5 U | 8.3 U | 8.9 U | 9 U | 0.19 U |
| 95-57-8 | 2-CHLOROPHENOL | ug/kg | 22 U | 19 U | 21 U | 21 U | 0.63 U |
| 91-57-6 | 2-METHYLNAPHTHALENE | ug/kg | 10 U | 9.2 U | 9.9 U | 10 U | 0.37 U |
| 95-48-7 | 2-METHYLPHENOL (O-CRESOL) | ug/kg | 23 U | 20 U | 21 U | 22 U | 0.28 U |
| 88-74-4 | 2-NITROANILINE | ug/kg | 18 U | 16 U | 17 U | 18 U | 0.57 U |
| 88-75-5 | 2-NITROPHENOL | ug/kg | 20 U | 18 U | 19 U | 19 U | 0.6 U |
| 91-94-1 | 3,3'-DICHLOROBENZIDINE | ug/kg | 27 U | 23 U | 25 U | 25 U | 2.3 U |
| MEPH3MEPH | 3- AND 4- METHYLPHENOL (TOTAL) | ug/kg | 22 U | 19 U | 20 U | 21 U | 0.44 U |
| 99-09-2 | 3-NITROANILINE | ug/kg | 27 U | 23 U | 25 U | 25 U | 1.3 U |
| 534-52-1 | 4,6-DINITRO-2-METHYLPHENOL | ug/kg | 24 UJ | 21 UJ | 22 UJ | 23 UJ | 0.86 UJ |
| 101-55-3 | 4-BROMOPHENYL PHENYL ETHER | ug/kg | 8.1 U | 7.1 U | 7.6 U | 7.7 U | 0.27 U |
| 59-50-7 | 4-CHLORO-3-METHYLPHENOL | ug/kg | 18 U | 16 U | 17 U | 18 U | 0.47 U |
| 106-47-8 | 4-CHLOROANILINE | ug/kg | 29 U | 26 U | 28 U | 28 U | 3.3 U |
| 7005-72-3 | 4-CHLOROPHENYL PHENYL ETHER | ug/kg | 23 U | 20 U | 21 U | 22 U | 0.24 U |
| 100-01-6 | 4-NITROANILINE | ug/kg | 54 U | 48 U | 51 U | 52 U | 1.6 U |
| 100-02-7 | 4-NITROPHENOL | ug/kg | 77 U | 68 U | 73 U | 74 U | 2.3 U |
| 83-32-9 | ACENAPHTHENE | ug/kg | 12 U | 10 U | 11 U | 11 U | 0.24 U |
| 208-96-8 | ACENAPHTHYLENE | ug/kg | 10 U | 9.2 U | 9.9 U | 10 U | 0.81 U |
| 98-86-2 | ACETOPHENONE | ug/kg | 13 U | 11 U | 12 U | 12 U | 0.16 U |
| 120-12-7 | ANTHRACENE | ug/kg | 8.5 U | 7.5 U | 8 U | 8.1 U | 0.19 U |
| 1912-24-9 | ATRAZINE | ug/kg | 22 UJ | 19 UJ | 21 UJ | 21 UJ | 0.47 UJ |
| 100-52-7 | BENZALDEHYDE | ug/kg | 22 U | 19 U | 20 U | 21 U | 0.9 U |
| 56-55-3 | BENZO(A)ANTHRACENE | ug/kg | 20 U | 17 U | 19 U | 19 U | 0.19 U |
| 50-32-8 | BENZO(A)PYRENE | ug/kg | 9 U | 7.9 U | 8.4 U | 8.6 U | 0.16 U |
| 205-99-2 | BENZO(B)FLUORANTHENE | ug/kg | 14 U | 12 U | 13 U | 13 U | 0.34 U |
| 191-24-2 | BENZO(G,H,I)PERYLENE | ug/kg | 17 U | 15 U | 16 U | 16 U | 0.34 U |
| 207-08-9 | BENZO(K)FLUORANTHENE | ug/kg | 20 U | 17 U | 18 U | 19 U | 0.21 U |
| 85-68-7 | BENZYL BUTYL PHTHALATE | ug/kg | 20 U | 18 U | 19 U | 19 U | 0.22 U |
| 92-52-4 | BIPHENYL (DIPHENYL) | ug/kg | 16 U | 14 U | 15 U | 15 U | 0.17 U |
| 111-91-1 | BIS(2-CHLOROETHOXY) METHANE | ug/kg | 24 U | 21 U | 23 U | 23 U | 0.64 U |
| 111-44-4 | BIS(2-CHLOROETHYL) ETHER | ug/kg | 20 U | 18 U | 19 U | 19 U | 0.64 U |
| 108-60-1 | BIS(2-CHLOROISOPROPYL) ETHER | ug/kg | 17 U | 15 U | 16 U | 16 U | 0.2 U |
| 117-81-7 | BIS(2-ETHYLHEXYL) PHTHALATE | ug/kg | 260 J | 280 J | 340 J | 180 J | 0.19 U |
| 105-60-2 | CAPROLACTAM | ug/kg | 19 U | 17 U | 18 U | 18 U | 2.3 U |
| 86-74-8 | CARBAZOLE | ug/kg | 9.1 U | 8 U | 8.6 U | 8.7 U | 0.26 U |
| 218-01-9 | CHRYSENE | ug/kg | 19 U | 17 U | 18 U | 18 U | 0.21 U |
| 53-70-3 | DIBENZ(A,H)ANTHRACENE | ug/kg | 12 U | 11 U | 11 U | 11 U | 0.49 U |
| 132-64-9 | DIBENZOFURAN | ug/kg | 16 U | 14 U | 15 U | 15 U | 0.28 U |
| 84-66-2 | DIETHYL PHTHALATE | ug/kg | 6.5 U | 5.7 U | 6.1 U | 6.2 U | 0.44 U |
| 131-11-3 | DIMETHYL PHTHALATE | ug/kg | 11 U | 9.9 U | 11 U | 11 U | 0.26 U |
| 84-74-2 | DI-N-BUTYL PHTHALATE | ug/kg | 33 U | 29 U | 31 U | 31 U | 2.3 U |
| 117-84-0 | DI-N-OCTYLPHTHALATE | ug/kg | 4.7 U | 4.2 U | 4.5 U | 4.5 U | 0.59 U |
| 206-44-0 | FLUORANTHENE | ug/kg | 8.4 U | 7.3 U | 7.9 U | 8 U | 0.47 U |
| 86-73-7 | FLUORENE | ug/kg | 16 U | 14 U | 15 U | 15 U | 0.36 U |
| 118-74-1 | HEXACHLOROBENZENE | ug/kg | 17 U | 15 U | 16 U | 16 U | 0.21 U |
| 87-68-3 | HEXACHLOROBUTADIENE | ug/kg | 15 U | 13 U | 14 U | 14 U | 0.29 U |
| 77-47-4 | HEXACHLOROCYCLOPENTADIENE | ug/kg | 10 U | 8.9 U | 9.5 U | 9.6 U | 0.28 U |
| 67-72-1 | HEXACHLOROETHANE | ug/kg | 19 U | 16 U | 17 U | 18 U | 0.29 U |
| 193-39-5 | INDENO(1,2,3-C,D)PYRENE | ug/kg | 14 U | 12 U | 13 U | 13 U | 0.17 U |
| 78-59-1 | ISOPHORONE | ug/kg | 14 U | 12 U | 13 U | 13 U | 0.35 U |
| 91-20-3 | NAPHTHALENE | ug/kg | 14 U | 13 U | 13 U | 14 U | 0.14 U |
| 98-95-3 | NITROBENZENE | ug/kg | 16 U | 14 U | 15 U | 15 U | 0.79 U |
| 621-64-7 | N-NITROSODI-N-PROPYLAMINE | ug/kg | 21 U | 18 U | 20 U | 20 U | 0.23 U |
| 86-30-6 | N-NITROSODIPHENYLAMINE | ug/kg | 10 U | 8.8 U | 9.4 U | 9.5 U | 0.7 U |
| 87-86-5 | PENTACHLOROPHENOL | ug/kg | 28 UJ | 25 UJ | 27 UJ | 27 UJ | 2 UJ |
| 85-01-8 | PHENANTHRENE | ug/kg | 11 U | 9.9 U | 11 U | 11 U | 0.3 U |
| 108-95-2 | PHENOL | ug/kg | 9.6 U | 8.4 U | 9 U | 9.2 U | 0.24 U |
| 129-00-0 | PYRENE | ug/kg | 10 U | 8.8 U | 9.4 U | 9.5 U | 0.23 U |

| Consolidated Edison<br>Farrington Street Remedial Investigation<br>Validated Soil Analytical Data<br>SDG: C4297 | | Location ID:<br>Sample ID:<br>Lab Sample Id:<br>Depth:<br>Source:<br>SDG:<br>Matrix:<br>Sampled:<br>Validated: | CMW-39<br>CMW-39(22-24)<br>C4297-03<br>22 - 24 ft<br>CTECH<br>C4297<br>SOIL<br>10/20/2011<br>1/23/2012 | CMW-39<br>CMW-39(40-42)<br>C4297-04<br>40 - 42 ft<br>CTECH<br>C4297<br>SOIL<br>10/20/2011<br>1/23/2012 | CMW-40<br>CMW-40(36-38)<br>C4297-01<br>36 - 38 ft<br>CTECH<br>C4297<br>SOIL<br>10/17/2011<br>1/23/2012 | CMW-40<br>CMW-40(40-42)<br>C4297-02<br>40 - 42 ft<br>CTECH<br>C4297<br>SOIL<br>10/17/2011<br>1/23/2012 | FIELDQC<br>FB102011<br>C4297-05<br>-<br>CTECH<br>C4297<br>WATER<br>10/20/2011<br>1/23/2012 |
|---|---|---|---|---|---|---|---|
| CAS NO. | COMPOUND | UNITS: | | | | | ug/L |
| | INORGANICS | | | | | | |
| 7429-90-5 | ALUMINUM | mg/kg | 1660 J | 1690 J | 2050 J | 1720 J | 28 J |
| 7440-36-0 | ANTIMONY | mg/kg | 0.703 U | 0.507 U | 0.571 U | 0.652 U | 8 U |
| 7440-38-2 | ARSENIC | mg/kg | 0.731 J | 0.6 J | 0.683 J | 0.719 J | 4.2 U |
| 7440-39-3 | BARIUM | mg/kg | 16.9 | 17.9 | 19.2 | 19.6 | 4 U |
| 7440-41-7 | BERYLLIUM | mg/kg | 0.22 J | 0.119 J | 0.097 J | 0.071 J | 0.7 U |
| 7440-43-9 | CADMIUM | mg/kg | 0.394 | 0.3 | 0.393 | 0.427 | 0.5 U |
| 7440-70-2 | CALCIUM | mg/kg | 369 U | 3890 | 626 U | 400 U | 1410 |
| 7440-47-3 | CHROMIUM, TOTAL | mg/kg | 7.83 | 4.62 | 8.96 | 6.68 | 1.1 U |
| 7440-48-4 | COBALT | mg/kg | 2.88 | 2.98 | 2.51 | 2.92 | 5.8 U |
| 7440-50-8 | COPPER | mg/kg | 7.18 | 8.13 | 7.82 | 7.56 | 2 U |
| 7439-89-6 | IRON | mg/kg | 7980 J | 5700 J | 7590 J | 8520 J | 55.8 J |
| 7439-92-1 | LEAD | mg/kg | 3.23 | 1.8 | 1.61 | 1.69 | 2.6 U |
| 7439-95-4 | MAGNESIUM | mg/kg | 744 J | 2740 J | 891 J | 781 J | 105 J |
| 7439-96-5 | MANGANESE | mg/kg | 150 J | 120 J | 48.8 J | 84.3 J | 1.7 U |
| 7439-97-6 | MERCURY | mg/kg | 0.005 J | 0.006 J | 0.002 U | 0.005 J | 0.091 U |
| 7440-02-0 | NICKEL | mg/kg | 5.92 | 4.77 | 8.93 | 6.81 | 4.2 U |
| 7440-09-7 | POTASSIUM | mg/kg | 533 J | 540 J | 590 J | 773 J | 38.8 U |
| 7782-49-2 | SELENIUM | mg/kg | 0.514 U | 0.371 U | 0.418 U | 0.477 U | 4.8 U |
| 7440-22-4 | SILVER | mg/kg | 0.188 U | 0.136 U | 0.153 U | 0.175 U | 1.5 U |
| 7440-23-5 | SODIUM | mg/kg | 495 J | 164 J | 249 J | 400 J | 617 J |
| 7440-28-0 | THALLIUM | mg/kg | 0.339 U | 0.244 U | 0.275 U | 0.314 U | 2.4 U |
| 7440-62-2 | VANADIUM | mg/kg | 8.47 | 7.64 | 8.45 | 9.45 | 6.1 U |
| 7440-66-6 | ZINC | mg/kg | 17.8 | 15.1 | 12.8 | 15.5 | 7.99 J |
| 57-12-5 | CYANIDE | mg/kg | 0.041 U | 0.048 J | 0.039 U | 0.039 U | 3 U |

| Consolidated Edison<br>Farrington Street Remedial Investigation<br>Validated Soil Analytical Data<br>SDG: C4313 | | Location ID:<br>Sample ID:<br>Lab Sample Id:<br>Depth:<br>Source:<br>SDG:<br>Matrix:<br>Sampled:<br>Validated: | SB-46<br>SB-46(11-12)<br>C4313-01<br>11 - 12 ft<br>CTECH<br>C4313<br>SOIL<br>10/24/2011<br>1/23/2012 | SB-46<br>SB-46(39-40)<br>C4313-02<br>39 - 40 ft<br>CTECH<br>C4313<br>SOIL<br>10/24/2011<br>1/23/2012 |
|---|---|---|---|---|
| CAS NO. | COMPOUND | UNITS: | | |
| | VOLATILES | | | |
| 71-55-6 | 1,1,1-TRICHLOROETHANE | ug/kg | 0.98 U | 1 U |
| 79-34-5 | 1,1,2,2-TETRACHLOROETHANE | ug/kg | 0.51 U | 0.54 U |
| 76-13-1 | 1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE | ug/kg | 1.5 U | 1.6 U |
| 79-00-5 | 1,1,2-TRICHLOROETHANE | ug/kg | 1 U | 1.1 U |
| 75-34-3 | 1,1-DICHLOROETHANE | ug/kg | 1.1 U | 1.1 U |
| 75-35-4 | 1,1-DICHLOROETHENE | ug/kg | 1.6 U | 1.7 U |
| 120-82-1 | 1,2,4-TRICHLOROBENZENE | ug/kg | 0.78 U | 0.82 U |
| 96-12-8 | 1,2-DIBROMO-3-CHLOROPROPANE | ug/kg | 0.97 U | 1 U |
| 106-93-4 | 1,2-DIBROMOETHANE | ug/kg | 0.72 U | 0.75 U |
| 95-50-1 | 1,2-DICHLOROBENZENE | ug/kg | 0.69 U | 0.72 U |
| 107-06-2 | 1,2-DICHLOROETHANE | ug/kg | 0.72 U | 0.75 U |
| 78-87-5 | 1,2-DICHLOROPROPANE | ug/kg | 0.29 U | 0.3 U |
| 541-73-1 | 1,3-DICHLOROBENZENE | ug/kg | 0.41 U | 0.43 U |
| 106-46-7 | 1,4-DICHLOROBENZENE | ug/kg | 0.46 U | 0.48 U |
| 591-78-6 | 2-HEXANONE | ug/kg | 4.4 U | 4.6 U |
| 67-64-1 | ACETONE | ug/kg | 3.4 UJ | 11 J |
| 71-43-2 | BENZENE | ug/kg | 0.42 U | 0.44 U |
| 75-27-4 | BROMODICHLOROMETHANE | ug/kg | 0.69 U | 0.72 U |
| 75-25-2 | BROMOFORM | ug/kg | 0.83 UJ | 0.86 UJ |
| 74-83-9 | BROMOMETHANE | ug/kg | 2.7 U | 2.9 U |
| 75-15-0 | CARBON DISULFIDE | ug/kg | 1.2 UJ | 1.2 UJ |
| 56-23-5 | CARBON TETRACHLORIDE | ug/kg | 1.1 U | 1.2 U |
| 108-90-7 | CHLOROBENZENE | ug/kg | 0.56 U | 0.58 U |
| 75-00-3 | CHLOROETHANE | ug/kg | 1.6 U | 1.6 U |
| 67-66-3 | CHLOROFORM | ug/kg | 0.83 U | 0.86 U |
| 74-87-3 | CHLOROMETHANE | ug/kg | 0.96 U | 1 U |
| 156-59-2 | CIS-1,2-DICHLOROETHYLENE | ug/kg | 0.99 U | 1 U |
| 10061-01-5 | CIS-1,3-DICHLOROPROPENE | ug/kg | 0.8 U | 0.84 U |
| 110-82-7 | CYCLOHEXANE | ug/kg | 1.1 U | 1.2 U |
| 124-48-1 | DIBROMOCHLOROMETHANE | ug/kg | 0.6 U | 0.63 U |
| 75-71-8 | DICHLORODIFLUOROMETHANE | ug/kg | 0.73 U | 0.76 U |
| 100-41-4 | ETHYLBENZENE | ug/kg | 0.69 U | 0.72 U |
| 98-82-8 | ISOPROPYLBENZENE (CUMENE) | ug/kg | 0.54 U | 0.56 U |
| 79-20-9 | METHYL ACETATE | ug/kg | 1.7 U | 1.8 U |
| 78-93-3 | METHYL ETHYL KETONE (2-BUTANONE) | ug/kg | 3.5 U | 3.6 U |
| 108-10-1 | METHYL ISOBUTYL KETONE | ug/kg | 3.3 U | 3.4 U |
| 108-87-2 | METHYLCYCLOHEXANE | ug/kg | 1.2 U | 1.2 U |
| 75-09-2 | METHYLENE CHLORIDE | ug/kg | 1.6 U | 3 J |
| 95-47-6 | O-XYLENE (1,2-DIMETHYLBENZENE) | ug/kg | 0.76 U | 0.79 U |
| 100-42-5 | STYRENE | ug/kg | 0.5 U | 0.53 U |
| 1634-04-4 | TERT-BUTYL METHYL ETHER | ug/kg | 1.1 U | 27 |
| 127-18-4 | TETRACHLOROETHYLENE(PCE) | ug/kg | 1.1 U | 1.2 U |
| 108-88-3 | TOLUENE | ug/kg | 0.72 U | 0.75 U |
| 156-60-5 | TRANS-1,2-DICHLOROETHENE | ug/kg | 0.77 U | 0.81 U |
| 10061-02-6 | TRANS-1,3-DICHLOROPROPENE | ug/kg | 0.88 U | 0.92 U |
| 79-01-6 | TRICHLOROETHYLENE (TCE) | ug/kg | 0.96 U | 1 U |
| 75-69-4 | TRICHLOROFLUOROMETHANE | ug/kg | 1.5 U | 1.5 U |
| 75-01-4 | VINYL CHLORIDE | ug/kg | 1.4 U | 1.4 U |
| XYLMP | M,P-XYLENE (SUM OF ISOMERS) | ug/kg | 0.8 U | 0.84 U |

| Consolidated Edison<br>Farrington Street Remedial Investigation<br>Validated Soil Analytical Data<br>SDG: C4313 | | Location ID:<br>Sample ID:<br>Lab Sample Id:<br>Depth:<br>Source:<br>SDG:<br>Matrix:<br>Sampled:<br>Validated: | SB-46<br>SB-46(11-12)<br>C4313-01<br>11 - 12 ft<br>CTECH<br>C4313<br>SOIL<br>10/24/2011<br>1/23/2012 | SB-46<br>SB-46(39-40)<br>C4313-02<br>39 - 40 ft<br>CTECH<br>C4313<br>SOIL<br>10/24/2011<br>1/23/2012 |
|---|---|---|---|---|
| CAS NO. | COMPOUND | UNITS: | | |
| | SEMIVOLATILES | | | |
| 95-95-4 | 2,4,5-TRICHLOROPHENOL | ug/kg | 26 U | 28 U |
| 88-06-2 | 2,4,6-TRICHLOROPHENOL | ug/kg | 11 U | 12 U |
| 120-83-2 | 2,4-DICHLOROPHENOL | ug/kg | 14 U | 15 U |
| 105-67-9 | 2,4-DIMETHYLPHENOL | ug/kg | 21 U | 22 U |
| 51-28-5 | 2,4-DINITROPHENOL | ug/kg | 38 UJ | 40 UJ |
| 121-14-2 | 2,4-DINITROTOLUENE | ug/kg | 11 U | 12 U |
| 606-20-2 | 2,6-DINITROTOLUENE | ug/kg | 15 U | 16 U |
| 91-58-7 | 2-CHLORONAPHTHALENE | ug/kg | 8.4 U | 8.9 U |
| 95-57-8 | 2-CHLOROPHENOL | ug/kg | 20 U | 21 U |
| 91-57-6 | 2-METHYLNAPHTHALENE | ug/kg | 9.3 U | 9.9 U |
| 95-48-7 | 2-METHYLPHENOL (O-CRESOL) | ug/kg | 20 U | 21 U |
| 88-74-4 | 2-NITROANILINE | ug/kg | 16 U | 17 U |
| 88-75-5 | 2-NITROPHENOL | ug/kg | 18 U | 19 U |
| 91-94-1 | 3,3'-DICHLOROBENZIDINE | ug/kg | 24 U | 25 U |
| MEPH3MEPH | 3- AND 4- METHYLPHENOL (TOTAL) | ug/kg | 19 U | 20 U |
| 99-09-2 | 3-NITROANILINE | ug/kg | 24 U | 25 U |
| 534-52-1 | 4,6-DINITRO-2-METHYLPHENOL | ug/kg | 21 UJ | 22 UJ |
| 101-55-3 | 4-BROMOPHENYL PHENYL ETHER | ug/kg | 7.2 U | 7.6 U |
| 59-50-7 | 4-CHLORO-3-METHYLPHENOL | ug/kg | 16 U | 17 U |
| 106-47-8 | 4-CHLOROANILINE | ug/kg | 26 U | 28 U |
| 7005-72-3 | 4-CHLOROPHENYL PHENYL ETHER | ug/kg | 20 U | 21 U |
| 100-01-6 | 4-NITROANILINE | ug/kg | 48 U | 51 U |
| 100-02-7 | 4-NITROPHENOL | ug/kg | 69 U | 73 U |
| 83-32-9 | ACENAPHTHENE | ug/kg | 10 U | 11 U |
| 208-96-8 | ACENAPHTHYLENE | ug/kg | 9.3 U | 9.9 U |
| 98-86-2 | ACETOPHENONE | ug/kg | 11 U | 12 U |
| 120-12-7 | ANTHRACENE | ug/kg | 7.5 U | 8 U |
| 1912-24-9 | ATRAZINE | ug/kg | 20 U | 21 U |
| 100-52-7 | BENZALDEHYDE | ug/kg | 19 UJ | 20 UJ |
| 56-55-3 | BENZO(A)ANTHRACENE | ug/kg | 18 U | 19 U |
| 50-32-8 | BENZO(A)PYRENE | ug/kg | 8 U | 8.5 U |
| 205-99-2 | BENZO(B)FLUORANTHENE | ug/kg | 12 U | 13 U |
| 191-24-2 | BENZO(G,H,I)PERYLENE | ug/kg | 15 U | 16 U |
| 207-08-9 | BENZO(K)FLUORANTHENE | ug/kg | 17 U | 18 U |
| 85-68-7 | BENZYL BUTYL PHTHALATE | ug/kg | 18 U | 19 U |
| 92-52-4 | BIPHENYL (DIPHENYL) | ug/kg | 14 U | 15 U |
| 111-91-1 | BIS(2-CHLOROETHOXY) METHANE | ug/kg | 21 U | 23 U |
| 111-44-4 | BIS(2-CHLOROETHYL) ETHER | ug/kg | 18 U | 19 U |
| 108-60-1 | BIS(2-CHLOROISOPROPYL) ETHER | ug/kg | 15 U | 16 U |
| 117-81-7 | BIS(2-ETHYLHEXYL) PHTHALATE | ug/kg | 13 U | 14 U |
| 105-60-2 | CAPROLACTAM | ug/kg | 17 U | 18 U |
| 86-74-8 | CARBAZOLE | ug/kg | 8.1 U | 8.6 U |
| 218-01-9 | CHRYSENE | ug/kg | 17 U | 18 U |
| 53-70-3 | DIBENZ(A,H)ANTHRACENE | ug/kg | 11 U | 11 U |
| 132-64-9 | DIBENZOFURAN | ug/kg | 14 U | 15 U |
| 84-66-2 | DIETHYL PHTHALATE | ug/kg | 5.8 U | 6.1 U |
| 131-11-3 | DIMETHYL PHTHALATE | ug/kg | 10 U | 11 U |
| 84-74-2 | DI-N-BUTYL PHTHALATE | ug/kg | 29 U | 31 U |
| 117-84-0 | DI-N-OCTYLPHTHALATE | ug/kg | 4.2 U | 4.5 U |
| 206-44-0 | FLUORANTHENE | ug/kg | 7.4 U | 7.9 U |
| 86-73-7 | FLUORENE | ug/kg | 14 U | 15 U |
| 118-74-1 | HEXACHLOROBENZENE | ug/kg | 15 U | 16 U |
| 87-68-3 | HEXACHLOROBUTADIENE | ug/kg | 13 U | 14 U |
| 77-47-4 | HEXACHLOROCYCLOPENTADIENE | ug/kg | 9 U | 9.5 U |
| 67-72-1 | HEXACHLOROETHANE | ug/kg | 17 U | 18 U |
| 193-39-5 | INDENO(1,2,3-C,D)PYRENE | ug/kg | 12 U | 13 U |
| 78-59-1 | ISOPHORONE | ug/kg | 12 U | 13 U |
| 91-20-3 | NAPHTHALENE | ug/kg | 13 U | 14 U |
| 98-95-3 | NITROBENZENE | ug/kg | 14 U | 15 U |
| 621-64-7 | N-NITROSODI-N-PROPYLAMINE | ug/kg | 19 U | 20 U |
| 86-30-6 | N-NITROSODIPHENYLAMINE | ug/kg | 8.9 U | 9.4 U |
| 87-86-5 | PENTACHLOROPHENOL | ug/kg | 25 UJ | 27 UJ |
| 85-01-8 | PHENANTHRENE | ug/kg | 10 U | 11 U |
| 108-95-2 | PHENOL | ug/kg | 8.5 U | 9 U |
| 129-00-0 | PYRENE | ug/kg | 8.9 U | 9.4 U |

| Consolidated Edison<br>Farrington Street Remedial Investigation<br>Validated Soil Analytical Data<br>SDG: C4313 | | Location ID:<br>Sample ID:<br>Lab Sample Id:<br>Depth:<br>Source:<br>SDG:<br>Matrix:<br>Sampled:<br>Validated: | SB-46<br>SB-46(11-12)<br>C4313-01<br>11 - 12 ft<br>CTECH<br>C4313<br>SOIL<br>10/24/2011<br>1/23/2012 | SB-46<br>SB-46(39-40)<br>C4313-02<br>39 - 40 ft<br>CTECH<br>C4313<br>SOIL<br>10/24/2011<br>1/23/2012 |
|---|---|---|---|---|
| CAS NO. | COMPOUND | UNITS: | | |
| | INORGANICS | | | |
| 7429-90-5 | ALUMINUM | mg/kg | 4040 J | 7090 J |
| 7440-36-0 | ANTIMONY | mg/kg | 0.622 U | 0.486 U |
| 7440-38-2 | ARSENIC | mg/kg | 1.57 | 6.64 |
| 7440-39-3 | BARIUM | mg/kg | 30.3 | 94.7 |
| 7440-41-7 | BERYLLIUM | mg/kg | 0.184 J | 0.624 |
| 7440-43-9 | CADMIUM | mg/kg | 0.594 | 1.77 |
| 7440-70-2 | CALCIUM | mg/kg | 578 | 1870 |
| 7440-47-3 | CHROMIUM, TOTAL | mg/kg | 12.8 | 24.6 |
| 7440-48-4 | COBALT | mg/kg | 5.39 | 9.7 |
| 7440-50-8 | COPPER | mg/kg | 20 | 20.5 |
| 7439-89-6 | IRON | mg/kg | 11200 | 23100 |
| 7439-92-1 | LEAD | mg/kg | 10.1 | 9.23 |
| 7439-95-4 | MAGNESIUM | mg/kg | 1810 J | 3540 J |
| 7439-96-5 | MANGANESE | mg/kg | 125 | 696 |
| 7439-97-6 | MERCURY | mg/kg | 0.002 U | 0.002 U |
| 7440-02-0 | NICKEL | mg/kg | 15.4 | 20.5 |
| 7440-09-7 | POTASSIUM | mg/kg | 1080 J | 2060 J |
| 7782-49-2 | SELENIUM | mg/kg | 0.456 UJ | 0.356 UJ |
| 7440-22-4 | SILVER | mg/kg | 0.167 U | 0.13 U |
| 7440-23-5 | SODIUM | mg/kg | 157 J | 263 J |
| 7440-28-0 | THALLIUM | mg/kg | 0.3 U | 0.234 U |
| 7440-62-2 | VANADIUM | mg/kg | 16.7 | 28.3 |
| 7440-66-6 | ZINC | mg/kg | 21.8 | 51.2 |
| 57-12-5 | CYANIDE | mg/kg | 0.037 U | 0.039 U |

| Consolidated Edison<br>Farrington Street Remedial Investigation<br>Validated Groundwater Analytical Data<br>SDG: C4681 | | Location ID:<br>Sample ID:<br>Lab Sample Id:<br>Source:<br>SDG:<br>Matrix:<br>Sampled:<br>Validated: | CMW-36<br>CMW-36<br>C4681-02<br>CTECH<br>C4681<br>WATER<br>11/16/2011<br>1/23/2012 | CMW-37<br>CMW-37<br>C4681-07<br>CTECH<br>C4681<br>WATER<br>11/14/2011<br>1/23/2012 | CMW-38<br>CMW-38<br>C4681-22<br>CTECH<br>C4681<br>WATER<br>11/18/2011<br>1/23/2012 | CMW-39<br>CMW-39<br>C4681-08<br>CTECH<br>C4681<br>WATER<br>11/14/2011<br>1/23/2012 | CMW-40<br>CMW-40<br>C4681-16<br>CTECH<br>C4681<br>WATER<br>11/16/2011<br>1/23/2012 | MW-13<br>MW-13<br>C4681-11<br>CTECH<br>C4681<br>WATER<br>11/17/2011<br>1/23/2012 |
|---|---|---|---|---|---|---|---|---|
| CAS NO. | COMPOUND | UNITS: | | | | | | |
| | VOLATILES | | | | | | | |
| 71-55-6 | 1,1,1-TRICHLOROETHANE | ug/l | 0.4 U | 0.4 U | 0.4 U | 0.4 U | 0.4 U | 0.4 U |
| 79-34-5 | 1,1,2,2-TETRACHLOROETHANE | ug/l | 0.31 U | 0.31 U | 0.31 U | 0.31 U | 0.31 U | 0.31 U |
| 76-13-1 | 1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE | ug/l | 0.45 U | 0.45 U | 0.45 U | 0.45 U | 0.45 U | 0.45 U |
| 79-00-5 | 1,1,2-TRICHLOROETHANE | ug/l | 0.38 U | 0.38 U | 0.38 U | 0.38 U | 0.38 U | 0.38 U |
| 75-34-3 | 1,1-DICHLOROETHANE | ug/l | 0.36 U | 0.36 U | 0.36 U | 0.36 U | 0.36 U | 0.36 U |
| 75-35-4 | 1,1-DICHLOROETHENE | ug/l | 0.47 U | 0.47 U | 0.47 U | 0.47 U | 0.47 U | 0.47 U |
| 120-82-1 | 1,2,4-TRICHLOROBENZENE | ug/l | 0.62 U | 0.62 U | 0.62 U | 0.62 U | 0.62 U | 0.62 U |
| 96-12-8 | 1,2-DIBROMO-3-CHLOROPROPANE | ug/l | 0.46 U | 0.46 U | 0.46 U | 0.46 U | 0.46 U | 0.46 U |
| 106-93-4 | 1,2-DIBROMOETHANE | ug/l | 0.41 U | 0.41 U | 0.41 U | 0.41 U | 0.41 U | 0.41 U |
| 95-50-1 | 1,2-DICHLOROBENZENE | ug/l | 0.45 U | 0.45 U | 0.45 U | 0.45 U | 0.45 U | 0.45 U |
| 107-06-2 | 1,2-DICHLOROETHANE | ug/l | 0.48 U | 0.48 U | 0.48 U | 0.48 U | 0.48 U | 0.48 U |
| 78-87-5 | 1,2-DICHLOROPROPANE | ug/l | 0.46 U | 0.46 U | 0.46 U | 0.46 U | 0.46 U | 0.46 U |
| 541-73-1 | 1,3-DICHLOROBENZENE | ug/l | 0.43 U | 0.43 U | 0.43 U | 0.43 U | 0.43 U | 0.43 U |
| 106-46-7 | 1,4-DICHLOROBENZENE | ug/l | 0.32 U | 0.32 U | 0.32 U | 0.32 U | 0.32 U | 0.32 U |
| 591-78-6 | 2-HEXANONE | ug/l | 1.9 U | 1.9 U | 1.9 U | 1.9 U | 1.9 U | 1.9 U |
| 67-64-1 | ACETONE | ug/l | 2.8 U | 4.3 J | 2.8 UJ | 20 J | 2.8 UJ | 2.8 U |
| 71-43-2 | BENZENE | ug/l | 0.32 U | 3.9 J | 360 | 0.32 U | 1400 | 0.32 U |
| 75-27-4 | BROMODICHLOROMETHANE | ug/l | 0.36 U | 0.36 U | 0.36 U | 0.36 U | 0.36 U | 0.36 U |
| 75-25-2 | BROMOFORM | ug/l | 0.47 U | 0.47 U | 0.47 U | 0.47 U | 0.47 U | 0.47 U |
| 74-83-9 | BROMOMETHANE | ug/l | 0.62 U | 0.62 U | 0.62 U | 0.62 U | 0.62 U | 0.62 U |
| 75-15-0 | CARBON DISULFIDE | ug/l | 0.54 U | 0.54 U | 0.54 U | 0.54 U | 0.54 U | 0.54 U |
| 56-23-5 | CARBON TETRACHLORIDE | ug/l | 0.62 U | 0.62 U | 0.62 U | 0.62 U | 0.62 U | 0.62 U |
| 108-90-7 | CHLOROBENZENE | ug/l | 0.49 U | 0.49 U | 0.49 U | 0.49 U | 0.49 U | 0.49 U |
| 75-00-3 | CHLOROETHANE | ug/l | 0.66 U | 0.66 U | 0.66 U | 0.66 U | 0.66 U | 0.66 U |
| 67-66-3 | CHLOROFORM | ug/l | 0.34 U | 0.34 U | 0.34 U | 0.34 U | 0.34 U | 0.34 U |
| 74-87-3 | CHLOROMETHANE | ug/l | 0.54 UJ | 0.54 UJ | 0.54 UJ | 0.54 UJ | 0.54 UJ | 0.54 UJ |
| 156-59-2 | CIS-1,2-DICHLOROETHYLENE | ug/l | 0.35 U | 0.35 U | 0.35 U | 0.35 U | 0.35 U | 0.35 U |
| 10061-01-5 | CIS-1,3-DICHLOROPROPENE | ug/l | 0.31 U | 0.31 U | 0.31 U | 0.31 U | 0.31 U | 0.31 U |
| 110-82-7 | CYCLOHEXANE | ug/l | 0.55 U | 0.55 U | 7.5 | 0.55 U | 3 J | 0.55 U |
| 124-48-1 | DIBROMOCHLOROMETHANE | ug/l | 0.52 U | 0.52 U | 0.52 U | 0.52 U | 0.52 U | 0.52 U |
| 75-71-8 | DICHLORODIFLUOROMETHANE | ug/l | 0.55 U | 0.55 U | 0.55 U | 0.55 U | 0.55 U | 0.55 U |
| 100-41-4 | ETHYLBENZENE | ug/l | 0.53 U | 0.53 U | 320 | 0.53 U | 4.4 J | 0.53 U |
| 98-82-8 | ISOPROPYLBENZENE (CUMENE) | ug/l | 0.45 U | 0.45 U | 54 | 0.45 U | 7.6 | 0.45 U |
| 79-20-9 | METHYL ACETATE | ug/l | 0.83 U | 0.83 U | 0.83 U | 0.83 U | 0.83 U | 0.83 U |
| 78-93-3 | METHYL ETHYL KETONE (2-BUTANONE) | ug/l | 1.3 U | 1.3 U | 1.3 U | 2.7 J | 1.3 U | 1.3 U |
| 108-10-1 | METHYL ISOBUTYL KETONE | ug/l | 2.1 U | 2.1 U | 2.1 U | 2.1 U | 2.1 U | 2.1 U |
| 108-87-2 | METHYLCYCLOHEXANE | ug/l | 0.68 U | 0.68 U | 10 | 0.68 U | 3.1 J | 0.68 U |
| 75-09-2 | METHYLENE CHLORIDE | ug/l | 0.41 U | 0.41 U | 0.41 U | 0.41 U | 0.41 U | 0.41 U |
| 95-47-6 | O-XYLENE (1,2-DIMETHYLBENZENE) | ug/l | 0.43 U | 0.43 U | 91 | 0.43 U | 5.1 | 0.43 U |
| 100-42-5 | STYRENE | ug/l | 0.36 U | 0.36 U | 0.36 U | 0.36 U | 0.36 U | 0.36 U |
| 1634-04-4 | TERT-BUTYL METHYL ETHER | ug/l | 3 J | 2.2 J | 17 | 0.35 U | 0.35 U | 0.35 U |
| 127-18-4 | TETRACHLOROETHYLENE(PCE) | ug/l | 4.1 J | 0.27 U | 0.27 UJ | 0.27 U | 0.27 UJ | 0.27 U |
| 108-88-3 | TOLUENE | ug/l | 0.37 U | 0.37 U | 4.8 J | 0.37 U | 0.37 U | 0.37 U |
| 156-60-5 | TRANS-1,2-DICHLOROETHENE | ug/l | 0.41 U | 0.41 U | 0.41 U | 0.41 U | 0.41 U | 0.41 U |
| 10061-02-6 | TRANS-1,3-DICHLOROPROPENE | ug/l | 0.29 U | 0.29 U | 0.29 U | 0.29 U | 0.29 U | 0.29 U |
| 79-01-6 | TRICHLOROETHYLENE (TCE) | ug/l | 0.28 U | 0.28 U | 0.28 U | 0.28 U | 0.28 U | 0.28 U |
| 75-69-4 | TRICHLOROFLUOROMETHANE | ug/l | 0.35 U | 0.35 U | 0.35 U | 0.35 U | 0.35 U | 0.35 U |
| 75-01-4 | VINYL CHLORIDE | ug/l | 0.34 UJ | 0.34 UJ | 0.34 UJ | 0.34 UJ | 0.34 UJ | 0.34 UJ |
| XYLMP | M,P-XYLENE (SUM OF ISOMERS) | ug/l | 0.95 U | 0.95 U | 22 | 0.95 U | 3.5 J | 0.95 U |

| Consolidated Edison<br>Farrington Street Remedial Investigation<br>Validated Groundwater Analytical Data<br>SDG: C4681 | | Location ID:<br>Sample ID:<br>Lab Sample Id:<br>Source:<br>SDG:<br>Matrix:<br>Sampled:<br>Validated: | CMW-36<br>CMW-36<br>C4681-02<br>CTECH<br>C4681<br>WATER<br>11/16/2011<br>1/23/2012 | CMW-37<br>CMW-37<br>C4681-07<br>CTECH<br>C4681<br>WATER<br>11/14/2011<br>1/23/2012 | CMW-38<br>CMW-38<br>C4681-22<br>CTECH<br>C4681<br>WATER<br>11/18/2011<br>1/23/2012 | CMW-39<br>CMW-39<br>C4681-08<br>CTECH<br>C4681<br>WATER<br>11/14/2011<br>1/23/2012 | CMW-40<br>CMW-40<br>C4681-16<br>CTECH<br>C4681<br>WATER<br>11/16/2011<br>1/23/2012 | MW-13<br>MW-13<br>C4681-11<br>CTECH<br>C4681<br>WATER<br>11/17/2011<br>1/23/2012 |
|---|---|---|---|---|---|---|---|---|
| CAS NO. | COMPOUND | UNITS: | | | | | | |
| | SEMIVOLATILES | | | | | | | |
| 95-95-4 | 2,4,5-TRICHLOROPHENOL | ug/l | 0.43 U | 0.42 U | 0.42 U | 0.43 U | 0.42 U | 0.43 U |
| 88-06-2 | 2,4,6-TRICHLOROPHENOL | ug/l | 0.6 U | 0.59 U | 0.59 U | 0.6 U | 0.59 U | 0.6 U |
| 120-83-2 | 2,4-DICHLOROPHENOL | ug/l | 0.71 U | 0.69 U | 0.69 U | 0.7 U | 0.69 U | 0.71 U |
| 105-67-9 | 2,4-DIMETHYLPHENOL | ug/l | 0.76 U | 0.75 U | 0.75 U | 0.76 U | 0.75 U | 0.76 U |
| 51-28-5 | 2,4-DINITROPHENOL | ug/l | 2.3 UJ | 2.2 UJ | 2.2 UJ | 2.2 UJ | 2.2 UJ | 2.3 UJ |
| 121-14-2 | 2,4-DINITROTOLUENE | ug/l | 1.1 U | 1.1 U | 1.1 U | 1.1 U | 1.1 U | 1.1 U |
| 606-20-2 | 2,6-DINITROTOLUENE | ug/l | 0.34 U | 0.34 U | 0.34 U | 0.34 U | 0.34 U | 0.34 U |
| 91-58-7 | 2-CHLORONAPHTHALENE | ug/l | 0.17 U | 0.17 U | 0.17 U | 0.17 U | 0.17 U | 0.17 U |
| 95-57-8 | 2-CHLOROPHENOL | ug/l | 0.58 U | 0.57 U | 0.57 U | 0.57 U | 0.57 U | 0.58 U |
| 91-57-6 | 2-METHYLNAPHTHALENE | ug/l | 0.34 U | 0.34 U | 560 | 0.34 U | 0.34 U | 0.34 U |
| 95-48-7 | 2-METHYLPHENOL (O-CRESOL) | ug/l | 0.26 U | 0.25 U | 0.25 U | 0.26 U | 0.25 U | 0.26 U |
| 88-74-4 | 2-NITROANILINE | ug/l | 0.53 U | 0.52 U | 0.52 U | 0.52 U | 0.52 U | 0.53 U |
| 88-75-5 | 2-NITROPHENOL | ug/l | 0.56 U | 0.55 U | 0.55 U | 0.55 U | 0.55 U | 0.56 U |
| 91-94-1 | 3,3'-DICHLOROBENZIDINE | ug/l | 2.2 U | 2.1 U | 2.1 U | 2.1 U | 2.1 U | 2.2 U |
| MEPH3MEPH | 3- AND 4- METHYLPHENOL (TOTAL) | ug/l | 0.41 U | 0.4 U | 0.4 U | 0.4 U | 0.4 U | 0.41 U |
| 99-09-2 | 3-NITROANILINE | ug/l | 1.2 U | 1.1 U | 1.1 U | 1.2 U | 1.1 U | 1.2 U |
| 534-52-1 | 4,6-DINITRO-2-METHYLPHENOL | ug/l | 0.8 UJ | 0.78 UJ | 0.78 UJ | 0.79 UJ | 0.78 UJ | 0.8 UJ |
| 101-55-3 | 4-BROMOPHENYL PHENYL ETHER | ug/l | 0.25 U | 0.24 U | 0.24 U | 0.24 U | 0.24 U | 0.25 U |
| 59-50-7 | 4-CHLORO-3-METHYLPHENOL | ug/l | 0.43 U | 0.42 U | 0.42 U | 0.43 U | 0.42 U | 0.43 U |
| 106-47-8 | 4-CHLOROANILINE | ug/l | 3.1 U | 3 U | 3 U | 3 U | 3 U | 3.1 U |
| 7005-72-3 | 4-CHLOROPHENYL PHENYL ETHER | ug/l | 0.23 U | 0.22 U | 0.22 U | 0.22 U | 0.22 U | 0.23 U |
| 100-01-6 | 4-NITROANILINE | ug/l | 1.5 U | 1.4 U | 1.4 U | 1.4 U | 1.4 U | 1.5 U |
| 100-02-7 | 4-NITROPHENOL | ug/l | 2.2 U | 2.1 U | 2.1 U | 2.1 U | 2.1 U | 2.2 U |
| 83-32-9 | ACENAPHTHENE | ug/l | 0.23 U | 11 | 180 | 0.22 U | 16 | 0.23 U |
| 208-96-8 | ACENAPHTHYLENE | ug/l | 0.75 U | 0.74 U | 8.7 J | 0.74 U | 0.74 U | 0.75 U |
| 98-86-2 | ACETOPHENONE | ug/l | 0.15 U | 0.15 U | 0.15 U | 0.15 U | 0.15 U | 0.15 U |
| 120-12-7 | ANTHRACENE | ug/l | 0.17 U | 0.17 U | 36 | 0.17 U | 0.17 U | 0.17 U |
| 1912-24-9 | ATRAZINE | ug/l | 0.43 U | 0.42 U | 0.42 U | 0.43 U | 0.42 U | 0.43 U |
| 100-52-7 | BENZALDEHYDE | ug/l | 0.83 U | 0.81 U | 0.81 U | 0.82 U | 0.81 U | 0.83 U |
| 56-55-3 | BENZO(A)ANTHRACENE | ug/l | 0.17 U | 0.17 U | 17 | 0.17 U | 0.17 U | 0.17 U |
| 50-32-8 | BENZO(A)PYRENE | ug/l | 0.15 U | 0.15 U | 9.6 J | 0.15 U | 0.15 U | 0.15 U |
| 205-99-2 | BENZO(B)FLUORANTHENE | ug/l | 0.31 U | 0.31 U | 8.6 J | 0.31 U | 0.31 U | 0.31 U |
| 191-24-2 | BENZO(G,H,I)PERYLENE | ug/l | 0.31 U | 0.31 U | 0.31 U | 0.31 U | 0.31 U | 0.31 U |
| 207-08-9 | BENZO(K)FLUORANTHENE | ug/l | 0.19 U | 0.19 U | 0.19 U | 0.19 U | 0.19 U | 0.19 U |
| 85-68-7 | BENZYL BUTYL PHTHALATE | ug/l | 0.2 U | 0.2 U | 0.2 U | 0.2 U | 0.2 U | 0.2 U |
| 92-52-4 | BIPHENYL (DIPHENYL) | ug/l | 0.16 U | 0.16 U | 24 | 0.16 U | 0.16 U | 0.16 U |
| 111-91-1 | BIS(2-CHLOROETHOXY) METHANE | ug/l | 0.59 U | 0.58 U | 0.58 U | 0.59 U | 0.58 U | 0.59 U |
| 111-44-4 | BIS(2-CHLOROETHYL) ETHER | ug/l | 0.59 U | 0.58 U | 0.58 U | 0.59 U | 0.58 U | 0.59 U |
| 108-60-1 | BIS(2-CHLOROISOPROPYL) ETHER | ug/l | 0.18 U | 0.18 U | 0.18 U | 0.18 U | 0.18 U | 0.18 U |
| 117-81-7 | BIS(2-ETHYLHEXYL) PHTHALATE | ug/l | 0.17 U | 0.17 U | 0.17 U | 0.17 U | 0.17 U | 0.17 U |
| 105-60-2 | CAPROLACTAM | ug/l | 2.2 U | 2.1 U | 2.1 U | 2.1 U | 2.1 U | 2.2 U |
| 86-74-8 | CARBAZOLE | ug/l | 0.24 U | 0.23 U | 11 | 0.23 U | 0.23 U | 0.24 U |
| 218-01-9 | CHRYSENE | ug/l | 0.19 U | 0.19 U | 15 | 0.19 U | 0.19 U | 0.19 U |
| 53-70-3 | DIBENZ(A,H)ANTHRACENE | ug/l | 0.45 U | 0.44 U | 0.44 U | 0.45 U | 0.44 U | 0.45 U |
| 132-64-9 | DIBENZOFURAN | ug/l | 0.26 U | 0.25 U | 11 | 0.26 U | 0.25 U | 0.26 U |
| 84-66-2 | DIETHYL PHTHALATE | ug/l | 0.41 U | 0.4 U | 0.4 U | 0.4 U | 0.4 U | 0.41 U |
| 131-11-3 | DIMETHYL PHTHALATE | ug/l | 0.24 U | 0.23 U | 0.23 U | 0.23 U | 0.23 U | 0.24 U |
| 84-74-2 | DI-N-BUTYL PHTHALATE | ug/l | 2.2 U | 2.1 U | 2.1 U | 2.1 U | 2.1 U | 2.2 U |
| 117-84-0 | DI-N-OCTYLPHTHALATE | ug/l | 0.55 U | 0.54 U | 0.54 U | 0.54 U | 0.54 U | 0.55 U |
| 206-44-0 | FLUORANTHENE | ug/l | 0.43 U | 0.42 U | 28 | 0.43 U | 0.42 U | 0.43 U |
| 86-73-7 | FLUORENE | ug/l | 0.33 U | 0.33 U | 60 | 0.33 U | 0.33 U | 0.33 U |
| 118-74-1 | HEXACHLOROBENZENE | ug/l | 0.19 U | 0.19 U | 0.19 U | 0.19 U | 0.19 U | 0.19 U |
| 87-68-3 | HEXACHLOROBUTADIENE | ug/l | 0.27 U | 0.26 U | 0.26 U | 0.27 U | 0.26 U | 0.27 U |
| 77-47-4 | HEXACHLOROCYCLOPENTADIENE | ug/l | 0.26 U | 0.25 U | 0.25 U | 0.26 U | 0.25 U | 0.26 U |
| 67-72-1 | HEXACHLOROETHANE | ug/l | 0.27 U | 0.26 U | 0.26 U | 0.27 U | 0.26 U | 0.27 U |
| 193-39-5 | INDENO(1,2,3-C,D)PYRENE | ug/l | 0.16 U | 0.16 U | 0.16 U | 0.16 U | 0.16 U | 0.16 U |
| 78-59-1 | ISOPHORONE | ug/l | 0.32 U | 0.32 U | 0.32 U | 0.32 U | 0.32 U | 0.32 U |
| 91-20-3 | NAPHTHALENE | ug/l | 0.13 U | 23 | 1800 | 0.13 U | 6.9 J | 0.13 U |
| 98-95-3 | NITROBENZENE | ug/l | 0.73 U | 0.72 U | 0.72 U | 0.72 U | 0.72 U | 0.73 U |
| 621-64-7 | N-NITROSODI-N-PROPYLAMINE | ug/l | 0.22 U | 0.21 U | 0.21 U | 0.21 U | 0.21 U | 0.22 U |
| 86-30-6 | N-NITROSODIPHENYLAMINE | ug/l | 0.65 U | 0.63 U | 0.63 U | 0.64 U | 0.63 U | 0.65 U |
| 87-86-5 | PENTACHLOROPHENOL | ug/l | 1.8 U | 1.8 U | 1.8 U | 1.8 U | 1.8 U | 1.8 U |
| 85-01-8 | PHENANTHRENE | ug/l | 0.28 U | 0.27 U | 120 | 0.28 U | 0.27 U | 0.28 U |
| 108-95-2 | PHENOL | ug/l | 0.23 U | 0.22 U | 0.22 U | 0.22 U | 17 | 0.23 U |
| 129-00-0 | PYRENE | ug/l | 0.22 U | 0.21 U | 37 | 0.21 U | 0.21 U | 0.22 U |

| Consolidated Edison<br>Farrington Street Remedial Investigation<br>Validated Groundwater Analytical Data<br>SDG: C4681 | | Location ID:<br>Sample ID:<br>Lab Sample Id:<br>Source:<br>SDG:<br>Matrix:<br>Sampled:<br>Validated: | CMW-36<br>CMW-36<br>C4681-02<br>CTECH<br>C4681<br>WATER<br>11/16/2011<br>1/23/2012 | CMW-37<br>CMW-37<br>C4681-07<br>CTECH<br>C4681<br>WATER<br>11/14/2011<br>1/23/2012 | CMW-38<br>CMW-38<br>C4681-22<br>CTECH<br>C4681<br>WATER<br>11/18/2011<br>1/23/2012 | CMW-39<br>CMW-39<br>C4681-08<br>CTECH<br>C4681<br>WATER<br>11/14/2011<br>1/23/2012 | CMW-40<br>CMW-40<br>C4681-16<br>CTECH<br>C4681<br>WATER<br>11/16/2011<br>1/23/2012 | MW-13<br>MW-13<br>C4681-11<br>CTECH<br>C4681<br>WATER<br>11/17/2011<br>1/23/2012 |
|---|---|---|---|---|---|---|---|---|
| CAS NO. | COMPOUND | UNITS: | | | | | | |
| | INORGANICS | | | | | | | |
| 7429-90-5 | ALUMINUM | ug/l | 943 J | 1920 J | 1690 J | 26000 J | 46.3 J | 48.5 J |
| 7440-36-0 | ANTIMONY | ug/l | 8 U | 8 U | 8 U | 8.75 J | 8 U | 8 U |
| 7440-38-2 | ARSENIC | ug/l | 4.2 U | 24.5 | 4.2 U | 13.7 | 4.2 U | 4.2 U |
| 7440-39-3 | BARIUM | ug/l | 100 | 380 | 303 | 344 | 258 | 70.4 |
| 7440-41-7 | BERYLLIUM | ug/l | 0.7 U | 0.7 U | 0.7 U | 1.5 J | 0.7 U | 0.7 U |
| 7440-43-9 | CADMIUM | ug/l | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U |
| 7440-70-2 | CALCIUM | ug/l | 79400 | 75400 | 83500 | 241000 | 119000 | 33600 |
| 7440-47-3 | CHROMIUM, TOTAL | ug/l | 1.1 U | 4 J | 42.3 | 53.6 | 1.1 U | 1.1 U |
| 7440-48-4 | COBALT | ug/l | 5.8 U | 5.97 J | 5.8 U | 25.8 | 5.89 J | 5.8 U |
| 7440-50-8 | COPPER | ug/l | 3.88 J | 14.9 | 13.1 | 118 | 2.34 J | 3.1 J |
| 7439-89-6 | IRON | ug/l | 2300 J | 60600 J | 21800 J | 49700 J | 11500 J | 1100 J |
| 7439-92-1 | LEAD | ug/l | 9.77 | 10.6 | 7.89 | 202 | 7.11 | 6.16 |
| 7439-95-4 | MAGNESIUM | ug/l | 23900 | 17200 | 39000 | 34200 | 26500 | 5240 |
| 7439-96-5 | MANGANESE | ug/l | 2290 | 1300 | 727 | 1080 | 3700 | 158 |
| 7439-97-6 | MERCURY | ug/l | 0.092 U | 0.092 U | 0.092 U | 0.454 | 0.092 U | 0.092 U |
| 7440-02-0 | NICKEL | ug/l | 13.8 J | 5.38 J | 22.3 | 66.1 | 11.9 J | 4.2 U |
| 7440-09-7 | POTASSIUM | ug/l | 9380 | 21700 | 14900 | 29300 | 11900 | 5690 U |
| 7782-49-2 | SELENIUM | ug/l | 4.8 U | 4.8 U | 4.8 U | 4.8 U | 4.8 U | 4.8 U |
| 7440-22-4 | SILVER | ug/l | 1.5 U | 1.5 U | 1.5 U | 1.5 U | 1.5 U | 1.71 J |
| 7440-23-5 | SODIUM | ug/l | 347000 | 236000 | 325000 | 679000 | 279000 | 156000 |
| 7440-28-0 | THALLIUM | ug/l | 3.78 J | 3.23 J | 2.4 U | 2.4 U | 2.86 J | 2.4 U |
| 7440-62-2 | VANADIUM | ug/l | 6.1 U | 6.48 J | 6.1 U | 67.4 | 6.1 U | 6.1 U |
| 7440-66-6 | ZINC | ug/l | 17.5 J | 33.4 J | 24.7 J | 362 J | 18.2 J | 24.9 J |
| 57-12-5 | CYANIDE | mg/l | 0.003 J | 0.32 | 0.009 | 0.007 | 0.01 | 0.021 |
| | DISSOLVED METALS | | | | | | | |
| 7429-90-5 | ALUMINUM | ug/l | | | | 25.4 J | | |
| 7440-36-0 | ANTIMONY | ug/l | | | | 8 U | | |
| 7440-38-2 | ARSENIC | ug/l | | | | 4.2 U | | |
| 7440-39-3 | BARIUM | ug/l | | | | 97.7 | | |
| 7440-41-7 | BERYLLIUM | ug/l | | | | 0.7 U | | |
| 7440-43-9 | CADMIUM | ug/l | | | | 0.5 U | | |
| 7440-70-2 | CALCIUM | ug/l | | | | 247000 | | |
| 7440-47-3 | CHROMIUM | ug/l | | | | 1.1 U | | |
| 7440-48-4 | COBALT | ug/l | | | | 5.8 U | | |
| 7440-50-8 | COPPER | ug/l | | | | 8.6 J | | |
| 7439-89-6 | IRON | ug/l | | | | 50 U | | |
| 7439-92-1 | LEAD | ug/l | | | | 2.6 U | | |
| 7439-95-4 | MAGNESIUM | ug/l | | | | 33300 | | |
| 7439-96-5 | MANGANESE | ug/l | | | | 224 | | |
| 7439-97-6 | MERCURY | ug/l | | | | 0.318 | | |
| 7440-02-0 | NICKEL | ug/l | | | | 4.2 U | | |
| 7440-09-7 | POTASSIUM | ug/l | | | | 23900 | | |
| 7782-49-2 | SELENIUM | ug/l | | | | 4.8 U | | |
| 7440-22-4 | SILVER | ug/l | | | | 1.5 U | | |
| 7440-23-5 | SODIUM | ug/l | | | | 812000 | | |
| 7440-28-0 | THALLIUM | ug/l | | | | 2.66 J | | |
| 7440-62-2 | VANADIUM | ug/l | | | | 6.1 U | | |
| 7440-66-6 | ZINC | ug/l | | | | 39.4 | | |

| Consolidated Edison<br>Farrington Street Remedial Investigation<br>Validated Groundwater Analytical Data<br>SDG: C4681 | | Location ID:<br>Sample ID:<br>Lab Sample Id:<br>Source:<br>SDG:<br>Matrix:<br>Sampled:<br>Validated: | MW-15<br>MW-15<br>C4681-21<br>CTECH<br>C4681<br>WATER<br>11/18/2011<br>1/23/2012 | MW-16<br>MW-16<br>C4681-12<br>CTECH<br>C4681<br>WATER<br>11/17/2011<br>1/23/2012 | MW-17<br>MW-17<br>C4681-03<br>CTECH<br>C4681<br>WATER<br>11/16/2011<br>1/23/2012 | Dup of MW-17<br>MW-17<br>MW-17A<br>C4681-04<br>CTECH<br>C4681<br>WATER<br>11/16/2011<br>1/23/2012 | MW-18<br>MW-18<br>C4681-15<br>CTECH<br>C4681<br>WATER<br>11/17/2011<br>1/23/2012 | MW-19<br>MW-19<br>C4681-13<br>CTECH<br>C4681<br>WATER<br>11/17/2011<br>1/23/2012 |
|---|---|---|---|---|---|---|---|---|
| CAS NO. | COMPOUND | UNITS: | | | | | | |
| | VOLATILES | | | | | | | |
| 71-55-6 | 1,1,1-TRICHLOROETHANE | ug/l | 0.4 U | 0.4 U | 0.4 U | 0.4 U | 0.4 U | 0.4 U |
| 79-34-5 | 1,1,2,2-TETRACHLOROETHANE | ug/l | 0.31 U | 0.31 U | 0.31 U | 0.31 U | 0.31 U | 0.31 U |
| 76-13-1 | 1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE | ug/l | 0.45 U | 0.45 U | 0.45 U | 0.45 U | 0.45 U | 0.45 U |
| 79-00-5 | 1,1,2-TRICHLOROETHANE | ug/l | 0.38 U | 0.38 U | 0.38 U | 0.38 U | 0.38 U | 0.38 U |
| 75-34-3 | 1,1-DICHLOROETHANE | ug/l | 0.36 U | 0.36 U | 0.36 U | 0.36 U | 0.36 U | 0.36 U |
| 75-35-4 | 1,1-DICHLOROETHENE | ug/l | 0.47 U | 0.47 U | 0.47 U | 0.47 U | 0.47 U | 0.47 U |
| 120-82-1 | 1,2,4-TRICHLOROBENZENE | ug/l | 0.62 U | 0.62 U | 0.62 U | 0.62 U | 0.62 U | 0.62 U |
| 96-12-8 | 1,2-DIBROMO-3-CHLOROPROPANE | ug/l | 0.46 U | 0.46 U | 0.46 U | 0.46 U | 0.46 U | 0.46 U |
| 106-93-4 | 1,2-DIBROMOETHANE | ug/l | 0.41 U | 0.41 U | 0.41 U | 0.41 U | 0.41 U | 0.41 U |
| 95-50-1 | 1,2-DICHLOROBENZENE | ug/l | 0.45 U | 0.45 U | 0.45 U | 0.45 U | 0.45 U | 0.45 U |
| 107-06-2 | 1,2-DICHLOROETHANE | ug/l | 0.48 U | 0.48 U | 0.48 U | 0.48 U | 0.48 U | 0.48 U |
| 78-87-5 | 1,2-DICHLOROPROPANE | ug/l | 0.46 U | 0.46 U | 0.46 U | 0.46 U | 0.46 U | 0.46 U |
| 541-73-1 | 1,3-DICHLOROBENZENE | ug/l | 0.43 U | 0.43 U | 0.43 U | 0.43 U | 0.43 U | 0.43 U |
| 106-46-7 | 1,4-DICHLOROBENZENE | ug/l | 0.32 U | 0.32 U | 0.32 U | 0.32 U | 0.32 U | 0.32 U |
| 591-78-6 | 2-HEXANONE | ug/l | 1.9 U | 1.9 U | 1.9 U | 1.9 U | 1.9 U | 1.9 U |
| 67-64-1 | ACETONE | ug/l | 6.1 J | 20 J | 2.8 U | 2.8 U | 9.3 J | 2.8 UJ |
| 71-43-2 | BENZENE | ug/l | 3.7 J | 270 | 0.32 U | 0.32 U | 830 | 4.8 J |
| 75-27-4 | BROMODICHLOROMETHANE | ug/l | 0.36 U | 0.36 U | 0.36 U | 0.36 U | 0.36 U | 0.36 U |
| 75-25-2 | BROMOFORM | ug/l | 0.47 U | 0.47 U | 0.47 U | 0.47 U | 0.47 U | 0.47 U |
| 74-83-9 | BROMOMETHANE | ug/l | 0.62 U | 0.62 U | 0.62 U | 0.62 U | 0.62 U | 0.62 U |
| 75-15-0 | CARBON DISULFIDE | ug/l | 0.54 U | 0.54 U | 0.54 U | 0.54 U | 0.54 U | 0.54 U |
| 56-23-5 | CARBON TETRACHLORIDE | ug/l | 0.62 U | 0.62 U | 0.62 U | 0.62 U | 0.62 U | 0.62 U |
| 108-90-7 | CHLOROBENZENE | ug/l | 0.49 U | 0.49 U | 0.49 U | 0.49 U | 0.49 U | 0.49 U |
| 75-00-3 | CHLOROETHANE | ug/l | 0.66 U | 0.66 U | 0.66 U | 0.66 U | 0.66 U | 0.66 U |
| 67-66-3 | CHLOROFORM | ug/l | 0.34 U | 0.34 U | 0.34 U | 0.34 U | 0.34 U | 0.34 U |
| 74-87-3 | CHLOROMETHANE | ug/l | 0.54 UJ | 0.54 UJ | 0.54 UJ | 0.54 UJ | 0.54 UJ | 0.54 UJ |
| 156-59-2 | CIS-1,2-DICHLOROETHYLENE | ug/l | 0.35 U | 0.35 U | 0.35 U | 0.35 U | 0.35 U | 0.35 U |
| 10061-01-5 | CIS-1,3-DICHLOROPROPENE | ug/l | 0.31 U | 0.31 U | 0.31 U | 0.31 U | 0.31 U | 0.31 U |
| 110-82-7 | CYCLOHEXANE | ug/l | 0.55 U | 3.1 J | 0.55 U | 0.55 U | 9.2 | 8.4 |
| 124-48-1 | DIBROMOCHLOROMETHANE | ug/l | 0.52 U | 0.52 U | 0.52 U | 0.52 U | 0.52 U | 0.52 U |
| 75-71-8 | DICHLORODIFLUOROMETHANE | ug/l | 0.55 U | 0.55 U | 0.55 U | 0.55 U | 0.55 U | 0.55 U |
| 100-41-4 | ETHYLBENZENE | ug/l | 25 | 78 | 0.53 U | 0.53 U | 150 | 100 |
| 98-82-8 | ISOPROPYLBENZENE (CUMENE) | ug/l | 5.2 | 27 | 0.45 U | 0.45 U | 33 | 25 |
| 79-20-9 | METHYL ACETATE | ug/l | 0.83 U | 0.83 U | 0.83 U | 0.83 U | 0.83 U | 0.83 U |
| 78-93-3 | METHYL ETHYL KETONE (2-BUTANONE) | ug/l | 1.3 U | 1.3 U | 1.3 U | 1.3 U | 1.3 U | 1.3 U |
| 108-10-1 | METHYL ISOBUTYL KETONE | ug/l | 2.1 U | 2.1 U | 2.1 U | 2.1 U | 2.1 U | 2.1 U |
| 108-87-2 | METHYLCYCLOHEXANE | ug/l | 0.68 U | 4.4 J | 0.68 U | 0.68 U | 7.2 | 5.5 |
| 75-09-2 | METHYLENE CHLORIDE | ug/l | 0.41 U | 0.41 U | 0.41 U | 0.41 U | 0.41 U | 0.41 U |
| 95-47-6 | O-XYLENE (1,2-DIMETHYLBENZENE) | ug/l | 7 | 28 | 0.43 U | 0.43 U | 20 | 34 |
| 100-42-5 | STYRENE | ug/l | 0.36 U | 0.36 U | 0.36 U | 0.36 U | 0.36 U | 0.36 U |
| 1634-04-4 | TERT-BUTYL METHYL ETHER | ug/l | 0.35 U | 0.35 U | 89 | 100 | 2.7 J | 0.35 U |
| 127-18-4 | TETRACHLOROETHYLENE(PCE) | ug/l | 0.27 UJ | 0.27 UJ | 0.27 U | 0.27 U | 0.27 UJ | 0.27 UJ |
| 108-88-3 | TOLUENE | ug/l | 0.37 U | 0.37 U | 0.37 U | 0.37 U | 4.7 J | 0.37 U |
| 156-60-5 | TRANS-1,2-DICHLOROETHENE | ug/l | 0.41 U | 0.41 U | 0.41 U | 0.41 U | 0.41 U | 0.41 U |
| 10061-02-6 | TRANS-1,3-DICHLOROPROPENE | ug/l | 0.29 U | 0.29 U | 0.29 U | 0.29 U | 0.29 U | 0.29 U |
| 79-01-6 | TRICHLOROETHYLENE (TCE) | ug/l | 0.28 U | 0.28 U | 0.28 U | 0.28 U | 0.28 U | 0.28 U |
| 75-69-4 | TRICHLOROFLUOROMETHANE | ug/l | 0.35 U | 0.35 U | 0.35 U | 0.35 U | 0.35 U | 0.35 U |
| 75-01-4 | VINYL CHLORIDE | ug/l | 0.34 UJ | 0.34 UJ | 0.34 UJ | 0.34 UJ | 0.34 UJ | 0.34 UJ |
| XYLMP | M,P-XYLENE (SUM OF ISOMERS) | ug/l | 0.95 U | 8.6 J | 0.95 U | 0.95 U | 22 | 6.2 J |

| Consolidated Edison<br>Farrington Street Remedial Investigation<br>Validated Groundwater Analytical Data<br>SDG: C4681 | | Location ID:<br>Sample ID:<br>Lab Sample Id:<br>Source:<br>SDG:<br>Matrix:<br>Sampled:<br>Validated: | MW-15<br>MW-15<br>C4681-21<br>CTECH<br>C4681<br>WATER<br>11/18/2011<br>1/23/2012 | MW-16<br>MW-16<br>C4681-12<br>CTECH<br>C4681<br>WATER<br>11/17/2011<br>1/23/2012 | MW-17<br>MW-17<br>C4681-03<br>CTECH<br>C4681<br>WATER<br>11/16/2011<br>1/23/2012 | Dup of MW-17<br>MW-17<br>MW-17A<br>C4681-04<br>CTECH<br>C4681<br>WATER<br>11/16/2011<br>1/23/2012 | MW-18<br>MW-18<br>C4681-15<br>CTECH<br>C4681<br>WATER<br>11/17/2011<br>1/23/2012 | MW-19<br>MW-19<br>C4681-13<br>CTECH<br>C4681<br>WATER<br>11/17/2011<br>1/23/2012 |
|---|---|---|---|---|---|---|---|---|
| CAS NO. | COMPOUND | UNITS: | | | | | | |
| | SEMIVOLATILES | | | | | | | |
| 95-95-4 | 2,4,5-TRICHLOROPHENOL | ug/l | 0.41 U | 0.43 U | 0.42 U | 0.42 U | 0.42 U | 0.43 U |
| 88-06-2 | 2,4,6-TRICHLOROPHENOL | ug/l | 0.58 U | 0.6 U | 0.58 U | 0.58 U | 0.58 U | 0.6 U |
| 120-83-2 | 2,4-DICHLOROPHENOL | ug/l | 0.68 U | 0.7 U | 0.69 U | 0.69 U | 0.69 U | 0.71 U |
| 105-67-9 | 2,4-DIMETHYLPHENOL | ug/l | 0.73 U | 0.76 U | 0.74 U | 0.74 U | 0.74 U | 0.76 U |
| 51-28-5 | 2,4-DINITROPHENOL | ug/l | 2.2 UJ | 2.2 UJ | 2.2 UJ | 2.2 UJ | 2.2 UJ | 2.3 UJ |
| 121-14-2 | 2,4-DINITROTOLUENE | ug/l | 1.1 U | 1.1 U | 1.1 U | 1.1 U | 1.1 U | 1.1 U |
| 606-20-2 | 2,6-DINITROTOLUENE | ug/l | 0.33 U | 0.34 U | 0.33 U | 0.33 U | 0.33 U | 0.34 U |
| 91-58-7 | 2-CHLORONAPHTHALENE | ug/l | 0.16 U | 0.17 U | 0.17 U | 0.17 U | 0.17 U | 0.17 U |
| 95-57-8 | 2-CHLOROPHENOL | ug/l | 0.56 U | 0.57 U | 0.56 U | 0.56 U | 0.56 U | 0.58 U |
| 91-57-6 | 2-METHYLNAPHTHALENE | ug/l | 0.33 U | 83 | 0.33 U | 0.33 U | 82 | 70 |
| 95-48-7 | 2-METHYLPHENOL (O-CRESOL) | ug/l | 0.25 U | 0.26 U | 0.25 U | 0.25 U | 0.25 U | 0.26 U |
| 88-74-4 | 2-NITROANILINE | ug/l | 0.51 U | 0.52 U | 0.51 U | 0.51 U | 0.51 U | 0.53 U |
| 88-75-5 | 2-NITROPHENOL | ug/l | 0.54 U | 0.55 U | 0.54 U | 0.54 U | 0.54 U | 0.56 U |
| 91-94-1 | 3,3'-DICHLOROBENZIDINE | ug/l | 2.1 U | 2.1 U | 2.1 U | 2.1 U | 2.1 U | 2.2 U |
| MEPH3MEPH | 3- AND 4- METHYLPHENOL (TOTAL) | ug/l | 0.39 U | 0.4 U | 0.4 U | 0.4 U | 0.4 U | 0.41 U |
| 99-09-2 | 3-NITROANILINE | ug/l | 1.1 U | 1.2 U | 1.1 U | 1.1 U | 1.1 U | 1.2 U |
| 534-52-1 | 4,6-DINITRO-2-METHYLPHENOL | ug/l | 0.76 UJ | 0.79 UJ | 0.77 UJ | 0.77 UJ | 0.77 UJ | 0.8 UJ |
| 101-55-3 | 4-BROMOPHENYL PHENYL ETHER | ug/l | 0.24 U | 0.24 U | 0.24 U | 0.24 U | 0.24 U | 0.25 U |
| 59-50-7 | 4-CHLORO-3-METHYLPHENOL | ug/l | 0.41 U | 0.43 U | 0.42 U | 0.42 U | 0.42 U | 0.43 U |
| 106-47-8 | 4-CHLOROANILINE | ug/l | 2.9 U | 3 U | 3 U | 3 U | 3 U | 3.1 U |
| 7005-72-3 | 4-CHLOROPHENYL PHENYL ETHER | ug/l | 0.22 U | 0.22 U | 0.22 U | 0.22 U | 0.22 U | 0.23 U |
| 100-01-6 | 4-NITROANILINE | ug/l | 1.4 U | 1.4 U | 1.4 U | 1.4 U | 1.4 U | 1.5 U |
| 100-02-7 | 4-NITROPHENOL | ug/l | 2.1 U | 2.1 U | 2.1 U | 2.1 U | 2.1 U | 2.2 U |
| 83-32-9 | ACENAPHTHENE | ug/l | 100 | 57 | 17 | 17 | 40 | 70 |
| 208-96-8 | ACENAPHTHYLENE | ug/l | 8.3 J | 0.74 U | 0.73 U | 0.73 U | 0.73 U | 0.75 U |
| 98-86-2 | ACETOPHENONE | ug/l | 0.14 U | 0.15 U | 0.15 U | 0.15 U | 0.15 U | 0.15 U |
| 120-12-7 | ANTHRACENE | ug/l | 24 | 7.5 J | 0.17 U | 0.17 U | 9 J | 7 J |
| 1912-24-9 | ATRAZINE | ug/l | 0.41 U | 0.43 U | 0.42 U | 0.42 U | 0.42 U | 0.43 U |
| 100-52-7 | BENZALDEHYDE | ug/l | 0.79 U | 0.82 U | 0.8 U | 0.8 U | 0.8 U | 0.83 U |
| 56-55-3 | BENZO(A)ANTHRACENE | ug/l | 23 | 0.17 U | 0.17 U | 0.17 U | 0.17 U | 0.17 U |
| 50-32-8 | BENZO(A)PYRENE | ug/l | 13 | 0.15 U | 0.15 U | 0.15 U | 0.15 U | 0.15 U |
| 205-99-2 | BENZO(B)FLUORANTHENE | ug/l | 13 | 0.31 U | 0.3 U | 0.3 U | 0.3 U | 0.31 U |
| 191-24-2 | BENZO(G,H,I)PERYLENE | ug/l | 5.1 J | 0.31 U | 0.3 U | 0.3 U | 0.3 U | 0.31 U |
| 207-08-9 | BENZO(K)FLUORANTHENE | ug/l | 0.19 U | 0.19 U | 0.19 U | 0.19 U | 0.19 U | 0.19 U |
| 85-68-7 | BENZYL BUTYL PHTHALATE | ug/l | 0.2 U | 0.2 U | 0.2 U | 0.2 U | 0.2 U | 0.2 U |
| 92-52-4 | BIPHENYL (DIPHENYL) | ug/l | 0.15 U | 0.16 U | 0.16 U | 0.16 U | 4.3 J | 0.16 U |
| 111-91-1 | BIS(2-CHLOROETHOXY) METHANE | ug/l | 0.57 U | 0.59 U | 0.57 U | 0.57 U | 0.57 U | 0.59 U |
| 111-44-4 | BIS(2-CHLOROETHYL) ETHER | ug/l | 0.57 U | 0.59 U | 0.57 U | 0.57 U | 0.57 U | 0.59 U |
| 108-60-1 | BIS(2-CHLOROISOPROPYL) ETHER | ug/l | 0.18 U | 0.18 U | 0.18 U | 0.18 U | 0.18 U | 0.18 U |
| 117-81-7 | BIS(2-ETHYLHEXYL) PHTHALATE | ug/l | 0.16 U | 0.17 U | 0.17 U | 0.17 U | 0.17 U | 0.17 U |
| 105-60-2 | CAPROLACTAM | ug/l | 2.1 U | 2.1 U | 2.1 U | 2.1 U | 2.1 U | 2.2 U |
| 86-74-8 | CARBAZOLE | ug/l | 0.23 U | 7.2 J | 4.2 J | 0.23 U | 12 | 8.3 J |
| 218-01-9 | CHRYSENE | ug/l | 20 | 0.19 U | 0.19 U | 0.19 U | 0.19 U | 0.19 U |
| 53-70-3 | DIBENZ(A,H)ANTHRACENE | ug/l | 0.43 U | 0.45 U | 0.44 U | 0.44 U | 0.44 U | 0.45 U |
| 132-64-9 | DIBENZOFURAN | ug/l | 4.6 J | 0.26 U | 0.25 U | 0.25 U | 0.25 U | 0.26 U |
| 84-66-2 | DIETHYL PHTHALATE | ug/l | 0.39 U | 0.4 U | 0.4 U | 0.4 U | 0.4 U | 0.41 U |
| 131-11-3 | DIMETHYL PHTHALATE | ug/l | 0.23 U | 0.23 U | 0.23 U | 0.23 U | 0.23 U | 0.24 U |
| 84-74-2 | DI-N-BUTYL PHTHALATE | ug/l | 2.1 U | 2.1 U | 2.1 U | 2.1 U | 2.1 U | 2.2 U |
| 117-84-0 | DI-N-OCTYLPHTHALATE | ug/l | 0.53 U | 0.54 U | 0.53 U | 0.53 U | 0.53 U | 0.55 U |
| 206-44-0 | FLUORANTHENE | ug/l | 35 | 6.4 J | 0.42 U | 0.42 U | 4.7 J | 0.43 U |
| 86-73-7 | FLUORENE | ug/l | 22 | 19 | 14 | 13 | 14 | 22 |
| 118-74-1 | HEXACHLOROBENZENE | ug/l | 0.19 U | 0.19 U | 0.19 U | 0.19 U | 0.19 U | 0.19 U |
| 87-68-3 | HEXACHLOROBUTADIENE | ug/l | 0.26 U | 0.27 U | 0.26 U | 0.26 U | 0.26 U | 0.27 U |
| 77-47-4 | HEXACHLOROCYCLOPENTADIENE | ug/l | 0.25 U | 0.26 U | 0.25 U | 0.25 U | 0.25 U | 0.26 U |
| 67-72-1 | HEXACHLOROETHANE | ug/l | 0.26 U | 0.27 U | 0.26 U | 0.26 U | 0.26 U | 0.27 U |
| 193-39-5 | INDENO(1,2,3-C,D)PYRENE | ug/l | 4.5 J | 0.16 U | 0.16 U | 0.16 U | 0.16 U | 0.16 U |
| 78-59-1 | ISOPHORONE | ug/l | 0.31 U | 0.32 U | 0.31 U | 0.31 U | 0.31 U | 0.32 U |
| 91-20-3 | NAPHTHALENE | ug/l | 35 | 200 | 0.12 U | 0.12 U | 130 | 980 |
| 98-95-3 | NITROBENZENE | ug/l | 0.7 U | 0.72 U | 0.71 U | 0.71 U | 0.71 U | 0.73 U |
| 621-64-7 | N-NITROSODI-N-PROPYLAMINE | ug/l | 0.21 U | 0.21 U | 0.21 U | 0.21 U | 0.21 U | 0.22 U |
| 86-30-6 | N-NITROSODIPHENYLAMINE | ug/l | 0.62 U | 0.64 U | 0.62 U | 0.62 U | 0.62 U | 0.65 U |
| 87-86-5 | PENTACHLOROPHENOL | ug/l | 1.8 U | 1.8 U | 1.8 U | 1.8 U | 1.8 U | 1.8 U |
| 85-01-8 | PHENANTHRENE | ug/l | 50 | 26 | 0.27 U | 0.27 U | 26 | 27 |
| 108-95-2 | PHENOL | ug/l | 0.22 U | 0.22 U | 0.22 U | 0.22 U | 6.2 J | 0.23 U |
| 129-00-0 | PYRENE | ug/l | 47 | 8 J | 0.21 U | 0.21 U | 8.3 J | 4.3 J |

| Consolidated Edison<br>Farrington Street Remedial Investigation<br>Validated Groundwater Analytical Data<br>SDG: C4681 | | Location ID:<br>Sample ID:<br>Lab Sample Id:<br>Source:<br>SDG:<br>Matrix:<br>Sampled:<br>Validated: | MW-15<br>MW-15<br>C4681-21<br>CTECH<br>C4681<br>WATER<br>11/18/2011<br>1/23/2012 | MW-16<br>MW-16<br>C4681-12<br>CTECH<br>C4681<br>WATER<br>11/17/2011<br>1/23/2012 | MW-17<br>MW-17<br>C4681-03<br>CTECH<br>C4681<br>WATER<br>11/16/2011<br>1/23/2012 | Dup of MW-17<br>MW-17<br>MW-17A<br>C4681-04<br>CTECH<br>C4681<br>WATER<br>11/16/2011<br>1/23/2012 | MW-18<br>MW-18<br>C4681-15<br>CTECH<br>C4681<br>WATER<br>11/17/2011<br>1/23/2012 | MW-19<br>MW-19<br>C4681-13<br>CTECH<br>C4681<br>WATER<br>11/17/2011<br>1/23/2012 |
|---|---|---|---|---|---|---|---|---|
| CAS NO. | COMPOUND | UNITS: | | | | | | |
| | INORGANICS | | | | | | | |
| 7429-90-5 | ALUMINUM | ug/l | 592 J | 103 J | 7150 J | 7650 J | 88.5 J | 192 J |
| 7440-36-0 | ANTIMONY | ug/l | 8 U | 8 U | 8 U | 8 U | 8 U | 8 U |
| 7440-38-2 | ARSENIC | ug/l | 4.2 U | 4.2 U | 4.2 U | 4.2 U | 4.2 U | 5.65 J |
| 7440-39-3 | BARIUM | ug/l | 458 | 52.5 | 271 | 274 | 156 | 200 |
| 7440-41-7 | BERYLLIUM | ug/l | 0.7 U | 0.7 U | 0.7 U | 0.7 U | 0.7 U | 0.7 U |
| 7440-43-9 | CADMIUM | ug/l | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U |
| 7440-70-2 | CALCIUM | ug/l | 159000 | 26200 | 128000 | 126000 | 84900 | 120000 |
| 7440-47-3 | CHROMIUM, TOTAL | ug/l | 1.1 U | 1.1 U | 15.1 | 16.6 | 1.1 U | 8.61 |
| 7440-48-4 | COBALT | ug/l | 5.8 U | 5.8 U | 6.2 J | 6.61 J | 5.8 U | 5.8 U |
| 7440-50-8 | COPPER | ug/l | 4.97 J | 3.3 J | 24.9 | 27 | 8.45 J | 9.34 J |
| 7439-89-6 | IRON | ug/l | 10600 J | 3060 J | 78300 J | 77800 J | 39800 J | 61400 J |
| 7439-92-1 | LEAD | ug/l | 8.11 | 5.66 J | 18.6 | 18.8 | 5.29 J | 5.03 J |
| 7439-95-4 | MAGNESIUM | ug/l | 127000 | 5380 | 15200 | 15200 | 11800 | 18500 |
| 7439-96-5 | MANGANESE | ug/l | 1620 | 121 | 1700 | 1720 | 550 | 1020 |
| 7439-97-6 | MERCURY | ug/l | 0.092 U | 0.092 U | 0.092 U | 0.092 U | 0.092 U | 0.092 U |
| 7440-02-0 | NICKEL | ug/l | 4.2 U | 4.2 U | 18 J | 19.8 J | 4.2 U | 4.2 U |
| 7440-09-7 | POTASSIUM | ug/l | 63800 | 3220 U | 15800 | 15900 | 8330 | 12600 |
| 7782-49-2 | SELENIUM | ug/l | 4.8 U | 4.8 U | 4.8 U | 4.8 U | 4.8 U | 4.8 U |
| 7440-22-4 | SILVER | ug/l | 1.64 J | 1.5 U | 1.5 U | 1.5 U | 1.5 U | 1.5 U |
| 7440-23-5 | SODIUM | ug/l | 1200000 | 52200 | 90600 | 90000 | 43900 | 117000 |
| 7440-28-0 | THALLIUM | ug/l | 4 J | 2.4 U | 2.4 U | 2.4 U | 2.4 U | 2.4 U |
| 7440-62-2 | VANADIUM | ug/l | 6.1 U | 6.1 U | 18.7 J | 19.7 J | 6.1 U | 6.1 U |
| 7440-66-6 | ZINC | ug/l | 20 J | 32.1 J | 54.4 J | 58.5 J | 18.6 J | 21.4 J |
| 57-12-5 | CYANIDE | mg/l | 0.003 U | 0.003 U | 0.067 | 0.07 | 0.007 | 0.007 |
| | DISSOLVED METALS | | | | | | | |
| 7429-90-5 | ALUMINUM | ug/l | | | | | | |
| 7440-36-0 | ANTIMONY | ug/l | | | | | | |
| 7440-38-2 | ARSENIC | ug/l | | | | | | |
| 7440-39-3 | BARIUM | ug/l | | | | | | |
| 7440-41-7 | BERYLLIUM | ug/l | | | | | | |
| 7440-43-9 | CADMIUM | ug/l | | | | | | |
| 7440-70-2 | CALCIUM | ug/l | | | | | | |
| 7440-47-3 | CHROMIUM | ug/l | | | | | | |
| 7440-48-4 | COBALT | ug/l | | | | | | |
| 7440-50-8 | COPPER | ug/l | | | | | | |
| 7439-89-6 | IRON | ug/l | | | | | | |
| 7439-92-1 | LEAD | ug/l | | | | | | |
| 7439-95-4 | MAGNESIUM | ug/l | | | | | | |
| 7439-96-5 | MANGANESE | ug/l | | | | | | |
| 7439-97-6 | MERCURY | ug/l | | | | | | |
| 7440-02-0 | NICKEL | ug/l | | | | | | |
| 7440-09-7 | POTASSIUM | ug/l | | | | | | |
| 7782-49-2 | SELENIUM | ug/l | | | | | | |
| 7440-22-4 | SILVER | ug/l | | | | | | |
| 7440-23-5 | SODIUM | ug/l | | | | | | |
| 7440-28-0 | THALLIUM | ug/l | | | | | | |
| 7440-62-2 | VANADIUM | ug/l | | | | | | |
| 7440-66-6 | ZINC | ug/l | | | | | | |

| Consolidated Edison<br>Farrington Street Remedial Investigation<br>Validated Groundwater Analytical Data<br>SDG: C4681 | | Location ID:<br>Sample ID:<br>Lab Sample Id:<br>Source:<br>SDG:<br>Matrix:<br>Sampled:<br>Validated: | MW-20<br>MW-20<br>C4681-17<br>CTECH<br>C4681<br>WATER<br>11/16/2011<br>1/23/2012 | MW-21<br>MW-21<br>C4681-18<br>CTECH<br>C4681<br>WATER<br>11/16/2011<br>1/23/2012 | MW-25<br>MW-25<br>C4681-14<br>CTECH<br>C4681<br>WATER<br>11/17/2011<br>1/23/2012 | MW-27<br>MW-27<br>C4681-06<br>CTECH<br>C4681<br>WATER<br>11/14/2011<br>1/23/2012 | MW-28<br>MW-28<br>C4681-05<br>CTECH<br>C4681<br>WATER<br>11/14/2011<br>1/23/2012 | MW-30<br>MW-30<br>C4681-01<br>CTECH<br>C4681<br>WATER<br>11/16/2011<br>1/23/2012 |
|---|---|---|---|---|---|---|---|---|
| CAS NO. | COMPOUND | UNITS: | | | | | | |
| | VOLATILES | | | | | | | |
| 71-55-6 | 1,1,1-TRICHLOROETHANE | ug/l | 0.4 U | 0.4 U | 0.4 U | 0.4 U | 0.4 U | 0.4 U |
| 79-34-5 | 1,1,2,2-TETRACHLOROETHANE | ug/l | 0.31 U | 0.31 U | 0.31 U | 0.31 U | 0.31 U | 0.31 U |
| 76-13-1 | 1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE | ug/l | 0.45 U | 0.45 U | 0.45 U | 0.45 U | 0.45 U | 0.45 U |
| 79-00-5 | 1,1,2-TRICHLOROETHANE | ug/l | 0.38 U | 0.38 U | 0.38 U | 0.38 U | 0.38 U | 0.38 U |
| 75-34-3 | 1,1-DICHLOROETHANE | ug/l | 0.36 U | 0.36 U | 0.36 U | 0.36 U | 0.36 U | 0.36 U |
| 75-35-4 | 1,1-DICHLOROETHENE | ug/l | 0.47 U | 0.47 U | 0.47 U | 0.47 U | 0.47 U | 0.47 U |
| 120-82-1 | 1,2,4-TRICHLOROBENZENE | ug/l | 0.62 U | 0.62 U | 0.62 U | 0.62 U | 0.62 U | 0.62 U |
| 96-12-8 | 1,2-DIBROMO-3-CHLOROPROPANE | ug/l | 0.46 U | 0.46 U | 0.46 U | 0.46 U | 0.46 U | 0.46 U |
| 106-93-4 | 1,2-DIBROMOETHANE | ug/l | 0.41 U | 0.41 U | 0.41 U | 0.41 U | 0.41 U | 0.41 U |
| 95-50-1 | 1,2-DICHLOROBENZENE | ug/l | 0.45 U | 0.45 U | 0.45 U | 0.45 U | 0.45 U | 0.45 U |
| 107-06-2 | 1,2-DICHLOROETHANE | ug/l | 0.48 U | 0.48 U | 0.48 U | 0.48 U | 0.48 U | 0.48 U |
| 78-87-5 | 1,2-DICHLOROPROPANE | ug/l | 0.46 U | 0.46 U | 0.46 U | 0.46 U | 0.46 U | 0.46 U |
| 541-73-1 | 1,3-DICHLOROBENZENE | ug/l | 0.43 U | 0.43 U | 0.43 U | 0.43 U | 0.43 U | 0.43 U |
| 106-46-7 | 1,4-DICHLOROBENZENE | ug/l | 0.32 U | 0.32 U | 0.32 U | 0.32 U | 0.32 U | 0.32 U |
| 591-78-6 | 2-HEXANONE | ug/l | 1.9 U | 1.9 U | 1.9 U | 1.9 U | 1.9 U | 1.9 U |
| 67-64-1 | ACETONE | ug/l | 2.8 UJ | 2.8 UJ | 7.2 J | 2.8 U | 2.8 U | 2.8 U |
| 71-43-2 | BENZENE | ug/l | 11 | 0.32 U | 8.4 | 0.32 U | 0.32 U | 2800 |
| 75-27-4 | BROMODICHLOROMETHANE | ug/l | 0.36 U | 0.36 U | 0.36 U | 0.36 U | 0.36 U | 0.36 U |
| 75-25-2 | BROMOFORM | ug/l | 0.47 U | 0.47 U | 0.47 U | 0.47 U | 0.47 U | 0.47 U |
| 74-83-9 | BROMOMETHANE | ug/l | 0.62 U | 0.62 U | 0.62 U | 0.62 U | 0.62 U | 0.62 U |
| 75-15-0 | CARBON DISULFIDE | ug/l | 0.54 U | 0.54 U | 0.54 U | 0.54 U | 0.54 U | 0.54 U |
| 56-23-5 | CARBON TETRACHLORIDE | ug/l | 0.62 U | 0.62 U | 0.62 U | 0.62 U | 0.62 U | 0.62 U |
| 108-90-7 | CHLOROBENZENE | ug/l | 0.49 U | 0.49 U | 0.49 U | 0.49 U | 0.49 U | 0.49 U |
| 75-00-3 | CHLOROETHANE | ug/l | 0.66 U | 0.66 U | 0.66 U | 0.66 U | 0.66 U | 0.66 U |
| 67-66-3 | CHLOROFORM | ug/l | 0.34 U | 0.34 U | 0.34 U | 4.1 J | 0.34 U | 0.34 U |
| 74-87-3 | CHLOROMETHANE | ug/l | 0.54 UJ | 0.54 UJ | 0.54 UJ | 0.54 UJ | 0.54 UJ | 0.54 UJ |
| 156-59-2 | CIS-1,2-DICHLOROETHYLENE | ug/l | 0.35 U | 0.35 U | 0.35 U | 0.35 U | 4.3 J | 0.35 U |
| 10061-01-5 | CIS-1,3-DICHLOROPROPENE | ug/l | 0.31 U | 0.31 U | 0.31 U | 0.31 U | 0.31 U | 0.31 U |
| 110-82-7 | CYCLOHEXANE | ug/l | 0.55 U | 0.55 U | 0.55 U | 0.55 U | 0.55 U | 3.3 J |
| 124-48-1 | DIBROMOCHLOROMETHANE | ug/l | 0.52 U | 0.52 U | 0.52 U | 0.52 U | 0.52 U | 0.52 U |
| 75-71-8 | DICHLORODIFLUOROMETHANE | ug/l | 0.55 U | 0.55 U | 0.55 U | 0.55 U | 0.55 U | 0.55 U |
| 100-41-4 | ETHYLBENZENE | ug/l | 0.53 U | 0.53 U | 100 | 0.53 U | 0.53 U | 210 J |
| 98-82-8 | ISOPROPYLBENZENE (CUMENE) | ug/l | 0.45 U | 0.45 U | 11 | 0.45 U | 0.45 U | 80 |
| 79-20-9 | METHYL ACETATE | ug/l | 0.83 U | 0.83 U | 0.83 U | 0.83 U | 0.83 U | 0.83 U |
| 78-93-3 | METHYL ETHYL KETONE (2-BUTANONE) | ug/l | 1.3 U | 1.3 U | 1.3 U | 1.3 U | 1.3 U | 1.3 U |
| 108-10-1 | METHYL ISOBUTYL KETONE | ug/l | 2.1 U | 2.1 U | 2.1 U | 2.1 U | 2.1 U | 2.1 U |
| 108-87-2 | METHYLCYCLOHEXANE | ug/l | 0.68 U | 0.68 U | 0.68 U | 0.68 U | 0.68 U | 4.9 J |
| 75-09-2 | METHYLENE CHLORIDE | ug/l | 0.41 U | 0.41 U | 0.41 U | 0.41 U | 0.41 U | 0.41 U |
| 95-47-6 | O-XYLENE (1,2-DIMETHYLBENZENE) | ug/l | 0.43 U | 0.43 U | 27 | 0.43 U | 0.43 U | 71 |
| 100-42-5 | STYRENE | ug/l | 0.36 U | 0.36 U | 0.36 U | 0.36 U | 0.36 U | 0.36 U |
| 1634-04-4 | TERT-BUTYL METHYL ETHER | ug/l | 12 | 0.35 U | 75 | 0.35 U | 10 | 9.4 |
| 127-18-4 | TETRACHLOROETHYLENE(PCE) | ug/l | 0.27 UJ | 0.27 UJ | 0.27 UJ | 0.27 U | 17 | 0.27 U |
| 108-88-3 | TOLUENE | ug/l | 0.37 U | 0.37 U | 0.37 U | 0.37 U | 0.37 U | 6.7 |
| 156-60-5 | TRANS-1,2-DICHLOROETHENE | ug/l | 0.41 U | 0.41 U | 0.41 U | 0.41 U | 0.41 U | 0.41 U |
| 10061-02-6 | TRANS-1,3-DICHLOROPROPENE | ug/l | 0.29 U | 0.29 U | 0.29 U | 0.29 U | 0.29 U | 0.29 U |
| 79-01-6 | TRICHLOROETHYLENE (TCE) | ug/l | 0.28 U | 0.28 U | 0.28 U | 0.28 U | 2.2 J | 0.28 U |
| 75-69-4 | TRICHLOROFLUOROMETHANE | ug/l | 0.35 U | 0.35 U | 0.35 U | 0.35 U | 0.35 U | 0.35 U |
| 75-01-4 | VINYL CHLORIDE | ug/l | 0.34 UJ | 0.34 UJ | 0.34 UJ | 0.34 UJ | 0.34 UJ | 0.34 UJ |
| XYLMP | M,P-XYLENE (SUM OF ISOMERS) | ug/l | 0.95 U | 0.95 U | 28 | 0.95 U | 0.95 U | 26 |

| Consolidated Edison | | Location ID: | MW-20 | MW-21 | MW-25 | MW-27 | MW-28 | MW-30 |
|---|---|---|---|---|---|---|---|---|
| Farrington Street Remedial Investigation | | Sample ID: | MW-20 | MW-21 | MW-25 | MW-27 | MW-28 | MW-30 |
| Validated Groundwater Analytical Data | | Lab Sample Id: | C4681-17 | C4681-18 | C4681-14 | C4681-06 | C4681-05 | C4681-01 |
| SDG: C4681 | | Source: | CTECH | CTECH | CTECH | CTECH | CTECH | CTECH |
| | | SDG: | C4681 | C4681 | C4681 | C4681 | C4681 | C4681 |
| | | Matrix: | WATER | WATER | WATER | WATER | WATER | WATER |
| | | Sampled: | 11/16/2011 | 11/16/2011 | 11/17/2011 | 11/14/2011 | 11/14/2011 | 11/16/2011 |
| | | Validated: | 1/23/2012 | 1/23/2012 | 1/23/2012 | 1/23/2012 | 1/23/2012 | 1/23/2012 |
| CAS NO. | COMPOUND | UNITS: | | | | | | |
| | SEMIVOLATILES | | | | | | | |
| 95-95-4 | 2,4,5-TRICHLOROPHENOL | ug/l | 0.41 U | 0.42 U | 0.42 U | 0.42 U | 0.42 U | 0.43 U |
| 88-06-2 | 2,4,6-TRICHLOROPHENOL | ug/l | 0.57 U | 0.58 U | 0.59 U | 0.58 U | 0.59 U | 0.6 U |
| 120-83-2 | 2,4-DICHLOROPHENOL | ug/l | 0.67 U | 0.69 U | 0.69 U | 0.69 U | 0.69 U | 0.7 U |
| 105-67-9 | 2,4-DIMETHYLPHENOL | ug/l | 0.72 U | 0.74 U | 0.75 U | 0.74 U | 0.75 U | 0.76 U |
| 51-28-5 | 2,4-DINITROPHENOL | ug/l | 2.1 UJ | 2.2 UJ | 2.2 UJ | 2.2 UJ | 2.2 UJ | 2.2 UJ |
| 121-14-2 | 2,4-DINITROTOLUENE | ug/l | 1.1 U | 1.1 U | 1.1 U | 1.1 U | 1.1 U | 1.1 U |
| 606-20-2 | 2,6-DINITROTOLUENE | ug/l | 0.33 U | 0.33 U | 0.34 U | 0.33 U | 0.34 U | 0.34 U |
| 91-58-7 | 2-CHLORONAPHTHALENE | ug/l | 0.16 U | 0.17 U | 0.17 U | 0.17 U | 0.17 U | 0.17 U |
| 95-57-8 | 2-CHLOROPHENOL | ug/l | 0.55 U | 0.56 U | 0.57 U | 0.56 U | 0.57 U | 0.57 U |
| 91-57-6 | 2-METHYLNAPHTHALENE | ug/l | 0.33 U | 0.33 U | 21 | 0.33 U | 0.34 U | 210 |
| 95-48-7 | 2-METHYLPHENOL (O-CRESOL) | ug/l | 0.24 U | 0.25 U | 0.25 U | 0.25 U | 0.25 U | 0.26 U |
| 88-74-4 | 2-NITROANILINE | ug/l | 0.5 U | 0.51 U | 0.52 U | 0.51 U | 0.52 U | 0.52 U |
| 88-75-5 | 2-NITROPHENOL | ug/l | 0.53 U | 0.54 U | 0.55 U | 0.54 U | 0.55 U | 0.55 U |
| 91-94-1 | 3,3'-DICHLOROBENZIDINE | ug/l | 2 U | 2.1 U | 2.1 U | 2.1 U | 2.1 U | 2.1 U |
| MEPH3MEPH | 3- AND 4- METHYLPHENOL (TOTAL) | ug/l | 0.39 U | 0.4 U | 0.4 U | 0.4 U | 0.4 U | 0.4 U |
| 99-09-2 | 3-NITROANILINE | ug/l | 1.1 U | 1.1 U | 1.1 U | 1.1 U | 1.1 U | 1.2 U |
| 534-52-1 | 4,6-DINITRO-2-METHYLPHENOL | ug/l | 0.76 UJ | 0.77 UJ | 0.78 UJ | 0.77 UJ | 0.78 UJ | 0.79 UJ |
| 101-55-3 | 4-BROMOPHENYL PHENYL ETHER | ug/l | 0.23 U | 0.24 U | 0.24 U | 0.24 U | 0.24 U | 0.24 U |
| 59-50-7 | 4-CHLORO-3-METHYLPHENOL | ug/l | 0.41 U | 0.42 U | 0.42 U | 0.42 U | 0.42 U | 0.43 U |
| 106-47-8 | 4-CHLOROANILINE | ug/l | 2.9 U | 3 U | 3 U | 3 U | 3 U | 3 U |
| 7005-72-3 | 4-CHLOROPHENYL PHENYL ETHER | ug/l | 0.21 U | 0.22 U | 0.22 U | 0.22 U | 0.22 U | 0.22 U |
| 100-01-6 | 4-NITROANILINE | ug/l | 1.4 U | 1.4 U | 1.4 U | 1.4 U | 1.4 U | 1.4 U |
| 100-02-7 | 4-NITROPHENOL | ug/l | 2 U | 2.1 U | 2.1 U | 2.1 U | 2.1 U | 2.1 U |
| 83-32-9 | ACENAPHTHENE | ug/l | 23 | 0.22 U | 52 | 0.22 U | 0.22 U | 140 |
| 208-96-8 | ACENAPHTHYLENE | ug/l | 0.71 U | 0.73 U | 0.74 U | 0.73 U | 0.74 U | 0.74 U |
| 98-86-2 | ACETOPHENONE | ug/l | 0.14 U | 0.15 U | 5.7 J | 0.15 U | 0.15 U | 0.15 U |
| 120-12-7 | ANTHRACENE | ug/l | 0.16 U | 0.17 U | 8.6 J | 0.17 U | 0.17 U | 9.4 J |
| 1912-24-9 | ATRAZINE | ug/l | 0.41 U | 0.42 U | 0.42 U | 0.42 U | 0.42 U | 0.43 U |
| 100-52-7 | BENZALDEHYDE | ug/l | 0.79 U | 0.8 U | 0.81 U | 0.8 U | 0.81 U | 0.82 U |
| 56-55-3 | BENZO(A)ANTHRACENE | ug/l | 0.16 U | 0.17 U | 0.17 U | 0.17 U | 0.17 U | 0.17 U |
| 50-32-8 | BENZO(A)PYRENE | ug/l | 0.14 U | 0.15 U | 0.15 U | 0.15 U | 0.15 U | 0.15 U |
| 205-99-2 | BENZO(B)FLUORANTHENE | ug/l | 0.3 U | 0.3 U | 0.31 U | 0.3 U | 0.31 U | 0.31 U |
| 191-24-2 | BENZO(G,H,I)PERYLENE | ug/l | 0.3 U | 0.3 U | 0.31 U | 0.3 U | 0.31 U | 0.31 U |
| 207-08-9 | BENZO(K)FLUORANTHENE | ug/l | 0.18 U | 0.19 U | 0.19 U | 0.19 U | 0.19 U | 0.19 U |
| 85-68-7 | BENZYL BUTYL PHTHALATE | ug/l | 0.19 U | 0.2 U | 0.2 U | 0.2 U | 0.2 U | 0.2 U |
| 92-52-4 | BIPHENYL (DIPHENYL) | ug/l | 0.15 U | 0.16 U | 0.16 U | 0.16 U | 0.16 U | 0.16 U |
| 111-91-1 | BIS(2-CHLOROETHOXY) METHANE | ug/l | 0.56 U | 0.57 U | 0.58 U | 0.57 U | 0.58 U | 0.59 U |
| 111-44-4 | BIS(2-CHLOROETHYL) ETHER | ug/l | 0.56 U | 0.57 U | 0.58 U | 0.57 U | 0.58 U | 0.59 U |
| 108-60-1 | BIS(2-CHLOROISOPROPYL) ETHER | ug/l | 0.17 U | 0.18 U | 0.18 U | 0.18 U | 0.18 U | 0.18 U |
| 117-81-7 | BIS(2-ETHYLHEXYL) PHTHALATE | ug/l | 0.16 U | 0.17 U | 0.17 U | 0.17 U | 0.17 U | 0.17 U |
| 105-60-2 | CAPROLACTAM | ug/l | 2 U | 2.1 U | 2.1 U | 2.1 U | 2.1 U | 2.1 U |
| 86-74-8 | CARBAZOLE | ug/l | 0.22 U | 0.23 U | 0.23 U | 0.23 U | 0.23 U | 30 |
| 218-01-9 | CHRYSENE | ug/l | 0.18 U | 0.19 U | 0.19 U | 0.19 U | 0.19 U | 0.19 U |
| 53-70-3 | DIBENZ(A,H)ANTHRACENE | ug/l | 0.43 U | 0.44 U | 0.44 U | 0.44 U | 0.44 U | 0.45 U |
| 132-64-9 | DIBENZOFURAN | ug/l | 0.24 U | 0.25 U | 0.25 U | 0.25 U | 0.25 U | 9.4 J |
| 84-66-2 | DIETHYL PHTHALATE | ug/l | 0.39 U | 0.4 U | 0.4 U | 0.4 U | 0.4 U | 0.4 U |
| 131-11-3 | DIMETHYL PHTHALATE | ug/l | 0.22 U | 0.23 U | 0.23 U | 0.23 U | 0.23 U | 0.23 U |
| 84-74-2 | DI-N-BUTYL PHTHALATE | ug/l | 2 U | 2.1 U | 2.1 U | 2.1 U | 2.1 U | 2.1 U |
| 117-84-0 | DI-N-OCTYLPHTHALATE | ug/l | 0.52 U | 0.53 U | 0.54 U | 0.53 U | 0.54 U | 0.54 U |
| 206-44-0 | FLUORANTHENE | ug/l | 0.41 U | 0.42 U | 9.6 J | 0.42 U | 0.42 U | 5.1 J |
| 86-73-7 | FLUORENE | ug/l | 0.32 U | 0.32 U | 17 | 0.32 U | 0.33 U | 39 |
| 118-74-1 | HEXACHLOROBENZENE | ug/l | 0.18 U | 0.19 U | 0.19 U | 0.19 U | 0.19 U | 0.19 U |
| 87-68-3 | HEXACHLOROBUTADIENE | ug/l | 0.26 U | 0.26 U | 0.26 U | 0.26 U | 0.26 U | 0.27 U |
| 77-47-4 | HEXACHLOROCYCLOPENTADIENE | ug/l | 0.24 U | 0.25 U | 0.25 U | 0.25 U | 0.25 U | 0.26 U |
| 67-72-1 | HEXACHLOROETHANE | ug/l | 0.26 U | 0.26 U | 0.26 U | 0.26 U | 0.26 U | 0.27 U |
| 193-39-5 | INDENO(1,2,3-C,D)PYRENE | ug/l | 0.15 U | 0.16 U | 0.16 U | 0.16 U | 0.16 U | 0.16 U |
| 78-59-1 | ISOPHORONE | ug/l | 0.31 U | 0.31 U | 0.32 U | 0.31 U | 0.32 U | 0.32 U |
| 91-20-3 | NAPHTHALENE | ug/l | 0.12 U | 0.12 U | 42 | 0.12 U | 0.13 U | 370 |
| 98-95-3 | NITROBENZENE | ug/l | 0.69 U | 0.71 U | 0.72 U | 0.71 U | 0.72 U | 0.72 U |
| 621-64-7 | N-NITROSODI-N-PROPYLAMINE | ug/l | 0.2 U | 0.21 U | 0.21 U | 0.21 U | 0.21 U | 0.21 U |
| 86-30-6 | N-NITROSODIPHENYLAMINE | ug/l | 0.61 U | 0.62 U | 0.63 U | 0.62 U | 0.63 U | 0.64 U |
| 87-86-5 | PENTACHLOROPHENOL | ug/l | 1.8 U | 1.8 U | 1.8 U | 1.8 U | 1.8 U | 1.8 U |
| 85-01-8 | PHENANTHRENE | ug/l | 0.27 U | 0.27 U | 18 | 0.27 U | 0.27 U | 55 |
| 108-95-2 | PHENOL | ug/l | 0.21 U | 0.22 U | 0.22 U | 0.22 U | 0.22 U | 17 |
| 129-00-0 | PYRENE | ug/l | 0.2 U | 0.21 U | 10 J | 0.21 U | 0.21 U | 4.9 J |

| Consolidated Edison<br>Farrington Street Remedial Investigation<br>Validated Groundwater Analytical Data<br>SDG: C4681 | | Location ID:<br>Sample ID:<br>Lab Sample Id:<br>Source:<br>SDG:<br>Matrix:<br>Sampled:<br>Validated: | MW-20<br>MW-20<br>C4681-17<br>CTECH<br>C4681<br>WATER<br>11/16/2011<br>1/23/2012 | MW-21<br>MW-21<br>C4681-18<br>CTECH<br>C4681<br>WATER<br>11/16/2011<br>1/23/2012 | MW-25<br>MW-25<br>C4681-14<br>CTECH<br>C4681<br>WATER<br>11/17/2011<br>1/23/2012 | MW-27<br>MW-27<br>C4681-06<br>CTECH<br>C4681<br>WATER<br>11/14/2011<br>1/23/2012 | MW-28<br>MW-28<br>C4681-05<br>CTECH<br>C4681<br>WATER<br>11/14/2011<br>1/23/2012 | MW-30<br>MW-30<br>C4681-01<br>CTECH<br>C4681<br>WATER<br>11/16/2011<br>1/23/2012 |
|---|---|---|---|---|---|---|---|---|
| CAS NO. | COMPOUND | UNITS: | | | | | | |
| | INORGANICS | | | | | | | |
| 7429-90-5 | ALUMINUM | ug/l | 18.6 J | 263 J | 10100 J | 778 J | 410 J | 549 J |
| 7440-36-0 | ANTIMONY | ug/l | 8 U | 8 U | 8 U | 8 U | 8 U | 8 U |
| 7440-38-2 | ARSENIC | ug/l | 4.2 U | 4.2 U | 4.2 U | 4.2 U | 4.2 U | 4.2 U |
| 7440-39-3 | BARIUM | ug/l | 268 | 575 | 200 | 54.1 | 89.4 | 383 |
| 7440-41-7 | BERYLLIUM | ug/l | 0.7 U | 0.7 U | 0.7 U | 0.7 U | 0.7 U | 0.7 U |
| 7440-43-9 | CADMIUM | ug/l | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U |
| 7440-70-2 | CALCIUM | ug/l | 106000 | 116000 | 65600 | 27100 | 68400 | 71300 |
| 7440-47-3 | CHROMIUM, TOTAL | ug/l | 1.1 U | 1.1 U | 38.9 | 2.03 J | 1.1 U | 1.1 U |
| 7440-48-4 | COBALT | ug/l | 5.8 U | 5.8 U | 12 J | 5.8 U | 5.8 U | 5.8 U |
| 7440-50-8 | COPPER | ug/l | 2.21 J | 11.6 | 51.4 | 3.56 J | 2.95 J | 7.78 J |
| 7439-89-6 | IRON | ug/l | 6180 J | 61900 J | 24900 J | 1770 J | 820 J | 27900 J |
| 7439-92-1 | LEAD | ug/l | 6.87 | 10.4 | 239 | 8.29 | 7.67 | 8 |
| 7439-95-4 | MAGNESIUM | ug/l | 19200 | 17600 | 10800 | 7220 | 16900 | 31100 |
| 7439-96-5 | MANGANESE | ug/l | 589 | 1040 | 1070 | 228 | 761 | 1630 |
| 7439-97-6 | MERCURY | ug/l | 0.092 U | 0.092 U | 0.507 | 0.092 U | 0.092 U | 0.092 U |
| 7440-02-0 | NICKEL | ug/l | 8.14 J | 4.2 U | 33.9 | 5.36 J | 6.55 J | 6.69 J |
| 7440-09-7 | POTASSIUM | ug/l | 5670 U | 30100 | 8820 | 3950 U | 5920 U | 17800 |
| 7782-49-2 | SELENIUM | ug/l | 4.8 U | 4.8 U | 4.8 U | 4.8 U | 4.8 U | 4.8 U |
| 7440-22-4 | SILVER | ug/l | 1.5 U | 1.5 U | 1.5 U | 1.5 U | 1.5 U | 1.5 U |
| 7440-23-5 | SODIUM | ug/l | 104000 | 364000 | 31300 | 47100 | 150000 | 335000 |
| 7440-28-0 | THALLIUM | ug/l | 2.4 U | 2.4 U | 2.4 U | 2.4 U | 2.4 U | 4.23 J |
| 7440-62-2 | VANADIUM | ug/l | 6.1 U | 6.1 U | 41.9 | 6.1 U | 6.1 U | 6.1 U |
| 7440-66-6 | ZINC | ug/l | 12.6 J | 36.2 J | 182 J | 14.6 J | 16 J | 14.4 J |
| 57-12-5 | CYANIDE | mg/l | 0.018 | 0.042 | 0.013 | 0.003 U | 0.003 U | 0.006 |
| | DISSOLVED METALS | | | | | | | |
| 7429-90-5 | ALUMINUM | ug/l | | 6.5 U | 6.5 U | | | |
| 7440-36-0 | ANTIMONY | ug/l | | 8 U | 8 U | | | |
| 7440-38-2 | ARSENIC | ug/l | | 4.2 U | 4.2 U | | | |
| 7440-39-3 | BARIUM | ug/l | | 401 | 84.1 | | | |
| 7440-41-7 | BERYLLIUM | ug/l | | 0.7 U | 0.7 U | | | |
| 7440-43-9 | CADMIUM | ug/l | | 2.95 J | 0.5 U | | | |
| 7440-70-2 | CALCIUM | ug/l | | 113000 | 63800 | | | |
| 7440-47-3 | CHROMIUM | ug/l | | 1.34 J | 1.26 J | | | |
| 7440-48-4 | COBALT | ug/l | | 5.8 U | 5.8 U | | | |
| 7440-50-8 | COPPER | ug/l | | 3.38 J | 6.35 J | | | |
| 7439-89-6 | IRON | ug/l | | 43500 | 50 U | | | |
| 7439-92-1 | LEAD | ug/l | | 3.73 J | 2.6 U | | | |
| 7439-95-4 | MAGNESIUM | ug/l | | 19600 | 8130 U | | | |
| 7439-96-5 | MANGANESE | ug/l | | 966 | 752 | | | |
| 7439-97-6 | MERCURY | ug/l | | 0.092 U | 0.092 U | | | |
| 7440-02-0 | NICKEL | ug/l | | 4.2 U | 4.2 U | | | |
| 7440-09-7 | POTASSIUM | ug/l | | 29100 | 6170 U | | | |
| 7782-49-2 | SELENIUM | ug/l | | 4.8 U | 4.8 U | | | |
| 7440-22-4 | SILVER | ug/l | | 2.54 J | 1.5 U | | | |
| 7440-23-5 | SODIUM | ug/l | | 376000 | 32400 U | | | |
| 7440-28-0 | THALLIUM | ug/l | | 3.66 J | 3.05 J | | | |
| 7440-62-2 | VANADIUM | ug/l | | 6.1 U | 6.1 U | | | |
| 7440-66-6 | ZINC | ug/l | | 29.2 | 20.1 | | | |

| Consolidated Edison<br>Farrington Street Remedial Investigation<br>Validated Groundwater Analytical Data<br>SDG: C4681 | | Location ID:<br>Sample ID:<br>Lab Sample Id:<br>Source:<br>SDG:<br>Matrix:<br>Sampled:<br>Validated: | FIELDQC<br>FB111711<br>C4681-10<br>CTECH<br>C4681<br>WATER<br>11/17/2011<br>1/23/2012 | FIELDQC<br>TRIPBLANK<br>C4681-09<br>CTECH<br>C4681<br>WATER<br>11/16/2011<br>1/23/2012 |
|---|---|---|---|---|
| CAS NO. | COMPOUND | UNITS: | | |
| | VOLATILES | | | |
| 71-55-6 | 1,1,1-TRICHLOROETHANE | ug/l | 0.4 U | 0.4 U |
| 79-34-5 | 1,1,2,2-TETRACHLOROETHANE | ug/l | 0.31 U | 0.31 U |
| 76-13-1 | 1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE | ug/l | 0.45 U | 0.45 U |
| 79-00-5 | 1,1,2-TRICHLOROETHANE | ug/l | 0.38 U | 0.38 U |
| 75-34-3 | 1,1-DICHLOROETHANE | ug/l | 0.36 U | 0.36 U |
| 75-35-4 | 1,1-DICHLOROETHENE | ug/l | 0.47 U | 0.47 U |
| 120-82-1 | 1,2,4-TRICHLOROBENZENE | ug/l | 0.62 U | 0.62 U |
| 96-12-8 | 1,2-DIBROMO-3-CHLOROPROPANE | ug/l | 0.46 U | 0.46 U |
| 106-93-4 | 1,2-DIBROMOETHANE | ug/l | 0.41 U | 0.41 U |
| 95-50-1 | 1,2-DICHLOROBENZENE | ug/l | 0.45 U | 0.45 U |
| 107-06-2 | 1,2-DICHLOROETHANE | ug/l | 0.48 U | 0.48 U |
| 78-87-5 | 1,2-DICHLOROPROPANE | ug/l | 0.46 U | 0.46 U |
| 541-73-1 | 1,3-DICHLOROBENZENE | ug/l | 0.43 U | 0.43 U |
| 106-46-7 | 1,4-DICHLOROBENZENE | ug/l | 0.32 U | 0.32 U |
| 591-78-6 | 2-HEXANONE | ug/l | 1.9 U | 1.9 U |
| 67-64-1 | ACETONE | ug/l | 2.8 U | 2.8 U |
| 71-43-2 | BENZENE | ug/l | 0.32 U | 0.32 U |
| 75-27-4 | BROMODICHLOROMETHANE | ug/l | 0.36 U | 0.36 U |
| 75-25-2 | BROMOFORM | ug/l | 0.47 U | 0.47 U |
| 74-83-9 | BROMOMETHANE | ug/l | 0.62 U | 0.62 U |
| 75-15-0 | CARBON DISULFIDE | ug/l | 0.54 U | 0.54 U |
| 56-23-5 | CARBON TETRACHLORIDE | ug/l | 0.62 U | 0.62 U |
| 108-90-7 | CHLOROBENZENE | ug/l | 0.49 U | 0.49 U |
| 75-00-3 | CHLOROETHANE | ug/l | 0.66 U | 0.66 U |
| 67-66-3 | CHLOROFORM | ug/l | 0.34 U | 0.34 U |
| 74-87-3 | CHLOROMETHANE | ug/l | 0.54 UJ | 0.54 UJ |
| 156-59-2 | CIS-1,2-DICHLOROETHYLENE | ug/l | 0.35 U | 0.35 U |
| 10061-01-5 | CIS-1,3-DICHLOROPROPENE | ug/l | 0.31 U | 0.31 U |
| 110-82-7 | CYCLOHEXANE | ug/l | 0.55 U | 0.55 U |
| 124-48-1 | DIBROMOCHLOROMETHANE | ug/l | 0.52 U | 0.52 U |
| 75-71-8 | DICHLORODIFLUOROMETHANE | ug/l | 0.55 U | 0.55 U |
| 100-41-4 | ETHYLBENZENE | ug/l | 0.53 U | 0.53 U |
| 98-82-8 | ISOPROPYLBENZENE (CUMENE) | ug/l | 0.45 U | 0.45 U |
| 79-20-9 | METHYL ACETATE | ug/l | 0.83 U | 0.83 U |
| 78-93-3 | METHYL ETHYL KETONE (2-BUTANONE) | ug/l | 1.3 U | 1.3 U |
| 108-10-1 | METHYL ISOBUTYL KETONE | ug/l | 2.1 U | 2.1 U |
| 108-87-2 | METHYLCYCLOHEXANE | ug/l | 0.68 U | 0.68 U |
| 75-09-2 | METHYLENE CHLORIDE | ug/l | 0.41 U | 0.41 U |
| 95-47-6 | O-XYLENE (1,2-DIMETHYLBENZENE) | ug/l | 0.43 U | 0.43 U |
| 100-42-5 | STYRENE | ug/l | 0.36 U | 0.36 U |
| 1634-04-4 | TERT-BUTYL METHYL ETHER | ug/l | 0.35 U | 0.35 U |
| 127-18-4 | TETRACHLOROETHYLENE(PCE) | ug/l | 0.27 U | 0.27 U |
| 108-88-3 | TOLUENE | ug/l | 0.37 U | 0.37 U |
| 156-60-5 | TRANS-1,2-DICHLOROETHENE | ug/l | 0.41 U | 0.41 U |
| 10061-02-6 | TRANS-1,3-DICHLOROPROPENE | ug/l | 0.29 U | 0.29 U |
| 79-01-6 | TRICHLOROETHYLENE (TCE) | ug/l | 0.28 U | 0.28 U |
| 75-69-4 | TRICHLOROFLUOROMETHANE | ug/l | 0.35 U | 0.35 U |
| 75-01-4 | VINYL CHLORIDE | ug/l | 0.34 UJ | 0.34 UJ |
| XYLMP | M,P-XYLENE (SUM OF ISOMERS) | ug/l | 0.95 U | 0.95 U |

| Consolidated Edison<br>Farrington Street Remedial Investigation<br>Validated Groundwater Analytical Data<br>SDG: C4681 | | Location ID:<br>Sample ID:<br>Lab Sample Id:<br>Source:<br>SDG:<br>Matrix:<br>Sampled:<br>Validated: | FIELDQC<br>FB111711<br>C4681-10<br>CTECH<br>C4681<br>WATER<br>11/17/2011<br>1/23/2012 | FIELDQC<br>TRIPBLANK<br>C4681-09<br>CTECH<br>C4681<br>WATER<br>11/16/2011<br>1/23/2012 |
|---|---|---|---|---|
| CAS NO. | COMPOUND | UNITS: | | |
| | SEMIVOLATILES | | | |
| 95-95-4 | 2,4,5-TRICHLOROPHENOL | ug/l | R | |
| 88-06-2 | 2,4,6-TRICHLOROPHENOL | ug/l | R | |
| 120-83-2 | 2,4-DICHLOROPHENOL | ug/l | R | |
| 105-67-9 | 2,4-DIMETHYLPHENOL | ug/l | R | |
| 51-28-5 | 2,4-DINITROPHENOL | ug/l | R | |
| 121-14-2 | 2,4-DINITROTOLUENE | ug/l | 1.1 U | |
| 606-20-2 | 2,6-DINITROTOLUENE | ug/l | 0.35 U | |
| 91-58-7 | 2-CHLORONAPHTHALENE | ug/l | R | |
| 95-57-8 | 2-CHLOROPHENOL | ug/l | 0.59 U | |
| 91-57-6 | 2-METHYLNAPHTHALENE | ug/l | 0.35 U | |
| 95-48-7 | 2-METHYLPHENOL (O-CRESOL) | ug/l | R | |
| 88-74-4 | 2-NITROANILINE | ug/l | 0.54 U | |
| 88-75-5 | 2-NITROPHENOL | ug/l | R | |
| 91-94-1 | 3,3'-DICHLOROBENZIDINE | ug/l | 2.2 U | |
| MEPH3MEPH | 3- AND 4- METHYLPHENOL (TOTAL) | ug/l | R | |
| 99-09-2 | 3-NITROANILINE | ug/l | 1.2 U | |
| 534-52-1 | 4,6-DINITRO-2-METHYLPHENOL | ug/l | R | |
| 101-55-3 | 4-BROMOPHENYL PHENYL ETHER | ug/l | 0.25 U | |
| 59-50-7 | 4-CHLORO-3-METHYLPHENOL | ug/l | R | |
| 106-47-8 | 4-CHLOROANILINE | ug/l | 3.1 U | |
| 7005-72-3 | 4-CHLOROPHENYL PHENYL ETHER | ug/l | 0.23 U | |
| 100-01-6 | 4-NITROANILINE | ug/l | 1.5 U | |
| 100-02-7 | 4-NITROPHENOL | ug/l | R | |
| 83-32-9 | ACENAPHTHENE | ug/l | 0.23 U | |
| 208-96-8 | ACENAPHTHYLENE | ug/l | 0.77 U | |
| 98-86-2 | ACETOPHENONE | ug/l | 0.15 U | |
| 120-12-7 | ANTHRACENE | ug/l | 0.18 U | |
| 1912-24-9 | ATRAZINE | ug/l | 0.44 U | |
| 100-52-7 | BENZALDEHYDE | ug/l | 0.85 U | |
| 56-55-3 | BENZO(A)ANTHRACENE | ug/l | 0.18 U | |
| 50-32-8 | BENZO(A)PYRENE | ug/l | 0.15 U | |
| 205-99-2 | BENZO(B)FLUORANTHENE | ug/l | 0.32 U | |
| 191-24-2 | BENZO(G,H,I)PERYLENE | ug/l | 0.32 U | |
| 207-08-9 | BENZO(K)FLUORANTHENE | ug/l | 0.2 U | |
| 85-68-7 | BENZYL BUTYL PHTHALATE | ug/l | 0.21 U | |
| 92-52-4 | BIPHENYL (DIPHENYL) | ug/l | 0.16 U | |
| 111-91-1 | BIS(2-CHLOROETHOXY) METHANE | ug/l | 0.6 U | |
| 111-44-4 | BIS(2-CHLOROETHYL) ETHER | ug/l | 0.6 U | |
| 108-60-1 | BIS(2-CHLOROISOPROPYL) ETHER | ug/l | 0.19 U | |
| 117-81-7 | BIS(2-ETHYLHEXYL) PHTHALATE | ug/l | 0.18 U | |
| 105-60-2 | CAPROLACTAM | ug/l | 2.2 U | |
| 86-74-8 | CARBAZOLE | ug/l | 0.24 U | |
| 218-01-9 | CHRYSENE | ug/l | 0.2 U | |
| 53-70-3 | DIBENZ(A,H)ANTHRACENE | ug/l | 0.46 U | |
| 132-64-9 | DIBENZOFURAN | ug/l | 0.26 U | |
| 84-66-2 | DIETHYL PHTHALATE | ug/l | 0.42 U | |
| 131-11-3 | DIMETHYL PHTHALATE | ug/l | 0.24 U | |
| 84-74-2 | DI-N-BUTYL PHTHALATE | ug/l | 2.2 U | |
| 117-84-0 | DI-N-OCTYLPHTHALATE | ug/l | 0.56 U | |
| 206-44-0 | FLUORANTHENE | ug/l | 0.44 U | |
| 86-73-7 | FLUORENE | ug/l | 0.34 U | |
| 118-74-1 | HEXACHLOROBENZENE | ug/l | 0.2 U | |
| 87-68-3 | HEXACHLOROBUTADIENE | ug/l | 0.27 U | |
| 77-47-4 | HEXACHLOROCYCLOPENTADIENE | ug/l | 0.26 U | |
| 67-72-1 | HEXACHLOROETHANE | ug/l | 0.27 U | |
| 193-39-5 | INDENO(1,2,3-C,D)PYRENE | ug/l | 0.16 U | |
| 78-59-1 | ISOPHORONE | ug/l | 0.33 U | |
| 91-20-3 | NAPHTHALENE | ug/l | 0.13 U | |
| 98-95-3 | NITROBENZENE | ug/l | 0.75 U | |
| 621-64-7 | N-NITROSODI-N-PROPYLAMINE | ug/l | 0.22 U | |
| 86-30-6 | N-NITROSODIPHENYLAMINE | ug/l | 0.66 U | |
| 87-86-5 | PENTACHLOROPHENOL | ug/l | R | |
| 85-01-8 | PHENANTHRENE | ug/l | 0.29 U | |
| 108-95-2 | PHENOL | ug/l | R | |
| 129-00-0 | PYRENE | ug/l | 0.22 U | |

| Consolidated Edison<br>Farrington Street Remedial Investigation<br>Validated Groundwater Analytical Data<br>SDG: C4681 | | Location ID:<br>Sample ID:<br>Lab Sample Id:<br>Source:<br>SDG:<br>Matrix:<br>Sampled:<br>Validated: | FIELDQC<br>FB111711<br>C4681-10<br>CTECH<br>C4681<br>WATER<br>11/17/2011<br>1/23/2012 | FIELDQC<br>TRIPBLANK<br>C4681-09<br>CTECH<br>C4681<br>WATER<br>11/16/2011<br>1/23/2012 |
|---|---|---|---|---|
| CAS NO. | COMPOUND | UNITS: | | |
| | INORGANICS | | | |
| 7429-90-5 | ALUMINUM | ug/l | 25.9 J | |
| 7440-36-0 | ANTIMONY | ug/l | 8 U | |
| 7440-38-2 | ARSENIC | ug/l | 4.2 U | |
| 7440-39-3 | BARIUM | ug/l | 4 U | |
| 7440-41-7 | BERYLLIUM | ug/l | 0.7 U | |
| 7440-43-9 | CADMIUM | ug/l | 0.5 U | |
| 7440-70-2 | CALCIUM | ug/l | 705 J | |
| 7440-47-3 | CHROMIUM, TOTAL | ug/l | 1.1 U | |
| 7440-48-4 | COBALT | ug/l | 5.8 U | |
| 7440-50-8 | COPPER | ug/l | 2 U | |
| 7439-89-6 | IRON | ug/l | 71.3 J | |
| 7439-92-1 | LEAD | ug/l | 2.6 U | |
| 7439-95-4 | MAGNESIUM | ug/l | 63 J | |
| 7439-96-5 | MANGANESE | ug/l | 2.85 J | |
| 7439-97-6 | MERCURY | ug/l | 0.092 U | |
| 7440-02-0 | NICKEL | ug/l | 4.2 U | |
| 7440-09-7 | POTASSIUM | ug/l | 1680 | |
| 7782-49-2 | SELENIUM | ug/l | 4.8 U | |
| 7440-22-4 | SILVER | ug/l | 1.87 J | |
| 7440-23-5 | SODIUM | ug/l | 1730 | |
| 7440-28-0 | THALLIUM | ug/l | 2.4 U | |
| 7440-62-2 | VANADIUM | ug/l | 6.1 U | |
| 7440-66-6 | ZINC | ug/l | 12.8 J | |
| 57-12-5 | CYANIDE | mg/l | 0.003 U | |
| | DISSOLVED METALS | | | |
| 7429-90-5 | ALUMINUM | ug/l | 7.29 J | |
| 7440-36-0 | ANTIMONY | ug/l | 8 U | |
| 7440-38-2 | ARSENIC | ug/l | 4.2 U | |
| 7440-39-3 | BARIUM | ug/l | 26 J | |
| 7440-41-7 | BERYLLIUM | ug/l | 0.7 U | |
| 7440-43-9 | CADMIUM | ug/l | 0.5 U | |
| 7440-70-2 | CALCIUM | ug/l | 12400 | |
| 7440-47-3 | CHROMIUM | ug/l | 1.65 J | |
| 7440-48-4 | COBALT | ug/l | 5.8 U | |
| 7440-50-8 | COPPER | ug/l | 3.83 J | |
| 7439-89-6 | IRON | ug/l | 51.1 | |
| 7439-92-1 | LEAD | ug/l | 2.67 J | |
| 7439-95-4 | MAGNESIUM | ug/l | 2390 | |
| 7439-96-5 | MANGANESE | ug/l | 4.09 J | |
| 7439-97-6 | MERCURY | ug/l | 0.092 U | |
| 7440-02-0 | NICKEL | ug/l | 4.2 U | |
| 7440-09-7 | POTASSIUM | ug/l | 1940 | |
| 7782-49-2 | SELENIUM | ug/l | 4.8 U | |
| 7440-22-4 | SILVER | ug/l | 1.5 U | |
| 7440-23-5 | SODIUM | ug/l | 12400 | |
| 7440-28-0 | THALLIUM | ug/l | 5.63 J | |
| 7440-62-2 | VANADIUM | ug/l | 6.1 U | |
| 7440-66-6 | ZINC | ug/l | 16.7 J | |

| Consolidated Edison<br>Farrington Street Remedial Investigation<br>Validated Soil Analytical Data<br>SDG: D1577 | | Location ID:<br>Sample ID:<br>Lab Sample Id:<br>Depth:<br>Source:<br>SDG:<br>Matrix:<br>Sampled:<br>Validated: | SB-36(12-14)<br>SB-36(12-14)<br>D1577-01<br>12 - 14 ft<br>CTECH<br>D1577<br>SOIL<br>2/21/2012<br>4/2/2012 | SB-36(28-30)<br>SB-36(28-30)<br>D1577-04<br>28 - 30 ft<br>CTECH<br>D1577<br>SOIL<br>2/21/2012<br>4/2/2012 |
|---|---|---|---|---|
| CAS NO. | COMPOUND | UNITS: | | |
| | VOLATILES | | | |
| 103-65-1 | N-PROPYLBENZENE | ug/kg | 600 U | 5.9 U |
| 108-67-8 | 1,3,5-TRIMETHYLBENZENE (MESITYLENE) | ug/kg | 600 U | 5.9 U |
| 135-98-8 | SEC-BUTYLBENZENE | ug/kg | 600 U | 5.9 U |
| 87-61-6 | 1,2,3-TRICHLOROBENZENE | ug/kg | 600 U | 5.9 U |
| 95-63-6 | 1,2,4-TRIMETHYLBENZENE | ug/kg | 600 U | 5.9 U |
| 98-06-6 | T-BUTYLBENZENE | ug/kg | 600 U | 5.9 U |
| XYLMP | M,P-XYLENE (SUM OF ISOMERS) | ug/kg | 1200 U | 12 U |
| 71-55-6 | 1,1,1-TRICHLOROETHANE | ug/kg | 600 U | 5.9 U |
| 79-34-5 | 1,1,2,2-TETRACHLOROETHANE | ug/kg | 600 U | 5.9 U |
| 76-13-1 | 1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE | ug/kg | 600 U | 5.9 U |
| 79-00-5 | 1,1,2-TRICHLOROETHANE | ug/kg | 600 U | 5.9 U |
| 75-34-3 | 1,1-DICHLOROETHANE | ug/kg | 600 U | 5.9 U |
| 75-35-4 | 1,1-DICHLOROETHENE | ug/kg | 600 U | 5.9 U |
| 120-82-1 | 1,2,4-TRICHLOROBENZENE | ug/kg | 600 U | 5.9 U |
| 96-12-8 | 1,2-DIBROMO-3-CHLOROPROPANE | ug/kg | 600 U | 5.9 UJ |
| 106-93-4 | 1,2-DIBROMOETHANE | ug/kg | 600 U | 5.9 U |
| 95-50-1 | 1,2-DICHLOROBENZENE | ug/kg | 600 U | 5.9 U |
| 107-06-2 | 1,2-DICHLOROETHANE | ug/kg | 600 U | 5.9 U |
| 78-87-5 | 1,2-DICHLOROPROPANE | ug/kg | 600 U | 5.9 U |
| 541-73-1 | 1,3-DICHLOROBENZENE | ug/kg | 600 U | 5.9 U |
| 106-46-7 | 1,4-DICHLOROBENZENE | ug/kg | 600 U | 5.9 U |
| 591-78-6 | 2-HEXANONE | ug/kg | 3000 U | 30 U |
| 67-64-1 | ACETONE | ug/kg | 3000 U | 30 U |
| 71-43-2 | BENZENE | ug/kg | 600 U | 5.9 U |
| 74-97-5 | BROMOCHLOROMETHANE | ug/kg | 600 U | 5.9 U |
| 75-27-4 | BROMODICHLOROMETHANE | ug/kg | 600 U | 5.9 U |
| 75-25-2 | BROMOFORM | ug/kg | 600 U | 5.9 U |
| 74-83-9 | BROMOMETHANE | ug/kg | 600 U | 5.9 UJ |
| 75-15-0 | CARBON DISULFIDE | ug/kg | 600 U | 5.9 U |
| 56-23-5 | CARBON TETRACHLORIDE | ug/kg | 600 U | 5.9 U |
| 108-90-7 | CHLOROBENZENE | ug/kg | 600 U | 5.9 U |
| 75-00-3 | CHLOROETHANE | ug/kg | 600 U | 5.9 U |
| 67-66-3 | CHLOROFORM | ug/kg | 600 U | 5.9 U |
| 74-87-3 | CHLOROMETHANE | ug/kg | 600 U | 5.9 U |
| 156-59-2 | CIS-1,2-DICHLOROETHYLENE | ug/kg | 600 U | 5.9 U |
| 10061-01-5 | CIS-1,3-DICHLOROPROPENE | ug/kg | 600 U | 5.9 U |
| 110-82-7 | CYCLOHEXANE | ug/kg | 600 U | 5.9 U |
| 124-48-1 | DIBROMOCHLOROMETHANE | ug/kg | 600 U | 5.9 U |
| 75-71-8 | DICHLORODIFLUOROMETHANE | ug/kg | 600 U | 5.9 U |
| 100-41-4 | ETHYLBENZENE | ug/kg | 600 U | 5.9 U |
| 98-82-8 | ISOPROPYLBENZENE (CUMENE) | ug/kg | 600 U | 5.9 U |
| 79-20-9 | METHYL ACETATE | ug/kg | 600 U | 5.9 U |
| 78-93-3 | METHYL ETHYL KETONE (2-BUTANONE) | ug/kg | 3000 U | 30 U |
| 108-10-1 | METHYL ISOBUTYL KETONE | ug/kg | 3000 U | 30 U |
| 108-87-2 | METHYLCYCLOHEXANE | ug/kg | 600 U | 5.9 U |
| 75-09-2 | METHYLENE CHLORIDE | ug/kg | 600 U | 5.9 UJ |
| 95-47-6 | O-XYLENE (1,2-DIMETHYLBENZENE) | ug/kg | 600 U | 5.9 U |
| 100-42-5 | STYRENE | ug/kg | 600 U | 5.9 U |
| 1634-04-4 | TERT-BUTYL METHYL ETHER | ug/kg | 600 U | 5.9 U |
| 127-18-4 | TETRACHLOROETHYLENE(PCE) | ug/kg | 600 U | 5.9 UJ |
| 108-88-3 | TOLUENE | ug/kg | 600 U | 5.9 U |
| 156-60-5 | TRANS-1,2-DICHLOROETHENE | ug/kg | 600 U | 5.9 U |
| 10061-02-6 | TRANS-1,3-DICHLOROPROPENE | ug/kg | 600 U | 5.9 U |
| 79-01-6 | TRICHLOROETHYLENE (TCE) | ug/kg | 600 U | 5.9 U |
| 75-69-4 | TRICHLOROFLUOROMETHANE | ug/kg | 600 U | 5.9 U |
| 75-01-4 | VINYL CHLORIDE | ug/kg | 600 U | 5.9 U |

| Consolidated Edison<br>Farrington Street Remedial Investigation<br>Validated Soil Analytical Data<br>SDG: D1577 | | Location ID:<br>Sample ID:<br>Lab Sample Id:<br>Depth:<br>Source:<br>SDG:<br>Matrix:<br>Sampled:<br>Validated: | SB-36(12-14)<br>SB-36(12-14)<br>D1577-01<br>12 - 14 ft<br>CTECH<br>D1577<br>SOIL<br>2/21/2012<br>4/2/2012 | SB-36(28-30)<br>SB-36(28-30)<br>D1577-04<br>28 - 30 ft<br>CTECH<br>D1577<br>SOIL<br>2/21/2012<br>4/2/2012 |
|---|---|---|---|---|
| CAS NO. | COMPOUND | UNITS: | | |
| | SEMIVOLATILES | | | |
| MEPH3MEPH | 3- AND 4- METHYLPHENOL (TOTAL) | ug/kg | 400 U | 390 U |
| 123-91-1 | 1,4-DIOXANE (P-DIOXANE) | ug/kg | 400 U | 390 U |
| 95-95-4 | 2,4,5-TRICHLOROPHENOL | ug/kg | 400 U | 390 U |
| 88-06-2 | 2,4,6-TRICHLOROPHENOL | ug/kg | 400 U | 390 U |
| 120-83-2 | 2,4-DICHLOROPHENOL | ug/kg | 400 U | 390 U |
| 105-67-9 | 2,4-DIMETHYLPHENOL | ug/kg | 400 U | 390 U |
| 51-28-5 | 2,4-DINITROPHENOL | ug/kg | 400 UJ | 390 UJ |
| 121-14-2 | 2,4-DINITROTOLUENE | ug/kg | 400 U | 390 U |
| 606-20-2 | 2,6-DINITROTOLUENE | ug/kg | 400 U | 390 U |
| 91-58-7 | 2-CHLORONAPHTHALENE | ug/kg | 400 U | 390 U |
| 95-57-8 | 2-CHLOROPHENOL | ug/kg | 400 U | 390 U |
| 91-57-6 | 2-METHYLNAPHTHALENE | ug/kg | 400 U | 390 U |
| 95-48-7 | 2-METHYLPHENOL (O-CRESOL) | ug/kg | 400 U | 390 U |
| 88-74-4 | 2-NITROANILINE | ug/kg | 400 U | 390 U |
| 88-75-5 | 2-NITROPHENOL | ug/kg | 400 U | 390 U |
| 99-09-2 | 3-NITROANILINE | ug/kg | 400 U | 390 U |
| 534-52-1 | 4,6-DINITRO-2-METHYLPHENOL | ug/kg | 400 U | 390 U |
| 101-55-3 | 4-BROMOPHENYL PHENYL ETHER | ug/kg | 400 U | 390 U |
| 59-50-7 | 4-CHLORO-3-METHYLPHENOL | ug/kg | 400 U | 390 U |
| 106-47-8 | 4-CHLOROANILINE | ug/kg | 400 U | 390 U |
| 100-01-6 | 4-NITROANILINE | ug/kg | 400 U | 390 U |
| 100-02-7 | 4-NITROPHENOL | ug/kg | 400 U | 390 U |
| 83-32-9 | ACENAPHTHENE | ug/kg | 400 | 390 U |
| 208-96-8 | ACENAPHTHYLENE | ug/kg | 400 U | 390 U |
| 98-86-2 | ACETOPHENONE | ug/kg | 400 U | 390 U |
| 120-12-7 | ANTHRACENE | ug/kg | 460 | 390 U |
| 1912-24-9 | ATRAZINE | ug/kg | 400 U | 390 U |
| 100-52-7 | BENZALDEHYDE | ug/kg | 400 U | 390 U |
| 56-55-3 | BENZO(A)ANTHRACENE | ug/kg | 310 J | 390 U |
| 50-32-8 | BENZO(A)PYRENE | ug/kg | 400 U | 390 U |
| 205-99-2 | BENZO(B)FLUORANTHENE | ug/kg | 400 U | 390 U |
| 191-24-2 | BENZO(G,H,I)PERYLENE | ug/kg | 400 U | 390 U |
| 207-08-9 | BENZO(K)FLUORANTHENE | ug/kg | 400 U | 390 U |
| 85-68-7 | BENZYL BUTYL PHTHALATE | ug/kg | 400 U | 390 U |
| 92-52-4 | BIPHENYL (DIPHENYL) | ug/kg | 400 U | 390 U |
| 111-91-1 | BIS(2-CHLOROETHOXY) METHANE | ug/kg | 400 U | 390 U |
| 111-44-4 | BIS(2-CHLOROETHYL) ETHER | ug/kg | 400 U | 390 U |
| 108-60-1 | BIS(2-CHLOROISOPROPYL) ETHER | ug/kg | 400 U | 390 U |
| 117-81-7 | BIS(2-ETHYLHEXYL) PHTHALATE | ug/kg | 400 U | 390 U |
| 105-60-2 | CAPROLACTAM | ug/kg | 400 U | 390 U |
| 86-74-8 | CARBAZOLE | ug/kg | 400 U | 390 U |
| 218-01-9 | CHRYSENE | ug/kg | 410 | 390 U |
| 53-70-3 | DIBENZ(A,H)ANTHRACENE | ug/kg | 400 U | 390 U |
| 132-64-9 | DIBENZOFURAN | ug/kg | 180 J | 390 U |
| 84-66-2 | DIETHYL PHTHALATE | ug/kg | 400 U | 390 U |
| 131-11-3 | DIMETHYL PHTHALATE | ug/kg | 400 U | 390 U |
| 84-74-2 | DI-N-BUTYL PHTHALATE | ug/kg | 400 U | 390 U |
| 117-84-0 | DI-N-OCTYLPHTHALATE | ug/kg | 400 U | 390 U |
| 206-44-0 | FLUORANTHENE | ug/kg | 330 J | 390 U |
| 86-73-7 | FLUORENE | ug/kg | 590 | 390 U |
| 87-68-3 | HEXACHLOROBUTADIENE | ug/kg | 400 U | 390 U |
| 77-47-4 | HEXACHLOROCYCLOPENTADIENE | ug/kg | 400 U | 390 U |
| 67-72-1 | HEXACHLOROETHANE | ug/kg | 400 U | 390 U |
| 193-39-5 | INDENO(1,2,3-C,D)PYRENE | ug/kg | 400 U | 390 U |
| 78-59-1 | ISOPHORONE | ug/kg | 400 U | 390 U |
| 91-20-3 | NAPHTHALENE | ug/kg | 400 U | 390 U |
| 98-95-3 | NITROBENZENE | ug/kg | 400 U | 390 U |
| 621-64-7 | N-NITROSODI-N-PROPYLAMINE | ug/kg | 400 U | 390 U |
| 86-30-6 | N-NITROSODIPHENYLAMINE | ug/kg | 400 U | 390 U |
| 87-86-5 | PENTACHLOROPHENOL | ug/kg | 400 U | 390 U |
| 85-01-8 | PHENANTHRENE | ug/kg | 1800 | 390 U |
| 108-95-2 | PHENOL | ug/kg | 400 U | 390 U |
| 129-00-0 | PYRENE | ug/kg | 750 | 390 U |

| Consolidated Edison<br>Farrington Street Remedial Investigation<br>Validated Soil Analytical Data<br>SDG: D1577 | | Location ID:<br>Sample ID:<br>Lab Sample Id:<br>Depth:<br>Source:<br>SDG:<br>Matrix:<br>Sampled:<br>Validated: | SB-36(12-14)<br>SB-36(12-14)<br>D1577-01<br>12 - 14 ft<br>CTECH<br>D1577<br>SOIL<br>2/21/2012<br>4/2/2012 | SB-36(28-30)<br>SB-36(28-30)<br>D1577-04<br>28 - 30 ft<br>CTECH<br>D1577<br>SOIL<br>2/21/2012<br>4/2/2012 |
|---|---|---|---|---|
| CAS NO. | COMPOUND | UNITS: | | |
| | INORGANICS | | | |
| 7429-90-5 | ALUMINUM | mg/kg | 5090 | 2780 |
| 7440-36-0 | ANTIMONY | mg/kg | 3 U | 2.6 U |
| 7440-38-2 | ARSENIC | mg/kg | 1.2 U | 1.04 U |
| 7440-39-3 | BARIUM | mg/kg | 37 | 29.2 |
| 7440-41-7 | BERYLLIUM | mg/kg | 0.23 J | 0.09 J |
| 7440-43-9 | CADMIUM | mg/kg | 0.36 U | 0.31 U |
| 7440-70-2 | CALCIUM | mg/kg | 1090 J | 756 J |
| 7440-47-3 | CHROMIUM, TOTAL | mg/kg | 17.2 J | 10.6 J |
| 7440-48-4 | COBALT | mg/kg | 4.76 | 3.67 |
| 7440-50-8 | COPPER | mg/kg | 20 J | 9.48 J |
| 7439-89-6 | IRON | mg/kg | 16000 J | 10100 J |
| 7439-92-1 | LEAD | mg/kg | 2.8 | 1.5 |
| 7439-95-4 | MAGNESIUM | mg/kg | 1640 | 1160 |
| 7439-96-5 | MANGANESE | mg/kg | 109 | 71.2 |
| 7439-97-6 | MERCURY | mg/kg | 0.012 U | 0.012 J |
| 7440-02-0 | NICKEL | mg/kg | 14.4 | 10.7 |
| 7440-09-7 | POTASSIUM | mg/kg | 1230 | 943 |
| 7782-49-2 | SELENIUM | mg/kg | 1.86 | 1.12 |
| 7440-22-4 | SILVER | mg/kg | 0.6 U | 0.52 U |
| 7440-23-5 | SODIUM | mg/kg | 159 J | 93.5 J |
| 7440-28-0 | THALLIUM | mg/kg | 2.4 U | 2.08 U |
| 7440-62-2 | VANADIUM | mg/kg | 19.1 | 12.9 |
| 7440-66-6 | ZINC | mg/kg | 31.4 | 18.2 |
| 57-12-5 | CYANIDE | mg/kg | 0.195 J | 0.296 U |

| Consolidated Edison<br>Farrington Street Remedial Investigation<br>Validated Soil Analytical Data<br>SDG: D1616 | | Location ID:<br>Sample ID:<br>Lab Sample Id:<br>Depth:<br>Source:<br>SDG:<br>Matrix:<br>Sampled:<br>Validated: | SB-22<br>SB-22(17-19)<br>D1616-06<br>17 - 19 ft<br>CTECH<br>D1616<br>SOIL<br>2/22/2012<br>4/2/2012 | SB-22<br>SB-22(9-11)<br>D1616-05<br>9 - 11 ft<br>CTECH<br>D1616<br>SOIL<br>2/22/2012<br>4/2/2012 | SB-37<br>SB-37(38-40)<br>D1616-01<br>38 - 40 ft<br>CTECH<br>D1616<br>SOIL<br>2/22/2012<br>4/2/2012 | SB-37<br>SB-37(48-50)<br>D1616-03<br>48 - 50 ft<br>CTECH<br>D1616<br>SOIL<br>2/22/2012<br>4/2/2012 | SB-37<br>SB-37A(38-40)<br>D1616-02<br>38 - 40 ft<br>CTECH<br>D1616<br>SOIL<br>2/22/2012<br>4/2/2012 | FIELDQC<br>FB022212<br>D1616-04<br>-<br>CTECH<br>D1616<br>SOIL<br>2/22/2012<br>4/2/2012 |
|---|---|---|---|---|---|---|---|---|
| CAS NO. | COMPOUND | UNITS: | | | | | | ug/L |
| | VOLATILES | | | | | | | |
| 71-55-6 | 1,1,1-TRICHLOROETHANE | ug/kg | 49 UJ | 33000 U | 28000 U | 30 UJ | 29000 U | 5 U |
| 79-34-5 | 1,1,2,2-TETRACHLOROETHANE | ug/kg | 49 UJ | 33000 U | 28000 U | 30 U | 29000 U | 5 U |
| 76-13-1 | 1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE | ug/kg | 49 UJ | 33000 U | 28000 U | 30 U | 29000 U | 5 U |
| 79-00-5 | 1,1,2-TRICHLOROETHANE | ug/kg | 49 UJ | 33000 U | 28000 U | 30 U | 29000 U | 5 U |
| 75-34-3 | 1,1-DICHLOROETHANE | ug/kg | 49 UJ | 33000 U | 28000 U | 30 U | 29000 U | 5 U |
| 75-35-4 | 1,1-DICHLOROETHENE | ug/kg | 49 UJ | 33000 U | 28000 U | 30 U | 29000 U | 5 U |
| 87-61-6 | 1,2,3-TRICHLOROBENZENE | ug/kg | 49 UJ | 33000 U | 28000 U | 30 U | 29000 U | 5 UJ |
| 120-82-1 | 1,2,4-TRICHLOROBENZENE | ug/kg | 49 UJ | 33000 U | 28000 U | 30 U | 29000 U | 5 U |
| 95-63-6 | 1,2,4-TRIMETHYLBENZENE | ug/kg | 11000 | 280000 | 66000 | 30 U | 71000 | 5 U |
| 96-12-8 | 1,2-DIBROMO-3-CHLOROPROPANE | ug/kg | 49 UJ | 33000 U | 28000 U | 30 U | 29000 U | 5 U |
| 106-93-4 | 1,2-DIBROMOETHANE | ug/kg | 49 UJ | 33000 U | 28000 U | 30 U | 29000 U | 5 U |
| 95-50-1 | 1,2-DICHLOROBENZENE | ug/kg | 49 UJ | 33000 U | 28000 U | 30 U | 29000 U | 5 U |
| 107-06-2 | 1,2-DICHLOROETHANE | ug/kg | 49 UJ | 33000 U | 28000 U | 30 UJ | 29000 U | 5 U |
| 78-87-5 | 1,2-DICHLOROPROPANE | ug/kg | 49 UJ | 33000 U | 28000 U | 30 U | 29000 U | 5 U |
| 108-67-8 | 1,3,5-TRIMETHYLBENZENE (MESITYLENE) | ug/kg | 1600 J | 48000 | 23000 J | 30 U | 27000 J | 5 U |
| 541-73-1 | 1,3-DICHLOROBENZENE | ug/kg | 49 UJ | 33000 U | 28000 U | 30 U | 29000 U | 5 U |
| 106-46-7 | 1,4-DICHLOROBENZENE | ug/kg | 49 UJ | 33000 U | 28000 U | 30 U | 29000 U | 5 U |
| 591-78-6 | 2-HEXANONE | ug/kg | 250 UJ | 160000 U | 140000 U | 150 U | 140000 U | 25 U |
| 67-64-1 | ACETONE | ug/kg | 460 J | 160000 U | 140000 U | 150 U | 140000 U | 25 U |
| 71-43-2 | BENZENE | ug/kg | 270 J | 44000 | 12000 J | 30 U | 13000 J | 5 U |
| 74-97-5 | BROMOCHLOROMETHANE | ug/kg | 49 UJ | 33000 U | 28000 U | 30 U | 29000 U | 5 U |
| 75-27-4 | BROMODICHLOROMETHANE | ug/kg | 49 UJ | 33000 U | 28000 U | 30 U | 29000 U | 5 U |
| 75-25-2 | BROMOFORM | ug/kg | 49 UJ | 33000 U | 28000 U | 30 U | 29000 U | 5 UJ |
| 74-83-9 | BROMOMETHANE | ug/kg | 49 UJ | 33000 U | 28000 U | 30 U | 29000 U | 5 UJ |
| 75-15-0 | CARBON DISULFIDE | ug/kg | 70 J | 33000 U | 28000 U | 30 U | 29000 U | 6.9 |
| 56-23-5 | CARBON TETRACHLORIDE | ug/kg | 49 UJ | 33000 U | 28000 U | 30 UJ | 29000 U | 5 U |
| 108-90-7 | CHLOROBENZENE | ug/kg | 49 UJ | 33000 U | 28000 U | 30 U | 29000 U | 5 U |
| 75-00-3 | CHLOROETHANE | ug/kg | 49 UJ | 33000 U | 28000 U | 30 U | 29000 U | 5 U |
| 67-66-3 | CHLOROFORM | ug/kg | 49 UJ | 33000 U | 28000 U | 30 U | 29000 U | 5 U |
| 74-87-3 | CHLOROMETHANE | ug/kg | 49 UJ | 33000 U | 28000 U | 30 U | 29000 U | 5 U |
| 156-59-2 | CIS-1,2-DICHLOROETHYLENE | ug/kg | 49 UJ | 33000 U | 28000 U | 30 U | 29000 U | 5 U |
| 10061-01-5 | CIS-1,3-DICHLOROPROPENE | ug/kg | 49 UJ | 33000 U | 28000 U | 30 U | 29000 U | 5 U |
| 110-82-7 | CYCLOHEXANE | ug/kg | 49 UJ | 33000 U | 28000 U | 30 U | 29000 U | 5 UJ |
| 124-48-1 | DIBROMOCHLOROMETHANE | ug/kg | 49 UJ | 33000 U | 28000 U | 30 U | 29000 U | 5 U |
| 75-71-8 | DICHLORODIFLUOROMETHANE | ug/kg | 49 UJ | 33000 U | 28000 U | 30 UJ | 29000 U | 5 U |
| 100-41-4 | ETHYLBENZENE | ug/kg | 14000 | 310000 | 230000 | 30 U | 270000 | 5 U |
| 98-82-8 | ISOPROPYLBENZENE (CUMENE) | ug/kg | 700 J | 24000 J | 13000 J | 30 U | 15000 J | 5 U |
| XYLMP | M,P-XYLENE (SUM OF ISOMERS) | ug/kg | 2100 J | 110000 | 100000 | 60 U | 110000 | 10 U |
| 79-20-9 | METHYL ACETATE | ug/kg | 49 UJ | 33000 U | 28000 U | 30 U | 29000 U | 5 U |
| 78-93-3 | METHYL ETHYL KETONE (2-BUTANONE) | ug/kg | 250 UJ | 160000 U | 140000 U | 150 U | 140000 U | 25 U |
| 108-10-1 | METHYL ISOBUTYL KETONE | ug/kg | 250 UJ | 160000 U | 140000 U | 150 U | 140000 U | 25 U |
| 108-87-2 | METHYLCYCLOHEXANE | ug/kg | 26 J | 33000 U | 28000 U | 30 U | 29000 U | 5 U |
| 75-09-2 | METHYLENE CHLORIDE | ug/kg | 49 UJ | 33000 U | 28000 U | 30 U | 29000 U | 3.3 J |
| 103-65-1 | N-PROPYLBENZENE | ug/kg | 290 J | 35000 | 28000 U | 30 U | 29000 U | 5 U |
| 95-47-6 | O-XYLENE (1,2-DIMETHYLBENZENE) | ug/kg | 1700 J | 33000 U | 63000 | 30 U | 66000 | 5 U |
| 135-98-8 | SEC-BUTYLBENZENE | ug/kg | 32 J | 33000 U | 28000 U | 30 U | 29000 U | 5 U |
| 100-42-5 | STYRENE | ug/kg | 49 UJ | 33000 U | 28000 U | 30 U | 29000 U | 5 U |
| 98-06-6 | T-BUTYLBENZENE | ug/kg | 49 UJ | 33000 U | 28000 U | 30 U | 29000 U | 5 U |
| 1634-04-4 | TERT-BUTYL METHYL ETHER | ug/kg | 49 UJ | 33000 U | 28000 U | 30 U | 29000 U | 5 U |
| 127-18-4 | TETRACHLOROETHYLENE(PCE) | ug/kg | 49 UJ | 33000 U | 28000 U | 30 U | 29000 U | 5 U |
| 108-88-3 | TOLUENE | ug/kg | 49 UJ | 33000 U | 28000 U | 30 U | 29000 U | 5 U |
| 156-60-5 | TRANS-1,2-DICHLOROETHENE | ug/kg | 49 UJ | 33000 U | 28000 U | 30 U | 29000 U | 5 U |
| 10061-02-6 | TRANS-1,3-DICHLOROPROPENE | ug/kg | 49 UJ | 33000 U | 28000 U | 30 U | 29000 U | 5 U |
| 79-01-6 | TRICHLOROETHYLENE (TCE) | ug/kg | 49 UJ | 33000 U | 28000 U | 30 U | 29000 U | 5 U |
| 75-69-4 | TRICHLOROFLUOROMETHANE | ug/kg | 49 UJ | 33000 U | 28000 U | 30 UJ | 29000 U | 5 U |
| 75-01-4 | VINYL CHLORIDE | ug/kg | 49 UJ | 33000 U | 28000 U | 30 U | 29000 U | 5 U |

| Consolidated Edison<br>Farrington Street Remedial Investigation<br>Validated Soil Analytical Data<br>SDG: D1616 | | Location ID:<br>Sample ID:<br>Lab Sample Id:<br>Depth:<br>Source:<br>SDG:<br>Matrix:<br>Sampled:<br>Validated: | SB-22<br>SB-22(17-19)<br>D1616-06<br>17 - 19 ft<br>CTECH<br>D1616<br>SOIL<br>2/22/2012<br>4/2/2012 | SB-22<br>SB-22(9-11)<br>D1616-05<br>9 - 11 ft<br>CTECH<br>D1616<br>SOIL<br>2/22/2012<br>4/2/2012 | SB-37<br>SB-37(38-40)<br>D1616-01<br>38 - 40 ft<br>CTECH<br>D1616<br>SOIL<br>2/22/2012<br>4/2/2012 | SB-37<br>SB-37(48-50)<br>D1616-03<br>48 - 50 ft<br>CTECH<br>D1616<br>SOIL<br>2/22/2012<br>4/2/2012 | SB-37<br>SB-37A(38-40)<br>D1616-02<br>38 - 40 ft<br>CTECH<br>D1616<br>SOIL<br>2/22/2012<br>4/2/2012 | FIELDQC<br>FB022212<br>D1616-04<br>-<br>CTECH<br>D1616<br>SOIL<br>2/22/2012<br>4/2/2012 |
|---|---|---|---|---|---|---|---|---|
| CAS NO. | COMPOUND | UNITS: | | | | | | ug/L |
| | SEMIVOLATILES | | | | | | | |
| 123-91-1 | 1,4-DIOXANE (P-DIOXANE) | ug/kg | 1900 U | 6600 U | 5700 U | 400 U | 5700 U | 10 UJ |
| 95-95-4 | 2,4,5-TRICHLOROPHENOL | ug/kg | 1900 U | 6600 U | 5700 U | 400 U | 5700 U | 10 UJ |
| 88-06-2 | 2,4,6-TRICHLOROPHENOL | ug/kg | 1900 U | 6600 U | 5700 U | 400 U | 5700 U | 10 U |
| 120-83-2 | 2,4-DICHLOROPHENOL | ug/kg | 1900 U | 6600 U | 5700 U | 400 U | 5700 U | 10 U |
| 105-67-9 | 2,4-DIMETHYLPHENOL | ug/kg | 1900 U | 6600 U | 5700 U | 400 U | 5700 U | 10 U |
| 51-28-5 | 2,4-DINITROPHENOL | ug/kg | 1900 UJ | 6600 UJ | 5700 UJ | R | 5700 UJ | 10 UJ |
| 121-14-2 | 2,4-DINITROTOLUENE | ug/kg | 1900 U | 6600 U | 5700 U | 400 U | 5700 U | 10 UJ |
| 606-20-2 | 2,6-DINITROTOLUENE | ug/kg | 1900 U | 6600 U | 5700 U | 400 U | 5700 U | 10 UJ |
| 91-58-7 | 2-CHLORONAPHTHALENE | ug/kg | 1900 U | 6600 U | 5700 U | 400 U | 5700 U | 10 U |
| 95-57-8 | 2-CHLOROPHENOL | ug/kg | 1900 U | 6600 U | 5700 U | 400 U | 5700 U | 10 U |
| 91-57-6 | 2-METHYLNAPHTHALENE | ug/kg | 120000 | 350000 | 300000 | 320 J | 370000 | 10 U |
| 95-48-7 | 2-METHYLPHENOL (O-CRESOL) | ug/kg | 1900 U | 6600 U | 5700 U | 400 U | 5700 U | 10 U |
| 88-74-4 | 2-NITROANILINE | ug/kg | 1900 U | 6600 U | 5700 U | 400 U | 5700 U | 10 UJ |
| 88-75-5 | 2-NITROPHENOL | ug/kg | 1900 U | 6600 U | 5700 U | 400 U | 5700 U | 10 U |
| MEPH3MEPH | 3- AND 4- METHYLPHENOL (TOTAL) | ug/kg | 1900 U | 6600 U | 5700 U | 400 U | 5700 U | 10 U |
| 99-09-2 | 3-NITROANILINE | ug/kg | 1900 UJ | 6600 UJ | 5700 UJ | 400 UJ | 5700 UJ | 10 U |
| 534-52-1 | 4,6-DINITRO-2-METHYLPHENOL | ug/kg | 1900 U | 6600 U | 5700 U | 400 U | 5700 U | 10 U |
| 101-55-3 | 4-BROMOPHENYL PHENYL ETHER | ug/kg | 1900 U | 6600 U | 5700 U | 400 U | 5700 U | 10 UJ |
| 59-50-7 | 4-CHLORO-3-METHYLPHENOL | ug/kg | 1900 U | 6600 U | 5700 U | 400 U | 5700 U | 10 U |
| 106-47-8 | 4-CHLOROANILINE | ug/kg | 1900 UJ | 6600 UJ | 5700 UJ | 400 UJ | 5700 UJ | 10 U |
| 100-01-6 | 4-NITROANILINE | ug/kg | 1900 U | 6600 U | 5700 U | 400 U | 5700 U | 10 UJ |
| 100-02-7 | 4-NITROPHENOL | ug/kg | 1900 U | 6600 U | 5700 U | 400 U | 5700 U | 10 U |
| 83-32-9 | ACENAPHTHENE | ug/kg | 95000 | 74000 | 200000 | 250 J | 220000 | 10 U |
| 208-96-8 | ACENAPHTHYLENE | ug/kg | 20000 | 35000 | 21000 | 400 U | 21000 | 10 U |
| 98-86-2 | ACETOPHENONE | ug/kg | 1900 U | 6600 U | 5700 U | 400 U | 5700 U | 10 UJ |
| 120-12-7 | ANTHRACENE | ug/kg | 97000 | 120000 | 90000 | 400 U | 100000 | 10 UJ |
| 1912-24-9 | ATRAZINE | ug/kg | 1900 U | 6600 U | 5700 U | 400 U | 5700 U | 10 UJ |
| 100-52-7 | BENZALDEHYDE | ug/kg | 1900 U | 6600 U | 5700 U | 400 U | 5700 U | 10 U |
| 56-55-3 | BENZO(A)ANTHRACENE | ug/kg | 52000 | 62000 | 72000 | 400 U | 80000 | 10 UJ |
| 50-32-8 | BENZO(A)PYRENE | ug/kg | 38000 | 38000 | 48000 | 400 U | 55000 | 10 UJ |
| 205-99-2 | BENZO(B)FLUORANTHENE | ug/kg | 32000 | 32000 | 39000 | 400 U | 39000 | 10 U |
| 191-24-2 | BENZO(G,H,I)PERYLENE | ug/kg | 16000 | 17000 | 23000 | 400 U | 24000 | 10 UJ |
| 207-08-9 | BENZO(K)FLUORANTHENE | ug/kg | 9400 | 10000 | 13000 | 400 U | 14000 | 10 UJ |
| 85-68-7 | BENZYL BUTYL PHTHALATE | ug/kg | 1900 U | 6600 U | 5700 U | 400 U | 5700 U | 10 UJ |
| 92-52-4 | BIPHENYL (DIPHENYL) | ug/kg | 21000 | 33000 | 42000 | 400 U | 44000 | 10 UJ |
| 111-91-1 | BIS(2-CHLOROETHOXY) METHANE | ug/kg | 1900 U | 6600 U | 5700 U | 400 U | 5700 U | 10 U |
| 111-44-4 | BIS(2-CHLOROETHYL) ETHER | ug/kg | 1900 U | 6600 U | 5700 U | 400 U | 5700 U | 10 U |
| 108-60-1 | BIS(2-CHLOROISOPROPYL) ETHER | ug/kg | 1900 U | 6600 U | 5700 U | 400 U | 5700 U | 10 U |
| 117-81-7 | BIS(2-ETHYLHEXYL) PHTHALATE | ug/kg | 1900 U | 6600 U | 5700 U | 400 U | 5700 U | 10 UJ |
| 105-60-2 | CAPROLACTAM | ug/kg | 1900 U | 6600 U | 5700 U | 400 U | 5700 U | 10 U |
| 86-74-8 | CARBAZOLE | ug/kg | 1600 J | 3000 J | 5700 U | 400 U | 5700 U | 10 UJ |
| 218-01-9 | CHRYSENE | ug/kg | 46000 | 59000 | 66000 | 400 U | 72000 | 10 UJ |
| 53-70-3 | DIBENZ(A,H)ANTHRACENE | ug/kg | 3100 | 3800 J | 5300 J | 400 U | 4900 J | 10 U |
| 132-64-9 | DIBENZOFURAN | ug/kg | 5700 | 13000 | 8800 | 400 U | 9200 | 10 UJ |
| 84-66-2 | DIETHYL PHTHALATE | ug/kg | 1900 U | 6600 U | 5700 U | 400 U | 5700 U | 10 UJ |
| 131-11-3 | DIMETHYL PHTHALATE | ug/kg | 1900 U | 6600 U | 5700 U | 400 U | 5700 U | 10 U |
| 84-74-2 | DI-N-BUTYL PHTHALATE | ug/kg | 1900 U | 6600 U | 5700 U | 400 U | 5700 U | 10 UJ |
| 117-84-0 | DI-N-OCTYLPHTHALATE | ug/kg | 1900 U | 6600 U | 5700 U | 400 U | 5700 U | 10 UJ |
| 206-44-0 | FLUORANTHENE | ug/kg | 110000 | 110000 | 110000 | 400 U | 120000 | 10 UJ |
| 86-73-7 | FLUORENE | ug/kg | 71000 | 120000 | 85000 | 400 U | 97000 | 10 UJ |
| 87-68-3 | HEXACHLOROBUTADIENE | ug/kg | 1900 U | 6600 U | 5700 U | 400 U | 5700 U | 10 U |
| 77-47-4 | HEXACHLOROCYCLOPENTADIENE | ug/kg | 1900 U | 6600 U | 5700 U | 400 U | 5700 U | 10 U |
| 67-72-1 | HEXACHLOROETHANE | ug/kg | 1900 U | 6600 U | 5700 U | 400 U | 5700 U | 10 U |
| 193-39-5 | INDENO(1,2,3-C,D)PYRENE | ug/kg | 13000 | 14000 | 18000 | 400 U | 20000 | 10 U |
| 78-59-1 | ISOPHORONE | ug/kg | 1900 U | 6600 U | 5700 U | 400 U | 5700 U | 10 U |
| 91-20-3 | NAPHTHALENE | ug/kg | 250000 | 1000000 | 1100000 | 1400 | 1300000 | 10 U |
| 98-95-3 | NITROBENZENE | ug/kg | 1900 U | 6600 U | 5700 U | 400 U | 5700 U | 10 U |
| 621-64-7 | N-NITROSODI-N-PROPYLAMINE | ug/kg | 1900 U | 6600 U | 5700 U | 400 U | 5700 U | 10 U |
| 86-30-6 | N-NITROSODIPHENYLAMINE | ug/kg | 1900 U | 6600 U | 5700 U | 400 U | 5700 U | 10 UJ |
| 87-86-5 | PENTACHLOROPHENOL | ug/kg | 1900 U | 6600 U | 5700 U | 400 U | 5700 U | 10 U |
| 85-01-8 | PHENANTHRENE | ug/kg | 320000 | 440000 | 310000 | 420 | 360000 | 10 U |
| 108-95-2 | PHENOL | ug/kg | 1900 U | 6600 U | 5700 U | 400 U | 5700 U | 10 U |
| 129-00-0 | PYRENE | ug/kg | 180000 | 190000 | 170000 | 240 J | 180000 | 10 UJ |

| Consolidated Edison<br>Farrington Street Remedial Investigation<br>Validated Soil Analytical Data<br>SDG: D1616 | | Location ID:<br>Sample ID:<br>Lab Sample Id:<br>Depth:<br>Source:<br>SDG:<br>Matrix:<br>Sampled:<br>Validated: | SB-22<br>SB-22(17-19)<br>D1616-06<br>17 - 19 ft<br>CTECH<br>D1616<br>SOIL<br>2/22/2012<br>4/2/2012 | SB-22<br>SB-22(9-11)<br>D1616-05<br>9 - 11 ft<br>CTECH<br>D1616<br>SOIL<br>2/22/2012<br>4/2/2012 | SB-37<br>SB-37(38-40)<br>D1616-01<br>38 - 40 ft<br>CTECH<br>D1616<br>SOIL<br>2/22/2012<br>4/2/2012 | SB-37<br>SB-37(48-50)<br>D1616-03<br>48 - 50 ft<br>CTECH<br>D1616<br>SOIL<br>2/22/2012<br>4/2/2012 | SB-37<br>SB-37A(38-40)<br>D1616-02<br>38 - 40 ft<br>CTECH<br>D1616<br>SOIL<br>2/22/2012<br>4/2/2012 | FIELDQC<br>FB022212<br>D1616-04<br>-<br>CTECH<br>D1616<br>SOIL<br>2/22/2012<br>4/2/2012 |
|---|---|---|---|---|---|---|---|---|
| CAS NO. | COMPOUND | UNITS: | | | | | | ug/L |
| | INORGANICS | | | | | | | |
| 7429-90-5 | ALUMINUM | mg/kg | 6380 | 2430 | 3110 | 4470 | 2960 | 42.8 J |
| 7440-36-0 | ANTIMONY | mg/kg | 0.96 J | 2.9 | 2.57 U | 3.05 U | 2.28 U | 25 U |
| 7440-38-2 | ARSENIC | mg/kg | 10.5 | 10.6 | 1.27 | 1.88 | 1.18 | 10 U |
| 7440-39-3 | BARIUM | mg/kg | 47.9 | 45.8 | 28.5 | 32.8 | 26.5 | 7.48 J |
| 7440-41-7 | BERYLLIUM | mg/kg | 0.274 J | 0.344 U | 0.308 U | 0.151 J | 0.274 U | 3 U |
| 7440-43-9 | CADMIUM | mg/kg | 1.35 | 1.42 | 0.38 | 0.616 | 0.373 | 3 U |
| 7440-70-2 | CALCIUM | mg/kg | 9860 J | 13400 J | 640 J | 636 J | 636 J | 1230 |
| 7440-47-3 | CHROMIUM, TOTAL | mg/kg | 16.3 J | 9.65 J | 14 J | 17.8 J | 12.8 J | 5 U |
| 7440-48-4 | COBALT | mg/kg | 6.81 | 5.67 | 3.81 | 6.45 | 3.51 | 15 U |
| 7440-50-8 | COPPER | mg/kg | 54.4 | 86.1 | 8.33 | 9.28 | 8.56 | 10 U |
| 7439-89-6 | IRON | mg/kg | 29000 | 32900 | 10300 | 16600 | 10200 | 328 |
| 7439-92-1 | LEAD | mg/kg | 145 | 598 | 1.32 | 1.92 | 1.1 | 6 U |
| 7439-95-4 | MAGNESIUM | mg/kg | 3280 | 1670 | 1270 | 1640 | 1290 | 122 J |
| 7439-96-5 | MANGANESE | mg/kg | 214 | 128 | 92.8 | 179 | 84.7 | 5.09 J |
| 7439-97-6 | MERCURY | mg/kg | 2.12 | 0.188 | 0.011 U | 0.012 U | 0.011 U | 0.2 U |
| 7440-02-0 | NICKEL | mg/kg | 15.2 | 15.3 | 9.03 | 11.4 | 9.48 | 20 U |
| 7440-09-7 | POTASSIUM | mg/kg | 1360 | 354 U | 937 | 1190 | 917 | 1840 |
| 7782-49-2 | SELENIUM | mg/kg | 2.89 | 2.76 | 0.968 J | 1.8 | 1.04 | 10 U |
| 7440-22-4 | SILVER | mg/kg | 1.4 | 1.65 | 0.477 J | 0.792 | 0.476 | 5 U |
| 7440-23-5 | SODIUM | mg/kg | 2200 | 387 U | 364 U | 122 U | 358 U | 1410 |
| 7440-28-0 | THALLIUM | mg/kg | 2.54 U | 2.3 U | 2.05 U | 2.44 U | 1.83 U | 20 U |
| 7440-62-2 | VANADIUM | mg/kg | 21.6 | 14.3 | 9.97 | 18.2 | 9.27 | 20 U |
| 7440-66-6 | ZINC | mg/kg | 125 | 72.9 | 15.9 U | 22.5 | 15.2 U | 37.2 |
| 57-12-5 | CYANIDE | mg/kg | 33 | 7.2 | 0.287 U | 0.305 U | 0.287 U | 5 U |

# ATTACHMENT A-2

# VALIDATED LABORATORY DATA FOR 2012 SAMPLES

| Consolidated Edison<br>Farrington Street Remedial Investigation<br>2012-Validated Air Analytical Data<br>SDG: 1202444 | | Location ID:<br>Sample ID:<br>Lab Sample Id:<br>Source:<br>SDG:<br>Matrix:<br>Sampled:<br>Validated: | SG-3<br>SG-3<br>1202444-01A<br>PARSONS<br>1202444<br>AIR<br>2/20/2012<br>4/9/2012 | SG-4<br>SG-4<br>1202444-02A<br>PARSONS<br>1202444<br>AIR<br>2/20/2012<br>4/9/2012 | SG-5<br>SG-5<br>1202444-03A<br>PARSONS<br>1202444<br>AIR<br>2/20/2012<br>4/9/2012 |
|---|---|---|---|---|---|
| CAS NO. | COMPOUND | UNITS: | | | |
| 106-99-0 | 1,3-BUTADIENE | ug/m3 | 0.35 U | 32 | 36 U |
| 71-55-6 | 1,1,1-TRICHLOROETHANE | ug/m3 | 0.86 U | 19 U | 88 U |
| 79-34-5 | 1,1,2,2-TETRACHLOROETHANE | ug/m3 | 1.1 U | 23 U | 110 U |
| 76-13-1 | 1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE | ug/m3 | 1.2 U | 26 U | 120 U |
| 79-00-5 | 1,1,2-TRICHLOROETHANE | ug/m3 | 0.86 U | 19 U | 88 U |
| 75-34-3 | 1,1-DICHLOROETHANE | ug/m3 | 0.64 U | 14 U | 65 U |
| 75-35-4 | 1,1-DICHLOROETHENE | ug/m3 | 0.63 U | 14 U | 64 U |
| 120-82-1 | 1,2,4-TRICHLOROBENZENE | ug/m3 | 5.9 U | 130 U | 600 U |
| 95-63-6 | 1,2,4-TRIMETHYLBENZENE | ug/m3 | 0.78 U | 17 U | 79 U |
| 106-93-4 | 1,2-DIBROMOETHANE | ug/m3 | 1.2 U | 26 U | 120 U |
| 95-50-1 | 1,2-DICHLOROBENZENE | ug/m3 | 0.95 U | 20 U | 97 U |
| 107-06-2 | 1,2-DICHLOROETHANE | ug/m3 | 0.64 U | 14 U | 65 U |
| 78-87-5 | 1,2-DICHLOROPROPANE | ug/m3 | 0.73 U | 16 U | 74 U |
| 108-67-8 | 1,3,5-TRIMETHYLBENZENE | ug/m3 | 0.78 U | 17 U | 79 U |
| 541-73-1 | 1,3-DICHLOROBENZENE | ug/m3 | 0.95 U | 20 U | 97 U |
| 106-46-7 | 1,4-DICHLOROBENZENE | ug/m3 | 0.95 U | 20 U | 97 U |
| 123-91-1 | 1,4-DIOXANE (P-DIOXANE) | ug/m3 | 0.57 U | 12 U | 58 U |
| 540-84-1 | 2,2,4-TRIMETHYLPENTANE | ug/m3 | 3.7 U | 80 U | 380 U |
| 565-59-3 | 2,3-DIMETHYLPENTANE | ug/m3 | 3.2 U | 130 | 7500 J |
| 591-78-6 | 2-HEXANONE | ug/m3 | 3.2 U | 70 U | 330 U |
| 107-83-5 | 2-METHYLPENTANE | ug/m3 | 2.8 U | 590 | 14000 J |
| 67-63-0 | 2-PROPANOL | ug/m3 | 1.9 U | 42 U | 200 U |
| 622-96-8 | 4-ETHYLTOLUENE | ug/m3 | 0.78 U | 17 U | 79 U |
| 67-64-1 | ACETONE | ug/m3 | 12 | 250 | 2600 J |
| 107-05-1 | ALLYL CHLORIDE | ug/m3 | 2.5 U | 54 U | 250 U |
| 100-44-7 | ALPHA-CHLOROTOLUENE | ug/m3 | 0.82 U | 18 U | 83 U |
| 71-43-2 | BENZENE | ug/m3 | 0.65 | 740 | 90 J |
| 75-27-4 | BROMODICHLOROMETHANE | ug/m3 | 1 U | 23 U | 110 U |
| 75-25-2 | BROMOFORM | ug/m3 | 1.6 U | 35 U | 170 U |
| 74-83-9 | BROMOMETHANE | ug/m3 | 0.61 U | 13 U | 62 U |
| 75-15-0 | CARBON DISULFIDE | ug/m3 | 2.5 U | 320 | 250 U |
| 56-23-5 | CARBON TETRACHLORIDE | ug/m3 | 0.99 UJ | 22 UJ | 100 UJ |
| 108-90-7 | CHLOROBENZENE | ug/m3 | 0.73 U | 16 U | 74 U |
| 75-00-3 | CHLOROETHANE | ug/m3 | 2.1 U | 45 U | 210 U |
| 67-66-3 | CHLOROFORM | ug/m3 | 0.77 U | 17 U | 79 U |
| 74-87-3 | CHLOROMETHANE | ug/m3 | 0.9 | 7.1 U | 69 J |
| 156-59-2 | CIS-1,2-DICHLOROETHYLENE | ug/m3 | 0.63 U | 14 U | 64 U |
| 10061-01-5 | CIS-1,3-DICHLOROPROPENE | ug/m3 | 0.72 U | 16 U | 73 U |
| 110-82-7 | CYCLOHEXANE | ug/m3 | 0.54 U | 140 | 3900 J |
| 124-48-1 | DIBROMOCHLOROMETHANE | ug/m3 | 1.3 U | 29 U | 140 U |
| 75-71-8 | DICHLORODIFLUOROMETHANE | ug/m3 | 2.4 | 17 U | 160 J |
| 64-17-5 | ETHANOL | ug/m3 | 48 | 55 | 470 J |
| 100-41-4 | ETHYLBENZENE | ug/m3 | 0.69 U | 2600 | 70 U |
| 76-14-2 | FREON 114 | ug/m3 | 1.1 U | 24 U | 110 U |
| 142-82-5 | HEPTANE | ug/m3 | 0.65 U | 130 | 66 U |
| 87-68-3 | HEXACHLOROBUTADIENE | ug/m3 | 8.4 U | 180 U | 860 U |
| 496-11-7 | INDAN | ug/m3 | 3.8 U | 83 U | 390 U |
| 95-13-6 | INDENE | ug/m3 | 3.8 U | 81 U | 380 U |
| 78-78-4 | ISOPENTANE | ug/m3 | 3.7 | 570 | 12000 J |
| 98-82-8 | ISOPROPYLBENZENE (CUMENE) | ug/m3 | 0.78 U | 54 | 79 U |
| 179601-23-1 | M,P-XYLENE | ug/m3 | 0.69 U | 47 | 73 J |
| 78-93-3 | METHYL ETHYL KETONE (2-BUTANONE) | ug/m3 | 2.3 U | 50 U | 720 J |
| 108-10-1 | METHYL ISOBUTYL KETONE | ug/m3 | 0.65 U | 14 U | 66 U |
| 75-09-2 | METHYLENE CHLORIDE | ug/m3 | 1.1 UJ | 24 UJ | 1900 J |
| 91-20-3 | NAPHTHALENE | ug/m3 | 4.1 U | 90 U | 420 U |
| 110-54-3 | N-HEXANE | ug/m3 | 0.56 U | 510 | 980 J |
| 103-65-1 | N-PROPYLBENZENE | ug/m3 | 0.78 U | 17 U | 79 U |
| 95-47-6 | O-XYLENE (1,2-DIMETHYLBENZENE) | ug/m3 | 0.69 U | 15 U | 70 U |
| 100-42-5 | STYRENE | ug/m3 | 0.67 U | 14 U | 68 U |
| 1634-04-4 | TERT-BUTYL METHYL ETHER | ug/m3 | 0.57 U | 12 U | 58 U |
| 127-18-4 | TETRACHLOROETHYLENE(PCE) | ug/m3 | 1.1 U | 23 U | 110 U |
| 109-99-9 | TETRAHYDROFURAN | ug/m3 | 2.3 U | 50 U | 240 U |
| 110-02-1 | THIOPHENE | ug/m3 | 2.7 U | 59 U | 280 U |
| 108-88-3 | TOLUENE | ug/m3 | 0.94 | 240 | 96 J |
| 156-60-5 | TRANS-1,2-DICHLOROETHENE | ug/m3 | 0.63 U | 14 U | 64 U |
| 10061-02-6 | TRANS-1,3-DICHLOROPROPENE | ug/m3 | 0.72 U | 16 U | 73 U |
| 79-01-6 | TRICHLOROETHYLENE (TCE) | ug/m3 | 0.85 U | 18 U | 86 U |
| 75-69-4 | TRICHLOROFLUOROMETHANE | ug/m3 | 1.2 | 19 U | 90 U |
| 75-01-4 | VINYL CHLORIDE | ug/m3 | 0.4 U | 8.7 U | 41 U |

| Consolidated Edison<br>Farrington Street Remedial Investigation<br>Validated Soil Analytical Data<br>SDG: D1577 | | Location ID:<br>Sample ID:<br>Lab Sample Id:<br>Depth:<br>Source:<br>SDG:<br>Matrix:<br>Sampled:<br>Validated: | SB-36(12-14)<br>SB-36(12-14)<br>D1577-01<br>12 - 14 ft<br>CTECH<br>D1577<br>SOIL<br>2/21/2012<br>4/2/2012 | SB-36(28-30)<br>SB-36(28-30)<br>D1577-04<br>28 - 30 ft<br>CTECH<br>D1577<br>SOIL<br>2/21/2012<br>4/2/2012 |
|---|---|---|---|---|
| CAS NO. | COMPOUND | UNITS: | | |
| | VOLATILES | | | |
| 103-65-1 | N-PROPYLBENZENE | ug/kg | 600 U | 5.9 U |
| 108-67-8 | 1,3,5-TRIMETHYLBENZENE (MESITYLENE) | ug/kg | 600 U | 5.9 U |
| 135-98-8 | SEC-BUTYLBENZENE | ug/kg | 600 U | 5.9 U |
| 87-61-6 | 1,2,3-TRICHLOROBENZENE | ug/kg | 600 U | 5.9 U |
| 95-63-6 | 1,2,4-TRIMETHYLBENZENE | ug/kg | 600 U | 5.9 U |
| 98-06-6 | T-BUTYLBENZENE | ug/kg | 600 U | 5.9 U |
| XYLMP | M,P-XYLENE (SUM OF ISOMERS) | ug/kg | 1200 U | 12 U |
| 71-55-6 | 1,1,1-TRICHLOROETHANE | ug/kg | 600 U | 5.9 U |
| 79-34-5 | 1,1,2,2-TETRACHLOROETHANE | ug/kg | 600 U | 5.9 U |
| 76-13-1 | 1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE | ug/kg | 600 U | 5.9 U |
| 79-00-5 | 1,1,2-TRICHLOROETHANE | ug/kg | 600 U | 5.9 U |
| 75-34-3 | 1,1-DICHLOROETHANE | ug/kg | 600 U | 5.9 U |
| 75-35-4 | 1,1-DICHLOROETHENE | ug/kg | 600 U | 5.9 U |
| 120-82-1 | 1,2,4-TRICHLOROBENZENE | ug/kg | 600 U | 5.9 U |
| 96-12-8 | 1,2-DIBROMO-3-CHLOROPROPANE | ug/kg | 600 U | 5.9 UJ |
| 106-93-4 | 1,2-DIBROMOETHANE | ug/kg | 600 U | 5.9 U |
| 95-50-1 | 1,2-DICHLOROBENZENE | ug/kg | 600 U | 5.9 U |
| 107-06-2 | 1,2-DICHLOROETHANE | ug/kg | 600 U | 5.9 U |
| 78-87-5 | 1,2-DICHLOROPROPANE | ug/kg | 600 U | 5.9 U |
| 541-73-1 | 1,3-DICHLOROBENZENE | ug/kg | 600 U | 5.9 U |
| 106-46-7 | 1,4-DICHLOROBENZENE | ug/kg | 600 U | 5.9 U |
| 591-78-6 | 2-HEXANONE | ug/kg | 3000 U | 30 U |
| 67-64-1 | ACETONE | ug/kg | 3000 U | 30 U |
| 71-43-2 | BENZENE | ug/kg | 600 U | 5.9 U |
| 74-97-5 | BROMOCHLOROMETHANE | ug/kg | 600 U | 5.9 U |
| 75-27-4 | BROMODICHLOROMETHANE | ug/kg | 600 U | 5.9 U |
| 75-25-2 | BROMOFORM | ug/kg | 600 U | 5.9 U |
| 74-83-9 | BROMOMETHANE | ug/kg | 600 U | 5.9 UJ |
| 75-15-0 | CARBON DISULFIDE | ug/kg | 600 U | 5.9 U |
| 56-23-5 | CARBON TETRACHLORIDE | ug/kg | 600 U | 5.9 U |
| 108-90-7 | CHLOROBENZENE | ug/kg | 600 U | 5.9 U |
| 75-00-3 | CHLOROETHANE | ug/kg | 600 U | 5.9 U |
| 67-66-3 | CHLOROFORM | ug/kg | 600 U | 5.9 U |
| 74-87-3 | CHLOROMETHANE | ug/kg | 600 U | 5.9 U |
| 156-59-2 | CIS-1,2-DICHLOROETHYLENE | ug/kg | 600 U | 5.9 U |
| 10061-01-5 | CIS-1,3-DICHLOROPROPENE | ug/kg | 600 U | 5.9 U |
| 110-82-7 | CYCLOHEXANE | ug/kg | 600 U | 5.9 U |
| 124-48-1 | DIBROMOCHLOROMETHANE | ug/kg | 600 U | 5.9 U |
| 75-71-8 | DICHLORODIFLUOROMETHANE | ug/kg | 600 U | 5.9 U |
| 100-41-4 | ETHYLBENZENE | ug/kg | 600 U | 5.9 U |
| 98-82-8 | ISOPROPYLBENZENE (CUMENE) | ug/kg | 600 U | 5.9 U |
| 79-20-9 | METHYL ACETATE | ug/kg | 600 U | 5.9 U |
| 78-93-3 | METHYL ETHYL KETONE (2-BUTANONE) | ug/kg | 3000 U | 30 U |
| 108-10-1 | METHYL ISOBUTYL KETONE | ug/kg | 3000 U | 30 U |
| 108-87-2 | METHYLCYCLOHEXANE | ug/kg | 600 U | 5.9 U |
| 75-09-2 | METHYLENE CHLORIDE | ug/kg | 600 U | 5.9 UJ |
| 95-47-6 | O-XYLENE (1,2-DIMETHYLBENZENE) | ug/kg | 600 U | 5.9 U |
| 100-42-5 | STYRENE | ug/kg | 600 U | 5.9 U |
| 1634-04-4 | TERT-BUTYL METHYL ETHER | ug/kg | 600 U | 5.9 U |
| 127-18-4 | TETRACHLOROETHYLENE(PCE) | ug/kg | 600 U | 5.9 UJ |
| 108-88-3 | TOLUENE | ug/kg | 600 U | 5.9 U |
| 156-60-5 | TRANS-1,2-DICHLOROETHENE | ug/kg | 600 U | 5.9 U |
| 10061-02-6 | TRANS-1,3-DICHLOROPROPENE | ug/kg | 600 U | 5.9 U |
| 79-01-6 | TRICHLOROETHYLENE (TCE) | ug/kg | 600 U | 5.9 U |
| 75-69-4 | TRICHLOROFLUOROMETHANE | ug/kg | 600 U | 5.9 U |
| 75-01-4 | VINYL CHLORIDE | ug/kg | 600 U | 5.9 U |

| Consolidated Edison<br>Farrington Street Remedial Investigation<br>Validated Soil Analytical Data<br>SDG: D1577 | | Location ID:<br>Sample ID:<br>Lab Sample Id:<br>Depth:<br>Source:<br>SDG:<br>Matrix:<br>Sampled:<br>Validated: | SB-36(12-14)<br>SB-36(12-14)<br>D1577-01<br>12 - 14 ft<br>CTECH<br>D1577<br>SOIL<br>2/21/2012<br>4/2/2012 | SB-36(28-30)<br>SB-36(28-30)<br>D1577-04<br>28 - 30 ft<br>CTECH<br>D1577<br>SOIL<br>2/21/2012<br>4/2/2012 |
|---|---|---|---|---|
| CAS NO. | COMPOUND | UNITS: | | |
| | SEMIVOLATILES | | | |
| MEPH3MEPH | 3- AND 4- METHYLPHENOL (TOTAL) | ug/kg | 400 U | 390 U |
| 123-91-1 | 1,4-DIOXANE (P-DIOXANE) | ug/kg | 400 U | 390 U |
| 95-95-4 | 2,4,5-TRICHLOROPHENOL | ug/kg | 400 U | 390 U |
| 88-06-2 | 2,4,6-TRICHLOROPHENOL | ug/kg | 400 U | 390 U |
| 120-83-2 | 2,4-DICHLOROPHENOL | ug/kg | 400 U | 390 U |
| 105-67-9 | 2,4-DIMETHYLPHENOL | ug/kg | 400 U | 390 U |
| 51-28-5 | 2,4-DINITROPHENOL | ug/kg | 400 UJ | 390 UJ |
| 121-14-2 | 2,4-DINITROTOLUENE | ug/kg | 400 U | 390 U |
| 606-20-2 | 2,6-DINITROTOLUENE | ug/kg | 400 U | 390 U |
| 91-58-7 | 2-CHLORONAPHTHALENE | ug/kg | 400 U | 390 U |
| 95-57-8 | 2-CHLOROPHENOL | ug/kg | 400 U | 390 U |
| 91-57-6 | 2-METHYLNAPHTHALENE | ug/kg | 400 U | 390 U |
| 95-48-7 | 2-METHYLPHENOL (O-CRESOL) | ug/kg | 400 U | 390 U |
| 88-74-4 | 2-NITROANILINE | ug/kg | 400 U | 390 U |
| 88-75-5 | 2-NITROPHENOL | ug/kg | 400 U | 390 U |
| 99-09-2 | 3-NITROANILINE | ug/kg | 400 U | 390 U |
| 534-52-1 | 4,6-DINITRO-2-METHYLPHENOL | ug/kg | 400 U | 390 U |
| 101-55-3 | 4-BROMOPHENYL PHENYL ETHER | ug/kg | 400 U | 390 U |
| 59-50-7 | 4-CHLORO-3-METHYLPHENOL | ug/kg | 400 U | 390 U |
| 106-47-8 | 4-CHLOROANILINE | ug/kg | 400 U | 390 U |
| 100-01-6 | 4-NITROANILINE | ug/kg | 400 U | 390 U |
| 100-02-7 | 4-NITROPHENOL | ug/kg | 400 U | 390 U |
| 83-32-9 | ACENAPHTHENE | ug/kg | 400 | 390 U |
| 208-96-8 | ACENAPHTHYLENE | ug/kg | 400 U | 390 U |
| 98-86-2 | ACETOPHENONE | ug/kg | 400 U | 390 U |
| 120-12-7 | ANTHRACENE | ug/kg | 460 | 390 U |
| 1912-24-9 | ATRAZINE | ug/kg | 400 U | 390 U |
| 100-52-7 | BENZALDEHYDE | ug/kg | 400 U | 390 U |
| 56-55-3 | BENZO(A)ANTHRACENE | ug/kg | 310 J | 390 U |
| 50-32-8 | BENZO(A)PYRENE | ug/kg | 400 U | 390 U |
| 205-99-2 | BENZO(B)FLUORANTHENE | ug/kg | 400 U | 390 U |
| 191-24-2 | BENZO(G,H,I)PERYLENE | ug/kg | 400 U | 390 U |
| 207-08-9 | BENZO(K)FLUORANTHENE | ug/kg | 400 U | 390 U |
| 85-68-7 | BENZYL BUTYL PHTHALATE | ug/kg | 400 U | 390 U |
| 92-52-4 | BIPHENYL (DIPHENYL) | ug/kg | 400 U | 390 U |
| 111-91-1 | BIS(2-CHLOROETHOXY) METHANE | ug/kg | 400 U | 390 U |
| 111-44-4 | BIS(2-CHLOROETHYL) ETHER | ug/kg | 400 U | 390 U |
| 108-60-1 | BIS(2-CHLOROISOPROPYL) ETHER | ug/kg | 400 U | 390 U |
| 117-81-7 | BIS(2-ETHYLHEXYL) PHTHALATE | ug/kg | 400 U | 390 U |
| 105-60-2 | CAPROLACTAM | ug/kg | 400 U | 390 U |
| 86-74-8 | CARBAZOLE | ug/kg | 400 U | 390 U |
| 218-01-9 | CHRYSENE | ug/kg | 410 | 390 U |
| 53-70-3 | DIBENZ(A,H)ANTHRACENE | ug/kg | 400 U | 390 U |
| 132-64-9 | DIBENZOFURAN | ug/kg | 180 J | 390 U |
| 84-66-2 | DIETHYL PHTHALATE | ug/kg | 400 U | 390 U |
| 131-11-3 | DIMETHYL PHTHALATE | ug/kg | 400 U | 390 U |
| 84-74-2 | DI-N-BUTYL PHTHALATE | ug/kg | 400 U | 390 U |
| 117-84-0 | DI-N-OCTYLPHTHALATE | ug/kg | 400 U | 390 U |
| 206-44-0 | FLUORANTHENE | ug/kg | 330 J | 390 U |
| 86-73-7 | FLUORENE | ug/kg | 590 | 390 U |
| 87-68-3 | HEXACHLOROBUTADIENE | ug/kg | 400 U | 390 U |
| 77-47-4 | HEXACHLOROCYCLOPENTADIENE | ug/kg | 400 U | 390 U |
| 67-72-1 | HEXACHLOROETHANE | ug/kg | 400 U | 390 U |
| 193-39-5 | INDENO(1,2,3-C,D)PYRENE | ug/kg | 400 U | 390 U |
| 78-59-1 | ISOPHORONE | ug/kg | 400 U | 390 U |
| 91-20-3 | NAPHTHALENE | ug/kg | 400 U | 390 U |
| 98-95-3 | NITROBENZENE | ug/kg | 400 U | 390 U |
| 621-64-7 | N-NITROSODI-N-PROPYLAMINE | ug/kg | 400 U | 390 U |
| 86-30-6 | N-NITROSODIPHENYLAMINE | ug/kg | 400 U | 390 U |
| 87-86-5 | PENTACHLOROPHENOL | ug/kg | 400 U | 390 U |
| 85-01-8 | PHENANTHRENE | ug/kg | 1800 | 390 U |
| 108-95-2 | PHENOL | ug/kg | 400 U | 390 U |
| 129-00-0 | PYRENE | ug/kg | 750 | 390 U |

| Consolidated Edison<br>Farrington Street Remedial Investigation<br>Validated Soil Analytical Data<br>SDG: D1577 | | Location ID:<br>Sample ID:<br>Lab Sample Id:<br>Depth:<br>Source:<br>SDG:<br>Matrix:<br>Sampled:<br>Validated: | SB-36(12-14)<br>SB-36(12-14)<br>D1577-01<br>12 - 14 ft<br>CTECH<br>D1577<br>SOIL<br>2/21/2012<br>4/2/2012 | SB-36(28-30)<br>SB-36(28-30)<br>D1577-04<br>28 - 30 ft<br>CTECH<br>D1577<br>SOIL<br>2/21/2012<br>4/2/2012 |
|---|---|---|---|---|
| CAS NO. | COMPOUND | UNITS: | | |
| | INORGANICS | | | |
| 7429-90-5 | ALUMINUM | mg/kg | 5090 | 2780 |
| 7440-36-0 | ANTIMONY | mg/kg | 3 U | 2.6 U |
| 7440-38-2 | ARSENIC | mg/kg | 1.2 U | 1.04 U |
| 7440-39-3 | BARIUM | mg/kg | 37 | 29.2 |
| 7440-41-7 | BERYLLIUM | mg/kg | 0.23 J | 0.09 J |
| 7440-43-9 | CADMIUM | mg/kg | 0.36 U | 0.31 U |
| 7440-70-2 | CALCIUM | mg/kg | 1090 J | 756 J |
| 7440-47-3 | CHROMIUM, TOTAL | mg/kg | 17.2 J | 10.6 J |
| 7440-48-4 | COBALT | mg/kg | 4.76 | 3.67 |
| 7440-50-8 | COPPER | mg/kg | 20 J | 9.48 J |
| 7439-89-6 | IRON | mg/kg | 16000 J | 10100 J |
| 7439-92-1 | LEAD | mg/kg | 2.8 | 1.5 |
| 7439-95-4 | MAGNESIUM | mg/kg | 1640 | 1160 |
| 7439-96-5 | MANGANESE | mg/kg | 109 | 71.2 |
| 7439-97-6 | MERCURY | mg/kg | 0.012 U | 0.012 J |
| 7440-02-0 | NICKEL | mg/kg | 14.4 | 10.7 |
| 7440-09-7 | POTASSIUM | mg/kg | 1230 | 943 |
| 7782-49-2 | SELENIUM | mg/kg | 1.86 | 1.12 |
| 7440-22-4 | SILVER | mg/kg | 0.6 U | 0.52 U |
| 7440-23-5 | SODIUM | mg/kg | 159 J | 93.5 J |
| 7440-28-0 | THALLIUM | mg/kg | 2.4 U | 2.08 U |
| 7440-62-2 | VANADIUM | mg/kg | 19.1 | 12.9 |
| 7440-66-6 | ZINC | mg/kg | 31.4 | 18.2 |
| 57-12-5 | CYANIDE | mg/kg | 0.195 J | 0.296 U |

| Consolidated Edison<br>Farrington Street Remedial Investigation<br>Validated Soil Analytical Data<br>SDG: D1616 | | Location ID:<br>Sample ID:<br>Lab Sample Id:<br>Depth:<br>Source:<br>SDG:<br>Matrix:<br>Sampled:<br>Validated: | SB-22<br>SB-22(17-19)<br>D1616-06<br>17 - 19 ft<br>CTECH<br>D1616<br>SOIL<br>2/22/2012<br>4/2/2012 | SB-22<br>SB-22(9-11)<br>D1616-05<br>9 - 11 ft<br>CTECH<br>D1616<br>SOIL<br>2/22/2012<br>4/2/2012 | SB-37<br>SB-37(38-40)<br>D1616-01<br>38 - 40 ft<br>CTECH<br>D1616<br>SOIL<br>2/22/2012<br>4/2/2012 | SB-37<br>SB-37(48-50)<br>D1616-03<br>48 - 50 ft<br>CTECH<br>D1616<br>SOIL<br>2/22/2012<br>4/2/2012 | SB-37<br>SB-37A(38-40)<br>D1616-02<br>38 - 40 ft<br>CTECH<br>D1616<br>SOIL<br>2/22/2012<br>4/2/2012 | FIELDQC<br>FB022212<br>D1616-04<br>-<br>CTECH<br>D1616<br>SOIL<br>2/22/2012<br>4/2/2012 |
|---|---|---|---|---|---|---|---|---|
| CAS NO. | COMPOUND | UNITS: | | | | | | ug/L |
| | VOLATILES | | | | | | | |
| 71-55-6 | 1,1,1-TRICHLOROETHANE | ug/kg | 49 UJ | 33000 U | 28000 U | 30 UJ | 29000 U | 5 U |
| 79-34-5 | 1,1,2,2-TETRACHLOROETHANE | ug/kg | 49 UJ | 33000 U | 28000 U | 30 U | 29000 U | 5 U |
| 76-13-1 | 1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE | ug/kg | 49 UJ | 33000 U | 28000 U | 30 U | 29000 U | 5 U |
| 79-00-5 | 1,1,2-TRICHLOROETHANE | ug/kg | 49 UJ | 33000 U | 28000 U | 30 U | 29000 U | 5 U |
| 75-34-3 | 1,1-DICHLOROETHANE | ug/kg | 49 UJ | 33000 U | 28000 U | 30 U | 29000 U | 5 U |
| 75-35-4 | 1,1-DICHLOROETHENE | ug/kg | 49 UJ | 33000 U | 28000 U | 30 U | 29000 U | 5 U |
| 87-61-6 | 1,2,3-TRICHLOROBENZENE | ug/kg | 49 UJ | 33000 U | 28000 U | 30 U | 29000 U | 5 UJ |
| 120-82-1 | 1,2,4-TRICHLOROBENZENE | ug/kg | 49 UJ | 33000 U | 28000 U | 30 U | 29000 U | 5 U |
| 95-63-6 | 1,2,4-TRIMETHYLBENZENE | ug/kg | 11000 | 280000 | 66000 | 30 U | 71000 | 5 U |
| 96-12-8 | 1,2-DIBROMO-3-CHLOROPROPANE | ug/kg | 49 UJ | 33000 U | 28000 U | 30 U | 29000 U | 5 U |
| 106-93-4 | 1,2-DIBROMOETHANE | ug/kg | 49 UJ | 33000 U | 28000 U | 30 U | 29000 U | 5 U |
| 95-50-1 | 1,2-DICHLOROBENZENE | ug/kg | 49 UJ | 33000 U | 28000 U | 30 U | 29000 U | 5 U |
| 107-06-2 | 1,2-DICHLOROETHANE | ug/kg | 49 UJ | 33000 U | 28000 U | 30 UJ | 29000 U | 5 U |
| 78-87-5 | 1,2-DICHLOROPROPANE | ug/kg | 49 UJ | 33000 U | 28000 U | 30 U | 29000 U | 5 U |
| 108-67-8 | 1,3,5-TRIMETHYLBENZENE (MESITYLENE) | ug/kg | 1600 J | 48000 | 23000 J | 30 U | 27000 J | 5 U |
| 541-73-1 | 1,3-DICHLOROBENZENE | ug/kg | 49 UJ | 33000 U | 28000 U | 30 U | 29000 U | 5 U |
| 106-46-7 | 1,4-DICHLOROBENZENE | ug/kg | 49 UJ | 33000 U | 28000 U | 30 U | 29000 U | 5 U |
| 591-78-6 | 2-HEXANONE | ug/kg | 250 UJ | 160000 U | 140000 U | 150 U | 140000 U | 25 U |
| 67-64-1 | ACETONE | ug/kg | 460 J | 160000 U | 140000 U | 150 U | 140000 U | 25 U |
| 71-43-2 | BENZENE | ug/kg | 270 J | 44000 | 12000 J | 30 U | 13000 J | 5 U |
| 74-97-5 | BROMOCHLOROMETHANE | ug/kg | 49 UJ | 33000 U | 28000 U | 30 U | 29000 U | 5 U |
| 75-27-4 | BROMODICHLOROMETHANE | ug/kg | 49 UJ | 33000 U | 28000 U | 30 U | 29000 U | 5 U |
| 75-25-2 | BROMOFORM | ug/kg | 49 UJ | 33000 U | 28000 U | 30 U | 29000 U | 5 UJ |
| 74-83-9 | BROMOMETHANE | ug/kg | 49 UJ | 33000 U | 28000 U | 30 U | 29000 U | 5 UJ |
| 75-15-0 | CARBON DISULFIDE | ug/kg | 70 J | 33000 U | 28000 U | 30 U | 29000 U | 6.9 |
| 56-23-5 | CARBON TETRACHLORIDE | ug/kg | 49 UJ | 33000 U | 28000 U | 30 UJ | 29000 U | 5 U |
| 108-90-7 | CHLOROBENZENE | ug/kg | 49 UJ | 33000 U | 28000 U | 30 U | 29000 U | 5 U |
| 75-00-3 | CHLOROETHANE | ug/kg | 49 UJ | 33000 U | 28000 U | 30 U | 29000 U | 5 U |
| 67-66-3 | CHLOROFORM | ug/kg | 49 UJ | 33000 U | 28000 U | 30 U | 29000 U | 5 U |
| 74-87-3 | CHLOROMETHANE | ug/kg | 49 UJ | 33000 U | 28000 U | 30 U | 29000 U | 5 U |
| 156-59-2 | CIS-1,2-DICHLOROETHYLENE | ug/kg | 49 UJ | 33000 U | 28000 U | 30 U | 29000 U | 5 U |
| 10061-01-5 | CIS-1,3-DICHLOROPROPENE | ug/kg | 49 UJ | 33000 U | 28000 U | 30 U | 29000 U | 5 U |
| 110-82-7 | CYCLOHEXANE | ug/kg | 49 UJ | 33000 U | 28000 U | 30 U | 29000 U | 5 UJ |
| 124-48-1 | DIBROMOCHLOROMETHANE | ug/kg | 49 UJ | 33000 U | 28000 U | 30 U | 29000 U | 5 U |
| 75-71-8 | DICHLORODIFLUOROMETHANE | ug/kg | 49 UJ | 33000 U | 28000 U | 30 UJ | 29000 U | 5 U |
| 100-41-4 | ETHYLBENZENE | ug/kg | 14000 | 310000 | 230000 | 30 U | 270000 | 5 U |
| 98-82-8 | ISOPROPYLBENZENE (CUMENE) | ug/kg | 700 J | 24000 J | 13000 J | 30 U | 15000 J | 5 U |
| XYLMP | M,P-XYLENE (SUM OF ISOMERS) | ug/kg | 2100 J | 110000 | 100000 | 60 U | 110000 | 10 U |
| 79-20-9 | METHYL ACETATE | ug/kg | 49 UJ | 33000 U | 28000 U | 30 U | 29000 U | 5 U |
| 78-93-3 | METHYL ETHYL KETONE (2-BUTANONE) | ug/kg | 250 UJ | 160000 U | 140000 U | 150 U | 140000 U | 25 U |
| 108-10-1 | METHYL ISOBUTYL KETONE | ug/kg | 250 UJ | 160000 U | 140000 U | 150 U | 140000 U | 25 U |
| 108-87-2 | METHYLCYCLOHEXANE | ug/kg | 26 J | 33000 U | 28000 U | 30 U | 29000 U | 5 U |
| 75-09-2 | METHYLENE CHLORIDE | ug/kg | 49 UJ | 33000 U | 28000 U | 30 U | 29000 U | 3.3 J |
| 103-65-1 | N-PROPYLBENZENE | ug/kg | 290 J | 35000 | 28000 U | 30 U | 29000 U | 5 U |
| 95-47-6 | O-XYLENE (1,2-DIMETHYLBENZENE) | ug/kg | 1700 J | 33000 U | 63000 | 30 U | 66000 | 5 U |
| 135-98-8 | SEC-BUTYLBENZENE | ug/kg | 32 J | 33000 U | 28000 U | 30 U | 29000 U | 5 U |
| 100-42-5 | STYRENE | ug/kg | 49 UJ | 33000 U | 28000 U | 30 U | 29000 U | 5 U |
| 98-06-6 | T-BUTYLBENZENE | ug/kg | 49 UJ | 33000 U | 28000 U | 30 U | 29000 U | 5 U |
| 1634-04-4 | TERT-BUTYL METHYL ETHER | ug/kg | 49 UJ | 33000 U | 28000 U | 30 U | 29000 U | 5 U |
| 127-18-4 | TETRACHLOROETHYLENE(PCE) | ug/kg | 49 UJ | 33000 U | 28000 U | 30 U | 29000 U | 5 U |
| 108-88-3 | TOLUENE | ug/kg | 49 UJ | 33000 U | 28000 U | 30 U | 29000 U | 5 U |
| 156-60-5 | TRANS-1,2-DICHLOROETHENE | ug/kg | 49 UJ | 33000 U | 28000 U | 30 U | 29000 U | 5 U |
| 10061-02-6 | TRANS-1,3-DICHLOROPROPENE | ug/kg | 49 UJ | 33000 U | 28000 U | 30 U | 29000 U | 5 U |
| 79-01-6 | TRICHLOROETHYLENE (TCE) | ug/kg | 49 UJ | 33000 U | 28000 U | 30 U | 29000 U | 5 U |
| 75-69-4 | TRICHLOROFLUOROMETHANE | ug/kg | 49 UJ | 33000 U | 28000 U | 30 UJ | 29000 U | 5 U |
| 75-01-4 | VINYL CHLORIDE | ug/kg | 49 UJ | 33000 U | 28000 U | 30 U | 29000 U | 5 U |

| Consolidated Edison<br>Farrington Street Remedial Investigation<br>Validated Soil Analytical Data<br>SDG: D1616 | | Location ID:<br>Sample ID:<br>Lab Sample Id:<br>Depth:<br>Source:<br>SDG:<br>Matrix:<br>Sampled:<br>Validated: | SB-22<br>SB-22(17-19)<br>D1616-06<br>17 - 19 ft<br>CTECH<br>D1616<br>SOIL<br>2/22/2012<br>4/2/2012 | SB-22<br>SB-22(9-11)<br>D1616-05<br>9 - 11 ft<br>CTECH<br>D1616<br>SOIL<br>2/22/2012<br>4/2/2012 | SB-37<br>SB-37(38-40)<br>D1616-01<br>38 - 40 ft<br>CTECH<br>D1616<br>SOIL<br>2/22/2012<br>4/2/2012 | SB-37<br>SB-37(48-50)<br>D1616-03<br>48 - 50 ft<br>CTECH<br>D1616<br>SOIL<br>2/22/2012<br>4/2/2012 | SB-37<br>SB-37A(38-40)<br>D1616-02<br>38 - 40 ft<br>CTECH<br>D1616<br>SOIL<br>2/22/2012<br>4/2/2012 | FIELDQC<br>FB022212<br>D1616-04<br>-<br>CTECH<br>D1616<br>SOIL<br>2/22/2012<br>4/2/2012 |
|---|---|---|---|---|---|---|---|---|
| CAS NO. | COMPOUND | UNITS: | | | | | | ug/L |
| | SEMIVOLATILES | | | | | | | |
| 123-91-1 | 1,4-DIOXANE (P-DIOXANE) | ug/kg | 1900 U | 6600 U | 5700 U | 400 U | 5700 U | 10 UJ |
| 95-95-4 | 2,4,5-TRICHLOROPHENOL | ug/kg | 1900 U | 6600 U | 5700 U | 400 U | 5700 U | 10 UJ |
| 88-06-2 | 2,4,6-TRICHLOROPHENOL | ug/kg | 1900 U | 6600 U | 5700 U | 400 U | 5700 U | 10 U |
| 120-83-2 | 2,4-DICHLOROPHENOL | ug/kg | 1900 U | 6600 U | 5700 U | 400 U | 5700 U | 10 U |
| 105-67-9 | 2,4-DIMETHYLPHENOL | ug/kg | 1900 U | 6600 U | 5700 U | 400 U | 5700 U | 10 U |
| 51-28-5 | 2,4-DINITROPHENOL | ug/kg | 1900 UJ | 6600 UJ | 5700 UJ | R | 5700 UJ | 10 UJ |
| 121-14-2 | 2,4-DINITROTOLUENE | ug/kg | 1900 U | 6600 U | 5700 U | 400 U | 5700 U | 10 UJ |
| 606-20-2 | 2,6-DINITROTOLUENE | ug/kg | 1900 U | 6600 U | 5700 U | 400 U | 5700 U | 10 UJ |
| 91-58-7 | 2-CHLORONAPHTHALENE | ug/kg | 1900 U | 6600 U | 5700 U | 400 U | 5700 U | 10 U |
| 95-57-8 | 2-CHLOROPHENOL | ug/kg | 1900 U | 6600 U | 5700 U | 400 U | 5700 U | 10 U |
| 91-57-6 | 2-METHYLNAPHTHALENE | ug/kg | 120000 | 350000 | 300000 | 320 J | 370000 | 10 U |
| 95-48-7 | 2-METHYLPHENOL (O-CRESOL) | ug/kg | 1900 U | 6600 U | 5700 U | 400 U | 5700 U | 10 U |
| 88-74-4 | 2-NITROANILINE | ug/kg | 1900 U | 6600 U | 5700 U | 400 U | 5700 U | 10 UJ |
| 88-75-5 | 2-NITROPHENOL | ug/kg | 1900 U | 6600 U | 5700 U | 400 U | 5700 U | 10 U |
| MEPH3MEPH | 3- AND 4- METHYLPHENOL (TOTAL) | ug/kg | 1900 U | 6600 U | 5700 U | 400 U | 5700 U | 10 U |
| 99-09-2 | 3-NITROANILINE | ug/kg | 1900 UJ | 6600 UJ | 5700 UJ | 400 UJ | 5700 UJ | 10 U |
| 534-52-1 | 4,6-DINITRO-2-METHYLPHENOL | ug/kg | 1900 U | 6600 U | 5700 U | 400 U | 5700 U | 10 U |
| 101-55-3 | 4-BROMOPHENYL PHENYL ETHER | ug/kg | 1900 U | 6600 U | 5700 U | 400 U | 5700 U | 10 UJ |
| 59-50-7 | 4-CHLORO-3-METHYLPHENOL | ug/kg | 1900 U | 6600 U | 5700 U | 400 U | 5700 U | 10 U |
| 106-47-8 | 4-CHLOROANILINE | ug/kg | 1900 UJ | 6600 UJ | 5700 UJ | 400 UJ | 5700 UJ | 10 U |
| 100-01-6 | 4-NITROANILINE | ug/kg | 1900 U | 6600 U | 5700 U | 400 U | 5700 U | 10 UJ |
| 100-02-7 | 4-NITROPHENOL | ug/kg | 1900 U | 6600 U | 5700 U | 400 U | 5700 U | 10 U |
| 83-32-9 | ACENAPHTHENE | ug/kg | 95000 | 74000 | 200000 | 250 J | 220000 | 10 U |
| 208-96-8 | ACENAPHTHYLENE | ug/kg | 20000 | 35000 | 21000 | 400 U | 21000 | 10 U |
| 98-86-2 | ACETOPHENONE | ug/kg | 1900 U | 6600 U | 5700 U | 400 U | 5700 U | 10 UJ |
| 120-12-7 | ANTHRACENE | ug/kg | 97000 | 120000 | 90000 | 400 U | 100000 | 10 UJ |
| 1912-24-9 | ATRAZINE | ug/kg | 1900 U | 6600 U | 5700 U | 400 U | 5700 U | 10 UJ |
| 100-52-7 | BENZALDEHYDE | ug/kg | 1900 U | 6600 U | 5700 U | 400 U | 5700 U | 10 U |
| 56-55-3 | BENZO(A)ANTHRACENE | ug/kg | 52000 | 62000 | 72000 | 400 U | 80000 | 10 UJ |
| 50-32-8 | BENZO(A)PYRENE | ug/kg | 38000 | 38000 | 48000 | 400 U | 55000 | 10 UJ |
| 205-99-2 | BENZO(B)FLUORANTHENE | ug/kg | 32000 | 32000 | 39000 | 400 U | 39000 | 10 U |
| 191-24-2 | BENZO(G,H,I)PERYLENE | ug/kg | 16000 | 17000 | 23000 | 400 U | 24000 | 10 UJ |
| 207-08-9 | BENZO(K)FLUORANTHENE | ug/kg | 9400 | 10000 | 13000 | 400 U | 14000 | 10 UJ |
| 85-68-7 | BENZYL BUTYL PHTHALATE | ug/kg | 1900 U | 6600 U | 5700 U | 400 U | 5700 U | 10 UJ |
| 92-52-4 | BIPHENYL (DIPHENYL) | ug/kg | 21000 | 33000 | 42000 | 400 U | 44000 | 10 UJ |
| 111-91-1 | BIS(2-CHLOROETHOXY) METHANE | ug/kg | 1900 U | 6600 U | 5700 U | 400 U | 5700 U | 10 U |
| 111-44-4 | BIS(2-CHLOROETHYL) ETHER | ug/kg | 1900 U | 6600 U | 5700 U | 400 U | 5700 U | 10 U |
| 108-60-1 | BIS(2-CHLOROISOPROPYL) ETHER | ug/kg | 1900 U | 6600 U | 5700 U | 400 U | 5700 U | 10 U |
| 117-81-7 | BIS(2-ETHYLHEXYL) PHTHALATE | ug/kg | 1900 U | 6600 U | 5700 U | 400 U | 5700 U | 10 UJ |
| 105-60-2 | CAPROLACTAM | ug/kg | 1900 U | 6600 U | 5700 U | 400 U | 5700 U | 10 U |
| 86-74-8 | CARBAZOLE | ug/kg | 1600 J | 3000 J | 5700 U | 400 U | 5700 U | 10 UJ |
| 218-01-9 | CHRYSENE | ug/kg | 46000 | 59000 | 66000 | 400 U | 72000 | 10 UJ |
| 53-70-3 | DIBENZ(A,H)ANTHRACENE | ug/kg | 3100 | 3800 J | 5300 J | 400 U | 4900 J | 10 U |
| 132-64-9 | DIBENZOFURAN | ug/kg | 5700 | 13000 | 8800 | 400 U | 9200 | 10 UJ |
| 84-66-2 | DIETHYL PHTHALATE | ug/kg | 1900 U | 6600 U | 5700 U | 400 U | 5700 U | 10 UJ |
| 131-11-3 | DIMETHYL PHTHALATE | ug/kg | 1900 U | 6600 U | 5700 U | 400 U | 5700 U | 10 U |
| 84-74-2 | DI-N-BUTYL PHTHALATE | ug/kg | 1900 U | 6600 U | 5700 U | 400 U | 5700 U | 10 UJ |
| 117-84-0 | DI-N-OCTYLPHTHALATE | ug/kg | 1900 U | 6600 U | 5700 U | 400 U | 5700 U | 10 UJ |
| 206-44-0 | FLUORANTHENE | ug/kg | 110000 | 110000 | 110000 | 400 U | 120000 | 10 UJ |
| 86-73-7 | FLUORENE | ug/kg | 71000 | 120000 | 85000 | 400 U | 97000 | 10 UJ |
| 87-68-3 | HEXACHLOROBUTADIENE | ug/kg | 1900 U | 6600 U | 5700 U | 400 U | 5700 U | 10 U |
| 77-47-4 | HEXACHLOROCYCLOPENTADIENE | ug/kg | 1900 U | 6600 U | 5700 U | 400 U | 5700 U | 10 U |
| 67-72-1 | HEXACHLOROETHANE | ug/kg | 1900 U | 6600 U | 5700 U | 400 U | 5700 U | 10 U |
| 193-39-5 | INDENO(1,2,3-C,D)PYRENE | ug/kg | 13000 | 14000 | 18000 | 400 U | 20000 | 10 U |
| 78-59-1 | ISOPHORONE | ug/kg | 1900 U | 6600 U | 5700 U | 400 U | 5700 U | 10 U |
| 91-20-3 | NAPHTHALENE | ug/kg | 250000 | 1000000 | 1100000 | 1400 | 1300000 | 10 U |
| 98-95-3 | NITROBENZENE | ug/kg | 1900 U | 6600 U | 5700 U | 400 U | 5700 U | 10 U |
| 621-64-7 | N-NITROSODI-N-PROPYLAMINE | ug/kg | 1900 U | 6600 U | 5700 U | 400 U | 5700 U | 10 U |
| 86-30-6 | N-NITROSODIPHENYLAMINE | ug/kg | 1900 U | 6600 U | 5700 U | 400 U | 5700 U | 10 UJ |
| 87-86-5 | PENTACHLOROPHENOL | ug/kg | 1900 U | 6600 U | 5700 U | 400 U | 5700 U | 10 U |
| 85-01-8 | PHENANTHRENE | ug/kg | 320000 | 440000 | 310000 | 420 | 360000 | 10 U |
| 108-95-2 | PHENOL | ug/kg | 1900 U | 6600 U | 5700 U | 400 U | 5700 U | 10 U |
| 129-00-0 | PYRENE | ug/kg | 180000 | 190000 | 170000 | 240 J | 180000 | 10 UJ |

| Consolidated Edison<br>Farrington Street Remedial Investigation<br>Validated Soil Analytical Data<br>SDG: D1616 | | Location ID:<br>Sample ID:<br>Lab Sample Id:<br>Depth:<br>Source:<br>SDG:<br>Matrix:<br>Sampled:<br>Validated: | SB-22<br>SB-22(17-19)<br>D1616-06<br>17 - 19 ft<br>CTECH<br>D1616<br>SOIL<br>2/22/2012<br>4/2/2012 | SB-22<br>SB-22(9-11)<br>D1616-05<br>9 - 11 ft<br>CTECH<br>D1616<br>SOIL<br>2/22/2012<br>4/2/2012 | SB-37<br>SB-37(38-40)<br>D1616-01<br>38 - 40 ft<br>CTECH<br>D1616<br>SOIL<br>2/22/2012<br>4/2/2012 | SB-37<br>SB-37(48-50)<br>D1616-03<br>48 - 50 ft<br>CTECH<br>D1616<br>SOIL<br>2/22/2012<br>4/2/2012 | SB-37<br>SB-37A(38-40)<br>D1616-02<br>38 - 40 ft<br>CTECH<br>D1616<br>SOIL<br>2/22/2012<br>4/2/2012 | FIELDQC<br>FB022212<br>D1616-04<br>-<br>CTECH<br>D1616<br>SOIL<br>2/22/2012<br>4/2/2012 |
|---|---|---|---|---|---|---|---|---|
| CAS NO. | COMPOUND | UNITS: | | | | | | ug/L |
| | INORGANICS | | | | | | | |
| 7429-90-5 | ALUMINUM | mg/kg | 6380 | 2430 | 3110 | 4470 | 2960 | 42.8 J |
| 7440-36-0 | ANTIMONY | mg/kg | 0.96 J | 2.9 | 2.57 U | 3.05 U | 2.28 U | 25 U |
| 7440-38-2 | ARSENIC | mg/kg | 10.5 | 10.6 | 1.27 | 1.88 | 1.18 | 10 U |
| 7440-39-3 | BARIUM | mg/kg | 47.9 | 45.8 | 28.5 | 32.8 | 26.5 | 7.48 J |
| 7440-41-7 | BERYLLIUM | mg/kg | 0.274 J | 0.344 U | 0.308 U | 0.151 J | 0.274 U | 3 U |
| 7440-43-9 | CADMIUM | mg/kg | 1.35 | 1.42 | 0.38 | 0.616 | 0.373 | 3 U |
| 7440-70-2 | CALCIUM | mg/kg | 9860 J | 13400 J | 640 J | 636 J | 636 J | 1230 |
| 7440-47-3 | CHROMIUM, TOTAL | mg/kg | 16.3 J | 9.65 J | 14 J | 17.8 J | 12.8 J | 5 U |
| 7440-48-4 | COBALT | mg/kg | 6.81 | 5.67 | 3.81 | 6.45 | 3.51 | 15 U |
| 7440-50-8 | COPPER | mg/kg | 54.4 | 86.1 | 8.33 | 9.28 | 8.56 | 10 U |
| 7439-89-6 | IRON | mg/kg | 29000 | 32900 | 10300 | 16600 | 10200 | 328 |
| 7439-92-1 | LEAD | mg/kg | 145 | 598 | 1.32 | 1.92 | 1.1 | 6 U |
| 7439-95-4 | MAGNESIUM | mg/kg | 3280 | 1670 | 1270 | 1640 | 1290 | 122 J |
| 7439-96-5 | MANGANESE | mg/kg | 214 | 128 | 92.8 | 179 | 84.7 | 5.09 J |
| 7439-97-6 | MERCURY | mg/kg | 2.12 | 0.188 | 0.011 U | 0.012 U | 0.011 U | 0.2 U |
| 7440-02-0 | NICKEL | mg/kg | 15.2 | 15.3 | 9.03 | 11.4 | 9.48 | 20 U |
| 7440-09-7 | POTASSIUM | mg/kg | 1360 | 354 U | 937 | 1190 | 917 | 1840 |
| 7782-49-2 | SELENIUM | mg/kg | 2.89 | 2.76 | 0.968 J | 1.8 | 1.04 | 10 U |
| 7440-22-4 | SILVER | mg/kg | 1.4 | 1.65 | 0.477 J | 0.792 | 0.476 | 5 U |
| 7440-23-5 | SODIUM | mg/kg | 2200 | 387 U | 364 U | 122 U | 358 U | 1410 |
| 7440-28-0 | THALLIUM | mg/kg | 2.54 U | 2.3 U | 2.05 U | 2.44 U | 1.83 U | 20 U |
| 7440-62-2 | VANADIUM | mg/kg | 21.6 | 14.3 | 9.97 | 18.2 | 9.27 | 20 U |
| 7440-66-6 | ZINC | mg/kg | 125 | 72.9 | 15.9 U | 22.5 | 15.2 U | 37.2 |
| 57-12-5 | CYANIDE | mg/kg | 33 | 7.2 | 0.287 U | 0.305 U | 0.287 U | 5 U |

# ATTACHMENT A-3

# VALIDATED LABORATORY DATA FOR 2014 SAMPLES

| Consolidated Edison<br>Farrington Street Holder Station<br>Validated Soil Analytical Data<br>SDG: F1028 | | Location ID:<br>Sample ID:<br>Lab Sample Id:<br>Depth:<br>Source:<br>SDG:<br>Matrix:<br>Sampled:<br>Validated: | CSB-48<br>CSB-48(15-17)<br>F1028-05<br>15 - 17 FT<br>CTECH<br>F1028<br>SOIL<br>1/7/2014<br>5/21/2014 | CSB-48<br>CSB-48(17-19)<br>F1028-09<br>17 - 19 FT<br>CTECH<br>F1028<br>SOIL<br>1/7/2014<br>5/21/2014 | SB-47<br>SB-47(15-17)<br>F1028-07<br>15 - 17 FT<br>CTECH<br>F1028<br>SOIL<br>1/2/2014<br>5/21/2014 | SB-47<br>SB-47(29-31)<br>F1028-04<br>29 - 31 FT<br>CTECH<br>F1028<br>SOIL<br>1/2/2014<br>5/21/2014 | Dup of SB-47(29-31)<br>SB-47<br>SB-147(29-31)<br>F1028-06<br>29 - 31 FT<br>CTECH<br>F1028<br>SOIL<br>1/2/2014<br>5/21/2014 | SB-49<br>SB-49(11-13)<br>F1028-10<br>11 - 13 FT<br>CTECH<br>F1028<br>SOIL<br>1/8/2014<br>5/21/2014 | SB-49<br>SB-49(29-31)<br>F1028-11<br>29 - 31 FT<br>CTECH<br>F1028<br>SOIL<br>1/8/2014<br>5/21/2014 |
|---|---|---|---|---|---|---|---|---|---|
| CAS NO. | COMPOUND | UNITS: | | | | | | | |
| | VOLATILES | | | | | | | | |
| 71-55-6 | 1,1,1-TRICHLOROETHANE | ug/kg | 66.4 U | 170 UJ | 72.9 UJ | 0.57 U | 0.59 U | 61.7 U | 0.57 U |
| 79-34-5 | 1,1,2,2-TETRACHLOROETHANE | ug/kg | 61.1 U | 160 UJ | 67.1 UJ | 0.52 U | 0.55 U | 56.8 U | 0.53 U |
| 76-13-1 | 1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE | ug/kg | 66.4 U | 170 UJ | 72.9 UJ | 0.57 U | 0.59 U | 61.7 U | 0.57 U |
| 79-00-5 | 1,1,2-TRICHLOROETHANE | ug/kg | 120 U | 310 UJ | 130 UJ | 1 U | 1.1 U | 110 U | 1 U |
| 75-34-3 | 1,1-DICHLOROETHANE | ug/kg | 66.4 U | 170 UJ | 72.9 UJ | 0.57 U | 0.59 U | 61.7 U | 0.57 U |
| 75-35-4 | 1,1-DICHLOROETHENE | ug/kg | 66.4 U | 170 UJ | 72.9 UJ | 0.57 U | 0.59 U | 61.7 U | 0.57 U |
| 87-61-6 | 1,2,3-TRICHLOROBENZENE | ug/kg | 66.4 U | 170 UJ | 72.9 UJ | 0.57 U | 0.59 U | 61.7 U | 0.57 U |
| 120-82-1 | 1,2,4-TRICHLOROBENZENE | ug/kg | 66.4 U | 170 UJ | 72.9 UJ | 0.57 U | 0.59 U | 61.7 U | 0.57 U |
| 96-12-8 | 1,2-DIBROMO-3-CHLOROPROPANE | ug/kg | 120 U | 300 UJ | 130 UJ | 0.99 U | 1 U | 110 U | 0.99 U |
| 106-93-4 | 1,2-DIBROMOETHANE | ug/kg | 66.4 U | 170 UJ | 72.9 UJ | 0.57 U | 0.59 U | 61.7 U | 0.57 U |
| 95-50-1 | 1,2-DICHLOROBENZENE | ug/kg | 66.4 U | 170 UJ | 72.9 UJ | 0.57 U | 0.59 U | 61.7 U | 0.57 U |
| 107-06-2 | 1,2-DICHLOROETHANE | ug/kg | 66.4 U | 170 UJ | 72.9 UJ | 0.57 U | 0.59 U | 61.7 U | 0.57 U |
| 78-87-5 | 1,2-DICHLOROPROPANE | ug/kg | 34.5 U | 90.9 UJ | 37.9 UJ | 0.3 U | 0.31 U | 32.1 U | 0.3 U |
| 541-73-1 | 1,3-DICHLOROBENZENE | ug/kg | 49.1 U | 130 UJ | 53.9 UJ | 0.42 U | 0.44 U | 45.7 U | 0.42 U |
| 106-46-7 | 1,4-DICHLOROBENZENE | ug/kg | 54.4 U | 140 UJ | 59.8 UJ | 0.47 U | 0.49 U | 50.6 U | 0.47 U |
| 123-91-1 | 1,4-DIOXANE (P-DIOXANE) | ug/kg | R | R | R | R | R | R | R |
| 591-78-6 | 2-HEXANONE | ug/kg | 330 U | 870 UJ | 360 UJ | 2.8 U | 3 U | 310 U | 2.9 U |
| 67-64-1 | ACETONE | ug/kg | 330 U | 870 UJ | 360 UJ | 5.9 J | 6.7 J | 310 U | 7.1 J |
| 71-43-2 | BENZENE | ug/kg | 176500 | 104200 J | 13500 J | 9.4 | 8.3 | 6800 | 1.4 J |
| 74-97-5 | BROMOCHLOROMETHANE | ug/kg | 66.4 U | 170 UJ | 72.9 UJ | 0.57 U | 0.59 U | 61.7 U | 0.57 U |
| 75-27-4 | BROMODICHLOROMETHANE | ug/kg | 66.4 U | 170 UJ | 72.9 UJ | 0.57 U | 0.59 U | 61.7 U | 0.57 U |
| 75-25-2 | BROMOFORM | ug/kg | 98.3 UJ | 260 UJ | 110 UJ | 0.84 U | 0.88 U | 91.4 U | 0.85 U |
| 74-83-9 | BROMOMETHANE | ug/kg | 130 UJ | 350 UJ | 150 UJ | 1.1 U | 1.2 U | 120 U | 1.1 U |
| 75-15-0 | CARBON DISULFIDE | ug/kg | 66.4 U | 170 UJ | 210 J | 0.57 U | 1.6 J | 150 J | 0.57 U |
| 56-23-5 | CARBON TETRACHLORIDE | ug/kg | 66.4 UJ | 170 UJ | 72.9 UJ | 0.57 U | 0.59 U | 61.7 U | 0.57 U |
| 108-90-7 | CHLOROBENZENE | ug/kg | 66.4 U | 170 UJ | 72.9 UJ | 0.57 U | 0.59 U | 61.7 U | 0.57 U |
| 75-00-3 | CHLOROETHANE | ug/kg | 66.4 U | 170 UJ | 72.9 UJ | 0.57 UJ | 0.59 UJ | 61.7 U | 0.57 UJ |
| 67-66-3 | CHLOROFORM | ug/kg | 66.4 U | 170 UJ | 72.9 UJ | 0.57 U | 0.59 U | 61.7 U | 0.57 U |
| 74-87-3 | CHLOROMETHANE | ug/kg | 66.4 U | 170 UJ | 72.9 UJ | 0.57 U | 0.59 U | 61.7 U | 0.57 U |
| 156-59-2 | CIS-1,2-DICHLOROETHYLENE | ug/kg | 66.4 U | 170 UJ | 72.9 UJ | 0.57 U | 0.59 U | 61.7 U | 0.57 U |
| 10061-01-5 | CIS-1,3-DICHLOROPROPENE | ug/kg | 66.4 U | 170 UJ | 72.9 UJ | 0.57 U | 0.59 U | 61.7 U | 0.57 U |
| 110-82-7 | CYCLOHEXANE | ug/kg | 170 J | 170 UJ | 72.9 UJ | 0.57 U | 0.59 U | 61.7 U | 0.57 U |
| 124-48-1 | DIBROMOCHLOROMETHANE | ug/kg | 66.4 UJ | 170 UJ | 72.9 UJ | 0.57 U | 0.59 U | 61.7 U | 0.57 U |
| 75-71-8 | DICHLORODIFLUOROMETHANE | ug/kg | 66.4 U | 170 UJ | 72.9 UJ | 0.57 U | 0.59 U | 61.7 U | 0.57 U |
| 100-41-4 | ETHYLBENZENE | ug/kg | 500200 | 72500 J | 23800 J | 41.7 J | 14.5 J | 7000 | 1.6 J |
| 98-82-8 | ISOPROPYLBENZENE (CUMENE) | ug/kg | 89600 | 2800 J | 5700 J | 9.2 J | 2.4 J | 3300 | 0.55 U |
| XYLMP | M,P-XYLENE (SUM OF ISOMERS) | ug/kg | 320200 | 108000 J | 13500 J | 24.6 J | 8.6 J | 5300 | 0.82 U |
| 79-20-9 | METHYL ACETATE | ug/kg | 130 U | 350 UJ | 150 UJ | 1.1 U | 1.2 U | 690 | 1.1 U |
| 78-93-3 | METHYL ETHYL KETONE (2-BUTANONE) | ug/kg | 410 U | 1100 UJ | 450 UJ | 3.5 U | 3.7 U | 380 U | 3.6 U |
| 108-10-1 | METHYL ISOBUTYL KETONE | ug/kg | 330 U | 870 UJ | 360 UJ | 2.8 U | 3 U | 310 U | 2.9 U |
| 108-87-2 | METHYLCYCLOHEXANE | ug/kg | 670 | 170 UJ | 180 J | 0.57 U | 0.59 U | 150 J | 0.57 U |
| 75-09-2 | METHYLENE CHLORIDE | ug/kg | 66.4 U | 170 UJ | 72.9 UJ | 5.7 U | 5.9 U | 61.7 U | 3.4 J |
| 95-47-6 | O-XYLENE (1,2-DIMETHYLBENZENE) | ug/kg | 31600 | 38400 J | 6300 J | 7.4 J | 2.2 J | 970 | 0.57 U |
| 100-42-5 | STYRENE | ug/kg | 59.8 U | 160 UJ | 270 J | 0.51 U | 0.53 U | 440 J | 0.51 U |
| 1634-04-4 | TERT-BUTYL METHYL ETHER | ug/kg | 66.4 U | 170 UJ | 72.9 UJ | 1.5 J | 1.8 J | 61.7 U | 0.57 U |
| 127-18-4 | TETRACHLOROETHYLENE(PCE) | ug/kg | 66.4 U | 170 UJ | 72.9 UJ | 0.57 U | 0.59 U | 61.7 U | 0.57 U |
| 108-88-3 | TOLUENE | ug/kg | 3800 | 1300 J | 1400 J | 0.57 U | 0.59 U | 5900 | 0.57 U |
| 156-60-5 | TRANS-1,2-DICHLOROETHENE | ug/kg | 66.4 U | 170 UJ | 72.9 UJ | 0.57 U | 0.59 U | 61.7 U | 0.57 U |
| 10061-02-6 | TRANS-1,3-DICHLOROPROPENE | ug/kg | 66.4 U | 170 UJ | 72.9 UJ | 0.57 U | 0.59 U | 61.7 U | 0.57 U |
| 79-01-6 | TRICHLOROETHYLENE (TCE) | ug/kg | 66.4 U | 170 UJ | 72.9 UJ | 0.57 U | 0.59 U | 61.7 U | 0.57 U |
| 75-69-4 | TRICHLOROFLUOROMETHANE | ug/kg | 66.4 U | 170 UJ | 72.9 UJ | 0.57 U | 0.59 U | 61.7 U | 0.57 U |
| 75-01-4 | VINYL CHLORIDE | ug/kg | 66.4 U | 170 UJ | 72.9 UJ | 0.57 U | 0.59 U | 61.7 U | 0.57 U |

| Consolidated Edison<br>Farrington Street Holder Station<br>Validated Soil Analytical Data<br>SDG: F1028 | | Location ID:<br>Sample ID:<br>Lab Sample Id:<br>Depth:<br>Source:<br>SDG:<br>Matrix:<br>Sampled:<br>Validated: | CSB-48<br>CSB-48(15-17)<br>F1028-05<br>15 - 17 FT<br>CTECH<br>F1028<br>SOIL<br>1/7/2014<br>5/21/2014 | CSB-48<br>CSB-48(17-19)<br>F1028-09<br>17 - 19 FT<br>CTECH<br>F1028<br>SOIL<br>1/7/2014<br>5/21/2014 | SB-47<br>SB-47(15-17)<br>F1028-07<br>15 - 17 FT<br>CTECH<br>F1028<br>SOIL<br>1/2/2014<br>5/21/2014 | SB-47<br>SB-47(29-31)<br>F1028-04<br>29 - 31 FT<br>CTECH<br>F1028<br>SOIL<br>1/2/2014<br>5/21/2014 | Dup of SB-47(29-31)<br>SB-47<br>SB-147(29-31)<br>F1028-06<br>29 - 31 FT<br>CTECH<br>F1028<br>SOIL<br>1/2/2014<br>5/21/2014 | SB-49<br>SB-49(11-13)<br>F1028-10<br>11 - 13 FT<br>CTECH<br>F1028<br>SOIL<br>1/8/2014<br>5/21/2014 | SB-49<br>SB-49(29-31)<br>F1028-11<br>29 - 31 FT<br>CTECH<br>F1028<br>SOIL<br>1/8/2014<br>5/21/2014 |
|---|---|---|---|---|---|---|---|---|---|
| CAS NO. | COMPOUND | UNITS: | | | | | | | |
| | SEMIVOLATILES | | | | | | | | |
| 95-94-3 | 1,2,4,5-TETRACHLOROBENZENE | ug/kg | 86.9 U | 45.7 UJ | 95.4 UJ | 14.8 U | 15.4 U | 80.7 U | 15 U |
| 58-90-2 | 2,3,4,6-TETRACHLOROPHENOL | ug/kg | 86.9 U | 45.7 UJ | 95.4 UJ | 14.8 U | 15.4 U | 80.7 U | 15 U |
| 95-95-4 | 2,4,5-TRICHLOROPHENOL | ug/kg | 160 U | 81.7 UJ | 170 UJ | 26.5 U | 27.6 U | 140 U | 26.7 U |
| 88-06-2 | 2,4,6-TRICHLOROPHENOL | ug/kg | 67.6 U | 35.6 UJ | 74.3 UJ | 11.5 U | 12 U | 62.9 U | 11.6 U |
| 120-83-2 | 2,4-DICHLOROPHENOL | ug/kg | 84.2 UJ | 44.3 UJ | 92.5 UJ | 14.4 U | 15 U | 78.3 U | 14.5 U |
| 105-67-9 | 2,4-DIMETHYLPHENOL | ug/kg | 130 UJ | 66 UJ | 140 UJ | 21.4 U | 22.3 U | 120 U | 21.6 U |
| 51-28-5 | 2,4-DINITROPHENOL | ug/kg | 220 U | 120 UJ | 250 UJ | 38.4 U | 39.9 U | 210 U | 38.7 U |
| 121-14-2 | 2,4-DINITROTOLUENE | ug/kg | 66.3 U | 34.9 UJ | 72.8 UJ | 11.3 U | 11.8 U | 61.6 U | 11.4 U |
| 606-20-2 | 2,6-DINITROTOLUENE | ug/kg | 90.2 U | 47.5 UJ | 99.1 UJ | 15.4 U | 16 U | 83.8 U | 15.5 U |
| 91-58-7 | 2-CHLORONAPHTHALENE | ug/kg | 50.4 U | 26.5 UJ | 55.4 UJ | 8.6 U | 8.9 U | 46.8 U | 8.7 U |
| 95-57-8 | 2-CHLOROPHENOL | ug/kg | 120 U | 61.4 UJ | 130 UJ | 19.9 U | 20.7 U | 110 U | 20.1 U |
| 91-57-6 | 2-METHYLNAPHTHALENE | ug/kg | 1853400 | 63300 J | 65300 J | 280 J | 1100 J | 27400 | 110 J |
| 95-48-7 | 2-METHYLPHENOL (O-CRESOL) | ug/kg | 120 U | 63.2 UJ | 130 UJ | 20.5 U | 21.3 U | 110 U | 20.7 U |
| 88-74-4 | 2-NITROANILINE | ug/kg | 98.1 U | 51.7 UJ | 110 UJ | 16.7 U | 17.4 U | 91.2 U | 16.9 U |
| 88-75-5 | 2-NITROPHENOL | ug/kg | 110 UJ | 56.2 UJ | 120 UJ | 18.2 U | 19 U | 99.2 U | 18.4 U |
| MEPH3MEPH | 3- AND 4- METHYLPHENOL (TOTAL) | ug/kg | 110 U | 60.4 UJ | 130 UJ | 19.6 U | 20.4 U | 640 J | 19.8 U |
| 91-94-1 | 3,3'-DICHLOROBENZIDINE | ug/kg | 140 U | 74.7 UJ | 160 UJ | 24.2 U | 25.2 U | 130 U | 24.4 U |
| 99-09-2 | 3-NITROANILINE | ug/kg | 140 U | 74.7 UJ | 160 UJ | 24.2 U | 25.2 U | 130 U | 24.4 U |
| 534-52-1 | 4,6-DINITRO-2-METHYLPHENOL | ug/kg | 130 U | 66.7 UJ | 140 UJ | 21.6 U | 22.5 U | 120 U | 21.8 U |
| 101-55-3 | 4-BROMOPHENYL PHENYL ETHER | ug/kg | 43.1 U | 22.7 UJ | 47.3 UJ | 7.4 U | 7.7 U | 40.1 U | 7.4 U |
| 59-50-7 | 4-CHLORO-3-METHYLPHENOL | ug/kg | 98.1 UJ | 51.7 UJ | 110 UJ | 16.7 U | 17.4 U | 91.2 U | 16.9 U |
| 106-47-8 | 4-CHLOROANILINE | ug/kg | 160 UJ | 82 UJ | 170 UJ | 26.6 U | 27.7 U | 140 U | 26.8 U |
| 7005-72-3 | 4-CHLOROPHENYL PHENYL ETHER | ug/kg | 120 U | 63.2 UJ | 130 UJ | 20.5 U | 21.3 U | 110 U | 20.7 U |
| 100-01-6 | 4-NITROANILINE | ug/kg | 290 U | 150 UJ | 320 UJ | 49.1 U | 51.1 U | 270 U | 49.6 U |
| 100-02-7 | 4-NITROPHENOL | ug/kg | 410 U | 220 UJ | 450 UJ | 70.1 U | 72.9 U | 380 U | 70.7 U |
| 83-32-9 | ACENAPHTHENE | ug/kg | 432100 J | 15400 J | 24400 J | 120 J | 350 J | 7900 | 10.7 U |
| 208-96-8 | ACENAPHTHYLENE | ug/kg | 54200 | 3600 J | 10200 J | 93.2 J | 150 J | 2100 | 9.6 U |
| 98-86-2 | ACETOPHENONE | ug/kg | 67.6 U | 35.6 UJ | 74.3 UJ | 11.5 U | 12 U | 62.9 U | 11.6 U |
| 120-12-7 | ANTHRACENE | ug/kg | 172300 | 10700 J | 32500 J | 150 J | 280 J | 7000 | 7.8 U |
| 1912-24-9 | ATRAZINE | ug/kg | 120 U | 61.4 UJ | 130 UJ | 19.9 U | 20.7 U | 110 U | 20.1 U |
| 100-52-7 | BENZALDEHYDE | ug/kg | 120 U | 60.7 UJ | 130 UJ | 19.7 U | 20.5 U | 110 U | 19.9 U |
| 56-55-3 | BENZO(A)ANTHRACENE | ug/kg | 86300 | 5400 J | 24400 J | 120 J | 190 J | 8100 | 18.2 U |
| 50-32-8 | BENZO(A)PYRENE | ug/kg | 51700 | 3300 J | 13900 J | 8.1 U | 110 J | 5500 | 8.2 U |
| 205-99-2 | BENZO(B)FLUORANTHENE | ug/kg | 46900 | 3000 J | 14200 J | 12.3 U | 110 J | 6800 | 12.4 U |
| 191-24-2 | BENZO(G,H,I)PERYLENE | ug/kg | 17200 J+ | 940 J | 5000 J | 15.3 U | 15.9 U | 2600 | 15.4 U |
| 207-08-9 | BENZO(K)FLUORANTHENE | ug/kg | 15000 J+ | 670 J | 4400 J | 17.8 U | 18.5 U | 1700 J | 17.9 U |
| 85-68-7 | BENZYL BUTYL PHTHALATE | ug/kg | 110 U | 55.9 UJ | 120 UJ | 18.1 U | 18.8 U | 98.6 U | 18.3 U |
| 92-52-4 | BIPHENYL (DIPHENYL) | ug/kg | 85000 | 4400 J | 5200 J | 14.3 U | 91.1 J | 830 J | 14.4 U |
| 111-91-1 | BIS(2-CHLOROETHOXY) METHANE | ug/kg | 130 UJ | 67 UJ | 140 UJ | 21.7 U | 22.6 U | 120 U | 21.9 U |
| 111-44-4 | BIS(2-CHLOROETHYL) ETHER | ug/kg | 110 U | 55.9 UJ | 120 UJ | 18.1 U | 18.8 U | 98.6 U | 18.3 U |
| 108-60-1 | BIS(2-CHLOROISOPROPYL) ETHER | ug/kg | 91.5 U | 48.2 UJ | 100 UJ | 15.6 U | 16.2 U | 85 U | 15.8 U |
| 117-81-7 | BIS(2-ETHYLHEXYL) PHTHALATE | ug/kg | 78.2 U | 4400 J | 85.9 UJ | 13.4 U | 13.9 U | 650 J | 13.5 U |
| 105-60-2 | CAPROLACTAM | ug/kg | 100 UJ | 54.1 UJ | 110 UJ | 17.5 U | 18.3 U | 95.5 U | 17.7 U |
| 86-74-8 | CARBAZOLE | ug/kg | 8500 J+ | 420 J | 1500 J | 8.3 U | 8.6 U | 500 J | 8.3 U |
| 218-01-9 | CHRYSENE | ug/kg | 66800 | 4600 J | 23200 J | 93.9 J | 150 J | 6700 | 17.2 U |
| 53-70-3 | DIBENZ(A,H)ANTHRACENE | ug/kg | 5500 J+ | 300 J | 2000 J | 10.9 U | 11.3 U | 870 J | 11 U |
| 132-64-9 | DIBENZOFURAN | ug/kg | 14000 J+ | 1600 J | 4200 J | 14.7 U | 15.3 U | 1200 J | 14.8 U |
| 84-66-2 | DIETHYL PHTHALATE | ug/kg | 34.5 U | 18.2 UJ | 37.9 UJ | 5.9 U | 6.1 U | 32 U | 5.9 U |
| 131-11-3 | DIMETHYL PHTHALATE | ug/kg | 59.7 U | 2600 J | 65.6 UJ | 610 | 720 | 460 J | 390 |
| 84-74-2 | DI-N-BUTYL PHTHALATE | ug/kg | 170 U | 91.5 UJ | 190 UJ | 29.7 U | 30.9 U | 160 U | 29.9 U |
| 117-84-0 | DI-N-OCTYLPHTHALATE | ug/kg | 25.2 U | 13.3 UJ | 27.7 UJ | 4.3 U | 4.5 U | 23.4 U | 4.3 U |
| 206-44-0 | FLUORANTHENE | ug/kg | 128200 | 7900 J | 33600 J | 180 J | 310 J | 10500 | 7.7 U |
| 86-73-7 | FLUORENE | ug/kg | 344300 J | 12800 J | 34800 J | 200 J | 360 J | 6900 | 14.4 U |
| 118-74-1 | HEXACHLOROBENZENE | ug/kg | 90.2 U | 47.5 UJ | 99.1 UJ | 15.4 U | 16 U | 83.8 U | 15.5 U |
| 87-68-3 | HEXACHLOROBUTADIENE | ug/kg | 80.2 UJ | 42.2 UJ | 88.1 UJ | 13.7 U | 14.2 U | 74.6 U | 13.8 U |
| 77-47-4 | HEXACHLOROCYCLOPENTADIENE | ug/kg | 53.7 U | 28.3 UJ | 59 UJ | 9.2 U | 9.5 U | 49.9 U | 9.3 U |
| 67-72-1 | HEXACHLOROETHANE | ug/kg | 98.8 U | 52 UJ | 110 UJ | 16.9 U | 17.5 U | 91.8 U | 17 U |
| 193-39-5 | INDENO(1,2,3-C,D)PYRENE | ug/kg | 14200 J+ | 730 J | 3600 J | 12.6 U | 13.1 U | 1600 J | 12.7 U |
| 78-59-1 | ISOPHORONE | ug/kg | 72.9 UJ | 38.4 UJ | 80.1 UJ | 12.4 U | 13 U | 67.8 U | 12.6 U |
| 91-20-3 | NAPHTHALENE | ug/kg | 2453600 | 85400 J | 85400 J | 220 J | 1400 J | 31400 | 96.3 J |
| 98-95-3 | NITROBENZENE | ug/kg | 83.6 UJ | 44 UJ | 91.8 UJ | 14.3 U | 14.8 U | 77.6 U | 14.4 U |
| 621-64-7 | N-NITROSODI-N-PROPYLAMINE | ug/kg | 110 U | 58.6 UJ | 120 UJ | 19 U | 19.8 U | 100 U | 19.2 U |
| 86-30-6 | N-NITROSODIPHENYLAMINE | ug/kg | 53.1 U | 27.9 UJ | 58.3 UJ | 9.1 U | 9.4 U | 49.3 U | 9.1 U |
| 87-86-5 | PENTACHLOROPHENOL | ug/kg | 150 U | 79.6 UJ | 170 UJ | 25.8 U | 26.8 U | 140 U | 26 U |
| 85-01-8 | PHENANTHRENE | ug/kg | 859300 | 33900 J | 93500 J | 610 | 1000 | 28600 | 110 J |
| 108-95-2 | PHENOL | ug/kg | 51.1 U | 26.9 UJ | 56.1 UJ | 8.7 U | 9.1 U | 47.5 U | 8.8 U |
| 129-00-0 | PYRENE | ug/kg | 331000 J | 13300 J | 54300 J | 280 J | 460 | 14800 | 9.1 U |

| Consolidated Edison<br>Farrington Street Holder Station<br>Validated Soil Analytical Data<br>SDG: F1028 | | Location ID:<br>Sample ID:<br>Lab Sample Id:<br>Depth:<br>Source:<br>SDG:<br>Matrix:<br>Sampled:<br>Validated: | CSB-48<br>CSB-48(15-17)<br>F1028-05<br>15 - 17 FT<br>CTECH<br>F1028<br>SOIL<br>1/7/2014<br>5/21/2014 | CSB-48<br>CSB-48(17-19)<br>F1028-09<br>17 - 19 FT<br>CTECH<br>F1028<br>SOIL<br>1/7/2014<br>5/21/2014 | SB-47<br>SB-47(15-17)<br>F1028-07<br>15 - 17 FT<br>CTECH<br>F1028<br>SOIL<br>1/2/2014<br>5/21/2014 | SB-47<br>SB-47(29-31)<br>F1028-04<br>29 - 31 FT<br>CTECH<br>F1028<br>SOIL<br>1/2/2014<br>5/21/2014 | Dup of SB-47(29-31)<br>SB-47<br>SB-147(29-31)<br>F1028-06<br>29 - 31 FT<br>CTECH<br>F1028<br>SOIL<br>1/2/2014<br>5/21/2014 | SB-49<br>SB-49(11-13)<br>F1028-10<br>11 - 13 FT<br>CTECH<br>F1028<br>SOIL<br>1/8/2014<br>5/21/2014 | SB-49<br>SB-49(29-31)<br>F1028-11<br>29 - 31 FT<br>CTECH<br>F1028<br>SOIL<br>1/8/2014<br>5/21/2014 |
|---|---|---|---|---|---|---|---|---|---|
| CAS NO. | COMPOUND | UNITS: | | | | | | | |
| | INORGANICS | | | | | | | | |
| 7429-90-5 | ALUMINUM | mg/kg | 6900 | 10100 J | 4800 J | 2500 | 3400 | 2300 | 7400 |
| 7440-36-0 | ANTIMONY | mg/kg | 0.63 U | 1.68 UJ | 0.71 UJ | 0.53 U | 0.565 U | 0.579 U | 0.532 U |
| 7440-38-2 | ARSENIC | mg/kg | 4.95 | 1.96 J | 4.66 J | 0.746 J | 0.814 J | 5.49 | 1.64 |
| 7440-39-3 | BARIUM | mg/kg | 41.1 | 24 J | 57.3 J | 9.79 | 10.38 | 63.1 J- | 43.4 J- |
| 7440-41-7 | BERYLLIUM | mg/kg | 0.324 J | 0.503 J | 0.186 J | 0.099 J | 0.141 J | 0.236 J | 0.246 J |
| 7440-43-9 | CADMIUM | mg/kg | 1.53 | 1.85 J | 1.97 J | 0.812 | 1.17 | 2.86 | 1.79 |
| 7440-70-2 | CALCIUM | mg/kg | 8300 | 8600 J | 24600 J | 1500 | 1300 | 75600 | 692 |
| 7440-47-3 | CHROMIUM, TOTAL | mg/kg | 13.3 | 20 J | 11.9 J | 8.83 | 11.9 | 8.97 | 22 |
| 7440-48-4 | COBALT | mg/kg | 5.39 | 8.42 J | 6.06 J | 3.47 | 4.38 | 5.56 | 11.7 |
| 7440-50-8 | COPPER | mg/kg | 48.6 | 15.7 J | 45.4 J | 15 | 13 | 29.1 | 19.1 |
| 7439-89-6 | IRON | mg/kg | 13500 | 18200 J | 19200 J | 10500 | 14400 | 12300 | 25400 |
| 7439-92-1 | LEAD | mg/kg | 139 | 12.2 J | 917 J | 8.49 | 2.35 | 413 | 5.26 |
| 7439-95-4 | MAGNESIUM | mg/kg | 2100 | 4900 J | 3500 J | 991 | 1300 | 42900 | 4600 |
| 7439-96-5 | MANGANESE | mg/kg | 126 | 159 J | 136 J | 466 | 625 | 224 | 116 |
| 7439-97-6 | MERCURY | mg/kg | 1.8 | 0.018 J | 0.051 | 0.005 U | 0.005 U | 0.049 | 0.006 J |
| 7440-02-0 | NICKEL | mg/kg | 21.4 | 21.4 J | 17.3 J | 7.48 | 9.39 | 16.3 | 41.2 |
| 7440-09-7 | POTASSIUM | mg/kg | 518 | 2100 J | 672 J | 421 | 683 | 263 | 1900 |
| 7782-49-2 | SELENIUM | mg/kg | 1.39 | 2.56 J | 1.66 J | 0.693 J | 0.755 J | 0.948 J | 2 |
| 7440-22-4 | SILVER | mg/kg | 0.665 | 0.803 J | 0.942 J | 0.563 | 0.786 | 0.423 J | 0.997 |
| 7440-23-5 | SODIUM | mg/kg | 716 | 8000 J | 505 J | 237 | 359 | 310 | 750 |
| 7440-28-0 | THALLIUM | mg/kg | 0.304 U | 0.81 UJ | 0.342 UJ | 0.255 U | 0.272 U | 0.279 U | 0.257 U |
| 7440-62-2 | VANADIUM | mg/kg | 14.4 | 33.7 J | 17.6 J | 24.5 | 29 | 23.1 | 26.8 |
| 7440-66-6 | ZINC | mg/kg | 132 | 69.2 J | 137 J | 14.2 | 18.4 | 251 | 41 |
| 57-12-5 | CYANIDE | mg/kg | 4.19 | 1.03 J | 2.99 J | 0.054 J | 0.086 J | 0.423 | 0.07 J |

| Consolidated Edison<br>Farrington Street Holder Station<br>Validated Soil Analytical Data<br>SDG: F1028 | | Location ID:<br>Sample ID:<br>Lab Sample Id:<br>Depth:<br>Source:<br>SDG:<br>Matrix:<br>Sampled:<br>Validated: | SB-50<br>SB-50(15-16)<br>F1028-12<br>15 - 16 FT<br>CTECH<br>F1028<br>SOIL<br>1/8/2014<br>5/21/2014 | SB-50<br>SB-50(25-30)<br>F1028-13<br>25 - 30 FT<br>CTECH<br>F1028<br>SOIL<br>1/8/2014<br>5/21/2014 | SB-52<br>SB-52(7-9)<br>F1028-03<br>7 - 9 FT<br>CTECH<br>F1028<br>SOIL<br>1/6/2014<br>5/21/2014 | SB-52<br>SB-52(48-50)<br>F1028-01<br>48 - 50 FT<br>CTECH<br>F1028<br>SOIL<br>1/6/2014<br>5/21/2014 | SB-53<br>SB-53(11-13)<br>F1028-02<br>11 - 13 FT<br>CTECH<br>F1028<br>SOIL<br>12/31/2013<br>5/21/2014 | SB-53<br>SB-53(29-31)<br>F1028-08<br>29 - 31 FT<br>CTECH<br>F1028<br>SOIL<br>12/31/2013<br>5/21/2014 | FIELDQC<br>FB010814<br>F1028-16<br>-<br>CTECH<br>F1028<br>SOIL<br>1/8/2014<br>5/21/2014 |
|---|---|---|---|---|---|---|---|---|---|
| CAS NO. | COMPOUND | UNITS: | | | | | | | ug/L |
| | VOLATILES | | | | | | | | |
| 71-55-6 | 1,1,1-TRICHLOROETHANE | ug/kg | 0.63 U | 0.56 U | 0.59 U | 0.64 U | 63.9 U | 0.6 U | 0.4 U |
| 79-34-5 | 1,1,2,2-TETRACHLOROETHANE | ug/kg | 0.58 U | 0.51 U | 0.54 U | 0.59 U | 58.7 U | 0.55 U | 0.31 U |
| 76-13-1 | 1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE | ug/kg | 0.63 U | 0.56 U | 0.59 U | 0.64 U | 63.9 U | 0.6 U | 0.45 U |
| 79-00-5 | 1,1,2-TRICHLOROETHANE | ug/kg | 1.1 U | 1 U | 1.1 U | 1.2 U | 110 U | 1.1 U | 0.38 U |
| 75-34-3 | 1,1-DICHLOROETHANE | ug/kg | 0.63 U | 0.56 U | 0.59 U | 0.64 U | 63.9 U | 0.6 U | 0.36 U |
| 75-35-4 | 1,1-DICHLOROETHENE | ug/kg | 0.63 U | 0.56 U | 0.59 U | 0.64 U | 63.9 U | 0.6 U | 0.47 U |
| 87-61-6 | 1,2,3-TRICHLOROBENZENE | ug/kg | 0.63 U | 0.56 U | 0.59 U | 0.64 U | 63.9 U | 0.6 U | 0.2 U |
| 120-82-1 | 1,2,4-TRICHLOROBENZENE | ug/kg | 0.63 U | 0.56 U | 0.59 U | 0.64 U | 63.9 U | 0.6 U | 0.2 U |
| 96-12-8 | 1,2-DIBROMO-3-CHLOROPROPANE | ug/kg | 1.1 U | 0.97 U | 1 U | 1.1 U | 110 U | 1 U | 0.46 U |
| 106-93-4 | 1,2-DIBROMOETHANE | ug/kg | 0.63 U | 0.56 U | 0.59 U | 0.64 U | 63.9 U | 0.6 U | 0.41 U |
| 95-50-1 | 1,2-DICHLOROBENZENE | ug/kg | 0.63 U | 0.56 U | 0.59 U | 0.64 U | 63.9 U | 0.6 U | 0.45 U |
| 107-06-2 | 1,2-DICHLOROETHANE | ug/kg | 0.63 U | 0.56 U | 0.59 U | 0.64 U | 63.9 U | 0.6 U | 0.48 U |
| 78-87-5 | 1,2-DICHLOROPROPANE | ug/kg | 0.33 U | 0.29 U | 0.31 U | 0.33 U | 33.2 U | 0.31 U | 0.46 U |
| 541-73-1 | 1,3-DICHLOROBENZENE | ug/kg | 0.47 U | 0.41 U | 0.44 U | 0.48 U | 47.3 U | 0.44 U | 0.43 U |
| 106-46-7 | 1,4-DICHLOROBENZENE | ug/kg | 0.52 U | 0.46 U | 0.48 U | 0.53 U | 52.4 U | 0.49 U | 0.32 U |
| 123-91-1 | 1,4-DIOXANE (P-DIOXANE) | ug/kg | R | R | R | R | R | R | R |
| 591-78-6 | 2-HEXANONE | ug/kg | 3.1 U | 2.8 U | 2.9 U | 3.2 U | 320 U | 3 U | 1.9 U |
| 67-64-1 | ACETONE | ug/kg | 10.4 J | 6.4 J | 5.9 J | 9.8 J | 320 U | 3 U | 0.5 U |
| 71-43-2 | BENZENE | ug/kg | 6.9 | 0.42 U | 4.9 J | 11 | 47600 | 6.8 | 0.32 U |
| 74-97-5 | BROMOCHLOROMETHANE | ug/kg | 0.63 U | 0.56 U | 0.59 U | 0.64 U | 63.9 U | 0.6 U | 0.2 U |
| 75-27-4 | BROMODICHLOROMETHANE | ug/kg | 0.63 U | 0.56 U | 0.59 U | 0.64 U | 63.9 U | 0.6 U | 0.36 U |
| 75-25-2 | BROMOFORM | ug/kg | 0.93 U | 0.82 U | 0.87 U | 0.95 U | 94.5 UJ | 0.89 U | 0.47 U |
| 74-83-9 | BROMOMETHANE | ug/kg | 1.3 U | 1.1 U | 1.2 U | 1.3 U | 130 UJ | 1.2 U | 0.2 U |
| 75-15-0 | CARBON DISULFIDE | ug/kg | 0.63 U | 0.56 U | 0.59 U | 0.64 U | 110 J | 0.6 U | 0.2 U |
| 56-23-5 | CARBON TETRACHLORIDE | ug/kg | 0.63 U | 0.56 U | 0.59 U | 0.64 U | 63.9 UJ | 0.6 U | 0.2 U |
| 108-90-7 | CHLOROBENZENE | ug/kg | 0.63 U | 0.56 U | 0.59 U | 0.64 U | 63.9 U | 0.6 U | 0.49 U |
| 75-00-3 | CHLOROETHANE | ug/kg | 0.63 UJ | 0.56 UJ | 0.59 U | 0.64 U | 63.9 U | 0.6 U | 0.2 U |
| 67-66-3 | CHLOROFORM | ug/kg | 0.63 U | 0.56 U | 0.59 U | 0.64 U | 63.9 U | 0.6 U | 0.34 U |
| 74-87-3 | CHLOROMETHANE | ug/kg | 0.63 U | 0.56 U | 0.59 U | 0.64 U | 63.9 U | 0.6 U | 0.2 U |
| 156-59-2 | CIS-1,2-DICHLOROETHYLENE | ug/kg | 0.63 U | 0.56 U | 0.59 U | 0.64 U | 63.9 U | 0.6 U | 0.35 U |
| 10061-01-5 | CIS-1,3-DICHLOROPROPENE | ug/kg | 0.63 U | 0.56 U | 0.59 U | 0.64 U | 63.9 U | 0.6 U | 0.31 U |
| 110-82-7 | CYCLOHEXANE | ug/kg | 0.63 U | 0.56 U | 0.59 U | 0.64 U | 130 J | 0.6 U | 0.2 U |
| 124-48-1 | DIBROMOCHLOROMETHANE | ug/kg | 0.63 U | 0.56 U | 0.59 U | 0.64 U | 63.9 UJ | 0.6 U | 0.2 U |
| 75-71-8 | DICHLORODIFLUOROMETHANE | ug/kg | 0.63 U | 0.56 U | 0.59 U | 0.64 U | 63.9 U | 0.6 U | 0.2 U |
| 100-41-4 | ETHYLBENZENE | ug/kg | 19.9 | 0.56 U | 2.8 J | 5.5 J | 204600 | 14.5 | 0.2 U |
| 98-82-8 | ISOPROPYLBENZENE (CUMENE) | ug/kg | 4.6 J | 0.53 U | 0.57 U | 2.1 J | 11900 | 1.4 J | 0.45 U |
| XYLMP | M,P-XYLENE (SUM OF ISOMERS) | ug/kg | 9.1 J | 0.8 U | 2.2 J | 5.9 J | 66000 | 13.2 | 0.95 U |
| 79-20-9 | METHYL ACETATE | ug/kg | 1.3 U | 1.1 U | 1.2 U | 1.3 U | 130 U | 1.2 U | 0.2 U |
| 78-93-3 | METHYL ETHYL KETONE (2-BUTANONE) | ug/kg | 3.9 U | 3.5 U | 3.7 U | 4 U | 400 U | 3.7 U | 1.3 U |
| 108-10-1 | METHYL ISOBUTYL KETONE | ug/kg | 3.1 U | 2.8 U | 2.9 U | 3.2 U | 320 U | 3 U | 2.1 U |
| 108-87-2 | METHYLCYCLOHEXANE | ug/kg | 0.63 U | 0.56 U | 0.59 U | 0.64 U | 590 J | 0.6 U | 0.2 U |
| 75-09-2 | METHYLENE CHLORIDE | ug/kg | 0.63 U | 0.56 U | 0.59 U | 2.2 J | 63.9 U | 0.6 U | 0.41 U |
| 95-47-6 | O-XYLENE (1,2-DIMETHYLBENZENE) | ug/kg | 1.7 J | 0.56 U | 0.59 U | 9.4 | 3300 | 3.2 J | 0.43 U |
| 100-42-5 | STYRENE | ug/kg | 0.57 U | 0.5 U | 0.53 U | 0.58 U | 57.5 U | 0.54 U | 0.36 U |
| 1634-04-4 | TERT-BUTYL METHYL ETHER | ug/kg | 0.63 U | 0.56 U | 0.59 U | 1.8 J | 63.9 U | 1.2 J | 0.35 U |
| 127-18-4 | TETRACHLOROETHYLENE(PCE) | ug/kg | 0.63 U | 2 J | 1.6 J | 0.64 U | 63.9 U | 0.6 U | 0.27 U |
| 108-88-3 | TOLUENE | ug/kg | 0.63 U | 0.56 U | 0.59 U | 1.7 J | 1700 | 0.6 U | 0.37 U |
| 156-60-5 | TRANS-1,2-DICHLOROETHENE | ug/kg | 0.63 U | 0.56 U | 0.59 U | 0.64 U | 63.9 U | 0.6 U | 0.41 U |
| 10061-02-6 | TRANS-1,3-DICHLOROPROPENE | ug/kg | 0.63 U | 0.56 U | 0.59 U | 0.64 U | 63.9 U | 0.6 U | 0.29 U |
| 79-01-6 | TRICHLOROETHYLENE (TCE) | ug/kg | 0.63 U | 0.56 U | 0.59 U | 0.64 U | 63.9 U | 0.6 U | 0.28 U |
| 75-69-4 | TRICHLOROFLUOROMETHANE | ug/kg | 0.63 U | 0.56 U | 0.59 U | 0.64 U | 63.9 U | 0.6 U | 0.35 U |
| 75-01-4 | VINYL CHLORIDE | ug/kg | 0.63 U | 0.56 U | 0.59 U | 0.64 U | 63.9 U | 0.6 U | 0.34 U |

| Consolidated Edison<br>Farrington Street Holder Station<br>Validated Soil Analytical Data<br>SDG: F1028 | | Location ID:<br>Sample ID:<br>Lab Sample Id:<br>Depth:<br>Source:<br>SDG:<br>Matrix:<br>Sampled:<br>Validated: | SB-50<br>SB-50(15-16)<br>F1028-12<br>15 - 16 FT<br>CTECH<br>F1028<br>SOIL<br>1/8/2014<br>5/21/2014 | SB-50<br>SB-50(25-30)<br>F1028-13<br>25 - 30 FT<br>CTECH<br>F1028<br>SOIL<br>1/8/2014<br>5/21/2014 | SB-52<br>SB-52(7-9)<br>F1028-03<br>7 - 9 FT<br>CTECH<br>F1028<br>SOIL<br>1/6/2014<br>5/21/2014 | SB-52<br>SB-52(48-50)<br>F1028-01<br>48 - 50 FT<br>CTECH<br>F1028<br>SOIL<br>1/6/2014<br>5/21/2014 | SB-53<br>SB-53(11-13)<br>F1028-02<br>11 - 13 FT<br>CTECH<br>F1028<br>SOIL<br>12/31/2013<br>5/21/2014 | SB-53<br>SB-53(29-31)<br>F1028-08<br>29 - 31 FT<br>CTECH<br>F1028<br>SOIL<br>12/31/2013<br>5/21/2014 | FIELDQC<br>FB010814<br>F1028-16<br>-<br>CTECH<br>F1028<br>SOIL<br>1/8/2014<br>5/21/2014 |
|---|---|---|---|---|---|---|---|---|---|
| CAS NO. | COMPOUND | UNITS: | | | | | | | ug/L |
| | SEMIVOLATILES | | | | | | | | |
| 95-94-3 | 1,2,4,5-TETRACHLOROBENZENE | ug/kg | 16.4 U | 14.6 U | 15.3 U | 16.8 U | 83.6 U | 15.7 U | 0.22 U |
| 58-90-2 | 2,3,4,6-TETRACHLOROPHENOL | ug/kg | 16.4 U | 14.6 U | 15.3 U | 16.8 U | 83.6 U | 15.7 U | 0.22 U |
| 95-95-4 | 2,4,5-TRICHLOROPHENOL | ug/kg | 29.3 U | 26 U | 27.4 U | 30.1 U | 150 U | 28.1 U | 0.44 U |
| 88-06-2 | 2,4,6-TRICHLOROPHENOL | ug/kg | 12.8 U | 11.3 U | 11.9 U | 13.1 U | 65.1 U | 12.2 U | 0.62 U |
| 120-83-2 | 2,4-DICHLOROPHENOL | ug/kg | 15.9 U | 14.1 U | 14.9 U | 16.3 U | 81.1 U | 15.2 U | 0.73 U |
| 105-67-9 | 2,4-DIMETHYLPHENOL | ug/kg | 23.7 U | 21 U | 22.1 U | 24.3 U | 120 U | 22.7 U | 0.79 U |
| 51-28-5 | 2,4-DINITROPHENOL | ug/kg | 42.4 U | 37.7 U | 39.7 U | 43.6 U | 220 U | 40.7 U | 2.3 U |
| 121-14-2 | 2,4-DINITROTOLUENE | ug/kg | 12.5 U | 11.1 U | 11.7 U | 12.9 U | 63.8 U | 12 U | 1.1 U |
| 606-20-2 | 2,6-DINITROTOLUENE | ug/kg | 17 U | 15.1 U | 15.9 U | 17.5 U | 86.8 U | 16.3 U | 0.36 U |
| 91-58-7 | 2-CHLORONAPHTHALENE | ug/kg | 9.5 U | 8.4 U | 8.9 U | 9.8 U | 48.5 U | 9.1 U | 0.18 U |
| 95-57-8 | 2-CHLOROPHENOL | ug/kg | 22 U | 19.6 U | 20.6 U | 22.6 U | 110 U | 21.1 U | 0.6 U |
| 91-57-6 | 2-METHYLNAPHTHALENE | ug/kg | 310 J | 9.3 U | 9.8 U | 10.8 U | 654300 | 180 J | 0.36 U |
| 95-48-7 | 2-METHYLPHENOL (O-CRESOL) | ug/kg | 22.7 U | 20.1 U | 21.2 U | 23.3 U | 120 U | 21.7 U | 0.27 U |
| 88-74-4 | 2-NITROANILINE | ug/kg | 18.5 U | 16.4 U | 17.3 U | 19 U | 94.5 U | 17.7 U | 0.54 U |
| 88-75-5 | 2-NITROPHENOL | ug/kg | 20.2 U | 17.9 U | 18.9 U | 20.7 U | 100 U | 19.3 U | 0.58 U |
| MEPH3MEPH | 3- AND 4- METHYLPHENOL (TOTAL) | ug/kg | 21.7 U | 19.2 U | 20.3 U | 22.2 U | 110 U | 20.7 U | 0.42 U |
| 91-94-1 | 3,3'-DICHLOROBENZIDINE | ug/kg | 26.8 U | 23.8 U | 25.1 U | 27.5 U | 140 U | 25.7 U | 1.1 U |
| 99-09-2 | 3-NITROANILINE | ug/kg | 26.8 U | 23.8 U | 25.1 U | 27.5 U | 140 U | 25.7 U | 1.1 U |
| 534-52-1 | 4,6-DINITRO-2-METHYLPHENOL | ug/kg | 23.9 U | 21.2 U | 22.4 U | 24.5 U | 120 U | 22.9 U | 0.82 U |
| 101-55-3 | 4-BROMOPHENYL PHENYL ETHER | ug/kg | 8.1 U | 7.2 U | 7.6 U | 8.4 U | 41.5 U | 7.8 U | 0.26 U |
| 59-50-7 | 4-CHLORO-3-METHYLPHENOL | ug/kg | 18.5 U | 16.4 U | 17.3 U | 19 U | 94.5 U | 17.7 U | 0.44 U |
| 106-47-8 | 4-CHLOROANILINE | ug/kg | 29.4 U | 26.1 U | 27.5 U | 30.2 U | 150 U | 28.2 U | 1.1 U |
| 7005-72-3 | 4-CHLOROPHENYL PHENYL ETHER | ug/kg | 22.7 U | 20.1 U | 21.2 U | 23.3 U | 120 U | 21.7 U | 0.23 U |
| 100-01-6 | 4-NITROANILINE | ug/kg | 54.3 U | 48.2 U | 50.8 U | 55.8 U | 280 U | 52 U | 1.5 U |
| 100-02-7 | 4-NITROPHENOL | ug/kg | 77.5 U | 68.8 U | 72.5 U | 79.6 U | 400 U | 74.2 U | 2.2 U |
| 83-32-9 | ACENAPHTHENE | ug/kg | 120 J | 10.4 U | 11 U | 12.1 U | 32500 | 11.3 U | 0.23 U |
| 208-96-8 | ACENAPHTHYLENE | ug/kg | 10.5 U | 9.3 U | 9.8 U | 10.8 U | 35500 | 10.1 U | 0.78 U |
| 98-86-2 | ACETOPHENONE | ug/kg | 12.8 U | 11.3 U | 11.9 U | 13.1 U | 65.1 U | 12.2 U | 0.16 U |
| 120-12-7 | ANTHRACENE | ug/kg | 88.9 J | 7.6 U | 8 U | 8.7 U | 63400 | 8.2 U | 0.18 U |
| 1912-24-9 | ATRAZINE | ug/kg | 22 U | 19.6 U | 20.6 U | 22.6 U | 110 U | 21.1 U | 0.44 U |
| 100-52-7 | BENZALDEHYDE | ug/kg | 21.8 U | 19.3 U | 20.4 U | 22.4 U | 110 U | 20.9 U | 0.86 U |
| 56-55-3 | BENZO(A)ANTHRACENE | ug/kg | 140 J | 17.7 U | 130 J | 20.4 U | 30300 | 19.1 U | 0.18 U |
| 50-32-8 | BENZO(A)PYRENE | ug/kg | 110 J | 8 U | 130 J | 9.3 U | 14400 | 8.6 U | 0.16 U |
| 205-99-2 | BENZO(B)FLUORANTHENE | ug/kg | 120 J | 12.1 U | 170 J | 14 U | 13400 | 13.1 U | 0.32 U |
| 191-24-2 | BENZO(G,H,I)PERYLENE | ug/kg | 16.9 U | 15 U | 96.4 J | 17.4 U | 4700 | 16.2 U | 0.32 U |
| 207-08-9 | BENZO(K)FLUORANTHENE | ug/kg | 19.7 U | 17.4 U | 18.4 U | 20.2 U | 4400 | 18.8 U | 0.2 U |
| 85-68-7 | BENZYL BUTYL PHTHALATE | ug/kg | 20 U | 17.8 U | 18.7 U | 20.6 U | 100 U | 19.2 U | 0.21 U |
| 92-52-4 | BIPHENYL (DIPHENYL) | ug/kg | 15.8 U | 14 U | 14.8 U | 16.2 U | 12400 | 15.1 U | 0.17 U |
| 111-91-1 | BIS(2-CHLOROETHOXY) METHANE | ug/kg | 24 U | 21.3 U | 22.5 U | 24.7 U | 120 U | 23 U | 0.61 U |
| 111-44-4 | BIS(2-CHLOROETHYL) ETHER | ug/kg | 20 U | 17.8 U | 18.7 U | 20.6 U | 100 U | 19.2 U | 0.61 U |
| 108-60-1 | BIS(2-CHLOROISOPROPYL) ETHER | ug/kg | 17.3 U | 15.3 U | 16.2 U | 17.7 U | 88.1 U | 16.6 U | 0.19 U |
| 117-81-7 | BIS(2-ETHYLHEXYL) PHTHALATE | ug/kg | 14.8 U | 13.1 U | 140 J | 15.2 U | 540 J | 14.2 U | 0.18 U |
| 105-60-2 | CAPROLACTAM | ug/kg | 19.4 U | 17.2 U | 18.2 U | 19.9 U | 98.9 U | 18.6 U | 1.1 U |
| 86-74-8 | CARBAZOLE | ug/kg | 9.1 U | 8.1 U | 8.6 U | 9.4 U | 2300 | 8.8 U | 0.24 U |
| 218-01-9 | CHRYSENE | ug/kg | 120 J | 16.8 U | 110 J | 19.4 U | 23200 | 18.1 U | 0.2 U |
| 53-70-3 | DIBENZ(A,H)ANTHRACENE | ug/kg | 12 U | 10.7 U | 11.2 U | 12.3 U | 1700 J | 11.5 U | 0.47 U |
| 132-64-9 | DIBENZOFURAN | ug/kg | 16.3 U | 14.4 U | 15.2 U | 16.7 U | 7500 | 15.6 U | 0.27 U |
| 84-66-2 | DIETHYL PHTHALATE | ug/kg | 6.5 U | 5.8 U | 6.1 U | 6.7 U | 33.2 U | 6.2 U | 0.42 U |
| 131-11-3 | DIMETHYL PHTHALATE | ug/kg | 590 | 380 | 590 | 710 | 57.5 U | 150 J | 0.24 U |
| 84-74-2 | DI-N-BUTYL PHTHALATE | ug/kg | 32.8 U | 29.1 U | 30.7 U | 33.7 U | 170 U | 31.4 U | 1.1 U |
| 117-84-0 | DI-N-OCTYLPHTHALATE | ug/kg | 4.8 U | 4.2 U | 4.5 U | 4.9 U | 24.3 U | 4.6 U | 0.57 U |
| 206-44-0 | FLUORANTHENE | ug/kg | 180 J | 7.4 U | 170 J | 8.6 U | 44800 | 8 U | 0.44 U |
| 86-73-7 | FLUORENE | ug/kg | 100 J | 14 U | 14.8 U | 16.2 U | 78900 | 15.1 U | 0.34 U |
| 118-74-1 | HEXACHLOROBENZENE | ug/kg | 17 U | 15.1 U | 15.9 U | 17.5 U | 86.8 U | 16.3 U | 0.2 U |
| 87-68-3 | HEXACHLOROBUTADIENE | ug/kg | 15.1 U | 13.4 U | 14.2 U | 15.6 U | 77.2 U | 14.5 U | 0.28 U |
| 77-47-4 | HEXACHLOROCYCLOPENTADIENE | ug/kg | 10.1 U | 9 U | 9.5 U | 10.4 U | 51.7 U | 9.7 U | 0.27 U |
| 67-72-1 | HEXACHLOROETHANE | ug/kg | 18.7 U | 16.6 U | 17.5 U | 19.2 U | 95.1 U | 17.9 U | 0.28 U |
| 193-39-5 | INDENO(1,2,3-C,D)PYRENE | ug/kg | 13.9 U | 12.3 U | 13 U | 14.3 U | 3600 | 13.3 U | 0.17 U |
| 78-59-1 | ISOPHORONE | ug/kg | 13.8 U | 12.2 U | 12.9 U | 14.1 U | 70.2 U | 13.2 U | 0.33 U |
| 91-20-3 | NAPHTHALENE | ug/kg | 380 J | 12.8 U | 13.5 U | 130 J | 1079600 | 330 J | 0.13 U |
| 98-95-3 | NITROBENZENE | ug/kg | 15.8 U | 14 U | 14.8 U | 16.2 U | 80.4 U | 15.1 U | 0.76 U |
| 621-64-7 | N-NITROSODI-N-PROPYLAMINE | ug/kg | 21 U | 18.7 U | 19.7 U | 21.6 U | 110 U | 20.1 U | 0.22 U |
| 86-30-6 | N-NITROSODIPHENYLAMINE | ug/kg | 10 U | 8.9 U | 9.4 U | 10.3 U | 51.1 U | 9.6 U | 0.67 U |
| 87-86-5 | PENTACHLOROPHENOL | ug/kg | 28.5 U | 25.3 U | 26.7 U | 29.3 U | 150 U | 27.3 U | 1.1 U |
| 85-01-8 | PHENANTHRENE | ug/kg | 270 J | 10 U | 130 J | 11.6 U | 283000 | 87.9 J | 0.29 U |
| 108-95-2 | PHENOL | ug/kg | 9.6 U | 8.6 U | 9 U | 9.9 U | 49.2 U | 9.2 U | 0.23 U |
| 129-00-0 | PYRENE | ug/kg | 250 J | 8.9 U | 170 J | 10.3 U | 72000 | 9.6 U | 0.22 U |

| Consolidated Edison<br>Farrington Street Holder Station<br>Validated Soil Analytical Data<br>SDG: F1028 | | Location ID:<br>Sample ID:<br>Lab Sample Id:<br>Depth:<br>Source:<br>SDG:<br>Matrix:<br>Sampled:<br>Validated: | SB-50<br>SB-50(15-16)<br>F1028-12<br>15 - 16 FT<br>CTECH<br>F1028<br>SOIL<br>1/8/2014<br>5/21/2014 | SB-50<br>SB-50(25-30)<br>F1028-13<br>25 - 30 FT<br>CTECH<br>F1028<br>SOIL<br>1/8/2014<br>5/21/2014 | SB-52<br>SB-52(7-9)<br>F1028-03<br>7 - 9 FT<br>CTECH<br>F1028<br>SOIL<br>1/6/2014<br>5/21/2014 | SB-52<br>SB-52(48-50)<br>F1028-01<br>48 - 50 FT<br>CTECH<br>F1028<br>SOIL<br>1/6/2014<br>5/21/2014 | SB-53<br>SB-53(11-13)<br>F1028-02<br>11 - 13 FT<br>CTECH<br>F1028<br>SOIL<br>12/31/2013<br>5/21/2014 | SB-53<br>SB-53(29-31)<br>F1028-08<br>29 - 31 FT<br>CTECH<br>F1028<br>SOIL<br>12/31/2013<br>5/21/2014 | FIELDQC<br>FB010814<br>F1028-16<br>-<br>CTECH<br>F1028<br>SOIL<br>1/8/2014<br>5/21/2014 |
|---|---|---|---|---|---|---|---|---|---|
| CAS NO. | COMPOUND | UNITS: | | | | | | | ug/L |
| | INORGANICS | | | | | | | | |
| 7429-90-5 | ALUMINUM | mg/kg | 3000 | 4100 J | 9600 | 7300 J | 2300 | 2800 | 50 U |
| 7440-36-0 | ANTIMONY | mg/kg | 0.578 U | 0.526 UJ | 0.569 U | 0.621 UJ | 0.609 J | 0.567 U | 8 U |
| 7440-38-2 | ARSENIC | mg/kg | 4.05 | 1.49 J | 4.26 | 1.55 | 7.92 | 0.513 J | 4.2 U |
| 7440-39-3 | BARIUM | mg/kg | 35.5 J- | 20.4 J | 48.8 | 52.2 J | 30.7 | 22.5 | 4 U |
| 7440-41-7 | BERYLLIUM | mg/kg | 0.145 J | 0.084 J | 0.254 J | 0.242 J | 0.065 U | 0.115 J | 0.7 U |
| 7440-43-9 | CADMIUM | mg/kg | 0.764 | 1.4 J | 2.08 | 2.1 | 3.15 | 0.628 | 0.5 U |
| 7440-70-2 | CALCIUM | mg/kg | 6600 | 566 J | 7000 | 1200 J | 16000 | 855 | 66.3 J |
| 7440-47-3 | CHROMIUM, TOTAL | mg/kg | 6.65 | 14.3 J | 19.7 | 23.9 | 9.53 | 8.58 | 1.1 U |
| 7440-48-4 | COBALT | mg/kg | 4.82 | 5.57 J | 7.93 | 9.12 | 5.55 | 3.6 | 5.8 U |
| 7440-50-8 | COPPER | mg/kg | 19.5 | 18.5 J | 31.4 | 22.5 J | 82.2 | 9.28 | 2 U |
| 7439-89-6 | IRON | mg/kg | 11100 | 23200 J | 20000 | 23500 J | 30300 | 8000 | 2.6 U |
| 7439-92-1 | LEAD | mg/kg | 43.6 | 0.533 J | 1500 | 4.42 | 38.4 | 1.82 | 32.5 U |
| 7439-95-4 | MAGNESIUM | mg/kg | 1300 | 1400 J | 4800 | 2700 | 7600 | 1100 | 1.7 U |
| 7439-96-5 | MANGANESE | mg/kg | 156 | 206 J | 245 | 168 J | 103 | 63.8 | 0.1 U |
| 7439-97-6 | MERCURY | mg/kg | 0.035 | 0.006 U | 0.159 | 0.006 U | 0.034 | 0.005 U | 4.2 U |
| 7440-02-0 | NICKEL | mg/kg | 10.46 | 13.1 J | 16.5 | 19.9 J | 18.4 | 7.79 | 1000 U |
| 7440-09-7 | POTASSIUM | mg/kg | 374 | 1000 J | 641 | 2000 J | 340 | 540 | 3.95 J |
| 7782-49-2 | SELENIUM | mg/kg | 1.23 | 1.79 J | 1.59 | 1.59 | 2.57 | 0.651 J | 1.5 U |
| 7440-22-4 | SILVER | mg/kg | 0.437 J | 0.853 J | 0.989 | 1.05 J | 1.49 | 0.357 J | 20.4 U |
| 7440-23-5 | SODIUM | mg/kg | 381 | 122 J | 550 | 182 J | 373 | 244 | 38.8 U |
| 7440-28-0 | THALLIUM | mg/kg | 0.279 U | 0.254 UJ | 0.274 U | 0.3 U | 0.293 U | 0.274 U | 6.1 U |
| 7440-62-2 | VANADIUM | mg/kg | 15.9 | 20.5 J | 29.7 | 30.4 | 17.7 | 11.9 | 6.5 U |
| 7440-66-6 | ZINC | mg/kg | 33.4 | 16.8 J | 76.5 | 41.3 J | 53.1 | 14 | 3 U |
| 57-12-5 | CYANIDE | mg/kg | 0.282 J | 0.037 U | 0.414 | 0.119 J | 17.5 | 0.206 J | 4.8 U |

| Consolidated Edison<br>Farrington Street Holder Station<br>Validated Soil Analytical Data<br>SDG: F1204 | | Location ID:<br>Sample ID:<br>Lab Sample Id:<br>Depth:<br>Source:<br>SDG:<br>Matrix:<br>Sampled:<br>Validated: | CSB-51<br>CSB-51(15-17)<br>F1204-07<br>15 - 17 FT<br>CTECH<br>F1204<br>SOIL<br>1/20/2014<br>5/21/2014 | CSB-51<br>CSB-51(29-31)<br>F1204-08<br>29 - 31 FT<br>CTECH<br>F1204<br>SOIL<br>1/20/2014<br>5/21/2014 | CSB-57<br>CSB-57(15-17)<br>F1204-14<br>15 - 17 FT<br>CTECH<br>F1204<br>SOIL<br>1/21/2014<br>5/21/2014 | CSB-57<br>CSB-57(29-31)<br>F1204-15<br>29 - 31 FT<br>CTECH<br>F1204<br>SOIL<br>1/21/2014<br>5/21/2014 | Dup of CSB-57(29-31)<br>CSB-57<br>CSB-157(29-31)<br>F1204-16<br>29 - 31 FT<br>CTECH<br>F1204<br>SOIL<br>1/21/2014<br>5/21/2014 | CSB-58<br>CSB-58(19-21)<br>F1204-10<br>19 - 21 FT<br>CTECH<br>F1204<br>SOIL<br>1/21/2014<br>5/21/2014 | CSB-58<br>CSB-58(23-25)<br>F1204-11<br>23 - 25 FT<br>CTECH<br>F1204<br>SOIL<br>1/21/2014<br>5/21/2014 |
|---|---|---|---|---|---|---|---|---|---|
| CAS NO. | COMPOUND | UNITS: | | | | | | | |
| | VOLATILES | | | | | | | | |
| 71-55-6 | 1,1,1-TRICHLOROETHANE | ug/kg | 61.1 UJ | 0.6 UJ | 79.4 U | 0.75 U | 0.7 UJ | 65.2 U | 0.82 U |
| 79-34-5 | 1,1,2,2-TETRACHLOROETHANE | ug/kg | 56.2 UJ | 0.55 UJ | 73 U | 0.69 U | 0.65 UJ | 60 U | 0.75 U |
| 76-13-1 | 1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE | ug/kg | 61.1 UJ | 0.6 UJ | 79.4 U | 0.75 U | 0.7 UJ | 65.2 U | 0.82 U |
| 79-00-5 | 1,1,2-TRICHLOROETHANE | ug/kg | 110 UJ | 1.1 UJ | 140 U | 1.3 U | 1.3 UJ | 120 U | 1.5 U |
| 75-34-3 | 1,1-DICHLOROETHANE | ug/kg | 61.1 UJ | 0.6 UJ | 79.4 U | 0.75 U | 0.7 UJ | 65.2 U | 0.82 U |
| 75-35-4 | 1,1-DICHLOROETHENE | ug/kg | 61.1 UJ | 0.6 UJ | 79.4 U | 0.75 U | 0.7 UJ | 65.2 U | 0.82 U |
| 87-61-6 | 1,2,3-TRICHLOROBENZENE | ug/kg | 61.1 UJ | 0.6 UJ | 79.4 U | 0.75 U | 0.7 UJ | 65.2 U | 0.82 U |
| 120-82-1 | 1,2,4-TRICHLOROBENZENE | ug/kg | 61.1 UJ | 0.6 UJ | 79.4 U | 0.75 U | 0.7 UJ | 65.2 U | 0.82 U |
| 96-12-8 | 1,2-DIBROMO-3-CHLOROPROPANE | ug/kg | 110 UJ | 1 UJ | 140 U | 1.3 U | 1.2 UJ | 110 U | 1.4 U |
| 106-93-4 | 1,2-DIBROMOETHANE | ug/kg | 61.1 UJ | 0.6 UJ | 79.4 U | 0.75 U | 0.7 UJ | 65.2 U | 0.82 U |
| 95-50-1 | 1,2-DICHLOROBENZENE | ug/kg | 61.1 UJ | 0.6 UJ | 79.4 U | 0.75 U | 0.7 UJ | 65.2 U | 0.82 U |
| 107-06-2 | 1,2-DICHLOROETHANE | ug/kg | 61.1 UJ | 0.6 UJ | 79.4 U | 0.75 U | 0.7 UJ | 65.2 U | 0.82 U |
| 78-87-5 | 1,2-DICHLOROPROPANE | ug/kg | 31.8 UJ | 0.31 UJ | 41.3 U | 0.39 U | 0.37 UJ | 33.9 U | 0.43 U |
| 541-73-1 | 1,3-DICHLOROBENZENE | ug/kg | 45.2 UJ | 0.45 UJ | 58.7 U | 0.55 U | 0.52 UJ | 48.3 U | 0.61 U |
| 106-46-7 | 1,4-DICHLOROBENZENE | ug/kg | 50.1 UJ | 0.49 UJ | 65.1 U | 0.61 U | 0.58 UJ | 53.5 U | 0.67 U |
| 123-91-1 | 1,4-DIOXANE (P-DIOXANE) | ug/kg | R | R | R | R | R | R | R |
| 591-78-6 | 2-HEXANONE | ug/kg | 310 UJ | 3 UJ | 400 U | 3.7 U | 3.5 UJ | 330 U | 4.1 U |
| 67-64-1 | ACETONE | ug/kg | 310 UJ | 3 UJ | 400 U | 16.6 J | 22.8 J | 330 U | 50.4 |
| 71-43-2 | BENZENE | ug/kg | 2100 | 0.46 UJ | 27400 | 29.7 | 21.8 | 5500 | 200 |
| 74-97-5 | BROMOCHLOROMETHANE | ug/kg | 61.1 UJ | 0.6 UJ | 79.4 U | 0.75 U | 0.7 UJ | 65.2 U | 0.82 U |
| 75-27-4 | BROMODICHLOROMETHANE | ug/kg | 61.1 UJ | 0.6 UJ | 79.4 U | 0.75 U | 0.7 UJ | 65.2 U | 0.82 U |
| 75-25-2 | BROMOFORM | ug/kg | 90.5 UJ | 0.89 UJ | 120 U | 1.1 U | 1 UJ | 96.5 U | 1.2 U |
| 74-83-9 | BROMOMETHANE | ug/kg | 120 UJ | 1.2 UJ | 160 U | 1.5 U | 1.4 UJ | 130 U | 1.6 U |
| 75-15-0 | CARBON DISULFIDE | ug/kg | 110 J | 0.6 UJ | 190 J | 36.2 | 55.8 J | 65.2 U | 68.4 J |
| 56-23-5 | CARBON TETRACHLORIDE | ug/kg | 61.1 UJ | 0.6 UJ | 79.4 U | 0.75 U | 0.7 UJ | 65.2 U | 0.82 U |
| 108-90-7 | CHLOROBENZENE | ug/kg | 61.1 UJ | 0.6 UJ | 79.4 U | 0.75 U | 0.7 UJ | 65.2 U | 0.82 U |
| 75-00-3 | CHLOROETHANE | ug/kg | 61.1 UJ | 0.6 UJ | 79.4 U | 0.75 UJ | 0.7 UJ | 65.2 U | 0.82 U |
| 67-66-3 | CHLOROFORM | ug/kg | 61.1 UJ | 0.6 UJ | 79.4 U | 0.75 U | 0.7 UJ | 65.2 U | 0.82 U |
| 74-87-3 | CHLOROMETHANE | ug/kg | 61.1 UJ | 0.6 UJ | 79.4 U | 0.75 U | 0.7 UJ | 65.2 U | 0.82 U |
| 156-59-2 | CIS-1,2-DICHLOROETHYLENE | ug/kg | 61.1 UJ | 0.6 UJ | 79.4 U | 2 J | 3 J | 65.2 U | 0.82 U |
| 10061-01-5 | CIS-1,3-DICHLOROPROPENE | ug/kg | 61.1 UJ | 0.6 UJ | 79.4 U | 0.75 U | 0.7 UJ | 65.2 U | 0.82 U |
| 110-82-7 | CYCLOHEXANE | ug/kg | 61.1 UJ | 0.6 UJ | 79.4 U | 0.75 U | 0.7 UJ | 65.2 U | 0.82 U |
| 124-48-1 | DIBROMOCHLOROMETHANE | ug/kg | 61.1 UJ | 0.6 UJ | 79.4 U | 0.75 U | 0.7 UJ | 65.2 U | 0.82 U |
| 75-71-8 | DICHLORODIFLUOROMETHANE | ug/kg | 61.1 UJ | 0.6 UJ | 79.4 U | 0.75 U | 0.7 UJ | 65.2 U | 0.82 U |
| 100-41-4 | ETHYLBENZENE | ug/kg | 13300 J | 0.6 UJ | 79500 | 61.6 J | 33.5 J | 6300 | 270 J |
| 98-82-8 | ISOPROPYLBENZENE (CUMENE) | ug/kg | 3400 | 0.58 UJ | 9600 | 8.8 J | 3.2 J | 1300 | 140 |
| XYLMP | M,P-XYLENE (SUM OF ISOMERS) | ug/kg | 800 J | 0.87 UJ | 67600 | 27.4 J | 7.5 J | 1300 | 400 |
| 79-20-9 | METHYL ACETATE | ug/kg | 140 J | 1.2 UJ | 170 J | 1.5 U | 1.4 UJ | 130 U | 1.6 U |
| 78-93-3 | METHYL ETHYL KETONE (2-BUTANONE) | ug/kg | 380 UJ | 3.8 UJ | 490 U | 4.7 U | 4.4 UJ | 410 U | 10.8 J |
| 108-10-1 | METHYL ISOBUTYL KETONE | ug/kg | 310 UJ | 3 UJ | 400 U | 3.7 U | 3.5 UJ | 330 U | 4.1 U |
| 108-87-2 | METHYLCYCLOHEXANE | ug/kg | 61.1 UJ | 0.6 UJ | 79.4 U | 0.75 U | 0.7 UJ | 65.2 U | 0.82 U |
| 75-09-2 | METHYLENE CHLORIDE | ug/kg | 610 U | 8.6 | 790 U | 11.6 | 7 U | 650 U | 23.8 J |
| 95-47-6 | O-XYLENE (1,2-DIMETHYLBENZENE) | ug/kg | 1100 | 0.6 UJ | 32600 | 31.3 J | 14.6 J | 390 J | 69.1 |
| 100-42-5 | STYRENE | ug/kg | 55 UJ | 0.54 UJ | 71.4 U | 0.67 U | 0.63 UJ | 58.7 U | 0.74 U |
| 1634-04-4 | TERT-BUTYL METHYL ETHER | ug/kg | 61.1 UJ | 2 J | 79.4 U | 0.75 U | 0.7 UJ | 65.2 U | 0.82 U |
| 127-18-4 | TETRACHLOROETHYLENE(PCE) | ug/kg | 61.1 UJ | 0.6 UJ | 79.4 U | 0.75 U | 0.7 UJ | 65.2 U | 0.82 U |
| 108-88-3 | TOLUENE | ug/kg | 550 J | 0.6 UJ | 61100 | 12.7 J | 5.1 J | 460 J | 8.5 |
| 156-60-5 | TRANS-1,2-DICHLOROETHENE | ug/kg | 61.1 UJ | 0.6 UJ | 79.4 U | 0.75 U | 0.7 UJ | 65.2 U | 0.82 U |
| 10061-02-6 | TRANS-1,3-DICHLOROPROPENE | ug/kg | 61.1 UJ | 0.6 UJ | 79.4 U | 0.75 U | 0.7 UJ | 65.2 U | 0.82 U |
| 79-01-6 | TRICHLOROETHYLENE (TCE) | ug/kg | 61.1 UJ | 0.6 UJ | 79.4 U | 0.75 U | 0.7 UJ | 65.2 U | 0.82 U |
| 75-69-4 | TRICHLOROFLUOROMETHANE | ug/kg | 61.1 UJ | 0.6 UJ | 79.4 U | 0.75 U | 0.7 UJ | 65.2 U | 0.82 U |
| 75-01-4 | VINYL CHLORIDE | ug/kg | 61.1 UJ | 0.6 UJ | 79.4 U | 0.75 U | 0.7 UJ | 65.2 U | 0.82 U |

| Consolidated Edison<br>Farrington Street Holder Station<br>Validated Soil Analytical Data<br>SDG: F1204 | | Location ID:<br>Sample ID:<br>Lab Sample Id:<br>Depth:<br>Source:<br>SDG:<br>Matrix:<br>Sampled:<br>Validated: | CSB-51<br>CSB-51(15-17)<br>F1204-07<br>15 - 17 FT<br>CTECH<br>F1204<br>SOIL<br>1/20/2014<br>5/21/2014 | CSB-51<br>CSB-51(29-31)<br>F1204-08<br>29 - 31 FT<br>CTECH<br>F1204<br>SOIL<br>1/20/2014<br>5/21/2014 | CSB-57<br>CSB-57(15-17)<br>F1204-14<br>15 - 17 FT<br>CTECH<br>F1204<br>SOIL<br>1/21/2014<br>5/21/2014 | CSB-57<br>CSB-57(29-31)<br>F1204-15<br>29 - 31 FT<br>CTECH<br>F1204<br>SOIL<br>1/21/2014<br>5/21/2014 | Dup of CSB-57(29-31)<br>CSB-57<br>CSB-157(29-31)<br>F1204-16<br>29 - 31 FT<br>CTECH<br>F1204<br>SOIL<br>1/21/2014<br>5/21/2014 | CSB-58<br>CSB-58(19-21)<br>F1204-10<br>19 - 21 FT<br>CTECH<br>F1204<br>SOIL<br>1/21/2014<br>5/21/2014 | CSB-58<br>CSB-58(23-25)<br>F1204-11<br>23 - 25 FT<br>CTECH<br>F1204<br>SOIL<br>1/21/2014<br>5/21/2014 |
|---|---|---|---|---|---|---|---|---|---|
| CAS NO. | COMPOUND | UNITS: | | | | | | | |
| | SEMIVOLATILES | | | | | | | | |
| 95-94-3 | 1,2,4,5-TETRACHLOROBENZENE | ug/kg | 16 UJ | 15.7 UJ | 20.7 UJ | 19.6 U | 18.3 UJ | 17.1 U | 21.5 U |
| 58-90-2 | 2,3,4,6-TETRACHLOROPHENOL | ug/kg | 16 UJ | 15.7 UJ | 20.7 UJ | 19.6 U | 18.3 UJ | 17.1 U | 21.5 U |
| 95-95-4 | 2,4,5-TRICHLOROPHENOL | ug/kg | 28.6 UJ | 28 UJ | 37 UJ | 35 U | 32.7 UJ | 30.5 U | 38.3 U |
| 88-06-2 | 2,4,6-TRICHLOROPHENOL | ug/kg | 12.5 UJ | 12.2 UJ | 16.1 UJ | 15.3 U | 14.2 UJ | 13.3 U | 16.7 U |
| 120-83-2 | 2,4-DICHLOROPHENOL | ug/kg | 15.5 UJ | 15.2 UJ | 20.1 UJ | 19 U | 17.7 UJ | 16.6 U | 20.8 U |
| 105-67-9 | 2,4-DIMETHYLPHENOL | ug/kg | 23.1 UJ | 22.6 UJ | 29.9 UJ | 28.3 U | 26.4 UJ | 24.6 U | 31 U |
| 51-28-5 | 2,4-DINITROPHENOL | ug/kg | 41.4 UJ | 40.5 UJ | 53.6 UJ | 50.7 U | 47.3 UJ | 44.2 U | 55.6 U |
| 121-14-2 | 2,4-DINITROTOLUENE | ug/kg | 12.2 UJ | 11.9 UJ | 15.8 UJ | 15 U | 14 UJ | 13 U | 16.4 U |
| 606-20-2 | 2,6-DINITROTOLUENE | ug/kg | 16.6 UJ | 16.2 UJ | 21.5 UJ | 20.3 U | 19 UJ | 17.7 U | 22.3 U |
| 91-58-7 | 2-CHLORONAPHTHALENE | ug/kg | 9.3 UJ | 9.1 UJ | 12 UJ | 11.4 U | 10.6 UJ | 9.9 U | 12.5 U |
| 95-57-8 | 2-CHLOROPHENOL | ug/kg | 21.5 UJ | 21 UJ | 27.9 UJ | 26.3 U | 24.6 UJ | 23 U | 28.8 U |
| 91-57-6 | 2-METHYLNAPHTHALENE | ug/kg | 500 J | 10 UJ | 242100 | 180 J | 120 J | 10500 | 2300 |
| 95-48-7 | 2-METHYLPHENOL (O-CRESOL) | ug/kg | 22.1 UJ | 21.6 UJ | 28.6 UJ | 27.1 U | 25.3 UJ | 23.6 U | 29.7 U |
| 88-74-4 | 2-NITROANILINE | ug/kg | 18.1 UJ | 17.7 UJ | 23.4 UJ | 22.1 U | 20.7 UJ | 19.3 U | 24.3 U |
| 88-75-5 | 2-NITROPHENOL | ug/kg | 19.7 UJ | 19.2 UJ | 25.5 UJ | 24.1 U | 22.5 UJ | 21 U | 26.4 U |
| MEPH3MEPH | 3- AND 4- METHYLPHENOL (TOTAL) | ug/kg | 21.1 UJ | 20.7 UJ | 27.4 UJ | 25.9 U | 24.1 UJ | 22.6 U | 28.4 U |
| 91-94-1 | 3,3'-DICHLOROBENZIDINE | ug/kg | 26.2 UJ | 25.6 UJ | 33.9 UJ | 32 U | 29.9 UJ | 27.9 U | 35.1 U |
| 99-09-2 | 3-NITROANILINE | ug/kg | 26.2 UJ | 25.6 UJ | 33.9 UJ | 32 U | 29.9 UJ | 27.9 U | 35.1 U |
| 534-52-1 | 4,6-DINITRO-2-METHYLPHENOL | ug/kg | 23.3 UJ | 22.8 UJ | 30.2 UJ | 28.6 U | 26.7 UJ | 24.9 U | 31.3 U |
| 101-55-3 | 4-BROMOPHENYL PHENYL ETHER | ug/kg | 7.9 UJ | 7.8 UJ | 10.3 UJ | 9.7 U | 9.1 UJ | 8.5 U | 10.7 U |
| 59-50-7 | 4-CHLORO-3-METHYLPHENOL | ug/kg | 18.1 UJ | 17.7 UJ | 23.4 UJ | 22.1 U | 20.7 UJ | 19.3 U | 24.3 U |
| 106-47-8 | 4-CHLOROANILINE | ug/kg | 28.7 UJ | 28.1 UJ | 37.2 UJ | 35.2 U | 32.8 UJ | 30.6 U | 38.5 U |
| 7005-72-3 | 4-CHLOROPHENYL PHENYL ETHER | ug/kg | 22.1 UJ | 21.6 UJ | 28.6 UJ | 27.1 U | 25.3 UJ | 23.6 U | 29.7 U |
| 100-01-6 | 4-NITROANILINE | ug/kg | 53.1 UJ | 51.8 UJ | 68.7 UJ | 64.9 U | 60.6 UJ | 56.6 U | 71.1 U |
| 100-02-7 | 4-NITROPHENOL | ug/kg | 75.7 UJ | 73.9 UJ | 98 UJ | 92.6 U | 86.4 UJ | 80.7 U | 100 U |
| 83-32-9 | ACENAPHTHENE | ug/kg | 800 J | 11.2 UJ | 76400 | 14.1 U | 13.1 UJ | 4700 | 750 |
| 208-96-8 | ACENAPHTHYLENE | ug/kg | 1500 J | 10 UJ | 3700 J- | 12.6 U | 11.7 UJ | 440 | 13.8 U |
| 98-86-2 | ACETOPHENONE | ug/kg | 12.5 UJ | 12.2 UJ | 16.1 UJ | 15.3 U | 14.2 UJ | 13.3 U | 16.7 U |
| 120-12-7 | ANTHRACENE | ug/kg | 2000 J | 8.1 UJ | 42000 | 10.2 U | 9.5 UJ | 1500 | 220 J |
| 1912-24-9 | ATRAZINE | ug/kg | 21.5 UJ | 21 UJ | 27.9 UJ | 26.3 U | 24.6 UJ | 23 U | 28.8 U |
| 100-52-7 | BENZALDEHYDE | ug/kg | 21.3 UJ | 20.8 UJ | 27.5 UJ | 26 U | 24.3 UJ | 22.7 U | 28.5 U |
| 56-55-3 | BENZO(A)ANTHRACENE | ug/kg | 3100 J | 19 UJ | 3600 J- | 23.8 U | 22.2 UJ | 870 | 26.1 U |
| 50-32-8 | BENZO(A)PYRENE | ug/kg | 1200 J | 8.6 UJ | 2700 J- | 10.8 U | 10 UJ | 640 | 11.8 U |
| 205-99-2 | BENZO(B)FLUORANTHENE | ug/kg | 1600 J | 13 UJ | 2000 J- | 16.3 U | 15.2 UJ | 570 | 17.9 U |
| 191-24-2 | BENZO(G,H,I)PERYLENE | ug/kg | 1100 J | 16.1 UJ | 960 J- | 20.2 U | 18.8 UJ | 300 J | 22.1 U |
| 207-08-9 | BENZO(K)FLUORANTHENE | ug/kg | 940 J | 18.8 UJ | 720 J- | 23.5 U | 21.9 UJ | 200 J | 25.7 U |
| 85-68-7 | BENZYL BUTYL PHTHALATE | ug/kg | 19.6 UJ | 19.1 UJ | 25.3 UJ | 23.9 U | 22.3 UJ | 20.9 U | 26.2 U |
| 92-52-4 | BIPHENYL (DIPHENYL) | ug/kg | 1100 J | 15.1 UJ | 3300 J- | 18.8 U | 17.6 UJ | 410 J | 20.6 U |
| 111-91-1 | BIS(2-CHLOROETHOXY) METHANE | ug/kg | 23.5 UJ | 22.9 UJ | 30.4 UJ | 28.7 U | 26.8 UJ | 25 U | 31.5 U |
| 111-44-4 | BIS(2-CHLOROETHYL) ETHER | ug/kg | 19.6 UJ | 19.1 UJ | 25.3 UJ | 23.9 U | 22.3 UJ | 20.9 U | 26.2 U |
| 108-60-1 | BIS(2-CHLOROISOPROPYL) ETHER | ug/kg | 16.9 UJ | 16.5 UJ | 21.8 UJ | 20.6 U | 19.3 UJ | 18 U | 22.6 U |
| 117-81-7 | BIS(2-ETHYLHEXYL) PHTHALATE | ug/kg | 14.4 UJ | 14.1 UJ | 18.7 UJ | 17.7 U | 16.5 UJ | 15.4 U | 19.3 U |
| 105-60-2 | CAPROLACTAM | ug/kg | 18.9 UJ | 18.5 UJ | 24.5 UJ | 23.2 U | 21.6 UJ | 20.2 U | 25.4 U |
| 86-74-8 | CARBAZOLE | ug/kg | 8.9 UJ | 8.7 UJ | 250 J | 10.9 U | 10.2 UJ | 9.5 U | 12 U |
| 218-01-9 | CHRYSENE | ug/kg | 2600 J | 18 UJ | 3400 J- | 22.6 U | 21.1 UJ | 770 | 24.7 U |
| 53-70-3 | DIBENZ(A,H)ANTHRACENE | ug/kg | 290 J | 11.5 UJ | 250 J | 14.4 U | 13.4 UJ | 12.5 U | 15.7 U |
| 132-64-9 | DIBENZOFURAN | ug/kg | 240 J | 15.5 UJ | 1100 J- | 19.4 U | 18.1 UJ | 210 J | 21.3 U |
| 84-66-2 | DIETHYL PHTHALATE | ug/kg | 6.4 UJ | 6.2 UJ | 8.2 UJ | 7.8 U | 7.3 UJ | 6.8 U | 8.5 U |
| 131-11-3 | DIMETHYL PHTHALATE | ug/kg | 370 J | 400 J | 170 J | 570 | 540 J | 490 | 620 |
| 84-74-2 | DI-N-BUTYL PHTHALATE | ug/kg | 32 UJ | 31.3 UJ | 41.5 UJ | 39.2 U | 36.6 UJ | 34.2 U | 42.9 U |
| 117-84-0 | DI-N-OCTYLPHTHALATE | ug/kg | 4.6 UJ | 4.5 UJ | 6 UJ | 5.7 U | 5.3 UJ | 5 U | 6.2 U |
| 206-44-0 | FLUORANTHENE | ug/kg | 4600 J | 8 UJ | 40100 | 10 U | 9.4 UJ | 1400 | 190 J |
| 86-73-7 | FLUORENE | ug/kg | 2600 J | 15.1 UJ | 65300 | 18.8 U | 17.6 UJ | 2200 | 360 J |
| 118-74-1 | HEXACHLOROBENZENE | ug/kg | 16.6 UJ | 16.2 UJ | 21.5 UJ | 20.3 U | 19 UJ | 17.7 U | 22.3 U |
| 87-68-3 | HEXACHLOROBUTADIENE | ug/kg | 14.8 UJ | 14.5 UJ | 19.1 UJ | 18.1 U | 16.9 UJ | 15.8 U | 19.8 U |
| 77-47-4 | HEXACHLOROCYCLOPENTADIENE | ug/kg | 9.9 UJ | 9.7 UJ | 12.8 UJ | 12.1 U | 11.3 UJ | 10.6 U | 13.3 U |
| 67-72-1 | HEXACHLOROETHANE | ug/kg | 18.2 UJ | 17.8 UJ | 23.6 UJ | 22.3 U | 20.8 UJ | 19.4 U | 24.4 U |
| 193-39-5 | INDENO(1,2,3-C,D)PYRENE | ug/kg | 1000 J | 13.3 UJ | 780 J- | 16.6 U | 15.5 UJ | 260 J | 18.2 U |
| 78-59-1 | ISOPHORONE | ug/kg | 13.4 UJ | 13.1 UJ | 17.4 UJ | 16.5 U | 15.4 UJ | 14.3 U | 18 U |
| 91-20-3 | NAPHTHALENE | ug/kg | 5300 J | 390 U | 398200 | 340 J | 220 J | 12700 | 5300 |
| 98-95-3 | NITROBENZENE | ug/kg | 15.4 UJ | 15.1 UJ | 19.9 UJ | 18.8 U | 17.6 UJ | 16.4 U | 20.6 U |
| 621-64-7 | N-NITROSODI-N-PROPYLAMINE | ug/kg | 20.5 UJ | 20.1 UJ | 26.6 UJ | 25.1 U | 23.4 UJ | 21.9 U | 27.5 U |
| 86-30-6 | N-NITROSODIPHENYLAMINE | ug/kg | 9.8 UJ | 9.6 UJ | 12.7 UJ | 12 U | 11.2 UJ | 10.4 U | 13.1 U |
| 87-86-5 | PENTACHLOROPHENOL | ug/kg | 27.9 UJ | 27.2 UJ | 36.1 UJ | 34.1 U | 31.8 UJ | 29.7 U | 37.4 U |
| 85-01-8 | PHENANTHRENE | ug/kg | 9200 J | 130 J | 151800 | 120 J | 93.5 J | 5400 | 750 |
| 108-95-2 | PHENOL | ug/kg | 9.4 UJ | 9.2 UJ | 12.2 UJ | 11.5 U | 10.7 UJ | 10 U | 12.6 U |
| 129-00-0 | PYRENE | ug/kg | 5500 J | 9.6 UJ | 54800 | 12 U | 11.2 UJ | 1900 | 280 J |

| Consolidated Edison<br>Farrington Street Holder Station<br>Validated Soil Analytical Data<br>SDG: F1204 | | Location ID:<br>Sample ID:<br>Lab Sample Id:<br>Depth:<br>Source:<br>SDG:<br>Matrix:<br>Sampled:<br>Validated: | CSB-51<br>CSB-51(15-17)<br>F1204-07<br>15 - 17 FT<br>CTECH<br>F1204<br>SOIL<br>1/20/2014<br>5/21/2014 | CSB-51<br>CSB-51(29-31)<br>F1204-08<br>29 - 31 FT<br>CTECH<br>F1204<br>SOIL<br>1/20/2014<br>5/21/2014 | CSB-57<br>CSB-57(15-17)<br>F1204-14<br>15 - 17 FT<br>CTECH<br>F1204<br>SOIL<br>1/21/2014<br>5/21/2014 | CSB-57<br>CSB-57(29-31)<br>F1204-15<br>29 - 31 FT<br>CTECH<br>F1204<br>SOIL<br>1/21/2014<br>5/21/2014 | Dup of CSB-57(29-31)<br>CSB-57<br>CSB-157(29-31)<br>F1204-16<br>29 - 31 FT<br>CTECH<br>F1204<br>SOIL<br>1/21/2014<br>5/21/2014 | CSB-58<br>CSB-58(19-21)<br>F1204-10<br>19 - 21 FT<br>CTECH<br>F1204<br>SOIL<br>1/21/2014<br>5/21/2014 | CSB-58<br>CSB-58(23-25)<br>F1204-11<br>23 - 25 FT<br>CTECH<br>F1204<br>SOIL<br>1/21/2014<br>5/21/2014 |
|---|---|---|---|---|---|---|---|---|---|
| CAS NO. | COMPOUND | UNITS: | | | | | | | |
| | INORGANICS | | | | | | | | |
| 7429-90-5 | ALUMINUM | mg/kg | 5500 J | 4200 J | 5400 J | 9500 J | 5300 J | 3900 J | 11800 J |
| 7440-36-0 | ANTIMONY | mg/kg | 0.966 J | 0.571 U | 0.763 U | 0.703 U | 0.65 U | 0.634 U | 0.793 UJ |
| 7440-38-2 | ARSENIC | mg/kg | 8.11 | 0.779 J | 5.33 | 5.86 | 3.93 | 5.45 | 7.4 |
| 7440-39-3 | BARIUM | mg/kg | 100 J | 81.9 J | 45 J | 45.9 J | 25.6 J | 74.2 J | 38.7 J |
| 7440-41-7 | BERYLLIUM | mg/kg | 0.061 U | 0.061 U | 0.082 U | 0.117 J | 0.07 U | 0.08 J | 0.148 J |
| 7440-43-9 | CADMIUM | mg/kg | 1.56 | 0.8 | 0.771 | 1.16 | 0.508 | 0.811 | 1.73 |
| 7440-70-2 | CALCIUM | mg/kg | 19100 J | 716 J | 15300 J | 1900 J | 763 J | 6300 J | 5300 J |
| 7440-47-3 | CHROMIUM, TOTAL | mg/kg | 15.8 J | 22.9 J | 13.3 J | 28.5 J | 15.8 J | 19.1 J | 27.9 J |
| 7440-48-4 | COBALT | mg/kg | 6.42 | 10.91 | 5.23 | 9.9 | 5.5 | 5.3 | 11.9 |
| 7440-50-8 | COPPER | mg/kg | 74.6 J | 13.9 J | 30.3 J+ | 7.95 J | 4.79 J | 58.9 J | 22.1 J |
| 7439-89-6 | IRON | mg/kg | 22700 | 20800 | 13800 | 26100 J | 13700 J | 12300 | 32300 |
| 7439-92-1 | LEAD | mg/kg | 288 | 1.72 | 99.3 | 7.43 J | 3.61 J | 131 | 42.1 |
| 7439-95-4 | MAGNESIUM | mg/kg | 10700 | 1600 | 7400 | 5900 J | 3000 J | 2900 | 6400 |
| 7439-96-5 | MANGANESE | mg/kg | 178 J | 1500 J | 139 J | 604 J | 291 J | 112 J | 536 J |
| 7439-97-6 | MERCURY | mg/kg | 0.055 | 0.006 U | 0.258 | 0.007 U | 0.008 J | 0.095 | 0.034 |
| 7440-02-0 | NICKEL | mg/kg | 16.5 | 21.5 | 13.1 | 21.6 | 11.2 | 15.9 | 27 |
| 7440-09-7 | POTASSIUM | mg/kg | 804 | 1500 | 1200 | 2700 J | 1500 J | 690 | 3000 |
| 7782-49-2 | SELENIUM | mg/kg | 1.95 | 0.944 J | 1.9 | 1.64 | 0.754 J | 1.3 | 2.12 |
| 7440-22-4 | SILVER | mg/kg | 0.152 U | 0.153 U | 0.204 U | 0.188 U | 0.174 U | 0.17 U | 0.212 UJ |
| 7440-23-5 | SODIUM | mg/kg | 424 | 102 J | 1100 | 3400 J | 1800 J | 574 | 1900 |
| 7440-28-0 | THALLIUM | mg/kg | 0.274 U | 0.276 U | 0.368 U | 0.339 U | 0.313 U | 0.306 U | 0.382 U |
| 7440-62-2 | VANADIUM | mg/kg | 30.6 J | 50.9 J | 24.5 J | 40.2 J | 23.1 J | 19.4 J | 43.3 J |
| 7440-66-6 | ZINC | mg/kg | 146 | 22.1 | 94.7 | 58.4 J | 32.2 J | 128 | 95.1 |
| 57-12-5 | CYANIDE | mg/kg | 5.02 | 0.938 | 1.47 | 0.049 U | 0.166 J | 0.117 J | 0.071 J |

| Consolidated Edison<br>Farrington Street Holder Station<br>Validated Soil Analytical Data<br>SDG: F1204 | | Location ID:<br>Sample ID:<br>Lab Sample Id:<br>Depth:<br>Source:<br>SDG:<br>Matrix:<br>Sampled:<br>Validated: | SB-54<br>SB-54(19-21)<br>F1204-01<br>19 - 21 FT<br>CTECH<br>F1204<br>SOIL<br>1/17/2014<br>5/21/2014 | SB-54<br>SB-54(28-30)<br>F1204-02<br>28 - 30 FT<br>CTECH<br>F1204<br>SOIL<br>1/17/2014<br>5/21/2014 | SB-55<br>SB-55(15-17)<br>F1204-03<br>15 - 17 FT<br>CTECH<br>F1204<br>SOIL<br>1/17/2014<br>5/21/2014 | SB-55<br>SB-55(17-19)<br>F1204-04<br>17 - 19 FT<br>CTECH<br>F1204<br>SOIL<br>1/17/2014<br>5/21/2014 | SB-56<br>SB-56(7-9)<br>F1204-05<br>7 - 9 FT<br>CTECH<br>F1204<br>SOIL<br>1/20/2014<br>5/21/2014 | SB-56<br>SB-56(29-31)<br>F1204-06<br>29 - 31 FT<br>CTECH<br>F1204<br>SOIL<br>1/20/2014<br>5/21/2014 | FIELDQC<br>FB012114<br>F1204-09<br>-<br>CTECH<br>F1204<br>SOIL<br>1/21/2014<br>5/21/2014 |
|---|---|---|---|---|---|---|---|---|---|
| CAS NO. | COMPOUND | UNITS: | | | | | | | ug/L |
| | VOLATILES | | | | | | | | |
| 71-55-6 | 1,1,1-TRICHLOROETHANE | ug/kg | 92.1 UJ | 0.61 U | 98.6 U | 0.88 U | 0.56 UJ | 0.62 U | 0.4 U |
| 79-34-5 | 1,1,2,2-TETRACHLOROETHANE | ug/kg | 84.7 UJ | 0.56 U | 90.7 U | 0.81 U | 0.52 UJ | 0.57 U | 0.31 U |
| 76-13-1 | 1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE | ug/kg | 92.1 UJ | 0.61 U | 98.6 U | 0.88 U | 0.56 UJ | 0.62 U | 0.45 U |
| 79-00-5 | 1,1,2-TRICHLOROETHANE | ug/kg | 170 UJ | 1.1 U | 180 U | 1.6 U | 1 UJ | 1.1 U | 0.38 U |
| 75-34-3 | 1,1-DICHLOROETHANE | ug/kg | 92.1 UJ | 0.61 U | 98.6 U | 0.88 U | 0.56 UJ | 0.62 U | 0.36 U |
| 75-35-4 | 1,1-DICHLOROETHENE | ug/kg | 92.1 UJ | 0.61 U | 98.6 U | 0.88 U | 0.56 UJ | 0.62 U | 0.47 U |
| 87-61-6 | 1,2,3-TRICHLOROBENZENE | ug/kg | 92.1 UJ | 0.61 U | 98.6 U | 0.88 U | 0.56 UJ | 0.62 U | 0.2 U |
| 120-82-1 | 1,2,4-TRICHLOROBENZENE | ug/kg | 180 J | 1.8 J | 98.6 U | 0.88 U | 0.56 UJ | 0.62 U | 0.2 U |
| 96-12-8 | 1,2-DIBROMO-3-CHLOROPROPANE | ug/kg | 160 UJ | 1.1 U | 170 U | 1.5 U | 0.98 UJ | 1.1 U | 0.46 U |
| 106-93-4 | 1,2-DIBROMOETHANE | ug/kg | 92.1 UJ | 0.61 U | 98.6 U | 0.88 U | 0.56 UJ | 0.62 U | 0.41 U |
| 95-50-1 | 1,2-DICHLOROBENZENE | ug/kg | 480 J | 0.61 U | 98.6 U | 0.88 U | 0.56 UJ | 0.62 U | 0.45 U |
| 107-06-2 | 1,2-DICHLOROETHANE | ug/kg | 92.1 UJ | 0.61 U | 98.6 U | 0.88 U | 0.56 UJ | 0.62 U | 0.48 U |
| 78-87-5 | 1,2-DICHLOROPROPANE | ug/kg | 47.9 UJ | 0.32 U | 51.3 U | 0.46 U | 0.29 UJ | 0.32 U | 0.46 U |
| 541-73-1 | 1,3-DICHLOROBENZENE | ug/kg | 990 | 13.7 | 73 U | 0.65 U | 0.41 UJ | 0.46 U | 0.43 U |
| 106-46-7 | 1,4-DICHLOROBENZENE | ug/kg | 12000 | 4.5 J | 80.9 U | 0.72 U | 0.46 UJ | 0.51 U | 0.32 U |
| 123-91-1 | 1,4-DIOXANE (P-DIOXANE) | ug/kg | R | R | R | R | R | R | R |
| 591-78-6 | 2-HEXANONE | ug/kg | 460 UJ | 3 U | 490 U | 4.4 U | 2.8 UJ | 3.1 U | 1.9 U |
| 67-64-1 | ACETONE | ug/kg | 460 UJ | 3 U | 490 U | 38.5 J | 97.7 | 3.1 U | 0.5 U |
| 71-43-2 | BENZENE | ug/kg | 2800 | 0.46 U | 30100 | 18.6 | 0.43 UJ | 0.47 U | 0.32 U |
| 74-97-5 | BROMOCHLOROMETHANE | ug/kg | 92.1 UJ | 0.61 U | 98.6 U | 0.88 U | 0.56 UJ | 0.62 U | 0.2 U |
| 75-27-4 | BROMODICHLOROMETHANE | ug/kg | 92.1 UJ | 0.61 U | 98.6 U | 0.88 U | 0.56 UJ | 0.62 U | 0.36 U |
| 75-25-2 | BROMOFORM | ug/kg | 140 UJ | 0.9 U | 150 U | 1.3 U | 0.83 UJ | 0.92 U | 0.47 U |
| 74-83-9 | BROMOMETHANE | ug/kg | 180 UJ | 1.2 U | 200 U | 1.8 U | 1.1 UJ | 1.2 U | 0.2 UJ |
| 75-15-0 | CARBON DISULFIDE | ug/kg | 92.1 UJ | 0.61 U | 98.6 U | 65.2 | 0.56 UJ | 0.62 U | 0.2 U |
| 56-23-5 | CARBON TETRACHLORIDE | ug/kg | 92.1 UJ | 0.61 U | 98.6 U | 0.88 U | 0.56 UJ | 0.62 U | 0.2 U |
| 108-90-7 | CHLOROBENZENE | ug/kg | 8600 | 0.61 U | 98.6 U | 0.88 U | 0.56 UJ | 0.62 U | 0.49 U |
| 75-00-3 | CHLOROETHANE | ug/kg | 92.1 UJ | 0.61 UJ | 98.6 U | 0.88 UJ | 0.56 UJ | 0.62 UJ | 0.2 U |
| 67-66-3 | CHLOROFORM | ug/kg | 92.1 UJ | 0.61 U | 98.6 U | 0.88 U | 0.56 UJ | 0.62 U | 0.34 U |
| 74-87-3 | CHLOROMETHANE | ug/kg | 92.1 UJ | 0.61 U | 98.6 U | 0.88 U | 0.56 UJ | 0.62 U | 0.2 U |
| 156-59-2 | CIS-1,2-DICHLOROETHYLENE | ug/kg | 92.1 UJ | 0.61 U | 98.6 U | 0.88 U | 0.56 UJ | 0.62 U | 0.35 U |
| 10061-01-5 | CIS-1,3-DICHLOROPROPENE | ug/kg | 92.1 UJ | 0.61 U | 98.6 U | 0.88 U | 0.56 UJ | 0.62 U | 0.31 U |
| 110-82-7 | CYCLOHEXANE | ug/kg | 92.1 UJ | 0.61 U | 98.6 U | 0.88 U | 0.56 UJ | 0.62 U | 0.2 U |
| 124-48-1 | DIBROMOCHLOROMETHANE | ug/kg | 92.1 UJ | 0.61 U | 98.6 U | 0.88 U | 0.56 UJ | 0.62 U | 0.2 U |
| 75-71-8 | DICHLORODIFLUOROMETHANE | ug/kg | 92.1 UJ | 0.61 U | 98.6 U | 0.88 U | 0.56 UJ | 0.62 U | 0.2 U |
| 100-41-4 | ETHYLBENZENE | ug/kg | 13700 | 0.61 U | 287800 | 98.4 | 0.56 UJ | 0.62 U | 0.2 U |
| 98-82-8 | ISOPROPYLBENZENE (CUMENE) | ug/kg | 3500 | 0.58 U | 94.7 U | 17.9 | 0.54 UJ | 0.6 U | 0.45 U |
| XYLMP | M,P-XYLENE (SUM OF ISOMERS) | ug/kg | 3700 | 0.87 U | 32400 | 7.5 J | 0.81 UJ | 0.9 U | 0.95 U |
| 79-20-9 | METHYL ACETATE | ug/kg | 180 UJ | 1.2 U | 200 U | 1.8 U | 1.1 UJ | 1.2 U | 0.2 U |
| 78-93-3 | METHYL ETHYL KETONE (2-BUTANONE) | ug/kg | 570 UJ | 3.8 U | 610 U | 5.5 U | 11.8 J | 3.9 U | 1.3 U |
| 108-10-1 | METHYL ISOBUTYL KETONE | ug/kg | 460 UJ | 3 U | 490 U | 4.4 U | 5.2 J | 3.1 U | 2.1 U |
| 108-87-2 | METHYLCYCLOHEXANE | ug/kg | 92.1 UJ | 0.61 U | 220 J | 0.88 U | 0.56 UJ | 0.62 U | 0.2 U |
| 75-09-2 | METHYLENE CHLORIDE | ug/kg | 92.1 UJ | 6.5 | 98.6 U | 15.5 | 5.6 U | 6.2 U | 1.6 J |
| 95-47-6 | O-XYLENE (1,2-DIMETHYLBENZENE) | ug/kg | 550 J | 0.61 U | 11000 | 3.8 J | 0.56 UJ | 0.62 U | 0.43 U |
| 100-42-5 | STYRENE | ug/kg | 82.9 UJ | 0.55 U | 88.8 U | 0.79 U | 0.5 UJ | 0.56 U | 0.36 U |
| 1634-04-4 | TERT-BUTYL METHYL ETHER | ug/kg | 92.1 UJ | 1.8 J | 98.6 U | 0.88 U | 0.56 UJ | 2.6 J | 0.35 U |
| 127-18-4 | TETRACHLOROETHYLENE(PCE) | ug/kg | 92.1 UJ | 0.61 U | 98.6 U | 0.88 U | 0.56 UJ | 2.3 J | 0.27 U |
| 108-88-3 | TOLUENE | ug/kg | 140 J | 0.61 U | 990 | 0.88 U | 0.56 UJ | 0.62 U | 0.37 U |
| 156-60-5 | TRANS-1,2-DICHLOROETHENE | ug/kg | 92.1 UJ | 0.61 U | 98.6 U | 0.88 U | 0.56 UJ | 0.62 U | 0.41 U |
| 10061-02-6 | TRANS-1,3-DICHLOROPROPENE | ug/kg | 92.1 UJ | 0.61 U | 98.6 U | 0.88 U | 0.56 UJ | 0.62 U | 0.29 U |
| 79-01-6 | TRICHLOROETHYLENE (TCE) | ug/kg | 92.1 UJ | 0.61 U | 98.6 U | 0.88 U | 0.56 UJ | 0.62 U | 0.28 U |
| 75-69-4 | TRICHLOROFLUOROMETHANE | ug/kg | 92.1 UJ | 0.61 U | 98.6 U | 0.88 U | 0.56 UJ | 0.62 U | 0.35 U |
| 75-01-4 | VINYL CHLORIDE | ug/kg | 92.1 UJ | 0.61 U | 98.6 U | 0.88 U | 0.56 UJ | 0.62 U | 0.34 U |

| Consolidated Edison<br>Farrington Street Holder Station<br>Validated Soil Analytical Data<br>SDG: F1204 | | Location ID:<br>Sample ID:<br>Lab Sample Id:<br>Depth:<br>Source:<br>SDG:<br>Matrix:<br>Sampled:<br>Validated: | SB-54<br>SB-54(19-21)<br>F1204-01<br>19 - 21 FT<br>CTECH<br>F1204<br>SOIL<br>1/17/2014<br>5/21/2014 | SB-54<br>SB-54(28-30)<br>F1204-02<br>28 - 30 FT<br>CTECH<br>F1204<br>SOIL<br>1/17/2014<br>5/21/2014 | SB-55<br>SB-55(15-17)<br>F1204-03<br>15 - 17 FT<br>CTECH<br>F1204<br>SOIL<br>1/17/2014<br>5/21/2014 | SB-55<br>SB-55(17-19)<br>F1204-04<br>17 - 19 FT<br>CTECH<br>F1204<br>SOIL<br>1/17/2014<br>5/21/2014 | SB-56<br>SB-56(7-9)<br>F1204-05<br>7 - 9 FT<br>CTECH<br>F1204<br>SOIL<br>1/20/2014<br>5/21/2014 | SB-56<br>SB-56(29-31)<br>F1204-06<br>29 - 31 FT<br>CTECH<br>F1204<br>SOIL<br>1/20/2014<br>5/21/2014 | FIELDQC<br>FB012114<br>F1204-09<br>-<br>CTECH<br>F1204<br>SOIL<br>1/21/2014<br>5/21/2014 |
|---|---|---|---|---|---|---|---|---|---|
| CAS NO. | COMPOUND | UNITS: | | | | | | | ug/L |
| | SEMIVOLATILES | | | | | | | | |
| 95-94-3 | 1,2,4,5-TETRACHLOROBENZENE | ug/kg | 120 UJ | 16 U | 130 U | 23.2 U | 73.3 UJ | 16.4 U | 0.2 UJ |
| 58-90-2 | 2,3,4,6-TETRACHLOROPHENOL | ug/kg | 120 UJ | 16 U | 130 U | 23.2 U | 73.3 UJ | 16.4 U | 0.2 UJ |
| 95-95-4 | 2,4,5-TRICHLOROPHENOL | ug/kg | 210 UJ | 28.5 U | 230 U | 41.4 U | 130 UJ | 29.3 U | 0.4 U |
| 88-06-2 | 2,4,6-TRICHLOROPHENOL | ug/kg | 93.5 UJ | 12.4 U | 100 U | 18.1 U | 57 UJ | 12.8 U | 0.57 U |
| 120-83-2 | 2,4-DICHLOROPHENOL | ug/kg | 120 UJ | 15.5 U | 130 U | 22.5 U | 71 UJ | 15.9 U | 0.67 U |
| 105-67-9 | 2,4-DIMETHYLPHENOL | ug/kg | 170 UJ | 23 U | 190 U | 33.5 U | 110 UJ | 23.7 U | 0.72 U |
| 51-28-5 | 2,4-DINITROPHENOL | ug/kg | 310 UJ | 41.3 U | 330 U | 60 U | 190 UJ | 42.4 U | 2.1 U |
| 121-14-2 | 2,4-DINITROTOLUENE | ug/kg | 91.7 UJ | 12.2 U | 98.5 U | 17.7 U | 55.9 UJ | 12.5 U | 1 U |
| 606-20-2 | 2,6-DINITROTOLUENE | ug/kg | 120 UJ | 16.6 U | 130 U | 24.1 U | 76.1 UJ | 17 U | 0.32 U |
| 91-58-7 | 2-CHLORONAPHTHALENE | ug/kg | 69.7 UJ | 9.3 U | 74.8 U | 13.5 U | 42.5 UJ | 9.5 U | 0.16 U |
| 95-57-8 | 2-CHLOROPHENOL | ug/kg | 160 UJ | 21.4 U | 170 U | 31.2 U | 98.4 UJ | 22 U | 0.55 U |
| 91-57-6 | 2-METHYLNAPHTHALENE | ug/kg | 350100 J | 10.2 U | 300500 | 210 J | 620 J | 10.5 U | 0.32 U |
| 95-48-7 | 2-METHYLPHENOL (O-CRESOL) | ug/kg | 170 UJ | 22.1 U | 180 U | 32.1 U | 100 UJ | 22.7 U | 0.24 U |
| 88-74-4 | 2-NITROANILINE | ug/kg | 140 UJ | 18 U | 150 U | 26.2 U | 82.8 UJ | 18.5 U | 0.49 U |
| 88-75-5 | 2-NITROPHENOL | ug/kg | 150 UJ | 19.6 U | 160 U | 28.5 U | 90 UJ | 20.2 U | 0.53 U |
| MEPH3MEPH | 3- AND 4- METHYLPHENOL (TOTAL) | ug/kg | 160 UJ | 21.1 U | 170 U | 30.6 U | 96.7 UJ | 21.7 U | 0.38 U |
| 91-94-1 | 3,3'-DICHLOROBENZIDINE | ug/kg | 200 UJ | 26.1 U | 210 U | 37.9 U | 120 UJ | 26.8 U | 1 U |
| 99-09-2 | 3-NITROANILINE | ug/kg | 200 UJ | 26.1 U | 210 U | 37.9 U | 120 UJ | 26.8 U | 1 U |
| 534-52-1 | 4,6-DINITRO-2-METHYLPHENOL | ug/kg | 180 UJ | 23.3 U | 190 U | 33.8 U | 110 UJ | 23.9 U | 0.75 U |
| 101-55-3 | 4-BROMOPHENYL PHENYL ETHER | ug/kg | 59.6 UJ | 7.9 U | 64 U | 11.5 U | 36.4 UJ | 8.1 U | 0.23 U |
| 59-50-7 | 4-CHLORO-3-METHYLPHENOL | ug/kg | 140 UJ | 18 U | 150 U | 26.2 U | 82.8 UJ | 18.5 U | 0.4 U |
| 106-47-8 | 4-CHLOROANILINE | ug/kg | 220 UJ | 28.6 U | 230 U | 41.6 U | 130 UJ | 29.4 U | 1 U |
| 7005-72-3 | 4-CHLOROPHENYL PHENYL ETHER | ug/kg | 170 UJ | 22.1 U | 180 U | 32.1 U | 100 UJ | 22.7 U | 0.21 U |
| 100-01-6 | 4-NITROANILINE | ug/kg | 400 UJ | 52.9 U | 430 U | 76.9 U | 240 UJ | 54.3 U | 1.4 U |
| 100-02-7 | 4-NITROPHENOL | ug/kg | 570 UJ | 75.4 U | 610 U | 110 U | 350 UJ | 77.5 U | 2 U |
| 83-32-9 | ACENAPHTHENE | ug/kg | 71000 J | 11.5 U | 122500 | 16.6 U | 52.6 UJ | 11.8 U | 0.21 U |
| 208-96-8 | ACENAPHTHYLENE | ug/kg | 15500 J | 10.2 U | 10500 | 14.9 U | 47 UJ | 10.5 U | 0.71 U |
| 98-86-2 | ACETOPHENONE | ug/kg | 93.5 UJ | 12.4 U | 100 U | 18.1 U | 57 UJ | 12.8 U | 0.14 U |
| 120-12-7 | ANTHRACENE | ug/kg | 50000 J | 8.3 U | 42000 | 12 U | 38 UJ | 8.5 U | 0.16 U |
| 1912-24-9 | ATRAZINE | ug/kg | 160 UJ | 21.4 U | 170 U | 31.2 U | 98.4 UJ | 22 U | 0.4 U |
| 100-52-7 | BENZALDEHYDE | ug/kg | 160 UJ | 21.2 U | 170 U | 30.8 U | 97.3 UJ | 21.8 U | 0.78 UJ |
| 56-55-3 | BENZO(A)ANTHRACENE | ug/kg | 25700 J | 19.4 U | 19100 | 28.2 U | 88.9 UJ | 19.9 U | 0.16 U |
| 50-32-8 | BENZO(A)PYRENE | ug/kg | 14800 J | 8.8 U | 12200 | 12.8 U | 40.3 UJ | 9 U | 0.14 U |
| 205-99-2 | BENZO(B)FLUORANTHENE | ug/kg | 10400 J | 13.3 U | 9000 | 19.3 U | 61 UJ | 13.6 U | 0.29 U |
| 191-24-2 | BENZO(G,H,I)PERYLENE | ug/kg | 5500 J | 16.4 U | 3900 | 23.9 U | 75.5 UJ | 16.9 U | 0.29 U |
| 207-08-9 | BENZO(K)FLUORANTHENE | ug/kg | 6200 J | 19.1 U | 3500 | 27.8 U | 87.8 UJ | 19.7 U | 0.18 U |
| 85-68-7 | BENZYL BUTYL PHTHALATE | ug/kg | 150 UJ | 19.5 U | 160 U | 28.3 U | 89.5 UJ | 20 U | 0.19 U |
| 92-52-4 | BIPHENYL (DIPHENYL) | ug/kg | 1900 J | 15.4 U | 20300 | 22.3 U | 70.5 UJ | 15.8 U | 0.15 U |
| 111-91-1 | BIS(2-CHLOROETHOXY) METHANE | ug/kg | 180 UJ | 23.4 U | 190 U | 34 U | 110 UJ | 24 U | 0.56 U |
| 111-44-4 | BIS(2-CHLOROETHYL) ETHER | ug/kg | 150 UJ | 19.5 U | 160 U | 28.3 U | 89.5 UJ | 20 U | 0.56 U |
| 108-60-1 | BIS(2-CHLOROISOPROPYL) ETHER | ug/kg | 130 UJ | 16.8 U | 140 U | 24.4 U | 77.2 UJ | 17.3 U | 0.17 U |
| 117-81-7 | BIS(2-ETHYLHEXYL) PHTHALATE | ug/kg | 110 UJ | 14.4 U | 120 U | 20.9 U | 66 UJ | 14.8 U | 0.16 U |
| 105-60-2 | CAPROLACTAM | ug/kg | 140 UJ | 18.9 U | 150 U | 27.4 U | 570 J | 19.4 U | 1 U |
| 86-74-8 | CARBAZOLE | ug/kg | 66.9 UJ | 8.9 U | 810 J | 12.9 U | 40.8 UJ | 9.1 U | 0.22 U |
| 218-01-9 | CHRYSENE | ug/kg | 20900 J | 18.4 U | 17600 | 26.7 U | 84.4 UJ | 18.9 U | 0.18 U |
| 53-70-3 | DIBENZ(A,H)ANTHRACENE | ug/kg | 88 UJ | 11.7 U | 1400 J | 17 U | 53.7 UJ | 12 U | 0.42 U |
| 132-64-9 | DIBENZOFURAN | ug/kg | 6700 J | 15.8 U | 6400 | 23 U | 72.7 UJ | 16.3 U | 0.24 U |
| 84-66-2 | DIETHYL PHTHALATE | ug/kg | 47.7 UJ | 6.3 U | 51.2 U | 9.2 U | 29.1 UJ | 6.5 U | 0.38 U |
| 131-11-3 | DIMETHYL PHTHALATE | ug/kg | 82.5 UJ | 320 J | 88.6 U | 460 J | 50.3 UJ | 380 J | 0.22 U |
| 84-74-2 | DI-N-BUTYL PHTHALATE | ug/kg | 240 UJ | 31.9 U | 260 U | 46.4 U | 150 UJ | 32.8 U | 1 U |
| 117-84-0 | DI-N-OCTYLPHTHALATE | ug/kg | 34.8 UJ | 4.6 U | 37.4 U | 6.7 U | 21.3 UJ | 4.8 U | 0.52 U |
| 206-44-0 | FLUORANTHENE | ug/kg | 41400 J | 8.2 U | 32900 | 11.9 U | 560 J | 8.4 U | 0.4 U |
| 86-73-7 | FLUORENE | ug/kg | 62000 J | 15.4 U | 66500 | 22.3 U | 70.5 UJ | 15.8 U | 0.31 U |
| 118-74-1 | HEXACHLOROBENZENE | ug/kg | 120 UJ | 16.6 U | 130 U | 24.1 U | 76.1 UJ | 17 U | 0.18 U |
| 87-68-3 | HEXACHLOROBUTADIENE | ug/kg | 110 UJ | 14.7 U | 120 U | 21.4 U | 67.7 UJ | 15.1 U | 0.25 U |
| 77-47-4 | HEXACHLOROCYCLOPENTADIENE | ug/kg | 74.3 UJ | 9.9 U | 79.7 U | 14.3 U | 45.3 UJ | 10.1 U | 0.24 U |
| 67-72-1 | HEXACHLOROETHANE | ug/kg | 140 UJ | 18.2 U | 150 U | 26.4 U | 83.3 UJ | 18.7 U | 0.25 U |
| 193-39-5 | INDENO(1,2,3-C,D)PYRENE | ug/kg | 5000 J | 13.5 U | 3500 | 19.7 U | 62.1 UJ | 13.9 U | 0.15 U |
| 78-59-1 | ISOPHORONE | ug/kg | 100 UJ | 13.4 U | 110 U | 19.5 U | 61.5 UJ | 13.8 U | 0.3 U |
| 91-20-3 | NAPHTHALENE | ug/kg | 435300 J | 14 U | 372700 | 310 J | 730 J | 14.4 U | 2.6 J |
| 98-95-3 | NITROBENZENE | ug/kg | 120 UJ | 15.4 U | 120 U | 22.3 U | 70.5 UJ | 15.8 U | 0.69 U |
| 621-64-7 | N-NITROSODI-N-PROPYLAMINE | ug/kg | 150 UJ | 20.5 U | 170 U | 29.8 U | 94 UJ | 21 U | 0.2 U |
| 86-30-6 | N-NITROSODIPHENYLAMINE | ug/kg | 73.4 UJ | 9.7 U | 7300 | 14.2 U | 44.7 UJ | 10 U | 0.61 U |
| 87-86-5 | PENTACHLOROPHENOL | ug/kg | 210 UJ | 27.8 U | 220 U | 40.4 U | 130 UJ | 28.5 U | 1 UJ |
| 85-01-8 | PHENANTHRENE | ug/kg | 162500 J | 11 U | 143000 | 15.9 U | 640 J | 11.3 U | 0.26 U |
| 108-95-2 | PHENOL | ug/kg | 70.6 UJ | 9.4 U | 75.8 U | 13.6 U | 43.1 UJ | 9.6 U | 0.21 U |
| 129-00-0 | PYRENE | ug/kg | 61200 J | 9.7 U | 47400 | 14.2 U | 590 J | 10 U | 0.2 U |

| Consolidated Edison<br>Farrington Street Holder Station<br>Validated Soil Analytical Data<br>SDG: F1204 | | Location ID:<br>Sample ID:<br>Lab Sample Id:<br>Depth:<br>Source:<br>SDG:<br>Matrix:<br>Sampled:<br>Validated: | SB-54<br>SB-54(19-21)<br>F1204-01<br>19 - 21 FT<br>CTECH<br>F1204<br>SOIL<br>1/17/2014<br>5/21/2014 | SB-54<br>SB-54(28-30)<br>F1204-02<br>28 - 30 FT<br>CTECH<br>F1204<br>SOIL<br>1/17/2014<br>5/21/2014 | SB-55<br>SB-55(15-17)<br>F1204-03<br>15 - 17 FT<br>CTECH<br>F1204<br>SOIL<br>1/17/2014<br>5/21/2014 | SB-55<br>SB-55(17-19)<br>F1204-04<br>17 - 19 FT<br>CTECH<br>F1204<br>SOIL<br>1/17/2014<br>5/21/2014 | SB-56<br>SB-56(7-9)<br>F1204-05<br>7 - 9 FT<br>CTECH<br>F1204<br>SOIL<br>1/20/2014<br>5/21/2014 | SB-56<br>SB-56(29-31)<br>F1204-06<br>29 - 31 FT<br>CTECH<br>F1204<br>SOIL<br>1/20/2014<br>5/21/2014 | FIELDQC<br>FB012114<br>F1204-09<br>-<br>CTECH<br>F1204<br>SOIL<br>1/21/2014<br>5/21/2014 |
|---|---|---|---|---|---|---|---|---|---|
| CAS NO. | COMPOUND | UNITS: | | | | | | | ug/L |
| | INORGANICS | | | | | | | | |
| 7429-90-5 | ALUMINUM | mg/kg | 13200 J | 2200 J | 4000 J | 15200 J | 5900 J | 6100 J | 32.1 J |
| 7440-36-0 | ANTIMONY | mg/kg | 0.872 U | 0.585 U | 2.09 J | 0.829 U | 0.539 U | 0.587 U | 8 U |
| 7440-38-2 | ARSENIC | mg/kg | 2.7 | 0.581 J | 5.96 | 10.45 | 6.87 | 1.24 | 4.2 U |
| 7440-39-3 | BARIUM | mg/kg | 83.3 J | 11.2 J | 53.9 J | 32.7 J | 54.2 J | 40.1 J | 4 U |
| 7440-41-7 | BERYLLIUM | mg/kg | 0.115 J | 0.063 U | 0.103 U | 0.205 J | 0.058 U | 0.063 U | 0.7 U |
| 7440-43-9 | CADMIUM | mg/kg | 1.24 | 0.208 J | 0.737 | 2 | 1.79 | 0.876 | 0.5 U |
| 7440-70-2 | CALCIUM | mg/kg | 3900 J | 458 J | 5800 J | 1900 J | 13500 J | 801 J | 76.8 J |
| 7440-47-3 | CHROMIUM, TOTAL | mg/kg | 34 J | 17.2 J | 62.2 J | 34.7 J | 26.5 J | 23.5 J | 1.1 U |
| 7440-48-4 | COBALT | mg/kg | 11.8 | 2.29 | 3.6 | 15.4 | 7.38 | 9.63 | 5.8 U |
| 7440-50-8 | COPPER | mg/kg | 20.2 J | 2.68 J | 22.9 J | 10.27 J | 28.8 J | 14.7 J | 2 U |
| 7439-89-6 | IRON | mg/kg | 22500 | 6500 | 13900 | 41200 | 22800 | 20600 | 50.1 |
| 7439-92-1 | LEAD | mg/kg | 53.6 | 2.37 | 183 | 14.4 | 111 | 2.83 | 2.6 U |
| 7439-95-4 | MAGNESIUM | mg/kg | 5200 | 1200 | 2100 | 8100 | 4600 | 2500 | 32.5 U |
| 7439-96-5 | MANGANESE | mg/kg | 208 J | 170 J | 109 J | 498 J | 212 J | 325 J | 1.7 U |
| 7439-97-6 | MERCURY | mg/kg | 0.036 | 0.005 U | 0.058 | 0.018 | 0.17 | 0.006 U | 0.1 U |
| 7440-02-0 | NICKEL | mg/kg | 27.7 | 7.35 | 36.5 | 32.8 | 18.8 | 23.4 | 4.2 U |
| 7440-09-7 | POTASSIUM | mg/kg | 3500 | 614 | 728 | 3900 | 760 | 2100 | 38.8 U |
| 7782-49-2 | SELENIUM | mg/kg | 1.84 | 0.556 J | 2.25 | 2.86 | 1.73 | 1.36 | 4.8 U |
| 7440-22-4 | SILVER | mg/kg | 0.234 U | 0.157 U | 0.257 U | 0.222 U | 0.144 U | 0.157 U | 1.5 U |
| 7440-23-5 | SODIUM | mg/kg | 1700 | 365 | 1500 | 2000 | 177 | 131 | 186 J |
| 7440-28-0 | THALLIUM | mg/kg | 0.421 U | 0.282 U | 0.463 U | 0.4 U | 0.26 U | 0.283 U | 2.4 U |
| 7440-62-2 | VANADIUM | mg/kg | 39.7 J | 12.2 J | 19.8 J | 52.6 J | 32 J | 33.3 J | 6.1 U |
| 7440-66-6 | ZINC | mg/kg | 87.4 | 12.9 | 177 | 100 | 322 | 31.4 | 6.5 U |
| 57-12-5 | CYANIDE | mg/kg | 0.21 J | 0.04 U | 0.065 U | 0.24 J | 0.788 | 0.092 J | 3 U |

| Consolidated Edison<br>Farrington Street Holder Station<br>Validated Soil Analytical Data<br>SDG: F1466 | | Location ID:<br>Sample ID:<br>Lab Sample Id:<br>Depth:<br>Source:<br>SDG:<br>Matrix:<br>Sampled:<br>Validated: | CSB-48D<br>CSB-48D(25-30)<br>F1466-06<br>25 - 30 FT<br>CTECH<br>F1466<br>SOIL<br>2/21/2014<br>5/21/2014 | Dup of CSB-48D(25-30)<br>CSB-48D<br>CSB-148(25-30)<br>F1466-07<br>25 - 30 FT<br>CTECH<br>F1466<br>SOIL<br>2/21/2014<br>5/21/2014 | CSB-48D<br>CSB-48D(42-44)<br>F1466-03<br>42 - 44 FT<br>CTECH<br>F1466<br>SOIL<br>2/21/2014<br>5/21/2014 | SB-55D<br>SB-55D(25-26)<br>F1466-02<br>25 - 26 FT<br>CTECH<br>F1466<br>SOIL<br>2/21/2014<br>5/21/2014 | SB-55D<br>SB-55D(40-42)<br>F1466-01<br>40 - 42 FT<br>CTECH<br>F1466<br>SOIL<br>2/21/2014<br>5/21/2014 |
|---|---|---|---|---|---|---|---|
| CAS NO. | COMPOUND | UNITS: | | | | | |
| | VOLATILES | | | | | | |
| 71-55-6 | 1,1,1-TRICHLOROETHANE | ug/kg | 82.5 U | 82.1 U | 0.61 U | 0.61 U | 0.61 U |
| 79-34-5 | 1,1,2,2-TETRACHLOROETHANE | ug/kg | 75.9 U | 75.5 U | 0.56 U | 0.56 U | 0.56 U |
| 76-13-1 | 1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE | ug/kg | 82.5 U | 82.1 U | 0.61 U | 0.61 U | 0.61 U |
| 79-00-5 | 1,1,2-TRICHLOROETHANE | ug/kg | 150 U | 150 U | 1.1 U | 1.1 U | 1.1 U |
| 75-34-3 | 1,1-DICHLOROETHANE | ug/kg | 82.5 U | 82.1 U | 0.61 U | 0.61 U | 0.61 U |
| 75-35-4 | 1,1-DICHLOROETHENE | ug/kg | 82.5 U | 82.1 U | 0.61 U | 0.61 U | 0.61 U |
| 87-61-6 | 1,2,3-TRICHLOROBENZENE | ug/kg | 82.5 U | 82.1 U | 0.61 U | 0.61 U | 0.61 U |
| 120-82-1 | 1,2,4-TRICHLOROBENZENE | ug/kg | 82.5 U | 82.1 U | 0.61 U | 0.61 U | 0.61 U |
| 96-12-8 | 1,2-DIBROMO-3-CHLOROPROPANE | ug/kg | 140 U | 140 U | 1.1 U | 1.1 U | 1.1 U |
| 106-93-4 | 1,2-DIBROMOETHANE | ug/kg | 82.5 U | 82.1 U | 0.61 U | 0.61 U | 0.61 U |
| 95-50-1 | 1,2-DICHLOROBENZENE | ug/kg | 82.5 U | 82.1 U | 0.61 U | 0.61 U | 0.61 U |
| 107-06-2 | 1,2-DICHLOROETHANE | ug/kg | 82.5 U | 82.1 U | 0.61 U | 0.61 U | 0.61 U |
| 78-87-5 | 1,2-DICHLOROPROPANE | ug/kg | 42.9 U | 42.7 U | 0.32 U | 0.32 U | 0.32 U |
| 541-73-1 | 1,3-DICHLOROBENZENE | ug/kg | 61.1 U | 60.8 U | 0.45 U | 0.45 U | 0.45 U |
| 106-46-7 | 1,4-DICHLOROBENZENE | ug/kg | 67.7 U | 67.3 U | 0.5 U | 0.5 U | 0.5 U |
| 123-91-1 | 1,4-DIOXANE (P-DIOXANE) | ug/kg | R | R | R | R | R |
| 591-78-6 | 2-HEXANONE | ug/kg | 410 U | 410 U | 3.1 U | 3 U | 3 U |
| 67-64-1 | ACETONE | ug/kg | 410 U | 410 U | 3.1 U | 3 U | 3 U |
| 71-43-2 | BENZENE | ug/kg | 9000 | 15700 | 0.46 U | 0.46 U | 14.9 |
| 74-97-5 | BROMOCHLOROMETHANE | ug/kg | 82.5 U | 82.1 U | 0.61 U | 0.61 U | 0.61 U |
| 75-27-4 | BROMODICHLOROMETHANE | ug/kg | 82.5 U | 82.1 U | 0.61 U | 0.61 U | 0.61 U |
| 75-25-2 | BROMOFORM | ug/kg | 120 U | 120 U | 0.9 U | 0.9 U | 0.9 U |
| 74-83-9 | BROMOMETHANE | ug/kg | 170 U | 160 U | 1.2 UJ | 1.2 UJ | 1.2 UJ |
| 75-15-0 | CARBON DISULFIDE | ug/kg | 82.5 UJ | 82.1 UJ | 0.61 U | 0.61 U | 0.61 U |
| 56-23-5 | CARBON TETRACHLORIDE | ug/kg | 82.5 U | 82.1 U | 0.61 U | 0.61 U | 0.61 U |
| 108-90-7 | CHLOROBENZENE | ug/kg | 82.5 U | 82.1 U | 0.61 U | 0.61 U | 0.61 U |
| 75-00-3 | CHLOROETHANE | ug/kg | 82.5 U | 82.1 U | 0.61 UJ | 0.61 UJ | 0.61 UJ |
| 67-66-3 | CHLOROFORM | ug/kg | 82.5 U | 82.1 U | 0.61 U | 0.61 U | 0.61 U |
| 74-87-3 | CHLOROMETHANE | ug/kg | 82.5 U | 82.1 U | 0.61 U | 0.61 U | 0.61 U |
| 156-59-2 | CIS-1,2-DICHLOROETHYLENE | ug/kg | 82.5 U | 82.1 U | 0.61 U | 0.61 U | 0.61 U |
| 10061-01-5 | CIS-1,3-DICHLOROPROPENE | ug/kg | 82.5 U | 82.1 U | 0.61 U | 0.61 U | 0.61 U |
| 110-82-7 | CYCLOHEXANE | ug/kg | 82.5 U | 82.1 U | 0.61 U | 0.61 U | 0.61 U |
| 124-48-1 | DIBROMOCHLOROMETHANE | ug/kg | 82.5 U | 82.1 U | 0.61 U | 0.61 U | 0.61 U |
| 75-71-8 | DICHLORODIFLUOROMETHANE | ug/kg | 82.5 U | 82.1 U | 0.61 U | 0.61 U | 0.61 U |
| 100-41-4 | ETHYLBENZENE | ug/kg | 30200 | 42500 | 0.61 U | 4.8 J | 68.2 |
| 98-82-8 | ISOPROPYLBENZENE (CUMENE) | ug/kg | 2000 | 2900 | 0.59 U | 0.59 U | 6.6 |
| XYLMP | M,P-XYLENE (SUM OF ISOMERS) | ug/kg | 16800 | 21700 | 0.88 U | 2.8 J | 36.3 |
| 79-20-9 | METHYL ACETATE | ug/kg | 170 U | 160 U | 1.2 U | 1.2 U | 1.2 U |
| 78-93-3 | METHYL ETHYL KETONE (2-BUTANONE) | ug/kg | 510 U | 510 U | 3.8 U | 3.8 U | 3.8 U |
| 108-10-1 | METHYL ISOBUTYL KETONE | ug/kg | 410 U | 410 U | 3.1 U | 3 U | 3.8 J |
| 108-87-2 | METHYLCYCLOHEXANE | ug/kg | 82.5 U | 82.1 U | 0.61 U | 0.61 U | 0.61 U |
| 75-09-2 | METHYLENE CHLORIDE | ug/kg | 82.5 U | 82.1 U | 0.61 U | 0.61 U | 0.61 U |
| 95-47-6 | O-XYLENE (1,2-DIMETHYLBENZENE) | ug/kg | 1300 | 1900 | 0.61 U | 0.61 U | 3.6 J |
| 100-42-5 | STYRENE | ug/kg | 74.3 U | 73.9 U | 0.55 U | 0.55 U | 4.1 J |
| 1634-04-4 | TERT-BUTYL METHYL ETHER | ug/kg | 82.5 U | 82.1 U | 0.61 U | 0.61 U | 1.5 J |
| 127-18-4 | TETRACHLOROETHYLENE(PCE) | ug/kg | 82.5 U | 82.1 U | 0.61 U | 0.61 U | 0.61 U |
| 108-88-3 | TOLUENE | ug/kg | 210 J | 340 J | 1.5 J | 1.5 J | 3.9 J |
| 156-60-5 | TRANS-1,2-DICHLOROETHENE | ug/kg | 82.5 U | 82.1 U | 0.61 U | 0.61 U | 0.61 U |
| 10061-02-6 | TRANS-1,3-DICHLOROPROPENE | ug/kg | 82.5 U | 82.1 U | 0.61 U | 0.61 U | 0.61 U |
| 79-01-6 | TRICHLOROETHYLENE (TCE) | ug/kg | 82.5 U | 82.1 U | 0.61 U | 0.61 U | 0.61 U |
| 75-69-4 | TRICHLOROFLUOROMETHANE | ug/kg | 82.5 U | 82.1 U | 0.61 U | 0.61 U | 0.61 U |
| 75-01-4 | VINYL CHLORIDE | ug/kg | 82.5 U | 82.1 U | 0.61 U | 0.61 U | 0.61 U |

| Consolidated Edison<br>Farrington Street Holder Station<br>Validated Soil Analytical Data<br>SDG: F1466 | | Location ID:<br>Sample ID:<br>Lab Sample Id:<br>Depth:<br>Source:<br>SDG:<br>Matrix:<br>Sampled:<br>Validated: | CSB-48D<br>CSB-48D(25-30)<br>F1466-06<br>25 - 30 FT<br>CTECH<br>F1466<br>SOIL<br>2/21/2014<br>5/21/2014 | Dup of CSB-48D(25-30)<br>CSB-48D<br>CSB-148(25-30)<br>F1466-07<br>25 - 30 FT<br>CTECH<br>F1466<br>SOIL<br>2/21/2014<br>5/21/2014 | CSB-48D<br>CSB-48D(42-44)<br>F1466-03<br>42 - 44 FT<br>CTECH<br>F1466<br>SOIL<br>2/21/2014<br>5/21/2014 | SB-55D<br>SB-55D(25-26)<br>F1466-02<br>25 - 26 FT<br>CTECH<br>F1466<br>SOIL<br>2/21/2014<br>5/21/2014 | SB-55D<br>SB-55D(40-42)<br>F1466-01<br>40 - 42 FT<br>CTECH<br>F1466<br>SOIL<br>2/21/2014<br>5/21/2014 |
|---|---|---|---|---|---|---|---|
| CAS NO. | COMPOUND | UNITS: | | | | | |
| | SEMIVOLATILES | | | | | | |
| 95-94-3 | 1,2,4,5-TETRACHLOROBENZENE | ug/kg | 21.6 U | 21.5 U | 16 U | 15.9 U | 15.8 U |
| 58-90-2 | 2,3,4,6-TETRACHLOROPHENOL | ug/kg | 21.6 U | 21.5 U | 16 U | 15.9 U | 15.8 U |
| 95-95-4 | 2,4,5-TRICHLOROPHENOL | ug/kg | 38.5 U | 38.4 U | 28.5 U | 28.3 U | 28.3 U |
| 88-06-2 | 2,4,6-TRICHLOROPHENOL | ug/kg | 16.8 U | 16.7 U | 12.4 U | 12.4 U | 12.3 U |
| 120-83-2 | 2,4-DICHLOROPHENOL | ug/kg | 20.9 U | 20.8 U | 15.5 U | 15.4 U | 15.3 U |
| 105-67-9 | 2,4-DIMETHYLPHENOL | ug/kg | 31.1 U | 31 U | 23 U | 22.9 U | 22.8 U |
| 51-28-5 | 2,4-DINITROPHENOL | ug/kg | 55.8 UJ | 55.6 UJ | 41.3 UJ | 41.1 UJ | 40.9 UJ |
| 121-14-2 | 2,4-DINITROTOLUENE | ug/kg | 16.5 UJ | 16.4 UJ | 12.2 UJ | 12.1 UJ | 12.1 UJ |
| 606-20-2 | 2,6-DINITROTOLUENE | ug/kg | 22.4 UJ | 22.3 UJ | 16.6 UJ | 16.5 UJ | 16.4 UJ |
| 91-58-7 | 2-CHLORONAPHTHALENE | ug/kg | 12.5 U | 12.5 U | 9.3 U | 9.2 U | 9.2 U |
| 95-57-8 | 2-CHLOROPHENOL | ug/kg | 29 U | 28.9 U | 21.4 U | 21.3 U | 21.3 U |
| 91-57-6 | 2-METHYLNAPHTHALENE | ug/kg | 2300 | 1900 | 10.2 U | 10.2 U | 10.1 U |
| 95-48-7 | 2-METHYLPHENOL (O-CRESOL) | ug/kg | 29.8 U | 29.7 U | 22.1 U | 21.9 U | 21.9 U |
| 88-74-4 | 2-NITROANILINE | ug/kg | 24.3 U | 24.3 U | 18 U | 17.9 U | 17.9 U |
| 88-75-5 | 2-NITROPHENOL | ug/kg | 26.5 U | 26.4 U | 19.6 U | 19.5 U | 19.4 U |
| MEPH3MEPH | 3- AND 4- METHYLPHENOL (TOTAL) | ug/kg | 28.5 U | 28.4 U | 21.1 U | 21 U | 20.9 U |
| 91-94-1 | 3,3'-DICHLOROBENZIDINE | ug/kg | 35.2 U | 35.1 U | 26.1 U | 25.9 U | 25.8 U |
| 99-09-2 | 3-NITROANILINE | ug/kg | 35.2 U | 35.1 U | 26.1 U | 25.9 U | 25.8 U |
| 534-52-1 | 4,6-DINITRO-2-METHYLPHENOL | ug/kg | 31.4 UJ | 31.4 UJ | 23.3 UJ | 23.1 UJ | 23.1 UJ |
| 101-55-3 | 4-BROMOPHENYL PHENYL ETHER | ug/kg | 10.7 U | 10.7 U | 7.9 U | 7.9 U | 7.9 U |
| 59-50-7 | 4-CHLORO-3-METHYLPHENOL | ug/kg | 24.3 U | 24.3 U | 18 U | 17.9 U | 17.9 U |
| 106-47-8 | 4-CHLOROANILINE | ug/kg | 38.7 U | 38.6 U | 28.6 U | 28.5 U | 28.4 U |
| 7005-72-3 | 4-CHLOROPHENYL PHENYL ETHER | ug/kg | 29.8 U | 29.7 U | 22.1 U | 21.9 U | 21.9 U |
| 100-01-6 | 4-NITROANILINE | ug/kg | 71.4 U | 71.2 U | 52.9 U | 52.6 U | 52.4 U |
| 100-02-7 | 4-NITROPHENOL | ug/kg | 100 U | 100 U | 75.4 U | 75 U | 74.8 U |
| 83-32-9 | ACENAPHTHENE | ug/kg | 480 J | 360 J | 11.5 U | 11.4 U | 11.4 U |
| 208-96-8 | ACENAPHTHYLENE | ug/kg | 13.8 U | 13.8 U | 10.2 U | 10.2 U | 10.1 U |
| 98-86-2 | ACETOPHENONE | ug/kg | 16.8 U | 16.7 U | 12.4 U | 12.4 U | 12.3 U |
| 120-12-7 | ANTHRACENE | ug/kg | 240 J | 180 J | 8.3 U | 8.2 U | 8.2 U |
| 1912-24-9 | ATRAZINE | ug/kg | 29 U | 28.9 U | 21.4 U | 21.3 U | 21.3 U |
| 100-52-7 | BENZALDEHYDE | ug/kg | 28.6 UJ | 28.6 UJ | 21.2 UJ | 21.1 UJ | 21 UJ |
| 56-55-3 | BENZO(A)ANTHRACENE | ug/kg | 26.2 U | 26.1 U | 19.4 U | 19.3 U | 19.2 U |
| 50-32-8 | BENZO(A)PYRENE | ug/kg | 11.8 U | 11.8 U | 8.8 U | 8.7 U | 8.7 U |
| 205-99-2 | BENZO(B)FLUORANTHENE | ug/kg | 17.9 U | 17.9 U | 13.3 U | 13.2 U | 13.2 U |
| 191-24-2 | BENZO(G,H,I)PERYLENE | ug/kg | 22.2 U | 22.2 U | 16.4 U | 16.3 U | 16.3 U |
| 207-08-9 | BENZO(K)FLUORANTHENE | ug/kg | 25.8 U | 25.8 U | 19.1 U | 19 U | 19 U |
| 85-68-7 | BENZYL BUTYL PHTHALATE | ug/kg | 26.3 U | 26.3 U | 19.5 U | 19.4 U | 19.3 U |
| 92-52-4 | BIPHENYL (DIPHENYL) | ug/kg | 130 J | 20.7 U | 15.4 U | 15.3 U | 15.2 U |
| 111-91-1 | BIS(2-CHLOROETHOXY) METHANE | ug/kg | 31.6 U | 31.5 U | 23.4 U | 23.3 U | 23.2 U |
| 111-44-4 | BIS(2-CHLOROETHYL) ETHER | ug/kg | 26.3 U | 26.3 U | 19.5 U | 19.4 U | 19.3 U |
| 108-60-1 | BIS(2-CHLOROISOPROPYL) ETHER | ug/kg | 22.7 U | 22.7 U | 16.8 U | 16.7 U | 16.7 U |
| 117-81-7 | BIS(2-ETHYLHEXYL) PHTHALATE | ug/kg | 19.4 U | 19.4 U | 14.4 U | 14.3 U | 110 J |
| 105-60-2 | CAPROLACTAM | ug/kg | 25.5 U | 25.4 U | 18.9 U | 18.8 U | 18.7 U |
| 86-74-8 | CARBAZOLE | ug/kg | 12 U | 12 U | 8.9 U | 8.8 U | 8.8 U |
| 218-01-9 | CHRYSENE | ug/kg | 24.8 U | 24.8 U | 18.4 U | 18.3 U | 18.2 U |
| 53-70-3 | DIBENZ(A,H)ANTHRACENE | ug/kg | 15.8 U | 15.8 U | 11.7 U | 11.6 U | 11.6 U |
| 132-64-9 | DIBENZOFURAN | ug/kg | 21.4 U | 21.3 U | 15.8 U | 15.7 U | 15.7 U |
| 84-66-2 | DIETHYL PHTHALATE | ug/kg | 8.6 U | 8.5 U | 6.3 U | 6.3 U | 6.3 U |
| 131-11-3 | DIMETHYL PHTHALATE | ug/kg | 1500 | 1200 | 1100 | 1300 | 1000 |
| 84-74-2 | DI-N-BUTYL PHTHALATE | ug/kg | 43.1 U | 43 U | 31.9 U | 31.7 U | 31.6 U |
| 117-84-0 | DI-N-OCTYLPHTHALATE | ug/kg | 6.3 U | 6.2 U | 4.6 U | 4.6 U | 4.6 U |
| 206-44-0 | FLUORANTHENE | ug/kg | 170 J | 130 J | 8.2 U | 8.1 U | 8.1 U |
| 86-73-7 | FLUORENE | ug/kg | 340 J | 260 J | 15.4 U | 15.3 U | 15.2 U |
| 118-74-1 | HEXACHLOROBENZENE | ug/kg | 22.4 U | 22.3 U | 16.6 U | 16.5 U | 16.4 U |
| 87-68-3 | HEXACHLOROBUTADIENE | ug/kg | 19.9 U | 19.9 U | 14.7 U | 14.7 U | 14.6 U |
| 77-47-4 | HEXACHLOROCYCLOPENTADIENE | ug/kg | 13.3 U | 13.3 U | 9.9 U | 9.8 U | 9.8 U |
| 67-72-1 | HEXACHLOROETHANE | ug/kg | 24.5 U | 24.5 U | 18.2 U | 18 U | 18 U |
| 193-39-5 | INDENO(1,2,3-C,D)PYRENE | ug/kg | 18.3 U | 18.2 U | 13.5 U | 13.4 U | 13.4 U |
| 78-59-1 | ISOPHORONE | ug/kg | 18.1 U | 18.1 U | 13.4 U | 13.3 U | 13.3 U |
| 91-20-3 | NAPHTHALENE | ug/kg | 6400 | 4300 | 14 U | 13.9 U | 13.9 U |
| 98-95-3 | NITROBENZENE | ug/kg | 20.7 U | 20.7 U | 15.4 U | 15.3 U | 15.2 U |
| 621-64-7 | N-NITROSODI-N-PROPYLAMINE | ug/kg | 27.6 U | 27.6 U | 20.5 U | 20.3 U | 20.3 U |
| 86-30-6 | N-NITROSODIPHENYLAMINE | ug/kg | 13.2 U | 13.1 U | 9.7 U | 9.7 U | 9.7 U |
| 87-86-5 | PENTACHLOROPHENOL | ug/kg | 37.5 U | 37.4 U | 27.8 U | 27.6 U | 27.5 U |
| 85-01-8 | PHENANTHRENE | ug/kg | 760 | 600 | 11 U | 10.9 U | 10.9 U |
| 108-95-2 | PHENOL | ug/kg | 12.7 U | 12.6 U | 9.4 U | 9.3 U | 9.3 U |
| 129-00-0 | PYRENE | ug/kg | 260 J | 210 J | 9.7 U | 9.7 U | 9.7 U |

| Consolidated Edison<br>Farrington Street Holder Station<br>Validated Soil Analytical Data<br>SDG: F1466 | | Location ID:<br>Sample ID:<br>Lab Sample Id:<br>Depth:<br>Source:<br>SDG:<br>Matrix:<br>Sampled:<br>Validated: | CSB-48D<br>CSB-48D(25-30)<br>F1466-06<br>25 - 30 FT<br>CTECH<br>F1466<br>SOIL<br>2/21/2014<br>5/21/2014 | Dup of CSB-48D(25-30)<br>CSB-48D<br>CSB-148(25-30)<br>F1466-07<br>25 - 30 FT<br>CTECH<br>F1466<br>SOIL<br>2/21/2014<br>5/21/2014 | CSB-48D<br>CSB-48D(42-44)<br>F1466-03<br>42 - 44 FT<br>CTECH<br>F1466<br>SOIL<br>2/21/2014<br>5/21/2014 | SB-55D<br>SB-55D(25-26)<br>F1466-02<br>25 - 26 FT<br>CTECH<br>F1466<br>SOIL<br>2/21/2014<br>5/21/2014 | SB-55D<br>SB-55D(40-42)<br>F1466-01<br>40 - 42 FT<br>CTECH<br>F1466<br>SOIL<br>2/21/2014<br>5/21/2014 |
|---|---|---|---|---|---|---|---|
| CAS NO. | COMPOUND | UNITS: | | | | | |
| | INORGANICS | | | | | | |
| 7429-90-5 | ALUMINUM | mg/kg | 15100 | 15700 | 5860 | 7910 | 3340 |
| 7440-36-0 | ANTIMONY | mg/kg | 0.751 UJ | 0.783 UJ | 0.569 UJ | 0.562 UJ | 0.563 UJ |
| 7440-38-2 | ARSENIC | mg/kg | 10.3 | 10.7 | 1.71 | 4.3 | 1.53 |
| 7440-39-3 | BARIUM | mg/kg | 36.8 J+ | 38.8 J+ | 62.1 J+ | 49 J+ | 22.1 J+ |
| 7440-41-7 | BERYLLIUM | mg/kg | 0.08 U | 0.084 U | 0.061 U | 0.06 U | 0.06 U |
| 7440-43-9 | CADMIUM | mg/kg | 0.643 | 0.948 | 0.206 J | 0.39 | 0.089 J |
| 7440-70-2 | CALCIUM | mg/kg | 3100 | 4050 | 398 | 504 | 531 |
| 7440-47-3 | CHROMIUM, TOTAL | mg/kg | 30.7 | 32.1 | 24.1 | 21.1 | 14.4 |
| 7440-48-4 | COBALT | mg/kg | 14.5 J+ | 15 J+ | 9.19 J+ | 11.8 J+ | 5.94 J+ |
| 7440-50-8 | COPPER | mg/kg | 13.7 J | 13.1 J | 10.75 J | 36.7 J | 7.03 J |
| 7439-89-6 | IRON | mg/kg | 40000 | 40100 | 21800 | 29600 | 14700 |
| 7439-92-1 | LEAD | mg/kg | 18.9 | 17.3 | 2.71 | 5.22 | 1.52 |
| 7439-95-4 | MAGNESIUM | mg/kg | 7610 | 7880 | 2310 | 2740 | 1380 |
| 7439-96-5 | MANGANESE | mg/kg | 526 J | 564 J | 722 J | 131 J | 438 J |
| 7439-97-6 | MERCURY | mg/kg | 0.017 J | 0.01 J | 0.006 U | 0.006 U | 0.006 U |
| 7440-02-0 | NICKEL | mg/kg | 32 | 31.7 | 38.7 | 21.8 | 14.1 |
| 7440-09-7 | POTASIUM | mg/kg | 3580 | 3750 | 1710 | 1680 | 1240 |
| 7782-49-2 | SELENIUM | mg/kg | 1.37 | 1.48 | 0.518 J | 0.928 J | 0.412 U |
| 7440-22-4 | SILVER | mg/kg | 0.64 J | 0.448 J | 0.152 U | 0.253 J | 0.151 U |
| 7440-23-5 | SODIUM | mg/kg | 3480 | 3620 | 135 | 320 | 89.5 J |
| 7440-28-0 | THALLIUM | mg/kg | 0.362 U | 0.377 U | 0.274 U | 0.271 U | 0.271 U |
| 7440-62-2 | VANADIUM | mg/kg | 36.7 | 38.1 | 22 | 23.3 | 14.2 |
| 7440-66-6 | ZINC | mg/kg | 87.3 | 84.9 | 24 | 31.7 | 14.1 |
| 57-12-5 | CYANIDE | mg/kg | 0.278 J | 0.28 J | 0.169 J | 0.161 J | 0.2 J |

| Consolidated Edison<br>Farrington Street Holder Station<br>Validated Soil Analytical Data<br>SDG: F1518 | | Location ID:<br>Sample ID:<br>Lab Sample Id:<br>Depth:<br>Source:<br>SDG:<br>Matrix:<br>Sampled:<br>Validated: | CSB-60<br>CSB-60(7-9)<br>F1518-05<br>7 - 9 FT<br>CTECH<br>F1518<br>SOIL<br>2/28/2014<br>5/21/2014 | Dup of CSB-60(7-9)<br>CSB-60<br>CSB-160(7-9)<br>F1518-09<br>7 - 9 FT<br>CTECH<br>F1518<br>SOIL<br>2/28/2014<br>5/21/2014 | CSB-60<br>CSB-60(29-31)<br>F1518-06<br>29 - 31 FT<br>CTECH<br>F1518<br>SOIL<br>2/28/2014<br>5/21/2014 | CSB-63<br>CSB-63(13-15)<br>F1518-10<br>13 - 15 FT<br>CTECH<br>F1518<br>SOIL<br>2/28/2014<br>5/21/2014 | CSB-63<br>CSB-63(29-31)<br>F1518-21<br>29 - 31 FT<br>CTECH<br>F1518<br>SOIL<br>2/28/2014<br>5/21/2014 | CSB-65<br>CSB-65(15-17)<br>F1518-01<br>15 - 17 FT<br>CTECH<br>F1518<br>SOIL<br>2/27/2014<br>5/21/2014 | CSB-65<br>CSB-65(29-31)<br>F1518-02<br>29 - 31 FT<br>CTECH<br>F1518<br>SOIL<br>2/27/2014<br>5/21/2014 |
|---|---|---|---|---|---|---|---|---|---|
| CAS NO. | COMPOUND | UNITS: | | | | | | | |
| | VOLATILES | | | | | | | | |
| 71-55-6 | 1,1,1-TRICHLOROETHANE | ug/kg | 0.58 U | 0.58 U | 0.59 U | 0.69 U | 0.84 UJ | 0.83 UJ | 0.85 UJ |
| 79-34-5 | 1,1,2,2-TETRACHLOROETHANE | ug/kg | 0.53 U | 0.53 U | 0.55 U | 0.64 U | 0.77 UJ | 0.77 UJ | 0.78 UJ |
| 76-13-1 | 1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE | ug/kg | 0.58 U | 0.58 U | 0.59 U | 0.69 U | 0.84 UJ | 0.83 UJ | 0.85 UJ |
| 79-00-5 | 1,1,2-TRICHLOROETHANE | ug/kg | 1 U | 1 U | 1.1 U | 1.2 U | 1.5 UJ | 1.5 UJ | 1.5 UJ |
| 75-34-3 | 1,1-DICHLOROETHANE | ug/kg | 0.58 U | 0.58 U | 0.59 U | 0.69 U | 0.84 UJ | 0.83 UJ | 0.85 UJ |
| 75-35-4 | 1,1-DICHLOROETHENE | ug/kg | 0.58 U | 0.58 U | 0.59 U | 0.69 U | 0.84 UJ | 0.83 UJ | 0.85 UJ |
| 87-61-6 | 1,2,3-TRICHLOROBENZENE | ug/kg | 0.58 U | 0.58 UJ | 0.59 U | 0.69 U | 0.84 UJ | 0.83 UJ | 0.85 UJ |
| 120-82-1 | 1,2,4-TRICHLOROBENZENE | ug/kg | 0.58 U | 0.58 UJ | 0.59 U | 0.69 U | 0.84 UJ | 0.83 UJ | 0.85 UJ |
| 96-12-8 | 1,2-DIBROMO-3-CHLOROPROPANE | ug/kg | 1 U | 1 UJ | 1 U | 1.2 U | 1.5 UJ | 1.5 UJ | 1.5 UJ |
| 106-93-4 | 1,2-DIBROMOETHANE | ug/kg | 0.58 U | 0.58 U | 0.59 U | 0.69 U | 0.84 UJ | 0.83 UJ | 0.85 UJ |
| 95-50-1 | 1,2-DICHLOROBENZENE | ug/kg | 0.58 U | 0.58 UJ | 0.59 U | 0.69 U | 0.84 UJ | 0.83 UJ | 0.85 UJ |
| 107-06-2 | 1,2-DICHLOROETHANE | ug/kg | 0.58 U | 0.58 U | 0.59 U | 0.69 U | 0.84 UJ | 0.83 UJ | 0.85 UJ |
| 78-87-5 | 1,2-DICHLOROPROPANE | ug/kg | 0.3 U | 0.3 U | 0.31 U | 0.36 U | 0.44 UJ | 0.43 UJ | 0.44 UJ |
| 541-73-1 | 1,3-DICHLOROBENZENE | ug/kg | 0.43 U | 0.43 UJ | 0.44 U | 0.51 U | 0.62 UJ | 12.4 J | 0.63 UJ |
| 106-46-7 | 1,4-DICHLOROBENZENE | ug/kg | 0.48 U | 0.48 UJ | 0.49 U | 0.57 U | 0.69 UJ | 27.6 J | 0.69 UJ |
| 123-91-1 | 1,4-DIOXANE (P-DIOXANE) | ug/kg | R | R | R | R | R | R | R |
| 591-78-6 | 2-HEXANONE | ug/kg | 2.9 U | 2.9 U | 3 U | 3.5 U | 4.2 UJ | 4.2 UJ | 4.2 UJ |
| 67-64-1 | ACETONE | ug/kg | 40 | 59.4 J+ | 9.3 J | 260 | 27.6 J | 190 J | 42.4 U |
| 71-43-2 | BENZENE | ug/kg | 2 J | 18.2 J | 0.45 U | 140 | 2.6 J | 240 J | 8.5 J |
| 74-97-5 | BROMOCHLOROMETHANE | ug/kg | 0.58 U | 0.58 U | 0.59 U | 0.69 U | 0.84 UJ | 0.83 UJ | 0.85 UJ |
| 75-27-4 | BROMODICHLOROMETHANE | ug/kg | 0.58 U | 0.58 U | 0.59 U | 0.69 U | 0.84 UJ | 0.83 UJ | 0.85 UJ |
| 75-25-2 | BROMOFORM | ug/kg | 0.86 U | 0.86 UJ | 0.88 U | 1 U | 1.2 UJ | 1.2 UJ | 1.3 UJ |
| 74-83-9 | BROMOMETHANE | ug/kg | 1.2 U | 1.2 U | 1.2 U | 1.4 U | 1.7 UJ | 1.7 UJ | 1.7 UJ |
| 75-15-0 | CARBON DISULFIDE | ug/kg | 1.7 J | 5.3 J | 0.59 U | 11.1 | 7 J | 16.4 J | 21.3 J |
| 56-23-5 | CARBON TETRACHLORIDE | ug/kg | 0.58 U | 0.58 U | 0.59 U | 0.69 U | 0.84 UJ | 0.83 UJ | 0.85 UJ |
| 108-90-7 | CHLOROBENZENE | ug/kg | 0.58 U | 0.58 U | 0.59 U | 0.69 U | 0.84 UJ | 150 J | 0.85 UJ |
| 75-00-3 | CHLOROETHANE | ug/kg | 0.58 UJ | 0.58 UJ | 0.59 U | 0.69 UJ | 0.84 UJ | 0.83 UJ | 0.85 UJ |
| 67-66-3 | CHLOROFORM | ug/kg | 0.58 U | 0.58 U | 0.59 U | 0.69 U | 0.84 UJ | 0.83 UJ | 0.85 UJ |
| 74-87-3 | CHLOROMETHANE | ug/kg | 0.58 U | 0.58 U | 0.59 U | 0.69 U | 0.84 UJ | 0.83 UJ | 0.85 UJ |
| 156-59-2 | CIS-1,2-DICHLOROETHYLENE | ug/kg | 0.58 U | 0.58 U | 0.59 U | 0.69 U | 0.84 UJ | 0.83 UJ | 0.85 UJ |
| 10061-01-5 | CIS-1,3-DICHLOROPROPENE | ug/kg | 0.58 U | 0.58 U | 0.59 U | 0.69 U | 0.84 UJ | 0.83 UJ | 0.85 UJ |
| 110-82-7 | CYCLOHEXANE | ug/kg | 0.58 U | 0.58 U | 0.59 U | 7 | 0.84 UJ | 0.83 UJ | 0.85 UJ |
| 124-48-1 | DIBROMOCHLOROMETHANE | ug/kg | 0.58 U | 0.58 U | 0.59 U | 0.69 U | 0.84 UJ | 0.83 UJ | 0.85 UJ |
| 75-71-8 | DICHLORODIFLUOROMETHANE | ug/kg | 0.58 U | 0.58 U | 0.59 U | 0.69 U | 0.84 UJ | 0.83 UJ | 0.85 UJ |
| 100-41-4 | ETHYLBENZENE | ug/kg | 0.58 U | 3.1 J | 0.59 U | 46.7 | 0.84 UJ | 150 J | 0.85 UJ |
| 98-82-8 | ISOPROPYLBENZENE (CUMENE) | ug/kg | 0.56 U | 0.56 U | 0.57 U | 40.4 | 0.81 UJ | 320 J | 0.81 UJ |
| XYLMP | M,P-XYLENE (SUM OF ISOMERS) | ug/kg | 0.84 U | 3.3 J | 0.85 U | 34.5 | 1.2 UJ | 430 J | 1.2 UJ |
| 79-20-9 | METHYL ACETATE | ug/kg | 1.2 U | 1.2 U | 1.2 U | 1.4 U | 1.7 UJ | 1.7 UJ | 1.7 UJ |
| 78-93-3 | METHYL ETHYL KETONE (2-BUTANONE) | ug/kg | 3.6 U | 6.4 J | 3.7 U | 57.2 | 5.2 UJ | 54 J | 5.3 UJ |
| 108-10-1 | METHYL ISOBUTYL KETONE | ug/kg | 2.9 U | 2.9 U | 3 U | 3.5 U | 4.2 UJ | 4.2 UJ | 4.2 UJ |
| 108-87-2 | METHYLCYCLOHEXANE | ug/kg | 0.58 U | 1.4 J | 0.59 U | 16.6 | 0.84 UJ | 0.83 UJ | 0.85 UJ |
| 75-09-2 | METHYLENE CHLORIDE | ug/kg | 0.58 U | 0.58 U | 0.59 U | 8.4 | 0.84 UJ | 0.83 UJ | 0.85 UJ |
| 95-47-6 | O-XYLENE (1,2-DIMETHYLBENZENE) | ug/kg | 0.58 U | 1.5 J | 0.59 U | 38.9 | 0.84 UJ | 79.6 J | 0.85 UJ |
| 100-42-5 | STYRENE | ug/kg | 0.52 U | 0.52 U | 0.53 U | 0.62 U | 0.76 UJ | 0.75 UJ | 0.76 UJ |
| 1634-04-4 | TERT-BUTYL METHYL ETHER | ug/kg | 0.58 U | 0.58 U | 0.59 U | 0.69 U | 0.84 UJ | 0.83 UJ | 0.85 UJ |
| 127-18-4 | TETRACHLOROETHYLENE(PCE) | ug/kg | 0.58 U | 0.58 U | 0.59 U | 0.69 U | 0.84 UJ | 0.83 UJ | 0.85 UJ |
| 108-88-3 | TOLUENE | ug/kg | 0.58 UJ | 10.5 J | 0.59 U | 13.1 | 0.84 UJ | 32.9 J | 6.5 J |
| 156-60-5 | TRANS-1,2-DICHLOROETHENE | ug/kg | 0.58 U | 0.58 U | 0.59 U | 0.69 U | 0.84 UJ | 0.83 UJ | 0.85 UJ |
| 10061-02-6 | TRANS-1,3-DICHLOROPROPENE | ug/kg | 0.58 U | 0.58 U | 0.59 U | 0.69 U | 0.84 UJ | 0.83 UJ | 0.85 UJ |
| 79-01-6 | TRICHLOROETHYLENE (TCE) | ug/kg | 0.58 U | 0.58 U | 0.59 U | 0.69 U | 0.84 UJ | 0.83 UJ | 0.85 UJ |
| 75-69-4 | TRICHLOROFLUOROMETHANE | ug/kg | 0.58 UJ | 0.58 U | 0.59 U | 0.69 UJ | 0.84 UJ | 0.83 UJ | 0.85 UJ |
| 75-01-4 | VINYL CHLORIDE | ug/kg | 0.58 U | 0.58 U | 0.59 U | 0.69 U | 0.84 UJ | 0.83 UJ | 0.85 UJ |

| Consolidated Edison<br>Farrington Street Holder Station<br>Validated Soil Analytical Data<br>SDG: F1518 | | Location ID:<br>Sample ID:<br>Lab Sample Id:<br>Depth:<br>Source:<br>SDG:<br>Matrix:<br>Sampled:<br>Validated: | CSB-60<br>CSB-60(7-9)<br>F1518-05<br>7 - 9 FT<br>CTECH<br>F1518<br>SOIL<br>2/28/2014<br>5/21/2014 | Dup of CSB-60(7-9)<br>CSB-60<br>CSB-160(7-9)<br>F1518-09<br>7 - 9 FT<br>CTECH<br>F1518<br>SOIL<br>2/28/2014<br>5/21/2014 | CSB-60<br>CSB-60(29-31)<br>F1518-06<br>29 - 31 FT<br>CTECH<br>F1518<br>SOIL<br>2/28/2014<br>5/21/2014 | CSB-63<br>CSB-63(13-15)<br>F1518-10<br>13 - 15 FT<br>CTECH<br>F1518<br>SOIL<br>2/28/2014<br>5/21/2014 | CSB-63<br>CSB-63(29-31)<br>F1518-21<br>29 - 31 FT<br>CTECH<br>F1518<br>SOIL<br>2/28/2014<br>5/21/2014 | CSB-65<br>CSB-65(15-17)<br>F1518-01<br>15 - 17 FT<br>CTECH<br>F1518<br>SOIL<br>2/27/2014<br>5/21/2014 | CSB-65<br>CSB-65(29-31)<br>F1518-02<br>29 - 31 FT<br>CTECH<br>F1518<br>SOIL<br>2/27/2014<br>5/21/2014 |
|---|---|---|---|---|---|---|---|---|---|
| CAS NO. | COMPOUND | UNITS: | | | | | | | |
| | SEMIVOLATILES | | | | | | | | |
| 95-94-3 | 1,2,4,5-TETRACHLOROBENZENE | ug/kg | 150 U | 150 U | 15.5 U | 18 U | 22 UJ | 21.8 UJ | 22.2 UJ |
| 58-90-2 | 2,3,4,6-TETRACHLOROPHENOL | ug/kg | 150 U | 150 U | 15.5 U | 18 U | 22 UJ | 21.8 UJ | 22.2 UJ |
| 95-95-4 | 2,4,5-TRICHLOROPHENOL | ug/kg | 270 U | 270 U | 27.6 U | 32.2 U | 39.2 UJ | 38.9 UJ | 39.7 UJ |
| 88-06-2 | 2,4,6-TRICHLOROPHENOL | ug/kg | 120 U | 120 U | 12 U | 14.1 U | 17.1 UJ | 17 UJ | 17.3 UJ |
| 120-83-2 | 2,4-DICHLOROPHENOL | ug/kg | 150 U | 150 U | 15 U | 17.5 U | 21.3 UJ | 21.1 UJ | 21.5 UJ |
| 105-67-9 | 2,4-DIMETHYLPHENOL | ug/kg | 220 U | 220 U | 22.3 U | 26 U | 31.7 UJ | 31.4 UJ | 32 UJ |
| 51-28-5 | 2,4-DINITROPHENOL | ug/kg | 390 UJ | 390 UJ | 40 U | 46.7 U | 56.8 UJ | 56.3 UJ | 57.5 UJ |
| 121-14-2 | 2,4-DINITROTOLUENE | ug/kg | 120 UJ | 120 UJ | 11.8 U | 13.8 U | 16.8 UJ | 16.6 UJ | 16.9 UJ |
| 606-20-2 | 2,6-DINITROTOLUENE | ug/kg | 160 U | 160 U | 16.1 U | 18.7 U | 22.8 UJ | 22.6 UJ | 23.1 UJ |
| 91-58-7 | 2-CHLORONAPHTHALENE | ug/kg | 87.8 U | 88.2 U | 9 U | 10.5 U | 12.7 UJ | 12.6 UJ | 12.9 UJ |
| 95-57-8 | 2-CHLOROPHENOL | ug/kg | 200 U | 200 U | 20.8 U | 24.2 U | 29.5 UJ | 29.3 UJ | 29.8 UJ |
| 91-57-6 | 2-METHYLNAPHTHALENE | ug/kg | 97 U | 97.4 U | 9.9 U | 11.6 U | 14.1 UJ | 1900 J | 14.2 UJ |
| 95-48-7 | 2-METHYLPHENOL (O-CRESOL) | ug/kg | 210 U | 210 U | 21.4 U | 24.9 U | 30.3 UJ | 30.1 UJ | 30.7 UJ |
| 88-74-4 | 2-NITROANILINE | ug/kg | 170 U | 170 U | 17.5 U | 20.4 U | 24.8 UJ | 24.6 UJ | 25.1 UJ |
| 88-75-5 | 2-NITROPHENOL | ug/kg | 190 UJ | 190 UJ | 19 U | 22.2 U | 27 UJ | 26.8 UJ | 27.3 UJ |
| MEPH3MEPH | 3- AND 4- METHYLPHENOL (TOTAL) | ug/kg | 200 U | 200 U | 20.4 U | 23.8 U | 29 UJ | 28.8 UJ | 29.3 UJ |
| 91-94-1 | 3,3'-DICHLOROBENZIDINE | ug/kg | 250 U | 250 U | 25.3 U | 29.5 U | 35.9 UJ | 35.6 UJ | 36.3 UJ |
| 99-09-2 | 3-NITROANILINE | ug/kg | 250 U | 250 U | 25.3 U | 29.5 U | 35.9 UJ | 35.6 UJ | 36.3 UJ |
| 534-52-1 | 4,6-DINITRO-2-METHYLPHENOL | ug/kg | 220 UJ | 220 UJ | 22.5 U | 26.3 U | 32 UJ | 31.7 UJ | 32.4 UJ |
| 101-55-3 | 4-BROMOPHENYL PHENYL ETHER | ug/kg | 75.1 U | 75.4 U | 7.7 U | 9 U | 10.9 UJ | 10.8 UJ | 11 UJ |
| 59-50-7 | 4-CHLORO-3-METHYLPHENOL | ug/kg | 170 U | 170 U | 17.5 U | 20.4 U | 24.8 UJ | 24.6 UJ | 25.1 UJ |
| 106-47-8 | 4-CHLOROANILINE | ug/kg | 270 U | 270 U | 27.7 U | 32.4 U | 39.4 UJ | 39.1 UJ | 39.8 UJ |
| 7005-72-3 | 4-CHLOROPHENYL PHENYL ETHER | ug/kg | 210 U | 210 U | 21.4 U | 24.9 U | 30.3 UJ | 30.1 UJ | 30.7 UJ |
| 100-01-6 | 4-NITROANILINE | ug/kg | 500 U | 500 U | 51.2 U | 59.8 U | 72.7 UJ | 72.1 UJ | 73.6 UJ |
| 100-02-7 | 4-NITROPHENOL | ug/kg | 710 U | 720 U | 73.1 U | 85.3 U | 100 UJ | 100 UJ | 100 UJ |
| 83-32-9 | ACENAPHTHENE | ug/kg | 110 U | 1300 J | 11.1 U | 12.9 U | 15.8 UJ | 2200 J | 15.9 UJ |
| 208-96-8 | ACENAPHTHYLENE | ug/kg | 850 J | 990 J | 9.9 U | 11.6 U | 14.1 UJ | 300 J | 14.2 UJ |
| 98-86-2 | ACETOPHENONE | ug/kg | 120 U | 120 U | 12 U | 14.1 U | 17.1 UJ | 17 UJ | 17.3 UJ |
| 120-12-7 | ANTHRACENE | ug/kg | 1100 J | 2300 J | 8 U | 9.4 U | 11.4 UJ | 990 J | 11.5 UJ |
| 1912-24-9 | ATRAZINE | ug/kg | 200 U | 200 U | 20.8 U | 24.2 U | 29.5 UJ | 29.3 UJ | 29.8 UJ |
| 100-52-7 | BENZALDEHYDE | ug/kg | 200 U | 200 U | 20.5 U | 24 U | 29.2 UJ | 28.9 UJ | 29.5 UJ |
| 56-55-3 | BENZO(A)ANTHRACENE | ug/kg | 3900 J | 8200 J | 18.8 U | 21.9 U | 26.6 UJ | 530 J | 27 UJ |
| 50-32-8 | BENZO(A)PYRENE | ug/kg | 4100 J | 7500 J | 8.5 U | 9.9 U | 12.1 UJ | 330 J | 12.2 UJ |
| 205-99-2 | BENZO(B)FLUORANTHENE | ug/kg | 5800 J | 10000 J | 12.9 U | 15 U | 18.3 UJ | 270 J | 18.5 UJ |
| 191-24-2 | BENZO(G,H,I)PERYLENE | ug/kg | 2700 J | 4300 | 15.9 U | 18.6 U | 22.6 UJ | 130 J | 22.9 UJ |
| 207-08-9 | BENZO(K)FLUORANTHENE | ug/kg | 1200 J | 2400 J | 18.5 U | 21.6 U | 26.3 UJ | 26.1 UJ | 26.6 UJ |
| 85-68-7 | BENZYL BUTYL PHTHALATE | ug/kg | 180 U | 190 U | 18.9 U | 22 U | 26.8 UJ | 26.6 UJ | 27.1 UJ |
| 92-52-4 | BIPHENYL (DIPHENYL) | ug/kg | 150 U | 150 U | 14.9 U | 17.4 U | 21.1 UJ | 20.9 UJ | 21.4 UJ |
| 111-91-1 | BIS(2-CHLOROETHOXY) METHANE | ug/kg | 220 U | 220 U | 22.7 U | 26.4 U | 32.2 UJ | 31.9 UJ | 32.5 UJ |
| 111-44-4 | BIS(2-CHLOROETHYL) ETHER | ug/kg | 180 U | 190 U | 18.9 U | 22 U | 26.8 UJ | 26.6 UJ | 27.1 UJ |
| 108-60-1 | BIS(2-CHLOROISOPROPYL) ETHER | ug/kg | 160 U | 160 U | 16.3 U | 19 U | 23.1 UJ | 22.9 UJ | 23.4 UJ |
| 117-81-7 | BIS(2-ETHYLHEXYL) PHTHALATE | ug/kg | 140 U | 140 U | 13.9 U | 16.3 U | 19.8 UJ | 19.6 UJ | 20 UJ |
| 105-60-2 | CAPROLACTAM | ug/kg | 180 U | 180 U | 18.3 U | 21.4 U | 26 UJ | 25.8 UJ | 26.3 UJ |
| 86-74-8 | CARBAZOLE | ug/kg | 84.3 U | 1100 J | 8.6 U | 10.1 U | 12.2 UJ | 12.1 UJ | 12.4 UJ |
| 218-01-9 | CHRYSENE | ug/kg | 3700 J | 7500 J | 17.8 U | 20.8 U | 25.3 UJ | 390 J | 25.6 UJ |
| 53-70-3 | DIBENZ(A,H)ANTHRACENE | ug/kg | 880 J | 1500 J | 11.3 U | 13.2 U | 16.1 UJ | 16 UJ | 16.3 UJ |
| 132-64-9 | DIBENZOFURAN | ug/kg | 150 U | 150 U | 15.3 U | 17.9 U | 21.8 UJ | 21.6 UJ | 22 UJ |
| 84-66-2 | DIETHYL PHTHALATE | ug/kg | 60.1 U | 60.3 U | 6.1 U | 120 J | 8.7 UJ | 8.6 UJ | 8.8 UJ |
| 131-11-3 | DIMETHYL PHTHALATE | ug/kg | 100 U | 100 U | 550 | 660 | 1200 J | 710 J | 800 J |
| 84-74-2 | DI-N-BUTYL PHTHALATE | ug/kg | 300 U | 300 U | 30.9 U | 36.1 U | 43.9 UJ | 43.6 UJ | 44.4 UJ |
| 117-84-0 | DI-N-OCTYLPHTHALATE | ug/kg | 43.9 U | 44.1 U | 4.5 U | 5.2 U | 6.4 UJ | 6.3 UJ | 6.4 UJ |
| 206-44-0 | FLUORANTHENE | ug/kg | 6200 J | 13200 J | 7.9 U | 140 J | 11.2 UJ | 960 J | 11.4 UJ |
| 86-73-7 | FLUORENE | ug/kg | 150 U | 1200 J | 14.9 U | 17.4 U | 21.1 UJ | 1200 J | 21.4 UJ |
| 118-74-1 | HEXACHLOROBENZENE | ug/kg | 160 U | 160 U | 16.1 U | 18.7 U | 22.8 UJ | 22.6 UJ | 23.1 UJ |
| 87-68-3 | HEXACHLOROBUTADIENE | ug/kg | 140 U | 140 U | 14.3 U | 16.7 U | 20.3 UJ | 20.1 UJ | 20.5 UJ |
| 77-47-4 | HEXACHLOROCYCLOPENTADIENE | ug/kg | 93.5 U | 94 U | 9.6 U | 11.2 U | 13.6 UJ | 13.5 UJ | 13.7 UJ |
| 67-72-1 | HEXACHLOROETHANE | ug/kg | 170 U | 170 U | 17.6 U | 20.5 U | 25 UJ | 24.8 UJ | 25.3 UJ |
| 193-39-5 | INDENO(1,2,3-C,D)PYRENE | ug/kg | 3000 J | 4600 | 13.1 U | 15.3 U | 18.6 UJ | 18.5 UJ | 18.8 UJ |
| 78-59-1 | ISOPHORONE | ug/kg | 130 U | 130 U | 13 U | 15.2 U | 18.4 UJ | 18.3 UJ | 18.6 UJ |
| 91-20-3 | NAPHTHALENE | ug/kg | 130 U | 900 J | 13.6 U | 15.8 U | 19.3 UJ | 2200 J | 19.5 UJ |
| 98-95-3 | NITROBENZENE | ug/kg | 150 U | 150 U | 14.9 U | 17.4 U | 21.1 UJ | 20.9 UJ | 21.4 UJ |
| 621-64-7 | N-NITROSODI-N-PROPYLAMINE | ug/kg | 190 U | 190 U | 19.8 U | 23.1 U | 28.2 UJ | 27.9 UJ | 28.5 UJ |
| 86-30-6 | N-NITROSODIPHENYLAMINE | ug/kg | 92.4 U | 92.8 U | 9.4 U | 11 U | 13.4 UJ | 13.3 UJ | 13.6 UJ |
| 87-86-5 | PENTACHLOROPHENOL | ug/kg | 260 U | 260 U | 26.9 U | 31.4 U | 38.2 UJ | 37.9 UJ | 38.6 UJ |
| 85-01-8 | PHENANTHRENE | ug/kg | 3200 J | 7300 J | 10.6 U | 100 J | 15.1 UJ | 3300 J | 15.3 UJ |
| 108-95-2 | PHENOL | ug/kg | 88.9 U | 89.3 U | 9.1 U | 10.6 U | 12.9 UJ | 12.8 UJ | 13.1 UJ |
| 129-00-0 | PYRENE | ug/kg | 5700 J | 11300 J | 9.4 U | 160 J | 13.4 UJ | 1200 J | 13.6 UJ |

| Consolidated Edison<br>Farrington Street Holder Station<br>Validated Soil Analytical Data<br>SDG: F1518 | | Location ID:<br>Sample ID:<br>Lab Sample Id:<br>Depth:<br>Source:<br>SDG:<br>Matrix:<br>Sampled:<br>Validated: | CSB-60<br>CSB-60(7-9)<br>F1518-05<br>7 - 9 FT<br>CTECH<br>F1518<br>SOIL<br>2/28/2014<br>5/21/2014 | Dup of CSB-60(7-9)<br>CSB-60<br>CSB-160(7-9)<br>F1518-09<br>7 - 9 FT<br>CTECH<br>F1518<br>SOIL<br>2/28/2014<br>5/21/2014 | CSB-60<br>CSB-60(29-31)<br>F1518-06<br>29 - 31 FT<br>CTECH<br>F1518<br>SOIL<br>2/28/2014<br>5/21/2014 | CSB-63<br>CSB-63(13-15)<br>F1518-10<br>13 - 15 FT<br>CTECH<br>F1518<br>SOIL<br>2/28/2014<br>5/21/2014 | CSB-63<br>CSB-63(29-31)<br>F1518-21<br>29 - 31 FT<br>CTECH<br>F1518<br>SOIL<br>2/28/2014<br>5/21/2014 | CSB-65<br>CSB-65(15-17)<br>F1518-01<br>15 - 17 FT<br>CTECH<br>F1518<br>SOIL<br>2/27/2014<br>5/21/2014 | CSB-65<br>CSB-65(29-31)<br>F1518-02<br>29 - 31 FT<br>CTECH<br>F1518<br>SOIL<br>2/27/2014<br>5/21/2014 |
|---|---|---|---|---|---|---|---|---|---|
| CAS NO. | COMPOUND | UNITS: | | | | | | | |
| | INORGANICS | | | | | | | | |
| 7429-90-5 | ALUMINUM | mg/kg | 6300 | 5850 | 6020 | 9760 | 15400 | 4830 | 16100 |
| 7440-36-0 | ANTIMONY | mg/kg | 0.532 UJ | 31.5 J | 0.554 U | 0.639 U | 0.798 U | 0.771 U | 0.802 U |
| 7440-38-2 | ARSENIC | mg/kg | 9.26 | 33.8 | 3.17 | 5.11 | 10.6 | 7.36 | 10.62 |
| 7440-39-3 | BARIUM | mg/kg | 67.8 J | 30.4 J | 22.4 J+ | 70.5 J+ | 35.6 J+ | 66.8 J+ | 37.3 J+ |
| 7440-41-7 | BERYLLIUM | mg/kg | 0.057 U | 6.33 J | 0.059 U | 0.068 U | 0.085 U | 0.083 U | 0.086 U |
| 7440-43-9 | CADMIUM | mg/kg | 1.52 | 10.24 | 0.246 J | 1.55 | 1.37 | 0.823 | 1.63 |
| 7440-70-2 | CALCIUM | mg/kg | 17800 J | 510 J | 475 J | 6460 J | 7420 J | 13200 J | 2950 J |
| 7440-47-3 | CHROMIUM, TOTAL | mg/kg | 22.1 | 30.9 | 14.5 | 24.3 | 32.3 | 16.9 | 33.8 |
| 7440-48-4 | COBALT | mg/kg | 10.71 J+ | 18.5 J+ | 9.02 J+ | 8.47 J+ | 14.9 J+ | 6.09 J+ | 16.2 J+ |
| 7440-50-8 | COPPER | mg/kg | 170 J | 23.4 J | 11.8 J | 26.1 J | 5.92 J | 27.2 J | 6.74 J |
| 7439-89-6 | IRON | mg/kg | 24100 | 18400 | 18800 | 30000 | 42800 | 26300 | 42900 |
| 7439-92-1 | LEAD | mg/kg | 183 | 55.6 | 6.16 J+ | 292 | 18.9 | 374 | 16.1 |
| 7439-95-4 | MAGNESIUM | mg/kg | 5080 J | 2280 J | 2220 | 4430 | 8560 | 2800 | 9610 |
| 7439-96-5 | MANGANESE | mg/kg | 183 J | 796 J | 827 J | 283 J | 608 J | 123 J | 586 J |
| 7439-97-6 | MERCURY | mg/kg | 0.235 J | 0.474 J | 0.006 U | 0.213 | 0.014 J | 0.745 | 0.012 J |
| 7440-02-0 | NICKEL | mg/kg | 24.6 | 38.1 | 13.3 | 19.5 | 31.5 | 15 | 32.8 |
| 7440-09-7 | POTASSIUM | mg/kg | 744 J | 1510 J | 1100 | 1900 | 3870 | 738 | 4240 |
| 7782-49-2 | SELENIUM | mg/kg | 1.26 J | 78.1 J | 0.892 J | 1.21 | 1.96 | 1.91 | 2.18 |
| 7440-22-4 | SILVER | mg/kg | 0.72 J | 3.71 J | 0.553 | 0.747 | 1.52 | 0.604 J | 1.43 |
| 7440-23-5 | SODIUM | mg/kg | 383 | 297 | 166 | 663 | 2400 | 1400 | 6820 |
| 7440-28-0 | THALLIUM | mg/kg | 0.256 UJ | 96.7 J | 0.267 U | 0.308 U | 0.385 U | 0.372 U | 0.387 U |
| 7440-62-2 | VANADIUM | mg/kg | 31 | 31 | 19.6 | 33.7 | 39 | 20.1 | 42.5 |
| 7440-66-6 | ZINC | mg/kg | 130 | 42.7 | 34.1 | 98.7 | 91.4 | 152 | 98.1 |
| 57-12-5 | CYANIDE | mg/kg | 0.711 | 0.511 | 0.074 J | 0.599 | 0.098 J | 0.408 J | 0.068 J |

| Consolidated Edison<br>Farrington Street Holder Station<br>Validated Soil Analytical Data<br>SDG: F1518 | | Location ID:<br>Sample ID:<br>Lab Sample Id:<br>Depth:<br>Source:<br>SDG:<br>Matrix:<br>Sampled:<br>Validated: | CSB-65<br>CSB-65(37-39)<br>F1518-03<br>37 - 39 FT<br>CTECH<br>F1518<br>SOIL<br>2/27/2014<br>5/21/2014 | SB-61<br>SB-61(13-15)<br>F1518-11<br>13 - 15 FT<br>CTECH<br>F1518<br>SOIL<br>2/24/2014<br>5/21/2014 | SB-61<br>SB-61(32-34)<br>F1518-12<br>32 - 34 FT<br>CTECH<br>F1518<br>SOIL<br>2/24/2014<br>5/21/2014 | SB-62<br>SB-62(17-19)<br>F1518-15<br>17 - 19 FT<br>CTECH<br>F1518<br>SOIL<br>2/25/2014<br>5/21/2014 | SB-62<br>SB-62(29-31)<br>F1518-16<br>29 - 31 FT<br>CTECH<br>F1518<br>SOIL<br>2/25/2014<br>5/21/2014 | SB-66<br>SB-66(11-13)<br>F1518-19<br>11 - 13 FT<br>CTECH<br>F1518<br>SOIL<br>2/26/2014<br>5/21/2014 | SB-66<br>SB-66(29-31)<br>F1518-20<br>29 - 31 FT<br>CTECH<br>F1518<br>SOIL<br>2/26/2014<br>5/21/2014 |
|---|---|---|---|---|---|---|---|---|---|
| CAS NO. | COMPOUND | UNITS: | | | | | | | |
| | VOLATILES | | | | | | | | |
| 71-55-6 | 1,1,1-TRICHLOROETHANE | ug/kg | 0.57 U | 1400 U | 0.81 UJ | 1 UJ | 0.85 UJ | 0.97 UJ | 0.87 UJ |
| 79-34-5 | 1,1,2,2-TETRACHLOROETHANE | ug/kg | 0.53 U | 1200 U | 0.75 UJ | 0.92 UJ | 0.78 UJ | 0.9 UJ | 0.8 UJ |
| 76-13-1 | 1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE | ug/kg | 0.57 U | 1400 U | 0.81 UJ | 1 UJ | 0.85 UJ | 0.97 UJ | 0.87 UJ |
| 79-00-5 | 1,1,2-TRICHLOROETHANE | ug/kg | 1 U | 2400 U | 1.5 UJ | 1.8 UJ | 1.5 UJ | 1.8 UJ | 1.6 UJ |
| 75-34-3 | 1,1-DICHLOROETHANE | ug/kg | 0.57 U | 1400 U | 0.81 UJ | 1 UJ | 0.85 UJ | 0.97 UJ | 0.87 UJ |
| 75-35-4 | 1,1-DICHLOROETHENE | ug/kg | 0.57 U | 1400 U | 0.81 UJ | 1 UJ | 0.85 UJ | 0.97 UJ | 0.87 UJ |
| 87-61-6 | 1,2,3-TRICHLOROBENZENE | ug/kg | 0.57 U | 1400 U | 0.81 UJ | 1 UJ | 0.85 UJ | 0.97 UJ | 0.87 UJ |
| 120-82-1 | 1,2,4-TRICHLOROBENZENE | ug/kg | 0.57 U | 1400 U | 0.81 UJ | 1 UJ | 0.85 UJ | 0.97 UJ | 0.87 UJ |
| 96-12-8 | 1,2-DIBROMO-3-CHLOROPROPANE | ug/kg | 1 U | 2400 U | 1.4 UJ | 1.7 UJ | 1.5 UJ | 1.7 UJ | 1.5 UJ |
| 106-93-4 | 1,2-DIBROMOETHANE | ug/kg | 0.57 U | 1400 U | 0.81 UJ | 1 UJ | 0.85 UJ | 0.97 UJ | 0.87 UJ |
| 95-50-1 | 1,2-DICHLOROBENZENE | ug/kg | 0.57 U | 1400 U | 0.81 UJ | 1 UJ | 0.85 UJ | 0.97 UJ | 0.87 UJ |
| 107-06-2 | 1,2-DICHLOROETHANE | ug/kg | 0.57 U | 1400 U | 0.81 UJ | 1 UJ | 0.85 UJ | 0.97 UJ | 0.87 UJ |
| 78-87-5 | 1,2-DICHLOROPROPANE | ug/kg | 0.3 U | 700 U | 0.42 UJ | 0.52 UJ | 0.44 UJ | 0.51 UJ | 0.45 UJ |
| 541-73-1 | 1,3-DICHLOROBENZENE | ug/kg | 0.42 U | 1000 U | 0.6 UJ | 0.74 UJ | 0.63 UJ | 0.72 UJ | 0.65 UJ |
| 106-46-7 | 1,4-DICHLOROBENZENE | ug/kg | 0.47 U | 1100 U | 0.67 UJ | 0.82 UJ | 0.69 UJ | 0.8 UJ | 0.72 UJ |
| 123-91-1 | 1,4-DIOXANE (P-DIOXANE) | ug/kg | R | R | R | R | R | R | R |
| 591-78-6 | 2-HEXANONE | ug/kg | 2.9 U | 6800 U | 4.1 UJ | 5 UJ | 4.2 UJ | 4.9 UJ | 4.4 UJ |
| 67-64-1 | ACETONE | ug/kg | 19.9 J | 41800 J | 25.6 J | 37.2 J | 34.2 J | 230 | 43 J |
| 71-43-2 | BENZENE | ug/kg | 0.44 U | 92600 | 81.7 J | 2600 J | 250 J | 120 J | 6.9 J |
| 74-97-5 | BROMOCHLOROMETHANE | ug/kg | 0.57 U | 1400 U | 0.81 UJ | 1 UJ | 0.85 UJ | 0.97 UJ | 0.87 UJ |
| 75-27-4 | BROMODICHLOROMETHANE | ug/kg | 0.57 U | 1400 U | 0.81 UJ | 1 UJ | 0.85 UJ | 0.97 UJ | 0.87 UJ |
| 75-25-2 | BROMOFORM | ug/kg | 0.85 U | 2000 U | 1.2 UJ | 1.5 UJ | 1.3 UJ | 1.4 UJ | 1.3 UJ |
| 74-83-9 | BROMOMETHANE | ug/kg | 1.1 U | 2700 U | 1.6 UJ | 2 UJ | 1.7 UJ | 1.9 UJ | 1.7 UJ |
| 75-15-0 | CARBON DISULFIDE | ug/kg | 3.2 J | 1400 U | 69.6 J | 14.7 J | 7.6 J | 6.2 J | 16 J |
| 56-23-5 | CARBON TETRACHLORIDE | ug/kg | 0.57 U | 1400 U | 0.81 UJ | 1 UJ | 0.85 UJ | 0.97 UJ | 0.87 UJ |
| 108-90-7 | CHLOROBENZENE | ug/kg | 0.57 U | 1400 U | 0.81 UJ | 15.3 J | 0.85 UJ | 0.97 UJ | 35.2 J |
| 75-00-3 | CHLOROETHANE | ug/kg | 0.57 UJ | 1400 U | 0.81 UJ | 1 UJ | 0.85 UJ | 0.97 UJ | 0.87 UJ |
| 67-66-3 | CHLOROFORM | ug/kg | 0.57 U | 1400 U | 0.81 UJ | 1 UJ | 0.85 UJ | 0.97 UJ | 0.87 UJ |
| 74-87-3 | CHLOROMETHANE | ug/kg | 0.57 U | 1400 U | 0.81 UJ | 1 UJ | 0.85 UJ | 0.97 UJ | 0.87 UJ |
| 156-59-2 | CIS-1,2-DICHLOROETHYLENE | ug/kg | 0.57 U | 1400 U | 0.81 UJ | 1 UJ | 0.85 UJ | 0.97 UJ | 0.87 UJ |
| 10061-01-5 | CIS-1,3-DICHLOROPROPENE | ug/kg | 0.57 U | 1400 U | 0.81 UJ | 1 UJ | 0.85 UJ | 0.97 UJ | 0.87 UJ |
| 110-82-7 | CYCLOHEXANE | ug/kg | 0.57 U | 1400 U | 0.81 UJ | 1 UJ | 0.85 UJ | 0.97 UJ | 0.87 UJ |
| 124-48-1 | DIBROMOCHLOROMETHANE | ug/kg | 0.57 U | 1400 U | 0.81 UJ | 1 UJ | 0.85 UJ | 0.97 UJ | 0.87 UJ |
| 75-71-8 | DICHLORODIFLUOROMETHANE | ug/kg | 0.57 U | 1400 U | 0.81 UJ | 1 UJ | 0.85 UJ | 0.97 UJ | 0.87 UJ |
| 100-41-4 | ETHYLBENZENE | ug/kg | 0.57 U | 393800 | 230 J | 2300 J | 33.2 J | 6.9 J | 0.87 UJ |
| 98-82-8 | ISOPROPYLBENZENE (CUMENE) | ug/kg | 0.55 U | 17600 | 28.1 J | 77 J | 0.81 UJ | 37.9 J | 0.84 UJ |
| XYLMP | M,P-XYLENE (SUM OF ISOMERS) | ug/kg | 0.82 U | 313300 | 270 J | 480 J | 19.6 J | 7 J | 1.3 UJ |
| 79-20-9 | METHYL ACETATE | ug/kg | 1.1 U | 2700 U | 1.6 UJ | 2 UJ | 1.7 UJ | 1.9 UJ | 1.7 UJ |
| 78-93-3 | METHYL ETHYL KETONE (2-BUTANONE) | ug/kg | 3.6 U | 8400 U | 5.1 UJ | 6.2 UJ | 5.3 UJ | 65.4 J | 7.8 J |
| 108-10-1 | METHYL ISOBUTYL KETONE | ug/kg | 2.9 U | 6800 U | 4.1 UJ | 5 UJ | 4.2 UJ | 4.9 UJ | 4.4 UJ |
| 108-87-2 | METHYLCYCLOHEXANE | ug/kg | 0.57 U | 1400 U | 0.81 UJ | 11.4 J | 0.85 UJ | 7.3 J | 0.87 UJ |
| 75-09-2 | METHYLENE CHLORIDE | ug/kg | 0.57 U | 1400 U | 0.81 UJ | 9.7 J | 0.85 UJ | 0.97 UJ | 0.87 UJ |
| 95-47-6 | O-XYLENE (1,2-DIMETHYLBENZENE) | ug/kg | 0.57 U | 152000 | 140 J | 190 J | 13 J | 3.2 J | 0.87 UJ |
| 100-42-5 | STYRENE | ug/kg | 0.52 U | 32100 | 8.4 J | 15.1 J | 0.76 UJ | 0.88 UJ | 0.79 UJ |
| 1634-04-4 | TERT-BUTYL METHYL ETHER | ug/kg | 0.57 U | 1400 U | 0.81 UJ | 1 UJ | 0.85 UJ | 0.97 UJ | 0.87 UJ |
| 127-18-4 | TETRACHLOROETHYLENE(PCE) | ug/kg | 0.57 U | 1400 U | 0.81 UJ | 1 UJ | 0.85 UJ | 0.97 UJ | 0.87 UJ |
| 108-88-3 | TOLUENE | ug/kg | 0.57 U | 262600 | 140 J | 220 J | 4 J | 15 J | 0.87 UJ |
| 156-60-5 | TRANS-1,2-DICHLOROETHENE | ug/kg | 0.57 U | 1400 U | 0.81 UJ | 1 UJ | 0.85 UJ | 0.97 UJ | 0.87 UJ |
| 10061-02-6 | TRANS-1,3-DICHLOROPROPENE | ug/kg | 0.57 U | 1400 U | 0.81 UJ | 1 UJ | 0.85 UJ | 0.97 UJ | 0.87 UJ |
| 79-01-6 | TRICHLOROETHYLENE (TCE) | ug/kg | 0.57 U | 1400 U | 0.81 UJ | 1 UJ | 0.85 UJ | 0.97 UJ | 0.87 UJ |
| 75-69-4 | TRICHLOROFLUOROMETHANE | ug/kg | 0.57 U | 1400 U | 0.81 UJ | 1 UJ | 0.85 UJ | 0.97 UJ | 0.87 UJ |
| 75-01-4 | VINYL CHLORIDE | ug/kg | 0.57 U | 1400 U | 0.81 UJ | 1 UJ | 0.85 UJ | 0.97 UJ | 0.87 UJ |

| Consolidated Edison<br>Farrington Street Holder Station<br>Validated Soil Analytical Data<br>SDG: F1518 | | Location ID:<br>Sample ID:<br>Lab Sample Id:<br>Depth:<br>Source:<br>SDG:<br>Matrix:<br>Sampled:<br>Validated: | CSB-65<br>CSB-65(37-39)<br>F1518-03<br>37 - 39 FT<br>CTECH<br>F1518<br>SOIL<br>2/27/2014<br>5/21/2014 | SB-61<br>SB-61(13-15)<br>F1518-11<br>13 - 15 FT<br>CTECH<br>F1518<br>SOIL<br>2/24/2014<br>5/21/2014 | SB-61<br>SB-61(32-34)<br>F1518-12<br>32 - 34 FT<br>CTECH<br>F1518<br>SOIL<br>2/24/2014<br>5/21/2014 | SB-62<br>SB-62(17-19)<br>F1518-15<br>17 - 19 FT<br>CTECH<br>F1518<br>SOIL<br>2/25/2014<br>5/21/2014 | SB-62<br>SB-62(29-31)<br>F1518-16<br>29 - 31 FT<br>CTECH<br>F1518<br>SOIL<br>2/25/2014<br>5/21/2014 | SB-66<br>SB-66(11-13)<br>F1518-19<br>11 - 13 FT<br>CTECH<br>F1518<br>SOIL<br>2/26/2014<br>5/21/2014 | SB-66<br>SB-66(29-31)<br>F1518-20<br>29 - 31 FT<br>CTECH<br>F1518<br>SOIL<br>2/26/2014<br>5/21/2014 |
|---|---|---|---|---|---|---|---|---|---|
| CAS NO. | COMPOUND | UNITS: | | | | | | | |
| | SEMIVOLATILES | | | | | | | | |
| 95-94-3 | 1,2,4,5-TETRACHLOROBENZENE | ug/kg | 15.1 U | 88.6 UJ | 21.1 UJ | 26.3 UJ | 22.1 UJ | 25.6 UJ | 22.8 UJ |
| 58-90-2 | 2,3,4,6-TETRACHLOROPHENOL | ug/kg | 15.1 U | 88.6 UJ | 21.1 UJ | 26.3 UJ | 22.1 UJ | 25.6 UJ | 22.8 UJ |
| 95-95-4 | 2,4,5-TRICHLOROPHENOL | ug/kg | 26.9 U | 160 UJ | 37.7 UJ | 46.9 UJ | 39.5 UJ | 45.7 UJ | 40.8 UJ |
| 88-06-2 | 2,4,6-TRICHLOROPHENOL | ug/kg | 11.7 U | 69 UJ | 16.5 UJ | 20.4 UJ | 17.2 UJ | 19.9 UJ | 17.8 UJ |
| 120-83-2 | 2,4-DICHLOROPHENOL | ug/kg | 14.6 U | 85.9 U | 20.5 UJ | 25.5 UJ | 21.4 UJ | 24.8 UJ | 22.1 UJ |
| 105-67-9 | 2,4-DIMETHYLPHENOL | ug/kg | 21.8 U | 130 U | 30.5 UJ | 37.9 UJ | 31.9 UJ | 36.9 UJ | 32.9 UJ |
| 51-28-5 | 2,4-DINITROPHENOL | ug/kg | 39 UJ | 230 UJ | 54.7 UJ | 68 UJ | 57.2 UJ | 66.1 UJ | 59.1 UJ |
| 121-14-2 | 2,4-DINITROTOLUENE | ug/kg | 11.5 UJ | 67.7 UJ | 16.1 UJ | 20 UJ | 16.9 UJ | 19.5 UJ | 17.4 UJ |
| 606-20-2 | 2,6-DINITROTOLUENE | ug/kg | 15.7 U | 92 UJ | 21.9 UJ | 27.3 UJ | 23 UJ | 26.5 UJ | 23.7 UJ |
| 91-58-7 | 2-CHLORONAPHTHALENE | ug/kg | 8.7 U | 51.4 UJ | 12.3 UJ | 15.2 UJ | 12.8 UJ | 14.8 UJ | 13.2 UJ |
| 95-57-8 | 2-CHLOROPHENOL | ug/kg | 20.3 U | 120 U | 28.4 UJ | 35.3 UJ | 29.7 UJ | 34.3 UJ | 30.7 UJ |
| 91-57-6 | 2-METHYLNAPHTHALENE | ug/kg | 9.7 U | 1726500 | 13.5 UJ | 270 J | 150 J | 16.4 UJ | 14.6 UJ |
| 95-48-7 | 2-METHYLPHENOL (O-CRESOL) | ug/kg | 20.8 U | 120 U | 29.2 UJ | 36.3 UJ | 30.6 UJ | 35.3 UJ | 31.5 UJ |
| 88-74-4 | 2-NITROANILINE | ug/kg | 17 U | 100 UJ | 23.9 UJ | 29.7 UJ | 25 UJ | 28.9 UJ | 25.8 UJ |
| 88-75-5 | 2-NITROPHENOL | ug/kg | 18.5 UJ | 110 U | 26 UJ | 32.3 UJ | 27.2 UJ | 31.4 UJ | 28.1 UJ |
| MEPH3MEPH | 3- AND 4- METHYLPHENOL (TOTAL) | ug/kg | 19.9 U | 120 U | 27.9 UJ | 34.7 UJ | 29.2 UJ | 33.8 UJ | 30.1 UJ |
| 91-94-1 | 3,3'-DICHLOROBENZIDINE | ug/kg | 24.6 U | 140 UJ | 34.5 UJ | 42.9 UJ | 36.1 UJ | 41.8 UJ | 37.3 UJ |
| 99-09-2 | 3-NITROANILINE | ug/kg | 24.6 U | 140 UJ | 34.5 UJ | 42.9 UJ | 36.1 UJ | 41.8 UJ | 37.3 UJ |
| 534-52-1 | 4,6-DINITRO-2-METHYLPHENOL | ug/kg | 22 UJ | 130 U | 30.8 UJ | 38.3 UJ | 32.3 UJ | 37.3 UJ | 33.3 UJ |
| 101-55-3 | 4-BROMOPHENYL PHENYL ETHER | ug/kg | 7.5 U | 44 UJ | 10.5 UJ | 13 UJ | 11 UJ | 12.7 UJ | 11.3 UJ |
| 59-50-7 | 4-CHLORO-3-METHYLPHENOL | ug/kg | 17 U | 100 U | 23.9 UJ | 29.7 UJ | 25 UJ | 28.9 UJ | 25.8 UJ |
| 106-47-8 | 4-CHLOROANILINE | ug/kg | 27 U | 160 UJ | 37.9 UJ | 47.1 UJ | 39.7 UJ | 45.9 UJ | 40.9 UJ |
| 7005-72-3 | 4-CHLOROPHENYL PHENYL ETHER | ug/kg | 20.8 U | 120 UJ | 29.2 UJ | 36.3 UJ | 30.6 UJ | 35.3 UJ | 31.5 UJ |
| 100-01-6 | 4-NITROANILINE | ug/kg | 50 U | 290 UJ | 70 UJ | 87 UJ | 73.3 UJ | 84.7 UJ | 75.6 UJ |
| 100-02-7 | 4-NITROPHENOL | ug/kg | 71.2 U | 420 UJ | 99.8 UJ | 120 UJ | 100 UJ | 120 UJ | 110 UJ |
| 83-32-9 | ACENAPHTHENE | ug/kg | 10.8 U | 314500 | 15.2 UJ | 18.8 UJ | 15.9 UJ | 170 J | 16.4 UJ |
| 208-96-8 | ACENAPHTHYLENE | ug/kg | 9.7 U | 343300 | 13.5 UJ | 210 J | 14.2 UJ | 250 J | 14.6 UJ |
| 98-86-2 | ACETOPHENONE | ug/kg | 11.7 U | 69 UJ | 16.5 UJ | 20.4 UJ | 17.2 UJ | 19.9 UJ | 17.8 UJ |
| 120-12-7 | ANTHRACENE | ug/kg | 7.8 U | 228500 | 11 UJ | 13.6 UJ | 11.5 UJ | 150 J | 11.8 UJ |
| 1912-24-9 | ATRAZINE | ug/kg | 20.3 U | 120 UJ | 28.4 UJ | 35.3 UJ | 29.7 UJ | 34.3 UJ | 30.7 UJ |
| 100-52-7 | BENZALDEHYDE | ug/kg | 20 U | 120 UJ | 28.1 UJ | 34.9 UJ | 29.4 UJ | 34 UJ | 30.3 UJ |
| 56-55-3 | BENZO(A)ANTHRACENE | ug/kg | 18.3 U | 153300 | 25.6 UJ | 31.9 UJ | 26.9 UJ | 170 J | 27.7 UJ |
| 50-32-8 | BENZO(A)PYRENE | ug/kg | 8.3 U | 117500 | 11.6 UJ | 14.4 UJ | 12.2 UJ | 180 J | 12.5 UJ |
| 205-99-2 | BENZO(B)FLUORANTHENE | ug/kg | 12.5 U | 93600 | 17.6 UJ | 21.9 UJ | 18.4 UJ | 160 J | 19 UJ |
| 191-24-2 | BENZO(G,H,I)PERYLENE | ug/kg | 15.5 U | 37800 | 21.8 UJ | 27.1 UJ | 22.8 UJ | 26.3 UJ | 23.5 UJ |
| 207-08-9 | BENZO(K)FLUORANTHENE | ug/kg | 18.1 U | 16400 J | 25.3 UJ | 31.5 UJ | 26.5 UJ | 30.6 UJ | 27.4 UJ |
| 85-68-7 | BENZYL BUTYL PHTHALATE | ug/kg | 18.4 U | 110 UJ | 25.8 UJ | 32.1 UJ | 27 UJ | 31.2 UJ | 27.9 UJ |
| 92-52-4 | BIPHENYL (DIPHENYL) | ug/kg | 14.5 U | 145000 | 20.3 UJ | 25.3 UJ | 21.3 UJ | 24.6 UJ | 22 UJ |
| 111-91-1 | BIS(2-CHLOROETHOXY) METHANE | ug/kg | 22.1 U | 130 UJ | 31 UJ | 38.5 UJ | 32.4 UJ | 37.5 UJ | 33.5 UJ |
| 111-44-4 | BIS(2-CHLOROETHYL) ETHER | ug/kg | 18.4 U | 110 UJ | 25.8 UJ | 32.1 UJ | 27 UJ | 31.2 UJ | 27.9 UJ |
| 108-60-1 | BIS(2-CHLOROISOPROPYL) ETHER | ug/kg | 15.9 U | 93.4 UJ | 22.3 UJ | 27.7 UJ | 23.3 UJ | 26.9 UJ | 24 UJ |
| 117-81-7 | BIS(2-ETHYLHEXYL) PHTHALATE | ug/kg | 130 J | 79.8 UJ | 110 J | 150 J | 19.9 UJ | 140 J | 20.6 UJ |
| 105-60-2 | CAPROLACTAM | ug/kg | 17.8 U | 100 UJ | 25 UJ | 31.1 UJ | 26.2 UJ | 30.2 UJ | 27 UJ |
| 86-74-8 | CARBAZOLE | ug/kg | 8.4 U | 10300 J | 11.8 UJ | 14.6 UJ | 12.3 UJ | 14.2 UJ | 12.7 UJ |
| 218-01-9 | CHRYSENE | ug/kg | 17.4 U | 131000 | 24.4 UJ | 30.3 UJ | 25.5 UJ | 140 J | 26.3 UJ |
| 53-70-3 | DIBENZ(A,H)ANTHRACENE | ug/kg | 11 U | 13200 J | 15.5 UJ | 19.2 UJ | 16.2 UJ | 18.7 UJ | 16.7 UJ |
| 132-64-9 | DIBENZOFURAN | ug/kg | 15 U | 43200 | 21 UJ | 26.1 UJ | 22 UJ | 25.4 UJ | 22.6 UJ |
| 84-66-2 | DIETHYL PHTHALATE | ug/kg | 6 U | 35.2 UJ | 8.4 UJ | 10.4 UJ | 8.8 UJ | 10.1 UJ | 9.1 UJ |
| 131-11-3 | DIMETHYL PHTHALATE | ug/kg | 450 | 60.9 UJ | 450 J | 1500 J | 1300 J | 1100 J | 920 J |
| 84-74-2 | DI-N-BUTYL PHTHALATE | ug/kg | 30.2 U | 180 UJ | 42.3 UJ | 52.5 UJ | 44.2 UJ | 51.1 UJ | 45.6 UJ |
| 117-84-0 | DI-N-OCTYLPHTHALATE | ug/kg | 4.4 U | 25.7 UJ | 6.1 UJ | 7.6 UJ | 6.4 UJ | 7.4 UJ | 6.6 UJ |
| 206-44-0 | FLUORANTHENE | ug/kg | 7.7 U | 265300 | 10.8 UJ | 13.4 UJ | 11.3 UJ | 200 J | 11.7 UJ |
| 86-73-7 | FLUORENE | ug/kg | 14.5 U | 447000 | 20.3 UJ | 25.3 UJ | 21.3 UJ | 24.6 UJ | 22 UJ |
| 118-74-1 | HEXACHLOROBENZENE | ug/kg | 15.7 U | 92 UJ | 21.9 UJ | 27.3 UJ | 23 UJ | 26.5 UJ | 23.7 UJ |
| 87-68-3 | HEXACHLOROBUTADIENE | ug/kg | 13.9 U | 81.9 UJ | 19.5 UJ | 24.3 UJ | 20.4 UJ | 23.6 UJ | 21.1 UJ |
| 77-47-4 | HEXACHLOROCYCLOPENTADIENE | ug/kg | 9.3 U | 54.8 UJ | 13.1 UJ | 16.2 UJ | 13.7 UJ | 15.8 UJ | 14.1 UJ |
| 67-72-1 | HEXACHLOROETHANE | ug/kg | 17.1 U | 100 UJ | 24 UJ | 29.9 UJ | 25.2 UJ | 29.1 UJ | 26 UJ |
| 193-39-5 | INDENO(1,2,3-C,D)PYRENE | ug/kg | 12.8 U | 31000 | 17.9 UJ | 22.3 UJ | 18.7 UJ | 21.7 UJ | 19.3 UJ |
| 78-59-1 | ISOPHORONE | ug/kg | 12.7 U | 74.4 UJ | 17.7 UJ | 22.1 UJ | 18.6 UJ | 21.5 UJ | 19.2 UJ |
| 91-20-3 | NAPHTHALENE | ug/kg | 13.2 U | 3169900 | 140 J | 980 J | 350 J | 22.4 UJ | 20 UJ |
| 98-95-3 | NITROBENZENE | ug/kg | 14.5 U | 85.3 UJ | 20.3 UJ | 25.3 UJ | 21.3 UJ | 24.6 UJ | 22 UJ |
| 621-64-7 | N-NITROSODI-N-PROPYLAMINE | ug/kg | 19.3 U | 110 UJ | 27.1 UJ | 33.7 UJ | 28.4 UJ | 32.8 UJ | 29.3 UJ |
| 86-30-6 | N-NITROSODIPHENYLAMINE | ug/kg | 9.2 U | 54.1 UJ | 12.9 UJ | 16 UJ | 13.5 UJ | 15.6 UJ | 13.9 UJ |
| 87-86-5 | PENTACHLOROPHENOL | ug/kg | 26.2 U | 150 U | 36.8 UJ | 45.7 UJ | 38.5 UJ | 44.5 UJ | 39.7 UJ |
| 85-01-8 | PHENANTHRENE | ug/kg | 10.4 U | 843500 J | 14.5 UJ | 18 UJ | 15.2 UJ | 270 J | 15.7 UJ |
| 108-95-2 | PHENOL | ug/kg | 8.9 U | 52.1 U | 12.4 UJ | 170 J | 13 UJ | 15 UJ | 13.4 UJ |
| 129-00-0 | PYRENE | ug/kg | 9.2 U | 396700 | 12.9 UJ | 16 UJ | 13.5 UJ | 320 J | 13.9 UJ |

| Consolidated Edison<br>Farrington Street Holder Station<br>Validated Soil Analytical Data<br>SDG: F1518 | | Location ID:<br>Sample ID:<br>Lab Sample Id:<br>Depth:<br>Source:<br>SDG:<br>Matrix:<br>Sampled:<br>Validated: | CSB-65<br>CSB-65(37-39)<br>F1518-03<br>37 - 39 FT<br>CTECH<br>F1518<br>SOIL<br>2/27/2014<br>5/21/2014 | SB-61<br>SB-61(13-15)<br>F1518-11<br>13 - 15 FT<br>CTECH<br>F1518<br>SOIL<br>2/24/2014<br>5/21/2014 | SB-61<br>SB-61(32-34)<br>F1518-12<br>32 - 34 FT<br>CTECH<br>F1518<br>SOIL<br>2/24/2014<br>5/21/2014 | SB-62<br>SB-62(17-19)<br>F1518-15<br>17 - 19 FT<br>CTECH<br>F1518<br>SOIL<br>2/25/2014<br>5/21/2014 | SB-62<br>SB-62(29-31)<br>F1518-16<br>29 - 31 FT<br>CTECH<br>F1518<br>SOIL<br>2/25/2014<br>5/21/2014 | SB-66<br>SB-66(11-13)<br>F1518-19<br>11 - 13 FT<br>CTECH<br>F1518<br>SOIL<br>2/26/2014<br>5/21/2014 | SB-66<br>SB-66(29-31)<br>F1518-20<br>29 - 31 FT<br>CTECH<br>F1518<br>SOIL<br>2/26/2014<br>5/21/2014 |
|---|---|---|---|---|---|---|---|---|---|
| CAS NO. | COMPOUND | UNITS: | | | | | | | |
| | INORGANICS | | | | | | | | |
| 7429-90-5 | ALUMINUM | mg/kg | 6930 | 3010 | 15000 | 17600 J | 15700 | 7940 | 17000 |
| 7440-36-0 | ANTIMONY | mg/kg | 0.533 U | 0.635 U | 0.774 U | 0.945 UJ | 0.784 U | 0.897 U | 0.839 U |
| 7440-38-2 | ARSENIC | mg/kg | 4.15 | 11.7 | 9.04 | 6.41 J | 9.84 | 12 | 10.41 |
| 7440-39-3 | BARIUM | mg/kg | 46.4 J+ | 68.5 J+ | 39.9 J+ | 42 J | 57.7 J+ | 103 J+ | 39.1 J+ |
| 7440-41-7 | BERYLLIUM | mg/kg | 0.057 U | 0.068 U | 0.083 U | 0.101 UJ | 0.084 U | 0.096 U | 0.09 U |
| 7440-43-9 | CADMIUM | mg/kg | 0.809 | 1.04 | 1.17 | 0.947 J | 1.33 | 1.17 | 1.58 |
| 7440-70-2 | CALCIUM | mg/kg | 1440 J | 2930 J | 1730 J | 4990 J | 6310 J | 17600 J | 4590 J |
| 7440-47-3 | CHROMIUM, TOTAL | mg/kg | 22.3 | 10.91 | 34.2 | 36.3 J | 33.2 | 24.2 | 35.9 |
| 7440-48-4 | COBALT | mg/kg | 13.1 J+ | 7.55 J+ | 15.8 J+ | 13.9 J | 15.7 J+ | 6.62 J+ | 16.8 J+ |
| 7440-50-8 | COPPER | mg/kg | 14.2 J | 78.4 J | 6.44 J | 7.22 J | 6.38 J | 200 J | 6.4 J |
| 7439-89-6 | IRON | mg/kg | 30100 | 21700 | 40400 | 39300 J | 42400 | 33000 | 44600 |
| 7439-92-1 | LEAD | mg/kg | 11.5 | 406 | 14.2 | 26.2 J | 40.4 | 372 | 19 |
| 7439-95-4 | MAGNESIUM | mg/kg | 3020 | 847 | 9170 | 9510 J | 8840 | 10500 | 9700 |
| 7439-96-5 | MANGANESE | mg/kg | 199 J | 84.8 J | 634 J | 410 J | 613 J | 165 J | 664 J |
| 7439-97-6 | MERCURY | mg/kg | 0.008 J | 0.283 | 0.009 J | 0.01 UJ | 0.197 | 0.125 | 0.017 |
| 7440-02-0 | NICKEL | mg/kg | 26.8 | 23 | 30.5 | 31.9 J | 32.1 | 15.8 | 35.1 |
| 7440-09-7 | POTASSIUM | mg/kg | 2140 | 431 | 4190 | 4540 J | 3930 | 1510 | 4450 |
| 7782-49-2 | SELENIUM | mg/kg | 1.41 | 3.24 | 1.94 | 1.91 J | 2.08 | 2.58 | 1.9 |
| 7440-22-4 | SILVER | mg/kg | 1.15 | 0.734 | 1.44 | 1.42 J | 1.56 | 0.808 | 1.55 |
| 7440-23-5 | SODIUM | mg/kg | 1610 | 603 | 6220 | 3960 J | 3480 | 978 | 3970 |
| 7440-28-0 | THALLIUM | mg/kg | 0.257 U | 0.306 U | 0.373 U | 0.456 UJ | 0.378 U | 0.432 U | 0.404 U |
| 7440-62-2 | VANADIUM | mg/kg | 27.7 | 21.5 | 42 | 48.6 J | 39.5 | 29.8 | 42.3 |
| 7440-66-6 | ZINC | mg/kg | 60.1 | 355 | 83.8 | 90.1 J | 117 | 289 | 104 |
| 57-12-5 | CYANIDE | mg/kg | 0.09 J | 28.6 | 0.064 J | 0.143 J | 0.056 U | 0.293 J | 0.083 J |

| Consolidated Edison<br>Farrington Street Holder Station<br>Validated Soil Analytical Data<br>SDG: F1518 | | Location ID:<br>Sample ID:<br>Lab Sample Id:<br>Depth:<br>Source:<br>SDG:<br>Matrix:<br>Sampled:<br>Validated: | SB-69<br>SB-69(9-11)<br>F1518-17<br>9 - 11 FT<br>CTECH<br>F1518<br>SOIL<br>2/26/2014<br>5/21/2014 | SB-69<br>SB-69(29-31)<br>F1518-18<br>29 - 31 FT<br>CTECH<br>F1518<br>SOIL<br>2/26/2014<br>5/21/2014 | SB-70<br>SB-70(7-9)<br>F1518-13<br>7 - 9 FT<br>CTECH<br>F1518<br>SOIL<br>2/24/2014<br>5/21/2014 | SB-70<br>SB-70(29-31)<br>F1518-14<br>29 - 31 FT<br>CTECH<br>F1518<br>SOIL<br>2/24/2014<br>5/21/2014 | FIELDQC<br>FB022714<br>F1518-04<br>-<br>CTECH<br>F1518<br>SOIL<br>2/27/2014<br>5/21/2014 |
|---|---|---|---|---|---|---|---|
| CAS NO. | COMPOUND | UNITS: | | | | | ug/L |
| | VOLATILES | | | | | | |
| 71-55-6 | 1,1,1-TRICHLOROETHANE | ug/kg | 0.67 U | 0.63 U | 0.56 U | 0.66 U | 0.4 U |
| 79-34-5 | 1,1,2,2-TETRACHLOROETHANE | ug/kg | 0.61 U | 0.58 U | 0.52 U | 0.61 U | 0.31 U |
| 76-13-1 | 1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE | ug/kg | 0.67 U | 0.63 U | 0.56 U | 0.66 U | 0.45 U |
| 79-00-5 | 1,1,2-TRICHLOROETHANE | ug/kg | 1.2 U | 1.1 U | 1 U | 1.2 U | 0.38 U |
| 75-34-3 | 1,1-DICHLOROETHANE | ug/kg | 0.67 U | 0.63 U | 0.56 U | 0.66 U | 0.36 U |
| 75-35-4 | 1,1-DICHLOROETHENE | ug/kg | 0.67 U | 0.63 U | 0.56 U | 0.66 U | 0.47 U |
| 87-61-6 | 1,2,3-TRICHLOROBENZENE | ug/kg | 0.67 U | 0.63 U | 0.56 U | 0.66 U | 0.2 U |
| 120-82-1 | 1,2,4-TRICHLOROBENZENE | ug/kg | 0.67 U | 0.63 U | 0.56 U | 0.66 U | 0.2 U |
| 96-12-8 | 1,2-DIBROMO-3-CHLOROPROPANE | ug/kg | 1.2 U | 1.1 U | 0.98 U | 1.2 U | 0.46 U |
| 106-93-4 | 1,2-DIBROMOETHANE | ug/kg | 0.67 U | 0.63 U | 0.56 U | 0.66 U | 0.41 U |
| 95-50-1 | 1,2-DICHLOROBENZENE | ug/kg | 0.67 U | 0.63 U | 0.56 U | 0.66 U | 0.45 U |
| 107-06-2 | 1,2-DICHLOROETHANE | ug/kg | 0.67 U | 0.63 U | 0.56 U | 0.66 U | 0.48 U |
| 78-87-5 | 1,2-DICHLOROPROPANE | ug/kg | 0.35 U | 0.33 U | 0.29 U | 0.34 U | 0.46 U |
| 541-73-1 | 1,3-DICHLOROBENZENE | ug/kg | 0.49 U | 0.46 U | 0.42 U | 0.49 U | 0.43 U |
| 106-46-7 | 1,4-DICHLOROBENZENE | ug/kg | 0.55 U | 0.51 U | 0.46 U | 0.54 U | 0.32 U |
| 123-91-1 | 1,4-DIOXANE (P-DIOXANE) | ug/kg | R | R | R | R | R |
| 591-78-6 | 2-HEXANONE | ug/kg | 3.3 U | 3.1 U | 2.8 U | 3.3 U | 1.9 U |
| 67-64-1 | ACETONE | ug/kg | 50.9 J+ | 3.1 U | 45.6 | 3.3 U | 15 J |
| 71-43-2 | BENZENE | ug/kg | 2400 | 2.5 J | 12.8 | 11 | 0.32 U |
| 74-97-5 | BROMOCHLOROMETHANE | ug/kg | 0.67 U | 0.63 U | 0.56 U | 0.66 U | 0.2 U |
| 75-27-4 | BROMODICHLOROMETHANE | ug/kg | 0.67 U | 0.63 U | 0.56 U | 0.66 U | 0.36 U |
| 75-25-2 | BROMOFORM | ug/kg | 0.99 U | 0.93 U | 0.84 U | 0.98 U | 0.47 U |
| 74-83-9 | BROMOMETHANE | ug/kg | 1.3 U | 1.3 U | 1.1 U | 1.3 U | 0.2 U |
| 75-15-0 | CARBON DISULFIDE | ug/kg | 4.3 J | 0.63 U | 0.56 U | 0.66 U | 0.2 U |
| 56-23-5 | CARBON TETRACHLORIDE | ug/kg | 0.67 U | 0.63 U | 0.56 U | 0.66 U | 0.2 U |
| 108-90-7 | CHLOROBENZENE | ug/kg | 0.67 U | 0.63 U | 0.56 U | 0.66 U | 0.49 U |
| 75-00-3 | CHLOROETHANE | ug/kg | 0.67 UJ | 0.63 UJ | 0.56 UJ | 0.66 UJ | 0.2 U |
| 67-66-3 | CHLOROFORM | ug/kg | 0.67 U | 0.63 U | 0.56 U | 0.66 U | 0.34 U |
| 74-87-3 | CHLOROMETHANE | ug/kg | 0.67 U | 0.63 U | 0.56 U | 0.66 U | 0.2 U |
| 156-59-2 | CIS-1,2-DICHLOROETHYLENE | ug/kg | 0.67 U | 0.63 U | 0.56 U | 0.66 U | 0.35 U |
| 10061-01-5 | CIS-1,3-DICHLOROPROPENE | ug/kg | 0.67 U | 0.63 U | 0.56 U | 0.66 U | 0.31 U |
| 110-82-7 | CYCLOHEXANE | ug/kg | 0.67 U | 0.63 U | 0.56 U | 0.66 U | 0.2 U |
| 124-48-1 | DIBROMOCHLOROMETHANE | ug/kg | 0.67 U | 0.63 U | 0.56 U | 0.66 U | 0.2 U |
| 75-71-8 | DICHLORODIFLUOROMETHANE | ug/kg | 0.67 U | 0.63 U | 0.56 U | 0.66 U | 0.2 U |
| 100-41-4 | ETHYLBENZENE | ug/kg | 40.5 | 0.63 U | 18 | 1.8 J | 0.2 U |
| 98-82-8 | ISOPROPYLBENZENE (CUMENE) | ug/kg | 0.64 U | 0.6 U | 1.4 J | 0.63 U | 0.45 U |
| XYLMP | M,P-XYLENE (SUM OF ISOMERS) | ug/kg | 25.5 | 0.9 U | 22.6 | 1.4 J | 0.95 U |
| 79-20-9 | METHYL ACETATE | ug/kg | 1.3 U | 1.3 U | 1.1 U | 1.3 U | 0.2 U |
| 78-93-3 | METHYL ETHYL KETONE (2-BUTANONE) | ug/kg | 9.5 J | 3.9 U | 4.3 J | 4.1 U | 1.3 U |
| 108-10-1 | METHYL ISOBUTYL KETONE | ug/kg | 3.3 U | 3.1 U | 2.8 U | 3.3 U | 2.1 U |
| 108-87-2 | METHYLCYCLOHEXANE | ug/kg | 0.67 U | 0.63 U | 0.56 U | 0.66 U | 0.2 U |
| 75-09-2 | METHYLENE CHLORIDE | ug/kg | 0.67 U | 0.63 U | 0.56 U | 0.66 U | 2.1 J |
| 95-47-6 | O-XYLENE (1,2-DIMETHYLBENZENE) | ug/kg | 7.8 | 0.63 U | 14.8 | 0.66 U | 0.43 U |
| 100-42-5 | STYRENE | ug/kg | 0.6 U | 0.56 U | 2.1 J | 0.59 U | 0.36 U |
| 1634-04-4 | TERT-BUTYL METHYL ETHER | ug/kg | 0.67 U | 0.63 U | 0.56 U | 2.6 J | 0.35 U |
| 127-18-4 | TETRACHLOROETHYLENE(PCE) | ug/kg | 0.67 U | 0.63 U | 0.56 U | 0.66 U | 0.27 U |
| 108-88-3 | TOLUENE | ug/kg | 10 | 0.63 U | 19.7 | 5.7 J | 0.37 U |
| 156-60-5 | TRANS-1,2-DICHLOROETHENE | ug/kg | 0.67 U | 0.63 U | 0.56 U | 0.66 U | 0.41 U |
| 10061-02-6 | TRANS-1,3-DICHLOROPROPENE | ug/kg | 0.67 U | 0.63 U | 0.56 U | 0.66 U | 0.29 U |
| 79-01-6 | TRICHLOROETHYLENE (TCE) | ug/kg | 0.67 U | 0.63 U | 0.56 U | 0.66 U | 0.28 U |
| 75-69-4 | TRICHLOROFLUOROMETHANE | ug/kg | 0.67 U | 0.63 U | 0.56 UJ | 0.66 U | 0.35 U |
| 75-01-4 | VINYL CHLORIDE | ug/kg | 0.67 U | 0.63 U | 0.56 U | 0.66 U | 0.34 U |

| Consolidated Edison<br>Farrington Street Holder Station<br>Validated Soil Analytical Data<br>SDG: F1518 | | Location ID:<br>Sample ID:<br>Lab Sample Id:<br>Depth:<br>Source:<br>SDG:<br>Matrix:<br>Sampled:<br>Validated: | SB-69<br>SB-69(9-11)<br>F1518-17<br>9 - 11 FT<br>CTECH<br>F1518<br>SOIL<br>2/26/2014<br>5/21/2014 | SB-69<br>SB-69(29-31)<br>F1518-18<br>29 - 31 FT<br>CTECH<br>F1518<br>SOIL<br>2/26/2014<br>5/21/2014 | SB-70<br>SB-70(7-9)<br>F1518-13<br>7 - 9 FT<br>CTECH<br>F1518<br>SOIL<br>2/24/2014<br>5/21/2014 | SB-70<br>SB-70(29-31)<br>F1518-14<br>29 - 31 FT<br>CTECH<br>F1518<br>SOIL<br>2/24/2014<br>5/21/2014 | FIELDQC<br>FB022714<br>F1518-04<br>-<br>CTECH<br>F1518<br>SOIL<br>2/27/2014<br>5/21/2014 |
|---|---|---|---|---|---|---|---|
| CAS NO. | COMPOUND | UNITS: | | | | | ug/L |
| | SEMIVOLATILES | | | | | | |
| 95-94-3 | 1,2,4,5-TETRACHLOROBENZENE | ug/kg | 17.5 U | 16.4 U | 150 U | 17.2 U | 0.25 U |
| 58-90-2 | 2,3,4,6-TETRACHLOROPHENOL | ug/kg | 17.5 U | 16.4 U | 150 U | 17.2 U | 0.25 U |
| 95-95-4 | 2,4,5-TRICHLOROPHENOL | ug/kg | 31.2 U | 29.3 U | 260 U | 30.7 U | 0.49 U |
| 88-06-2 | 2,4,6-TRICHLOROPHENOL | ug/kg | 13.6 U | 12.8 U | 110 U | 13.4 U | 0.69 U |
| 120-83-2 | 2,4-DICHLOROPHENOL | ug/kg | 17 U | 15.9 U | 140 U | 16.7 U | 0.81 U |
| 105-67-9 | 2,4-DIMETHYLPHENOL | ug/kg | 25.2 U | 23.7 U | 210 U | 24.8 U | 0.88 U |
| 51-28-5 | 2,4-DINITROPHENOL | ug/kg | 45.3 U | 42.4 UJ | 380 UJ | 44.5 UJ | 2.6 UJ |
| 121-14-2 | 2,4-DINITROTOLUENE | ug/kg | 13.4 U | 12.5 U | 110 UJ | 13.1 U | 1.2 U |
| 606-20-2 | 2,6-DINITROTOLUENE | ug/kg | 18.2 U | 17 U | 150 U | 17.8 U | 0.4 U |
| 91-58-7 | 2-CHLORONAPHTHALENE | ug/kg | 10.1 U | 9.5 U | 85.3 U | 10 U | 0.2 U |
| 95-57-8 | 2-CHLOROPHENOL | ug/kg | 23.5 U | 22 U | 200 U | 23.1 U | 0.67 U |
| 91-57-6 | 2-METHYLNAPHTHALENE | ug/kg | 11.2 U | 10.5 U | 3300 J | 11 U | 0.4 U |
| 95-48-7 | 2-METHYLPHENOL (O-CRESOL) | ug/kg | 24.2 U | 22.7 U | 200 U | 23.8 U | 0.3 U |
| 88-74-4 | 2-NITROANILINE | ug/kg | 19.8 U | 18.5 U | 170 U | 19.4 U | 0.6 U |
| 88-75-5 | 2-NITROPHENOL | ug/kg | 21.5 U | 20.2 U | 180 UJ | 21.1 U | 0.64 U |
| MEPH3MEPH | 3- AND 4- METHYLPHENOL (TOTAL) | ug/kg | 23.1 U | 21.7 U | 190 U | 22.7 U | 0.47 U |
| 91-94-1 | 3,3'-DICHLOROBENZIDINE | ug/kg | 28.6 U | 26.8 U | 240 U | 28.1 U | 1.2 U |
| 99-09-2 | 3-NITROANILINE | ug/kg | 28.6 U | 26.8 U | 240 U | 28.1 U | 1.2 U |
| 534-52-1 | 4,6-DINITRO-2-METHYLPHENOL | ug/kg | 25.5 U | 23.9 UJ | 210 UJ | 25.1 UJ | 0.91 UJ |
| 101-55-3 | 4-BROMOPHENYL PHENYL ETHER | ug/kg | 8.7 U | 8.1 U | 72.9 U | 8.5 U | 0.28 U |
| 59-50-7 | 4-CHLORO-3-METHYLPHENOL | ug/kg | 19.8 U | 18.5 U | 170 U | 19.4 U | 0.49 U |
| 106-47-8 | 4-CHLOROANILINE | ug/kg | 31.4 U | 29.4 U | 260 U | 30.8 U | 1.2 U |
| 7005-72-3 | 4-CHLOROPHENYL PHENYL ETHER | ug/kg | 24.2 U | 22.7 U | 200 U | 23.8 U | 0.26 U |
| 100-01-6 | 4-NITROANILINE | ug/kg | 57.9 U | 54.3 U | 490 U | 57 U | 1.7 U |
| 100-02-7 | 4-NITROPHENOL | ug/kg | 82.6 U | 77.5 U | 690 U | 81.2 U | 2.5 U |
| 83-32-9 | ACENAPHTHENE | ug/kg | 12.6 U | 11.8 U | 110 U | 12.3 U | 0.26 U |
| 208-96-8 | ACENAPHTHYLENE | ug/kg | 11.2 U | 10.5 U | 790 J | 11 U | 0.86 U |
| 98-86-2 | ACETOPHENONE | ug/kg | 13.6 U | 12.8 U | 110 U | 13.4 U | 0.17 U |
| 120-12-7 | ANTHRACENE | ug/kg | 89.5 J | 8.5 U | 76.3 U | 8.9 U | 0.2 U |
| 1912-24-9 | ATRAZINE | ug/kg | 23.5 U | 22 U | 200 U | 23.1 U | 0.49 U |
| 100-52-7 | BENZALDEHYDE | ug/kg | 23.2 U | 21.8 U | 200 U | 22.8 U | 0.95 U |
| 56-55-3 | BENZO(A)ANTHRACENE | ug/kg | 230 J | 19.9 U | 1100 J | 20.9 U | 0.2 U |
| 50-32-8 | BENZO(A)PYRENE | ug/kg | 190 J | 9 U | 760 J | 9.4 U | 0.17 U |
| 205-99-2 | BENZO(B)FLUORANTHENE | ug/kg | 210 J | 13.6 U | 890 J | 14.3 U | 0.36 U |
| 191-24-2 | BENZO(G,H,I)PERYLENE | ug/kg | 120 J | 16.9 U | 150 U | 17.7 U | 0.36 U |
| 207-08-9 | BENZO(K)FLUORANTHENE | ug/kg | 21 U | 19.7 U | 180 U | 20.6 U | 0.22 U |
| 85-68-7 | BENZYL BUTYL PHTHALATE | ug/kg | 21.4 U | 20 U | 180 U | 21 U | 0.23 U |
| 92-52-4 | BIPHENYL (DIPHENYL) | ug/kg | 16.8 U | 15.8 U | 140 U | 16.5 U | 0.19 U |
| 111-91-1 | BIS(2-CHLOROETHOXY) METHANE | ug/kg | 25.6 U | 24 U | 220 U | 25.2 U | 0.68 U |
| 111-44-4 | BIS(2-CHLOROETHYL) ETHER | ug/kg | 21.4 U | 20 U | 180 U | 21 U | 0.68 U |
| 108-60-1 | BIS(2-CHLOROISOPROPYL) ETHER | ug/kg | 18.4 U | 17.3 U | 150 U | 18.1 U | 0.21 U |
| 117-81-7 | BIS(2-ETHYLHEXYL) PHTHALATE | ug/kg | 120 J | 88 J | 760 J | 15.5 U | 0.2 U |
| 105-60-2 | CAPROLACTAM | ug/kg | 20.7 U | 19.4 U | 170 U | 20.3 U | 1.2 U |
| 86-74-8 | CARBAZOLE | ug/kg | 9.7 U | 9.1 U | 81.9 U | 9.6 U | 0.27 U |
| 218-01-9 | CHRYSENE | ug/kg | 180 J | 18.9 U | 1000 J | 19.8 U | 0.22 U |
| 53-70-3 | DIBENZ(A,H)ANTHRACENE | ug/kg | 12.8 U | 12 U | 110 U | 12.6 U | 0.52 U |
| 132-64-9 | DIBENZOFURAN | ug/kg | 17.4 U | 16.3 U | 150 U | 17.1 U | 0.3 U |
| 84-66-2 | DIETHYL PHTHALATE | ug/kg | 6.9 U | 6.5 U | 58.3 U | 6.8 U | 0.47 U |
| 131-11-3 | DIMETHYL PHTHALATE | ug/kg | 1800 | 620 | 100 U | 960 | 0.27 U |
| 84-74-2 | DI-N-BUTYL PHTHALATE | ug/kg | 35 U | 32.8 U | 290 U | 34.4 U | 1.2 U |
| 117-84-0 | DI-N-OCTYLPHTHALATE | ug/kg | 5.1 U | 4.8 U | 42.6 U | 5 U | 0.63 U |
| 206-44-0 | FLUORANTHENE | ug/kg | 550 | 8.4 U | 3200 J | 8.8 U | 0.49 U |
| 86-73-7 | FLUORENE | ug/kg | 16.8 U | 15.8 U | 810 J | 16.5 U | 0.38 U |
| 118-74-1 | HEXACHLOROBENZENE | ug/kg | 18.2 U | 17 U | 150 U | 17.8 U | 0.22 U |
| 87-68-3 | HEXACHLOROBUTADIENE | ug/kg | 16.2 U | 15.1 U | 140 U | 15.9 U | 0.31 U |
| 77-47-4 | HEXACHLOROCYCLOPENTADIENE | ug/kg | 10.8 U | 10.1 U | 90.9 U | 10.6 U | 0.3 U |
| 67-72-1 | HEXACHLOROETHANE | ug/kg | 19.9 U | 18.7 U | 170 U | 19.6 U | 0.31 U |
| 193-39-5 | INDENO(1,2,3-C,D)PYRENE | ug/kg | 100 J | 13.9 U | 120 U | 14.6 U | 0.19 U |
| 78-59-1 | ISOPHORONE | ug/kg | 14.7 U | 13.8 U | 120 U | 14.4 U | 0.37 U |
| 91-20-3 | NAPHTHALENE | ug/kg | 120 J | 14.4 U | 4700 | 15.1 U | 0.15 U |
| 98-95-3 | NITROBENZENE | ug/kg | 16.8 U | 15.8 U | 140 U | 16.5 U | 0.84 U |
| 621-64-7 | N-NITROSODI-N-PROPYLAMINE | ug/kg | 22.4 U | 21 U | 190 U | 22 U | 0.25 U |
| 86-30-6 | N-NITROSODIPHENYLAMINE | ug/kg | 10.7 U | 10 U | 89.7 U | 10.5 U | 0.74 U |
| 87-86-5 | PENTACHLOROPHENOL | ug/kg | 30.4 U | 28.5 U | 260 U | 29.9 U | 1.2 U |
| 85-01-8 | PHENANTHRENE | ug/kg | 350 J | 11.3 U | 2700 J | 11.8 U | 0.32 U |
| 108-95-2 | PHENOL | ug/kg | 10.3 U | 9.6 U | 86.4 U | 10.1 U | 0.26 U |
| 129-00-0 | PYRENE | ug/kg | 370 J | 10 U | 1900 J | 10.5 U | 0.25 U |

| Consolidated Edison<br>Farrington Street Holder Station<br>Validated Soil Analytical Data<br>SDG: F1518 | | Location ID:<br>Sample ID:<br>Lab Sample Id:<br>Depth:<br>Source:<br>SDG:<br>Matrix:<br>Sampled:<br>Validated: | SB-69<br>SB-69(9-11)<br>F1518-17<br>9 - 11 FT<br>CTECH<br>F1518<br>SOIL<br>2/26/2014<br>5/21/2014 | SB-69<br>SB-69(29-31)<br>F1518-18<br>29 - 31 FT<br>CTECH<br>F1518<br>SOIL<br>2/26/2014<br>5/21/2014 | SB-70<br>SB-70(7-9)<br>F1518-13<br>7 - 9 FT<br>CTECH<br>F1518<br>SOIL<br>2/24/2014<br>5/21/2014 | SB-70<br>SB-70(29-31)<br>F1518-14<br>29 - 31 FT<br>CTECH<br>F1518<br>SOIL<br>2/24/2014<br>5/21/2014 | FIELDQC<br>FB022714<br>F1518-04<br>-<br>CTECH<br>F1518<br>SOIL<br>2/27/2014<br>5/21/2014 |
|---|---|---|---|---|---|---|---|
| CAS NO. | COMPOUND | UNITS: | | | | | ug/L |
| | INORGANICS | | | | | | |
| 7429-90-5 | ALUMINUM | mg/kg | 3320 | 6590 | 6160 | 9070 | 23.6 J |
| 7440-36-0 | ANTIMONY | mg/kg | 2.28 J | 0.586 U | 0.548 U | 0.608 U | 8 U |
| 7440-38-2 | ARSENIC | mg/kg | 3.55 | 2.41 | 5.25 | 1.11 | 4.2 U |
| 7440-39-3 | BARIUM | mg/kg | 53.9 J+ | 41.3 J+ | 53.5 J+ | 86.9 J+ | 4 U |
| 7440-41-7 | BERYLLIUM | mg/kg | 0.069 U | 0.063 U | 0.059 U | 0.065 U | 0.7 U |
| 7440-43-9 | CADMIUM | mg/kg | 0.175 J | 0.331 | 1.09 | 0.503 | 0.5 U |
| 7440-70-2 | CALCIUM | mg/kg | 7220 J | 542 J | 11700 J | 448 J | 300 J |
| 7440-47-3 | CHROMIUM, TOTAL | mg/kg | 7.84 | 16.4 | 13.4 | 24.9 | 1.1 U |
| 7440-48-4 | COBALT | mg/kg | 3.04 J+ | 8.69 J+ | 6.83 J+ | 12.3 J+ | 5.8 U |
| 7440-50-8 | COPPER | mg/kg | 21.6 J | 15.2 J | 29.6 J | 10.36 J | 2 U |
| 7439-89-6 | IRON | mg/kg | 7090 | 20500 | 19100 | 24800 | 2.6 U |
| 7439-92-1 | LEAD | mg/kg | 100 | 5.82 | 94.9 | 3.48 | 56.2 J |
| 7439-95-4 | MAGNESIUM | mg/kg | 1870 | 2590 | 1890 | 4500 | 1.7 U |
| 7439-96-5 | MANGANESE | mg/kg | 49.6 J | 352 J | 212 J | 257 J | 0.1 U |
| 7439-97-6 | MERCURY | mg/kg | 0.108 | 0.006 U | 0.102 | 0.006 U | 4.2 U |
| 7440-02-0 | NICKEL | mg/kg | 9.2 | 17.3 | 17.7 | 19.3 | 591 J |
| 7440-09-7 | POTASSIUM | mg/kg | 724 | 1810 | 581 | 5550 | 3.38 J |
| 7782-49-2 | SELENIUM | mg/kg | 1.79 | 0.728 J | 1.01 | 0.738 J | 1.5 U |
| 7440-22-4 | SILVER | mg/kg | 0.194 J | 0.594 | 0.489 J | 0.529 J | 31.5 J |
| 7440-23-5 | SODIUM | mg/kg | 1770 | 169 | 482 | 151 | 38.8 U |
| 7440-28-0 | THALLIUM | mg/kg | 0.313 U | 0.282 U | 0.264 U | 0.293 U | 6.1 U |
| 7440-62-2 | VANADIUM | mg/kg | 13 | 20.9 | 25.6 | 33.3 | 6.5 U |
| 7440-66-6 | ZINC | mg/kg | 74.2 | 34.2 | 88.2 | 47.4 | 3 U |
| 57-12-5 | CYANIDE | mg/kg | 0.364 | 4.48 | 0.262 J | 0.069 J | 4.8 U |

| Consolidated Edison<br>Farrington Street Remedial Investigatior<br>2014-Validated Soil Analytical Data<br>SDG: F1553 | | Location ID:<br>Sample ID:<br>Lab Sample Id:<br>Depth:<br>Source:<br>SDG:<br>Matrix:<br>Sampled:<br>Validated: | CSB-64<br>CSB-64 (7-9)<br>F1553-03<br>7 - 9 FT<br>CTECH<br>F1553<br>SOIL<br>3/5/2014<br>5/21/2014 | CSB-64<br>CSB-64 (29-31)<br>F1553-04<br>29 - 31 FT<br>CTECH<br>F1553<br>SOIL<br>3/5/2014<br>5/21/2014 | CSB-67<br>CSB-67 (11-13)<br>F1553-02<br>11 - 13 FT<br>CTECH<br>F1553<br>SOIL<br>3/3/2014<br>5/21/2014 | CSB-67<br>CSB-67 (29-31)<br>F1553-01<br>29 - 31 FT<br>CTECH<br>F1553<br>SOIL<br>3/3/2014<br>5/21/2014 | CSB-68<br>CSB-68 (17-19)<br>F1553-05<br>17 - 19 FT<br>CTECH<br>F1553<br>SOIL<br>3/5/2014<br>5/21/2014 | CSB-68<br>CSB-68 (34-35)<br>F1553-06<br>34 - 35 FT<br>CTECH<br>F1553<br>SOIL<br>3/5/2014<br>5/21/2014 | CSB-71<br>CSB-71(7-9)<br>F1553-09<br>7 - 9 FT<br>CTECH<br>F1553<br>SOIL<br>3/6/2014<br>5/21/2014 |
|---|---|---|---|---|---|---|---|---|---|
| CAS NO. | COMPOUND | UNITS: | | | | | | | |
| | VOLATILES | | | | | | | | |
| 71-55-6 | 1,1,1-TRICHLOROETHANE | ug/kg | 0.6 U | 0.85 UJ | 0.68 U | 0.89 UJ | 0.74 UJ | 0.57 U | 0.64 UJ |
| 79-34-5 | 1,1,2,2-TETRACHLOROETHANE | ug/kg | 0.55 U | 0.79 UJ | 0.62 U | 0.82 UJ | 0.68 UJ | 0.53 U | 0.59 UJ |
| 76-13-1 | 1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE | ug/kg | 0.6 U | 0.85 UJ | 0.68 U | 0.89 UJ | 0.74 UJ | 0.57 U | 0.64 U |
| 79-00-5 | 1,1,2-TRICHLOROETHANE | ug/kg | 1.1 U | 1.5 UJ | 1.2 U | 1.6 UJ | 1.3 UJ | 1 U | 1.2 UJ |
| 75-34-3 | 1,1-DICHLOROETHANE | ug/kg | 0.6 U | 0.85 UJ | 0.68 U | 0.89 UJ | 0.74 UJ | 0.57 U | 0.64 U |
| 75-35-4 | 1,1-DICHLOROETHENE | ug/kg | 0.6 U | 0.85 UJ | 0.68 U | 0.89 UJ | 0.74 UJ | 0.57 U | 0.64 U |
| 87-61-6 | 1,2,3-TRICHLOROBENZENE | ug/kg | 0.6 U | 0.85 UJ | 0.68 U | 0.89 UJ | 0.74 UJ | 0.57 U | R |
| 120-82-1 | 1,2,4-TRICHLOROBENZENE | ug/kg | 10.6 | 0.85 UJ | 0.68 U | 0.89 UJ | 0.74 UJ | 0.57 U | R |
| 96-12-8 | 1,2-DIBROMO-3-CHLOROPROPANE | ug/kg | 1 U | 1.5 UJ | 1.2 U | 1.5 UJ | 1.3 UJ | 1 U | R |
| 106-93-4 | 1,2-DIBROMOETHANE | ug/kg | 0.6 U | 0.85 UJ | 0.68 U | 0.89 UJ | 0.74 UJ | 0.57 U | 0.64 UJ |
| 95-50-1 | 1,2-DICHLOROBENZENE | ug/kg | 0.6 U | 0.85 UJ | 0.68 U | 0.89 UJ | 0.74 UJ | 0.57 U | R |
| 107-06-2 | 1,2-DICHLOROETHANE | ug/kg | 0.6 U | 0.85 UJ | 0.68 U | 0.89 UJ | 0.74 UJ | 0.57 U | 0.64 U |
| 78-87-5 | 1,2-DICHLOROPROPANE | ug/kg | 0.31 U | 0.44 UJ | 0.35 U | 0.46 UJ | 0.38 UJ | 0.3 U | 0.33 UJ |
| 541-73-1 | 1,3-DICHLOROBENZENE | ug/kg | 2.3 J | 0.63 UJ | 0.5 U | 0.66 UJ | 0.55 UJ | 0.42 U | R |
| 106-46-7 | 1,4-DICHLOROBENZENE | ug/kg | 8 | 0.7 UJ | 0.55 U | 0.73 UJ | 0.61 UJ | 0.47 U | R |
| 123-91-1 | 1,4-DIOXANE (P-DIOXANE) | ug/kg | R | R | R | R | R | R | R |
| 591-78-6 | 2-HEXANONE | ug/kg | 3 U | 4.3 UJ | 3.4 U | 4.4 UJ | 3.7 UJ | 2.9 U | 3.2 UJ |
| 67-64-1 | ACETONE | ug/kg | 36.6 | 93 J | 580 | 42.6 J | 390 J | 31.7 | 75.4 |
| 71-43-2 | BENZENE | ug/kg | 2.8 J | 2.9 J | 180 J | 0.67 UJ | 7400 J | 0.43 U | 13 J |
| 74-97-5 | BROMOCHLOROMETHANE | ug/kg | 0.6 UJ | 0.85 UJ | 0.68 UJ | 0.89 UJ | 0.74 UJ | 0.57 UJ | 0.64 U |
| 75-27-4 | BROMODICHLOROMETHANE | ug/kg | 0.6 U | 0.85 UJ | 0.68 U | 0.89 UJ | 0.74 UJ | 0.57 U | 0.64 UJ |
| 75-25-2 | BROMOFORM | ug/kg | 0.88 U | 1.3 UJ | 1 U | 1.3 UJ | 1.1 UJ | 0.85 U | R |
| 74-83-9 | BROMOMETHANE | ug/kg | 1.2 U | 1.7 UJ | 1.4 U | 1.8 UJ | 1.5 UJ | 1.1 U | 1.3 U |
| 75-15-0 | CARBON DISULFIDE | ug/kg | 0.6 U | 31 J | 11.2 | 21.4 J | 14.1 J | 0.57 U | 9.2 |
| 56-23-5 | CARBON TETRACHLORIDE | ug/kg | 0.6 U | 0.85 UJ | 0.68 U | 0.89 UJ | 0.74 UJ | 0.57 U | 0.64 UJ |
| 108-90-7 | CHLOROBENZENE | ug/kg | 13.5 | 0.85 UJ | 2 J | 0.89 UJ | 6.2 J | 0.57 U | 75.3 J |
| 75-00-3 | CHLOROETHANE | ug/kg | 0.6 U | 0.85 UJ | 0.68 U | 0.89 UJ | 0.74 UJ | 0.57 U | 0.64 U |
| 67-66-3 | CHLOROFORM | ug/kg | 0.6 U | 0.85 UJ | 0.68 U | 0.89 UJ | 0.74 UJ | 0.57 U | 0.64 U |
| 74-87-3 | CHLOROMETHANE | ug/kg | 0.6 U | 0.85 UJ | 0.68 U | 0.89 UJ | 0.74 UJ | 0.57 U | 0.64 U |
| 156-59-2 | CIS-1,2-DICHLOROETHYLENE | ug/kg | 0.6 U | 0.85 UJ | 0.68 U | 0.89 UJ | 0.74 UJ | 0.57 U | 0.64 U |
| 10061-01-5 | CIS-1,3-DICHLOROPROPENE | ug/kg | 0.6 U | 0.85 UJ | 0.68 U | 0.89 UJ | 0.74 UJ | 0.57 U | 0.64 UJ |
| 110-82-7 | CYCLOHEXANE | ug/kg | 0.6 U | 0.85 UJ | 0.68 U | 0.89 UJ | 3.7 J | 0.57 U | 0.64 UJ |
| 124-48-1 | DIBROMOCHLOROMETHANE | ug/kg | 0.6 U | 0.85 UJ | 0.68 U | 0.89 UJ | 0.74 UJ | 0.57 U | 0.64 UJ |
| 75-71-8 | DICHLORODIFLUOROMETHANE | ug/kg | 0.6 U | 0.85 UJ | 0.68 U | 0.89 UJ | 0.74 UJ | 0.57 U | 0.64 U |
| 100-41-4 | ETHYLBENZENE | ug/kg | 0.6 U | 0.85 UJ | 36.9 | 0.89 UJ | 6600 J | 0.57 U | 0.64 UJ |
| 98-82-8 | ISOPROPYLBENZENE (CUMENE) | ug/kg | 0.57 U | 0.82 UJ | 460 J | 0.85 UJ | 2300 J | 1.2 J | 0.61 UJ |
| XYLMP | M,P-XYLENE (SUM OF ISOMERS) | ug/kg | 0.86 U | 1.2 UJ | 28.6 | 1.3 UJ | 100 J | 0.82 U | 0.92 UJ |
| 79-20-9 | METHYL ACETATE | ug/kg | 1.2 U | 1.7 UJ | 1.4 U | 1.8 UJ | 1.5 UJ | 1.1 U | 1.3 U |
| 78-93-3 | METHYL ETHYL KETONE (2-BUTANONE) | ug/kg | 3.7 U | 20.3 J | 190 | 5.5 UJ | 110 J | 3.6 U | 10.5 J |
| 108-10-1 | METHYL ISOBUTYL KETONE | ug/kg | 3 U | 4.3 UJ | 3.4 U | 4.4 UJ | 3.7 UJ | 2.9 U | 3.2 UJ |
| 108-87-2 | METHYLCYCLOHEXANE | ug/kg | 0.6 U | 0.85 UJ | 75.5 | 0.89 UJ | 22.4 J | 0.57 U | 0.64 UJ |
| 75-09-2 | METHYLENE CHLORIDE | ug/kg | 0.6 U | 0.85 UJ | 0.68 U | 0.89 UJ | 0.74 UJ | 0.57 U | 13.5 |
| 95-47-6 | O-XYLENE (1,2-DIMETHYLBENZENE) | ug/kg | 0.6 U | 0.85 UJ | 17.4 | 0.89 UJ | 200 J | 0.57 U | 0.64 UJ |
| 100-42-5 | STYRENE | ug/kg | 0.54 U | 0.77 UJ | 19.7 | 0.8 UJ | 16.6 J | 0.51 U | 0.58 UJ |
| 1634-04-4 | TERT-BUTYL METHYL ETHER | ug/kg | 0.6 U | 0.85 UJ | 0.68 U | 0.89 UJ | 0.74 UJ | 0.57 U | 0.64 U |
| 127-18-4 | TETRACHLOROETHYLENE(PCE) | ug/kg | 0.6 U | 0.85 UJ | 0.68 U | 0.89 UJ | 0.74 UJ | 0.57 U | 0.64 UJ |
| 108-88-3 | TOLUENE | ug/kg | 1.5 J | 0.85 UJ | 18.6 | 0.89 UJ | 160 J | 0.57 U | 0.64 UJ |
| 156-60-5 | TRANS-1,2-DICHLOROETHENE | ug/kg | 0.6 U | 0.85 UJ | 0.68 U | 0.89 UJ | 0.74 UJ | 0.57 U | 0.64 U |
| 10061-02-6 | TRANS-1,3-DICHLOROPROPENE | ug/kg | 0.6 U | 0.85 UJ | 0.68 U | 0.89 UJ | 0.74 UJ | 0.57 U | 0.64 UJ |
| 79-01-6 | TRICHLOROETHYLENE (TCE) | ug/kg | 0.6 U | 0.85 UJ | 0.68 U | 0.89 UJ | 0.74 UJ | 0.57 U | 0.64 UJ |
| 75-69-4 | TRICHLOROFLUOROMETHANE | ug/kg | 0.6 U | 0.85 UJ | 0.68 U | 0.89 UJ | 0.74 UJ | 0.57 U | 0.64 U |
| 75-01-4 | VINYL CHLORIDE | ug/kg | 0.6 U | 0.85 UJ | 0.68 U | 0.89 UJ | 0.74 UJ | 0.57 U | 0.64 U |

| Consolidated Edison<br>Farrington Street Remedial Investigatior<br>2014-Validated Soil Analytical Data<br>SDG: F1553 | | Location ID:<br>Sample ID:<br>Lab Sample Id:<br>Depth:<br>Source:<br>SDG:<br>Matrix:<br>Sampled:<br>Validated: | CSB-64<br>CSB-64 (7-9)<br>F1553-03<br>7 - 9 FT<br>CTECH<br>F1553<br>SOIL<br>3/5/2014<br>5/21/2014 | CSB-64<br>CSB-64 (29-31)<br>F1553-04<br>29 - 31 FT<br>CTECH<br>F1553<br>SOIL<br>3/5/2014<br>5/21/2014 | CSB-67<br>CSB-67 (11-13)<br>F1553-02<br>11 - 13 FT<br>CTECH<br>F1553<br>SOIL<br>3/3/2014<br>5/21/2014 | CSB-67<br>CSB-67 (29-31)<br>F1553-01<br>29 - 31 FT<br>CTECH<br>F1553<br>SOIL<br>3/3/2014<br>5/21/2014 | CSB-68<br>CSB-68 (17-19)<br>F1553-05<br>17 - 19 FT<br>CTECH<br>F1553<br>SOIL<br>3/5/2014<br>5/21/2014 | CSB-68<br>CSB-68 (34-35)<br>F1553-06<br>34 - 35 FT<br>CTECH<br>F1553<br>SOIL<br>3/5/2014<br>5/21/2014 | CSB-71<br>CSB-71(7-9)<br>F1553-09<br>7 - 9 FT<br>CTECH<br>F1553<br>SOIL<br>3/6/2014<br>5/21/2014 |
|---|---|---|---|---|---|---|---|---|---|
| CAS NO. | COMPOUND | UNITS: | | | | | | | |
| | SEMIVOLATILES | | | | | | | | |
| 95-94-3 | 1,2,4,5-TETRACHLOROBENZENE | ug/kg | 130 J | 22.3 UJ | 17.7 U | 23.2 UJ | 19.3 UJ | 14.9 U | 16.8 U |
| 58-90-2 | 2,3,4,6-TETRACHLOROPHENOL | ug/kg | 15.5 U | 22.3 UJ | 17.7 U | 23.2 UJ | 19.3 UJ | 14.9 U | 16.8 U |
| 95-95-4 | 2,4,5-TRICHLOROPHENOL | ug/kg | 27.7 U | 39.9 UJ | 31.6 U | 41.5 UJ | 34.5 UJ | 26.7 U | 29.9 U |
| 88-06-2 | 2,4,6-TRICHLOROPHENOL | ug/kg | 140 J | 17.4 UJ | 13.8 U | 18.1 UJ | 15 UJ | 11.6 U | 13.1 U |
| 120-83-2 | 2,4-DICHLOROPHENOL | ug/kg | 15.1 U | 21.7 UJ | 17.1 U | 22.5 UJ | 18.7 UJ | 14.5 U | 16.2 U |
| 105-67-9 | 2,4-DIMETHYLPHENOL | ug/kg | 210 J | 32.2 UJ | 25.5 U | 33.5 UJ | 27.9 UJ | 21.6 U | 24.2 U |
| 51-28-5 | 2,4-DINITROPHENOL | ug/kg | 40.2 UJ | 57.8 UJ | 45.7 UJ | 60.1 UJ | 50 UJ | 38.7 UJ | 43.4 UJ |
| 121-14-2 | 2,4-DINITROTOLUENE | ug/kg | 11.9 U | 17 UJ | 13.5 U | 17.7 UJ | 14.7 UJ | 11.4 U | 12.8 U |
| 606-20-2 | 2,6-DINITROTOLUENE | ug/kg | 16.1 U | 23.2 UJ | 18.3 U | 24.1 UJ | 20 UJ | 15.5 U | 17.4 U |
| 91-58-7 | 2-CHLORONAPHTHALENE | ug/kg | 9 U | 13 UJ | 10.3 U | 13.5 UJ | 11.2 UJ | 8.7 U | 9.7 U |
| 95-57-8 | 2-CHLOROPHENOL | ug/kg | 20.9 U | 30 UJ | 23.7 U | 31.2 UJ | 25.9 UJ | 20.1 U | 22.5 U |
| 91-57-6 | 2-METHYLNAPHTHALENE | ug/kg | 6000 | 14.3 UJ | 11.3 U | 14.9 UJ | 6300 | 9.6 U | 10.7 U |
| 95-48-7 | 2-METHYLPHENOL (O-CRESOL) | ug/kg | 93.7 J | 30.9 UJ | 24.4 U | 32.1 UJ | 26.7 UJ | 20.6 U | 23.2 U |
| 88-74-4 | 2-NITROANILINE | ug/kg | 17.5 U | 25.2 UJ | 20 U | 26.3 UJ | 21.8 UJ | 16.9 U | 18.9 U |
| 88-75-5 | 2-NITROPHENOL | ug/kg | 19.1 UJ | 27.4 UJ | 21.7 UJ | 28.6 UJ | 23.7 UJ | 18.4 U | 20.6 UJ |
| MEPH3MEPH | 3- AND 4- METHYLPHENOL (TOTAL) | ug/kg | 310 J | 29.5 UJ | 23.3 U | 30.7 UJ | 25.5 UJ | 19.7 U | 22.1 U |
| 91-94-1 | 3,3'-DICHLOROBENZIDINE | ug/kg | 25.4 U | 36.5 UJ | 28.9 U | 38 UJ | 31.5 UJ | 24.4 U | 27.4 U |
| 99-09-2 | 3-NITROANILINE | ug/kg | 25.4 U | 36.5 UJ | 28.9 U | 38 UJ | 31.5 UJ | 24.4 U | 27.4 U |
| 534-52-1 | 4,6-DINITRO-2-METHYLPHENOL | ug/kg | 22.6 UJ | 32.6 UJ | 25.8 U | 33.9 UJ | 28.1 UJ | 21.8 U | 24.4 U |
| 101-55-3 | 4-BROMOPHENYL PHENYL ETHER | ug/kg | 7.7 UJ | 11.1 UJ | 8.8 U | 11.5 UJ | 9.6 UJ | 7.4 U | 8.3 U |
| 59-50-7 | 4-CHLORO-3-METHYLPHENOL | ug/kg | 17.5 U | 25.2 UJ | 20 U | 26.3 UJ | 21.8 UJ | 16.9 U | 18.9 U |
| 106-47-8 | 4-CHLOROANILINE | ug/kg | 27.9 U | 40.1 UJ | 31.7 U | 41.7 UJ | 34.6 UJ | 26.8 U | 30.1 U |
| 7005-72-3 | 4-CHLOROPHENYL PHENYL ETHER | ug/kg | 21.5 U | 30.9 UJ | 24.4 U | 32.1 UJ | 26.7 UJ | 20.6 U | 23.2 U |
| 100-01-6 | 4-NITROANILINE | ug/kg | 51.5 U | 74 UJ | 58.6 U | 77 UJ | 64 UJ | 49.5 U | 55.5 U |
| 100-02-7 | 4-NITROPHENOL | ug/kg | 73.4 U | 110 UJ | 83.5 U | 110 UJ | 91.2 UJ | 70.6 U | 79.2 U |
| 83-32-9 | ACENAPHTHENE | ug/kg | 31900 | 16 UJ | 470 | 16.7 UJ | 5900 | 10.7 U | 12 U |
| 208-96-8 | ACENAPHTHYLENE | ug/kg | 350 J | 14.3 UJ | 1500 | 14.9 UJ | 10600 | 9.6 U | 10.7 U |
| 98-86-2 | ACETOPHENONE | ug/kg | 12.1 U | 17.4 UJ | 190 J | 18.1 UJ | 450 J | 11.6 U | 13.1 U |
| 120-12-7 | ANTHRACENE | ug/kg | 42200 | 11.6 UJ | 790 | 12.1 UJ | 32800 | 7.8 U | 8.7 U |
| 1912-24-9 | ATRAZINE | ug/kg | 20.9 U | 30 UJ | 23.7 U | 31.2 UJ | 25.9 UJ | 20.1 U | 22.5 U |
| 100-52-7 | BENZALDEHYDE | ug/kg | 20.6 U | 29.7 UJ | 23.5 U | 30.9 UJ | 25.6 UJ | 19.8 U | 22.3 U |
| 56-55-3 | BENZO(A)ANTHRACENE | ug/kg | 70700 | 27.1 UJ | 1600 | 28.2 UJ | 23400 | 18.1 U | 20.3 U |
| 50-32-8 | BENZO(A)PYRENE | ug/kg | 59400 | 12.3 UJ | 1500 | 12.8 UJ | 15100 | 8.2 U | 9.2 U |
| 205-99-2 | BENZO(B)FLUORANTHENE | ug/kg | 64500 | 18.6 UJ | 2900 | 19.3 UJ | 11400 | 12.4 U | 13.9 U |
| 191-24-2 | BENZO(G,H,I)PERYLENE | ug/kg | 32600 | 23 UJ | 1400 | 23.9 UJ | 6000 | 15.4 U | 17.3 U |
| 207-08-9 | BENZO(K)FLUORANTHENE | ug/kg | 26100 | 26.8 UJ | 690 | 27.8 UJ | 5100 | 17.9 U | 20.1 U |
| 85-68-7 | BENZYL BUTYL PHTHALATE | ug/kg | 19 U | 27.3 UJ | 21.6 U | 28.4 UJ | 23.6 UJ | 18.3 U | 20.5 U |
| 92-52-4 | BIPHENYL (DIPHENYL) | ug/kg | 1100 | 21.5 UJ | 17 U | 22.4 UJ | 1900 J | 14.4 U | 16.1 U |
| 111-91-1 | BIS(2-CHLOROETHOXY) METHANE | ug/kg | 22.8 U | 32.7 UJ | 25.9 U | 34.1 UJ | 28.3 UJ | 21.9 U | 24.6 U |
| 111-44-4 | BIS(2-CHLOROETHYL) ETHER | ug/kg | 19 U | 27.3 UJ | 21.6 U | 28.4 UJ | 23.6 UJ | 18.3 U | 20.5 U |
| 108-60-1 | BIS(2-CHLOROISOPROPYL) ETHER | ug/kg | 16.4 U | 23.5 UJ | 18.6 U | 24.5 UJ | 20.3 UJ | 15.7 U | 17.7 U |
| 117-81-7 | BIS(2-ETHYLHEXYL) PHTHALATE | ug/kg | 14 U | 20.1 UJ | 15.9 U | 20.9 UJ | 17.4 UJ | 13.5 U | 15.1 U |
| 105-60-2 | CAPROLACTAM | ug/kg | 18.4 U | 26.4 UJ | 20.9 U | 27.5 UJ | 22.8 UJ | 17.7 U | 19.8 U |
| 86-74-8 | CARBAZOLE | ug/kg | 24000 | 12.4 UJ | 9.8 U | 12.9 UJ | 630 J | 8.3 U | 9.3 U |
| 218-01-9 | CHRYSENE | ug/kg | 60900 | 25.7 UJ | 1600 | 26.8 UJ | 22000 | 17.2 U | 19.3 U |
| 53-70-3 | DIBENZ(A,H)ANTHRACENE | ug/kg | 11700 | 16.4 UJ | 400 J | 17 UJ | 1900 J | 11 U | 12.3 U |
| 132-64-9 | DIBENZOFURAN | ug/kg | 12500 | 22.2 UJ | 17.5 U | 23.1 UJ | 4000 | 14.8 U | 16.6 U |
| 84-66-2 | DIETHYL PHTHALATE | ug/kg | 6.2 U | 8.9 UJ | 7 U | 680 J | 7.7 UJ | 5.9 U | 780 |
| 131-11-3 | DIMETHYL PHTHALATE | ug/kg | 620 | 1100 J | 780 | 1000 J | 890 J | 780 | 430 |
| 84-74-2 | DI-N-BUTYL PHTHALATE | ug/kg | 31.1 UJ | 44.7 UJ | 35.3 U | 46.5 UJ | 38.6 UJ | 29.9 U | 33.5 U |
| 117-84-0 | DI-N-OCTYLPHTHALATE | ug/kg | 4.5 UJ | 6.5 UJ | 5.1 U | 6.7 UJ | 5.6 UJ | 4.3 U | 4.9 U |
| 206-44-0 | FLUORANTHENE | ug/kg | 151300 | 11.4 UJ | 1700 | 11.9 UJ | 39500 | 7.6 U | 8.6 U |
| 86-73-7 | FLUORENE | ug/kg | 26400 | 21.5 UJ | 340 J | 22.4 UJ | 30900 | 14.4 U | 16.1 U |
| 118-74-1 | HEXACHLOROBENZENE | ug/kg | 16.1 UJ | 23.2 UJ | 18.3 U | 24.1 UJ | 20 UJ | 15.5 U | 17.4 U |
| 87-68-3 | HEXACHLOROBUTADIENE | ug/kg | 14.3 U | 20.6 UJ | 16.3 U | 21.5 UJ | 17.8 UJ | 13.8 U | 15.5 U |
| 77-47-4 | HEXACHLOROCYCLOPENTADIENE | ug/kg | 9.6 U | 13.8 UJ | 10.9 U | 14.4 UJ | 11.9 UJ | 9.2 U | 10.4 U |
| 67-72-1 | HEXACHLOROETHANE | ug/kg | 17.7 U | 25.4 UJ | 20.1 U | 26.4 UJ | 22 UJ | 17 U | 19.1 U |
| 193-39-5 | INDENO(1,2,3-C,D)PYRENE | ug/kg | 17.7 U | 18.9 UJ | 1300 | 19.7 UJ | 4100 | 12.7 U | 14.2 U |
| 78-59-1 | ISOPHORONE | ug/kg | 13 U | 18.8 UJ | 14.8 U | 19.5 UJ | 16.2 UJ | 12.5 U | 14.1 U |
| 91-20-3 | NAPHTHALENE | ug/kg | 17200 | 19.6 UJ | 350 J | 20.4 UJ | 20500 | 13.1 U | 14.7 U |
| 98-95-3 | NITROBENZENE | ug/kg | 14.9 U | 21.5 UJ | 17 U | 22.4 UJ | 18.6 UJ | 14.4 U | 16.1 U |
| 621-64-7 | N-NITROSODI-N-PROPYLAMINE | ug/kg | 19.9 U | 28.6 UJ | 22.7 U | 29.8 UJ | 24.8 UJ | 19.2 U | 21.5 U |
| 86-30-6 | N-NITROSODIPHENYLAMINE | ug/kg | 9.5 UJ | 13.6 UJ | 10.8 U | 14.2 UJ | 11.8 UJ | 9.1 U | 10.2 U |
| 87-86-5 | PENTACHLOROPHENOL | ug/kg | 27 UJ | 38.9 UJ | 30.8 U | 40.4 UJ | 33.6 UJ | 26 U | 29.2 U |
| 85-01-8 | PHENANTHRENE | ug/kg | 137500 | 15.3 UJ | 830 | 16 UJ | 97500 | 10.3 U | 11.5 U |
| 108-95-2 | PHENOL | ug/kg | 9.1 U | 13.1 UJ | 10.4 U | 13.7 UJ | 11.3 UJ | 8.8 U | 9.9 U |
| 129-00-0 | PYRENE | ug/kg | 116300 | 13.6 UJ | 2400 | 14.2 UJ | 55200 | 9.1 U | 10.2 U |

| Consolidated Edison<br>Farrington Street Remedial Investigatior<br>2014-Validated Soil Analytical Data<br>SDG: F1553 | | Location ID:<br>Sample ID:<br>Lab Sample Id:<br>Depth:<br>Source:<br>SDG:<br>Matrix:<br>Sampled:<br>Validated: | CSB-64<br>CSB-64 (7-9)<br>F1553-03<br>7 - 9 FT<br>CTECH<br>F1553<br>SOIL<br>3/5/2014<br>5/21/2014 | CSB-64<br>CSB-64 (29-31)<br>F1553-04<br>29 - 31 FT<br>CTECH<br>F1553<br>SOIL<br>3/5/2014<br>5/21/2014 | CSB-67<br>CSB-67 (11-13)<br>F1553-02<br>11 - 13 FT<br>CTECH<br>F1553<br>SOIL<br>3/3/2014<br>5/21/2014 | CSB-67<br>CSB-67 (29-31)<br>F1553-01<br>29 - 31 FT<br>CTECH<br>F1553<br>SOIL<br>3/3/2014<br>5/21/2014 | CSB-68<br>CSB-68 (17-19)<br>F1553-05<br>17 - 19 FT<br>CTECH<br>F1553<br>SOIL<br>3/5/2014<br>5/21/2014 | CSB-68<br>CSB-68 (34-35)<br>F1553-06<br>34 - 35 FT<br>CTECH<br>F1553<br>SOIL<br>3/5/2014<br>5/21/2014 | CSB-71<br>CSB-71(7-9)<br>F1553-09<br>7 - 9 FT<br>CTECH<br>F1553<br>SOIL<br>3/6/2014<br>5/21/2014 |
|---|---|---|---|---|---|---|---|---|---|
| CAS NO. | COMPOUND | UNITS: | | | | | | | |
| | INORGANICS | | | | | | | | |
| 7429-90-5 | ALUMINUM | mg/kg | 1900 | 18300 | 3180 | 17300 | 6090 | 7160 | 10600 |
| 7440-36-0 | ANTIMONY | mg/kg | 0.564 UJ | 0.82 UJ | 0.894 J | 0.85 UJ | 1.35 J | 0.521 UJ | 0.598 UJ |
| 7440-38-2 | ARSENIC | mg/kg | 2.71 J | 12 J | 16.4 J | 8.95 J | 13.3 J | 2.14 J | 4.17 J |
| 7440-39-3 | BARIUM | mg/kg | 25.1 J | 41.4 J | 132 J | 36 J | 62.4 J | 16.9 J | 49.4 J |
| 7440-41-7 | BERYLLIUM | mg/kg | 0.06 U | 0.088 U | 0.067 U | 0.091 U | 0.073 U | 0.056 U | 0.064 U |
| 7440-43-9 | CADMIUM | mg/kg | 0.085 J | 1.95 | 0.446 | 0.528 | 0.61 | 0.056 U | 0.064 U |
| 7440-70-2 | CALCIUM | mg/kg | 5750 J | 6990 J | 2830 J | 2390 J | 6860 J | 442 J | 3650 J |
| 7440-47-3 | CHROMIUM, TOTAL | mg/kg | 5.22 J | 34.8 J | 16.4 J | 32.2 J | 23.4 J | 16.4 J | 25.4 J |
| 7440-48-4 | COBALT | mg/kg | 4.46 | 17 | 7.33 | 15.6 | 7.08 | 6.61 | 7.87 J |
| 7440-50-8 | COPPER | mg/kg | 14.3 J | 16.6 J | 198 J | 10.18 J | 147 J | 8.14 J | 17.2 J |
| 7439-89-6 | IRON | mg/kg | 7570 | 48400 | 41100 | 42100 | 45400 | 15200 | 22600 |
| 7439-92-1 | LEAD | mg/kg | 55.9 | 31.6 | 470 | 15.8 | 137 | 5.38 | 23.1 |
| 7439-95-4 | MAGNESIUM | mg/kg | 2840 J | 8250 J | 1270 J | 8190 J | 3780 J | 2140 J | 3500 J |
| 7439-96-5 | MANGANESE | mg/kg | 64.5 J | 598 J | 139 J | 601 J | 205 J | 152 J | 268 J |
| 7439-97-6 | MERCURY | mg/kg | 0.078 | 0.023 | 0.475 | 0.014 J | 0.193 | 0.007 J | 0.224 |
| 7440-02-0 | NICKEL | mg/kg | 11.5 | 35.9 | 13.6 | 33.3 | 15.4 | 10.81 | 26.3 |
| 9/7/7440 | POTASSIUM | mg/kg | 234 | 4110 | 394 | 3950 | 1390 | 1030 | 946 |
| 7782-49-2 | SELENIUM | mg/kg | 0.413 U | 1.67 | 1.04 J | 1.39 J | 1.22 | 0.574 J | 1.15 |
| 7440-22-4 | SILVER | mg/kg | 0.151 U | 1.21 | 1.08 | 1.12 | 0.342 J | 0.2 J | 0.16 U |
| 7440-23-5 | SODIUM | mg/kg | 65 J | 1770 | 632 | 4340 | 764 | 174 | 455 |
| 7440-28-0 | THALLIUM | mg/kg | 0.272 U | 0.395 U | 0.303 U | 0.41 U | 0.327 U | 0.251 U | 0.288 U |
| 7440-62-2 | VANADIUM | mg/kg | 12.5 J | 41.5 J | 33.7 J | 39.1 J | 29.6 J | 17.8 J | 28.7 J |
| 7440-66-6 | ZINC | mg/kg | 21.2 | 326 | 61.4 | 94 | 114 | 27.9 | 45.2 |
| 57-12-5 | CYANIDE | mg/kg | 0.454 | 0.135 J | 1.82 | 0.127 J | 4 | 0.08 J | 0.401 |

| Consolidated Edison<br>Farrington Street Remedial Investigation<br>2014-Validated Soil Analytical Data<br>SDG: F1553 | | Location ID:<br>Sample ID:<br>Lab Sample Id:<br>Depth:<br>Source:<br>SDG:<br>Matrix:<br>Sampled:<br>Validated: | CSB-71<br>CSB-71(30-35)<br>F1553-10<br>30 - 35 FT<br>CTECH<br>F1553<br>SOIL<br>3/6/2014<br>5/21/2014 | FIELDQC<br>FB030614<br>F1553-08<br>-<br>CTECH<br>F1553<br>SOIL<br>3/6/2014<br>5/21/2014 |
|---|---|---|---|---|
| CAS NO. | COMPOUND | UNITS: | | ug/L |
| | VOLATILES | | | |
| 71-55-6 | 1,1,1-TRICHLOROETHANE | ug/kg | 0.87 U | 0.4 U |
| 79-34-5 | 1,1,2,2-TETRACHLOROETHANE | ug/kg | 0.8 U | 0.31 U |
| 76-13-1 | 1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE | ug/kg | 0.87 U | 0.45 U |
| 79-00-5 | 1,1,2-TRICHLOROETHANE | ug/kg | 1.6 U | 0.38 U |
| 75-34-3 | 1,1-DICHLOROETHANE | ug/kg | 0.87 U | 0.36 U |
| 75-35-4 | 1,1-DICHLOROETHENE | ug/kg | 0.87 U | 0.47 U |
| 87-61-6 | 1,2,3-TRICHLOROBENZENE | ug/kg | 0.87 U | 0.2 U |
| 120-82-1 | 1,2,4-TRICHLOROBENZENE | ug/kg | 0.87 U | 0.2 U |
| 96-12-8 | 1,2-DIBROMO-3-CHLOROPROPANE | ug/kg | 1.5 U | 0.46 U |
| 106-93-4 | 1,2-DIBROMOETHANE | ug/kg | 0.87 U | 0.41 U |
| 95-50-1 | 1,2-DICHLOROBENZENE | ug/kg | 0.87 U | 0.45 U |
| 107-06-2 | 1,2-DICHLOROETHANE | ug/kg | 0.87 U | 0.48 U |
| 78-87-5 | 1,2-DICHLOROPROPANE | ug/kg | 0.45 U | 0.46 U |
| 541-73-1 | 1,3-DICHLOROBENZENE | ug/kg | 0.65 U | 0.43 U |
| 106-46-7 | 1,4-DICHLOROBENZENE | ug/kg | 0.72 U | 0.32 U |
| 123-91-1 | 1,4-DIOXANE (P-DIOXANE) | ug/kg | R | R |
| 591-78-6 | 2-HEXANONE | ug/kg | 4.4 U | 1.9 U |
| 67-64-1 | ACETONE | ug/kg | 46 | 0.5 U |
| 71-43-2 | BENZENE | ug/kg | 0.66 U | 0.32 U |
| 74-97-5 | BROMOCHLOROMETHANE | ug/kg | 0.87 U | 0.2 U |
| 75-27-4 | BROMODICHLOROMETHANE | ug/kg | 0.87 U | 0.36 U |
| 75-25-2 | BROMOFORM | ug/kg | 1.3 U | 0.47 U |
| 74-83-9 | BROMOMETHANE | ug/kg | 1.7 U | 0.2 U |
| 75-15-0 | CARBON DISULFIDE | ug/kg | 13.2 | 0.2 U |
| 56-23-5 | CARBON TETRACHLORIDE | ug/kg | 0.87 U | 0.2 U |
| 108-90-7 | CHLOROBENZENE | ug/kg | 0.87 U | 0.49 U |
| 75-00-3 | CHLOROETHANE | ug/kg | 0.87 U | 0.2 U |
| 67-66-3 | CHLOROFORM | ug/kg | 0.87 U | 0.34 U |
| 74-87-3 | CHLOROMETHANE | ug/kg | 0.87 U | 0.2 U |
| 156-59-2 | CIS-1,2-DICHLOROETHYLENE | ug/kg | 0.87 U | 0.35 U |
| 10061-01-5 | CIS-1,3-DICHLOROPROPENE | ug/kg | 0.87 U | 0.31 U |
| 110-82-7 | CYCLOHEXANE | ug/kg | 0.87 U | 0.2 U |
| 124-48-1 | DIBROMOCHLOROMETHANE | ug/kg | 0.87 U | 0.2 U |
| 75-71-8 | DICHLORODIFLUOROMETHANE | ug/kg | 0.87 U | 0.2 U |
| 100-41-4 | ETHYLBENZENE | ug/kg | 0.87 U | 0.2 U |
| 98-82-8 | ISOPROPYLBENZENE (CUMENE) | ug/kg | 0.84 U | 0.45 U |
| XYLMP | M,P-XYLENE (SUM OF ISOMERS) | ug/kg | 1.3 U | 0.95 U |
| 79-20-9 | METHYL ACETATE | ug/kg | 1.7 U | 0.2 U |
| 78-93-3 | METHYL ETHYL KETONE (2-BUTANONE) | ug/kg | 5.4 U | 1.3 U |
| 108-10-1 | METHYL ISOBUTYL KETONE | ug/kg | 4.4 U | 2.1 U |
| 108-87-2 | METHYLCYCLOHEXANE | ug/kg | 0.87 U | 0.2 U |
| 75-09-2 | METHYLENE CHLORIDE | ug/kg | 0.87 U | 0.41 U |
| 95-47-6 | O-XYLENE (1,2-DIMETHYLBENZENE) | ug/kg | 0.87 U | 0.43 U |
| 100-42-5 | STYRENE | ug/kg | 0.79 U | 0.36 U |
| 1634-04-4 | TERT-BUTYL METHYL ETHER | ug/kg | 0.87 U | 0.35 U |
| 127-18-4 | TETRACHLOROETHYLENE(PCE) | ug/kg | 0.87 U | 0.27 U |
| 108-88-3 | TOLUENE | ug/kg | 0.87 U | 0.37 U |
| 156-60-5 | TRANS-1,2-DICHLOROETHENE | ug/kg | 0.87 U | 0.41 U |
| 10061-02-6 | TRANS-1,3-DICHLOROPROPENE | ug/kg | 0.87 U | 0.29 U |
| 79-01-6 | TRICHLOROETHYLENE (TCE) | ug/kg | 0.87 U | 0.28 U |
| 75-69-4 | TRICHLOROFLUOROMETHANE | ug/kg | 0.87 U | 0.35 U |
| 75-01-4 | VINYL CHLORIDE | ug/kg | 0.87 U | 0.34 U |

| Consolidated Edison<br>Farrington Street Remedial Investigation<br>2014-Validated Soil Analytical Data<br>SDG: F1553 | | Location ID:<br>Sample ID:<br>Lab Sample Id:<br>Depth:<br>Source:<br>SDG:<br>Matrix:<br>Sampled:<br>Validated: | CSB-71<br>CSB-71(30-35)<br>F1553-10<br>30 - 35 FT<br>CTECH<br>F1553<br>SOIL<br>3/6/2014<br>5/21/2014 | FIELDQC<br>FB030614<br>F1553-08<br>-<br>CTECH<br>F1553<br>SOIL<br>3/6/2014<br>5/21/2014 |
|---|---|---|---|---|
| CAS NO. | COMPOUND | UNITS: | | ug/L |
| | SEMIVOLATILES | | | |
| 95-94-3 | 1,2,4,5-TETRACHLOROBENZENE | ug/kg | 22.8 U | 0.22 U |
| 58-90-2 | 2,3,4,6-TETRACHLOROPHENOL | ug/kg | 22.8 U | 0.22 U |
| 95-95-4 | 2,4,5-TRICHLOROPHENOL | ug/kg | 40.7 U | 0.44 U |
| 88-06-2 | 2,4,6-TRICHLOROPHENOL | ug/kg | 17.7 U | 0.62 U |
| 120-83-2 | 2,4-DICHLOROPHENOL | ug/kg | 22.1 U | 0.73 U |
| 105-67-9 | 2,4-DIMETHYLPHENOL | ug/kg | 32.9 U | 0.78 U |
| 51-28-5 | 2,4-DINITROPHENOL | ug/kg | 59 UJ | 2.3 UJ |
| 121-14-2 | 2,4-DINITROTOLUENE | ug/kg | 17.4 U | 1.1 U |
| 606-20-2 | 2,6-DINITROTOLUENE | ug/kg | 23.7 U | 0.35 U |
| 91-58-7 | 2-CHLORONAPHTHALENE | ug/kg | 13.2 U | 0.18 U |
| 95-57-8 | 2-CHLOROPHENOL | ug/kg | 30.6 U | 0.59 U |
| 91-57-6 | 2-METHYLNAPHTHALENE | ug/kg | 14.6 U | 0.35 U |
| 95-48-7 | 2-METHYLPHENOL (O-CRESOL) | ug/kg | 31.5 U | 0.26 U |
| 88-74-4 | 2-NITROANILINE | ug/kg | 25.8 U | 0.54 U |
| 88-75-5 | 2-NITROPHENOL | ug/kg | 28 U | 0.57 U |
| MEPH3MEPH | 3- AND 4- METHYLPHENOL (TOTAL) | ug/kg | 30.1 U | 0.42 U |
| 91-94-1 | 3,3'-DICHLOROBENZIDINE | ug/kg | 37.2 U | 1.1 U |
| 99-09-2 | 3-NITROANILINE | ug/kg | 37.2 U | 1.1 U |
| 534-52-1 | 4,6-DINITRO-2-METHYLPHENOL | ug/kg | 33.2 U | 0.81 U |
| 101-55-3 | 4-BROMOPHENYL PHENYL ETHER | ug/kg | 11.3 U | 0.25 U |
| 59-50-7 | 4-CHLORO-3-METHYLPHENOL | ug/kg | 25.8 U | 0.44 U |
| 106-47-8 | 4-CHLOROANILINE | ug/kg | 40.9 U | 1.1 U |
| 7005-72-3 | 4-CHLOROPHENYL PHENYL ETHER | ug/kg | 31.5 U | 0.23 U |
| 100-01-6 | 4-NITROANILINE | ug/kg | 75.5 U | 1.5 U |
| 100-02-7 | 4-NITROPHENOL | ug/kg | 110 U | 2.2 U |
| 83-32-9 | ACENAPHTHENE | ug/kg | 16.4 U | 0.23 U |
| 208-96-8 | ACENAPHTHYLENE | ug/kg | 14.6 U | 0.77 U |
| 98-86-2 | ACETOPHENONE | ug/kg | 17.7 U | 0.15 U |
| 120-12-7 | ANTHRACENE | ug/kg | 11.8 U | 0.18 U |
| 1912-24-9 | ATRAZINE | ug/kg | 30.6 U | 0.44 U |
| 100-52-7 | BENZALDEHYDE | ug/kg | 30.3 U | 0.85 U |
| 56-55-3 | BENZO(A)ANTHRACENE | ug/kg | 27.7 U | 0.18 U |
| 50-32-8 | BENZO(A)PYRENE | ug/kg | 12.5 U | 0.15 U |
| 205-99-2 | BENZO(B)FLUORANTHENE | ug/kg | 19 U | 0.32 U |
| 191-24-2 | BENZO(G,H,I)PERYLENE | ug/kg | 23.5 U | 0.32 U |
| 207-08-9 | BENZO(K)FLUORANTHENE | ug/kg | 27.3 U | 0.2 U |
| 85-68-7 | BENZYL BUTYL PHTHALATE | ug/kg | 27.8 U | 0.21 U |
| 92-52-4 | BIPHENYL (DIPHENYL) | ug/kg | 21.9 U | 0.16 U |
| 111-91-1 | BIS(2-CHLOROETHOXY) METHANE | ug/kg | 33.4 U | 0.6 U |
| 111-44-4 | BIS(2-CHLOROETHYL) ETHER | ug/kg | 27.8 U | 0.6 U |
| 108-60-1 | BIS(2-CHLOROISOPROPYL) ETHER | ug/kg | 24 U | 0.19 U |
| 117-81-7 | BIS(2-ETHYLHEXYL) PHTHALATE | ug/kg | 20.5 U | 0.18 U |
| 105-60-2 | CAPROLACTAM | ug/kg | 27 U | 1.1 U |
| 86-74-8 | CARBAZOLE | ug/kg | 12.7 U | 0.24 U |
| 218-01-9 | CHRYSENE | ug/kg | 26.3 U | 0.2 U |
| 53-70-3 | DIBENZ(A,H)ANTHRACENE | ug/kg | 16.7 U | 0.46 U |
| 132-64-9 | DIBENZOFURAN | ug/kg | 22.6 U | 0.26 U |
| 84-66-2 | DIETHYL PHTHALATE | ug/kg | 140 J | 4.2 J |
| 131-11-3 | DIMETHYL PHTHALATE | ug/kg | 530 J | 0.24 U |
| 84-74-2 | DI-N-BUTYL PHTHALATE | ug/kg | 45.6 U | 1.1 U |
| 117-84-0 | DI-N-OCTYLPHTHALATE | ug/kg | 6.6 U | 0.56 U |
| 206-44-0 | FLUORANTHENE | ug/kg | 11.7 U | 0.44 U |
| 86-73-7 | FLUORENE | ug/kg | 21.9 U | 0.34 U |
| 118-74-1 | HEXACHLOROBENZENE | ug/kg | 23.7 U | 0.2 U |
| 87-68-3 | HEXACHLOROBUTADIENE | ug/kg | 21.1 U | 0.27 U |
| 77-47-4 | HEXACHLOROCYCLOPENTADIENE | ug/kg | 14.1 U | 0.26 U |
| 67-72-1 | HEXACHLOROETHANE | ug/kg | 25.9 U | 0.27 U |
| 193-39-5 | INDENO(1,2,3-C,D)PYRENE | ug/kg | 19.3 U | 0.16 U |
| 78-59-1 | ISOPHORONE | ug/kg | 19.1 U | 0.33 U |
| 91-20-3 | NAPHTHALENE | ug/kg | 20 U | 0.13 U |
| 98-95-3 | NITROBENZENE | ug/kg | 21.9 U | 0.75 U |
| 621-64-7 | N-NITROSODI-N-PROPYLAMINE | ug/kg | 29.2 U | 0.22 U |
| 86-30-6 | N-NITROSODIPHENYLAMINE | ug/kg | 13.9 U | 0.66 U |
| 87-86-5 | PENTACHLOROPHENOL | ug/kg | 39.7 U | 1.1 U |
| 85-01-8 | PHENANTHRENE | ug/kg | 15.7 U | 0.29 U |
| 108-95-2 | PHENOL | ug/kg | 13.4 U | 0.23 U |
| 129-00-0 | PYRENE | ug/kg | 13.9 U | 0.22 U |

| Consolidated Edison<br>Farrington Street Remedial Investigation<br>2014-Validated Soil Analytical Data<br>SDG: F1553 | | Location ID:<br>Sample ID:<br>Lab Sample Id:<br>Depth:<br>Source:<br>SDG:<br>Matrix:<br>Sampled:<br>Validated: | CSB-71<br>CSB-71(30-35)<br>F1553-10<br>30 - 35 FT<br>CTECH<br>F1553<br>SOIL<br>3/6/2014<br>5/21/2014 | FIELDQC<br>FB030614<br>F1553-08<br>-<br>CTECH<br>F1553<br>SOIL<br>3/6/2014<br>5/21/2014 |
|---|---|---|---|---|
| CAS NO. | COMPOUND | UNITS: | | ug/L |
| | INORGANICS | | | |
| 7429-90-5 | ALUMINUM | mg/kg | 16400 | 6.5 U |
| 7440-36-0 | ANTIMONY | mg/kg | 0.801 UJ | 8 UJ |
| 7440-38-2 | ARSENIC | mg/kg | 11.6 J | 4.2 UJ |
| 7440-39-3 | BARIUM | mg/kg | 37.7 J | 4.1 J |
| 7440-41-7 | BERYLLIUM | mg/kg | 0.086 U | 0.7 U |
| 7440-43-9 | CADMIUM | mg/kg | 0.351 J | 0.5 U |
| 7440-70-2 | CALCIUM | mg/kg | 6400 J | 39.4 J |
| 7440-47-3 | CHROMIUM, TOTAL | mg/kg | 32.7 J | 1.1 UJ |
| 7440-48-4 | COBALT | mg/kg | 15.4 J | 5.8 U |
| 7440-50-8 | COPPER | mg/kg | 15.1 J | 2 UJ |
| 7439-89-6 | IRON | mg/kg | 43000 | 22.3 J |
| 7439-92-1 | LEAD | mg/kg | 19.4 | 2.6 U |
| 7439-95-4 | MAGNESIUM | mg/kg | 7810 J | 32.5 UJ |
| 7439-96-5 | MANGANESE | mg/kg | 591 J | 1.7 UJ |
| 7439-97-6 | MERCURY | mg/kg | 0.023 | 0.1 U |
| 7440-02-0 | NICKEL | mg/kg | 32.9 | 4.2 U |
| 9/7/7440 | POTASSIUM | mg/kg | 3970 | 38.8 U |
| 7782-49-2 | SELENIUM | mg/kg | 2.3 | 4.8 U |
| 7440-22-4 | SILVER | mg/kg | 0.215 U | 1.5 U |
| 7440-23-5 | SODIUM | mg/kg | 2180 | 13.9 U |
| 7440-28-0 | THALLIUM | mg/kg | 0.386 U | 2.4 U |
| 7440-62-2 | VANADIUM | mg/kg | 38.6 J | 6.1 UJ |
| 7440-66-6 | ZINC | mg/kg | 101 | 6.5 U |
| 57-12-5 | CYANIDE | mg/kg | 0.057 U | 3 J |

| Consolidated Edison<br>Farrington Street Remedial Investigation<br>2015 Soil Analytical Data F4695 | | Location ID:<br>Sample ID:<br>Lab Sample Id:<br>Depth:<br>Source:<br>SDG:<br>Matrix:<br>Sampled:<br>Validated: | SB-74<br>SB-74(7-9)-20141110<br>F4695-06<br>7 - 9 ft<br>CTECH<br>F4695<br>SOIL<br>11/10/2014 12:55<br>2/25/2015 | SB-74<br>SB-74(13-15)-20141110<br>F4695-07<br>13 - 15 ft<br>CTECH<br>F4695<br>SOIL<br>11/10/2014 13:15<br>2/25/2015 | SB-75<br>SB-75(5-7)-20141110<br>F4695-01<br>5 - 7 ft<br>CTECH<br>F4695<br>SOIL<br>11/10/2014 9:00<br>2/25/2015 | Field Dup<br>SB-75<br>SB-175(5-7)-20141110<br>F4695-05<br>5 - 7 ft<br>CTECH<br>F4695<br>SOIL<br>11/10/2014 9:00<br>2/25/2015 | SB-75<br>SB-75(15-20)-20141110<br>F4695-02<br>15 - 20 ft<br>CTECH<br>F4695<br>SOIL<br>11/10/2014 10:05<br>2/25/2015 |
|---|---|---|---|---|---|---|---|
| CAS NO. | COMPOUND | UNITS: | | | | | |
| | VOLATILES | | | | | | |
| 71-55-6 | 1,1,1-TRICHLOROETHANE | ug/kg | 0.6 U | 0.6 U | 0.57 U | 0.56 U | 0.62 U |
| 79-34-5 | 1,1,2,2-TETRACHLOROETHANE | ug/kg | 0.55 U | 0.55 U | 0.52 U | 0.52 U | 0.57 U |
| 76-13-1 | 1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE | ug/kg | 0.6 U | 0.6 U | 0.57 U | 0.56 U | 0.62 U |
| 79-00-5 | 1,1,2-TRICHLOROETHANE | ug/kg | 1.1 U | 1.1 U | 1 U | 1 U | 1.1 U |
| 75-34-3 | 1,1-DICHLOROETHANE | ug/kg | 0.6 U | 0.6 U | 0.57 U | 0.56 U | 0.62 U |
| 75-35-4 | 1,1-DICHLOROETHENE | ug/kg | 0.6 U | 0.6 U | 0.57 U | 0.56 U | 0.62 U |
| 87-61-6 | 1,2,3-TRICHLOROBENZENE | ug/kg | R | 0.6 U | 0.57 U | 0.56 U | 0.62 U |
| 120-82-1 | 1,2,4-TRICHLOROBENZENE | ug/kg | R | 0.6 U | 0.57 U | 0.56 U | 0.62 U |
| 96-12-8 | 1,2-DIBROMO-3-CHLOROPROPANE | ug/kg | R | 1 U | 0.98 U | 0.98 U | 1.1 U |
| 106-93-4 | 1,2-DIBROMOETHANE | ug/kg | 0.6 U | 0.6 U | 0.57 U | 0.56 U | 0.62 U |
| 95-50-1 | 1,2-DICHLOROBENZENE | ug/kg | R | 0.6 U | 0.57 U | 0.56 U | 0.62 U |
| 107-06-2 | 1,2-DICHLOROETHANE | ug/kg | 0.6 U | 0.6 U | 0.57 U | 0.56 U | 0.62 U |
| 78-87-5 | 1,2-DICHLOROPROPANE | ug/kg | 0.31 U | 0.31 U | 0.29 U | 0.29 U | 0.32 U |
| 541-73-1 | 1,3-DICHLOROBENZENE | ug/kg | R | 0.44 U | 0.42 U | 0.41 U | 0.46 U |
| 106-46-7 | 1,4-DICHLOROBENZENE | ug/kg | R | 0.49 U | 0.46 U | 0.46 U | 0.51 U |
| 123-91-1 | 1,4-DIOXANE (P-DIOXANE) | ug/kg | R | R | R | R | R |
| 591-78-6 | 2-HEXANONE | ug/kg | 3 U | 3 U | 2.8 U | 2.8 U | 12 J |
| 67-64-1 | ACETONE | ug/kg | 31 | 67.2 | 2.8 U | 2.8 U | 3.1 U |
| 71-43-2 | BENZENE | ug/kg | 0.46 U | 0.46 U | 0.43 U | 0.43 U | 0.47 U |
| 74-97-5 | BROMOCHLOROMETHANE | ug/kg | 0.6 U | 0.6 U | 0.57 U | 0.56 U | 0.62 U |
| 75-27-4 | BROMODICHLOROMETHANE | ug/kg | 0.6 U | 0.6 U | 0.57 U | 0.56 U | 0.62 U |
| 75-25-2 | BROMOFORM | ug/kg | R | 0.89 U | 0.84 U | 0.83 U | 0.92 U |
| 74-83-9 | BROMOMETHANE | ug/kg | 1.2 U | 1.2 U | 1.1 U | 1.1 U | 1.2 U |
| 75-15-0 | CARBON DISULFIDE | ug/kg | 0.6 U | 2.1 J | 0.57 U | 0.56 U | 0.62 U |
| 56-23-5 | CARBON TETRACHLORIDE | ug/kg | 0.6 U | 0.6 U | 0.57 U | 0.56 U | 0.62 U |
| 108-90-7 | CHLOROBENZENE | ug/kg | 0.6 U | 0.6 U | 0.57 U | 0.56 U | 0.62 U |
| 75-00-3 | CHLOROETHANE | ug/kg | 0.6 U | 0.6 U | 0.57 U | 0.56 U | 0.62 U |
| 67-66-3 | CHLOROFORM | ug/kg | 0.6 U | 0.6 U | 0.57 U | 0.56 U | 0.62 U |
| 74-87-3 | CHLOROMETHANE | ug/kg | 0.6 U | 0.6 U | 0.57 U | 0.56 U | 0.62 U |
| 156-59-2 | CIS-1,2-DICHLOROETHYLENE | ug/kg | 0.6 U | 0.6 U | 0.57 U | 0.56 U | 0.62 U |
| 10061-01-5 | CIS-1,3-DICHLOROPROPENE | ug/kg | 0.6 U | 0.6 U | 0.57 U | 0.56 U | 0.62 U |
| 110-82-7 | CYCLOHEXANE | ug/kg | 0.6 U | 0.6 U | 0.57 U | 0.56 U | 0.62 U |
| 124-48-1 | DIBROMOCHLOROMETHANE | ug/kg | 0.6 U | 0.6 U | 0.57 U | 0.56 U | 0.62 U |
| 75-71-8 | DICHLORODIFLUOROMETHANE | ug/kg | 0.6 U | 0.6 U | 0.57 U | 0.56 U | 0.62 U |
| 100-41-4 | ETHYLBENZENE | ug/kg | 0.6 U | 0.6 U | 0.57 U | 0.56 U | 0.62 U |
| 98-82-8 | ISOPROPYLBENZENE (CUMENE) | ug/kg | 0.58 U | 0.58 U | 1.6 J | 3 J | 0.6 U |
| XYLMP | M,P-XYLENE (SUM OF ISOMERS) | ug/kg | 0.87 U | 0.86 U | 0.81 U | 0.81 U | 0.9 U |
| 79-20-9 | METHYL ACETATE | ug/kg | 1.2 U | 1.2 U | 1.1 U | 1.1 U | 1.2 U |
| 78-93-3 | METHYL ETHYL KETONE (2-BUTANONE) | ug/kg | 3.8 U | 13.6 J | 3.5 U | 3.5 U | 3.9 U |
| 108-10-1 | METHYL ISOBUTYL KETONE | ug/kg | 3 U | 3 U | 2.8 U | 2.8 U | 3.1 U |
| 108-87-2 | METHYLCYCLOHEXANE | ug/kg | 5 J | 0.6 U | 0.57 U | 0.56 U | 0.62 U |
| 75-09-2 | METHYLENE CHLORIDE | ug/kg | 0.6 U | 0.6 U | 3.7 J | 0.56 U | 0.62 U |
| 95-47-6 | O-XYLENE (1,2-DIMETHYLBENZENE) | ug/kg | 0.6 U | 0.6 U | 1.7 J | 2.6 J | 0.62 U |
| 100-42-5 | STYRENE | ug/kg | 0.54 U | 0.54 U | 0.51 U | 0.5 U | 0.56 U |
| 1634-04-4 | TERT-BUTYL METHYL ETHER | ug/kg | 0.6 U | 0.6 U | 0.57 U | 0.56 U | 0.62 U |
| 127-18-4 | TETRACHLOROETHYLENE(PCE) | ug/kg | 0.6 U | 0.6 U | 0.57 U | 0.56 U | 0.62 U |
| 108-88-3 | TOLUENE | ug/kg | 0.6 U | 0.6 U | 0.57 U | 0.56 U | 0.62 U |
| 156-60-5 | TRANS-1,2-DICHLOROETHENE | ug/kg | 0.6 U | 0.6 U | 0.57 U | 0.56 U | 0.62 U |
| 10061-02-6 | TRANS-1,3-DICHLOROPROPENE | ug/kg | 0.6 U | 0.6 U | 0.57 U | 0.56 U | 0.62 U |
| 79-01-6 | TRICHLOROETHYLENE (TCE) | ug/kg | 0.6 U | 0.6 U | 0.57 U | 0.56 U | 0.62 U |
| 75-69-4 | TRICHLOROFLUOROMETHANE | ug/kg | 0.6 U | 0.6 UJ | 0.57 UJ | 0.56 U | 0.62 UJ |
| 75-01-4 | VINYL CHLORIDE | ug/kg | 0.6 U | 0.6 U | 0.57 U | 0.56 U | 0.62 U |

| Consolidated Edison<br>Farrington Street Remedial Investigation<br>2015 Soil Analytical Data F4695 | | Location ID:<br>Sample ID:<br>Lab Sample Id:<br>Depth:<br>Source:<br>SDG:<br>Matrix:<br>Sampled:<br>Validated: | SB-74<br>SB-74(7-9)-20141110<br>F4695-06<br>7 - 9 ft<br>CTECH<br>F4695<br>SOIL<br>11/10/2014 12:55<br>2/25/2015 | SB-74<br>SB-74(13-15)-20141110<br>F4695-07<br>13 - 15 ft<br>CTECH<br>F4695<br>SOIL<br>11/10/2014 13:15<br>2/25/2015 | SB-75<br>SB-75(5-7)-20141110<br>F4695-01<br>5 - 7 ft<br>CTECH<br>F4695<br>SOIL<br>11/10/2014 9:00<br>2/25/2015 | Field Dup<br>SB-75<br>SB-175(5-7)-20141110<br>F4695-05<br>5 - 7 ft<br>CTECH<br>F4695<br>SOIL<br>11/10/2014 9:00<br>2/25/2015 | SB-75<br>SB-75(15-20)-20141110<br>F4695-02<br>15 - 20 ft<br>CTECH<br>F4695<br>SOIL<br>11/10/2014 10:05<br>2/25/2015 |
|---|---|---|---|---|---|---|---|
| CAS NO. | COMPOUND | UNITS: | | | | | |
| | SEMIVOLATILES | | | | | | |
| 95-94-3 | 1,2,4,5-TETRACHLOROBENZENE | ug/kg | 15.8 U | 15.7 U | 14.8 U | 14.6 U | 16.4 U |
| 58-90-2 | 2,3,4,6-TETRACHLOROPHENOL | ug/kg | 15.8 U | 15.7 U | 14.8 U | 14.6 U | 16.4 U |
| 95-95-4 | 2,4,5-TRICHLOROPHENOL | ug/kg | 28.2 U | 28.1 U | 26.4 U | 26.1 U | 29.2 U |
| 88-06-2 | 2,4,6-TRICHLOROPHENOL | ug/kg | 12.3 U | 12.2 U | 11.5 U | 11.4 U | 12.7 U |
| 120-83-2 | 2,4-DICHLOROPHENOL | ug/kg | 15.3 U | 15.2 U | 14.3 U | 14.2 U | 15.9 U |
| 105-67-9 | 2,4-DIMETHYLPHENOL | ug/kg | 22.8 U | 22.7 U | 21.3 U | 21.1 U | 23.6 U |
| 51-28-5 | 2,4-DINITROPHENOL | ug/kg | 40.8 U | 40.7 U | 38.3 U | 37.8 U | 42.3 U |
| 121-14-2 | 2,4-DINITROTOLUENE | ug/kg | 12 U | 12 U | 11.3 U | 11.2 U | 12.5 U |
| 606-20-2 | 2,6-DINITROTOLUENE | ug/kg | 16.4 U | 16.3 U | 15.4 U | 15.2 U | 17 U |
| 91-58-7 | 2-CHLORONAPHTHALENE | ug/kg | 9.2 U | 9.1 U | 8.6 U | 8.5 U | 9.5 U |
| 95-57-8 | 2-CHLOROPHENOL | ug/kg | 21.2 U | 21.1 U | 19.9 U | 19.6 U | 22 U |
| 91-57-6 | 2-METHYLNAPHTHALENE | ug/kg | 220 J | 10.1 U | 1100 | 1600 | 10.5 U |
| 95-48-7 | 2-METHYLPHENOL (O-CRESOL) | ug/kg | 21.8 U | 21.7 U | 20.4 U | 20.2 U | 22.6 U |
| 88-74-4 | 2-NITROANILINE | ug/kg | 17.8 U | 17.8 U | 16.7 U | 16.5 U | 18.5 U |
| 88-75-5 | 2-NITROPHENOL | ug/kg | 19.4 U | 19.3 U | 18.2 U | 18 U | 20.1 U |
| MEPH3MEPH4 | 3- AND 4- METHYLPHENOL (TOTAL) | ug/kg | 20.8 U | 20.8 U | 19.5 U | 19.3 U | 21.6 U |
| 91-94-1 | 3,3'-DICHLOROBENZIDINE | ug/kg | 25.8 U | 25.7 U | 24.2 U | 23.9 U | 26.7 U |
| 99-09-2 | 3-NITROANILINE | ug/kg | 25.8 U | 25.7 U | 24.2 U | 23.9 U | 26.7 U |
| 534-52-1 | 4,6-DINITRO-2-METHYLPHENOL | ug/kg | 23 U | 22.9 U | 21.6 U | 21.3 U | 23.8 U |
| 101-55-3 | 4-BROMOPHENYL PHENYL ETHER | ug/kg | 7.8 U | 7.8 U | 7.3 U | 7.3 U | 8.1 U |
| 59-50-7 | 4-CHLORO-3-METHYLPHENOL | ug/kg | 17.8 U | 17.8 U | 16.7 U | 16.5 U | 18.5 U |
| 106-47-8 | 4-CHLOROANILINE | ug/kg | 28.3 U | 28.2 U | 26.5 U | 26.2 U | 29.3 U |
| 7005-72-3 | 4-CHLOROPHENYL PHENYL ETHER | ug/kg | 21.8 U | 21.7 U | 20.4 U | 20.2 U | 22.6 U |
| 100-01-6 | 4-NITROANILINE | ug/kg | 52.3 U | 52.1 U | 49 U | 48.4 U | 54.2 U |
| 100-02-7 | 4-NITROPHENOL | ug/kg | 74.6 U | 74.3 U | 69.9 U | 69.1 U | 77.3 U |
| 83-32-9 | ACENAPHTHENE | ug/kg | 210 J | 11.3 U | 10.6 U | 80.3 J | 11.7 U |
| 208-96-8 | ACENAPHTHYLENE | ug/kg | 10.1 U | 10.1 U | 140 J | 310 J | 10.5 U |
| 98-86-2 | ACETOPHENONE | ug/kg | 12.3 U | 12.2 U | 11.5 U | 11.4 U | 12.7 U |
| 120-12-7 | ANTHRACENE | ug/kg | 8.2 U | 8.2 U | 140 J | 250 J | 8.5 U |
| 1912-24-9 | ATRAZINE | ug/kg | 21.2 U | 21.1 U | 19.9 U | 19.6 U | 22 U |
| 100-52-7 | BENZALDEHYDE | ug/kg | R | R | R | R | R |
| 56-55-3 | BENZO(A)ANTHRACENE | ug/kg | 19.2 U | 19.1 U | 390 | 650 | 19.9 U |
| 50-32-8 | BENZO(A)PYRENE | ug/kg | 8.7 U | 8.6 U | 300 J | 490 | 9 U |
| 205-99-2 | BENZO(B)FLUORANTHENE | ug/kg | 13.1 U | 13.1 U | 450 | 600 | 13.6 U |
| 191-24-2 | BENZO(G,H,I)PERYLENE | ug/kg | 16.3 U | 16.2 U | 200 J | 310 J | 16.9 U |
| 207-08-9 | BENZO(K)FLUORANTHENE | ug/kg | 18.9 U | 18.8 U | 78.7 J | 280 J | 19.6 U |
| 85-68-7 | BENZYL BUTYL PHTHALATE | ug/kg | 19.3 U | 19.2 U | 18.1 U | 17.8 U | 20 U |
| 92-52-4 | BIPHENYL (DIPHENYL) | ug/kg | 15.2 U | 15.1 U | 14.2 U | 14.1 U | 15.7 U |
| 111-91-1 | BIS(2-CHLOROETHOXY) METHANE | ug/kg | 23.1 U | 23 U | 21.7 U | 21.4 U | 24 U |
| 111-44-4 | BIS(2-CHLOROETHYL) ETHER | ug/kg | 19.3 U | 19.2 U | 18.1 U | 17.8 U | 20 U |
| 108-60-1 | BIS(2-CHLOROISOPROPYL) ETHER | ug/kg | 16.6 U | 16.6 U | 15.6 U | 15.4 U | 17.2 U |
| 117-81-7 | BIS(2-ETHYLHEXYL) PHTHALATE | ug/kg | 14.2 U | 14.2 U | 340 J | 440 | 14.7 U |
| 105-60-2 | CAPROLACTAM | ug/kg | 18.7 U | 18.6 U | 17.5 U | 17.3 U | 19.4 U |
| 86-74-8 | CARBAZOLE | ug/kg | 8.8 U | 8.8 U | 8.2 U | 8.1 U | 9.1 U |
| 218-01-9 | CHRYSENE | ug/kg | 18.2 U | 18.1 U | 440 | 620 | 18.9 U |
| 53-70-3 | DIBENZ(A,H)ANTHRACENE | ug/kg | 11.6 U | 11.5 U | 10.8 U | 84.8 J | 12 U |
| 132-64-9 | DIBENZOFURAN | ug/kg | 15.7 U | 15.6 U | 14.7 U | 14.5 U | 16.2 U |
| 84-66-2 | DIETHYL PHTHALATE | ug/kg | 6.3 U | 6.2 U | 5.9 U | 5.8 U | 6.5 U |
| 131-11-3 | DIMETHYL PHTHALATE | ug/kg | 280 J | 1000 | 290 J | 270 J | 380 J |
| 84-74-2 | DI-N-BUTYL PHTHALATE | ug/kg | 31.6 U | 31.4 U | 750 | 530 | 32.7 U |
| 117-84-0 | DI-N-OCTYLPHTHALATE | ug/kg | 4.6 U | 4.6 U | 4.3 U | 4.2 U | 4.7 U |
| 206-44-0 | FLUORANTHENE | ug/kg | 140 J | 8 U | 540 | 750 | 8.4 U |
| 86-73-7 | FLUORENE | ug/kg | 210 J | 15.1 U | 14.2 U | 140 J | 15.7 U |
| 118-74-1 | HEXACHLOROBENZENE | ug/kg | 16.4 U | 16.3 U | 15.4 U | 15.2 U | 17 U |
| 87-68-3 | HEXACHLOROBUTADIENE | ug/kg | 14.6 U | 14.5 U | 13.7 U | 13.5 U | 15.1 U |
| 77-47-4 | HEXACHLOROCYCLOPENTADIENE | ug/kg | 9.8 U | 9.7 U | 9.1 U | 9 U | 10.1 U |
| 67-72-1 | HEXACHLOROETHANE | ug/kg | 17.9 U | 17.9 U | 16.8 U | 16.6 U | 18.6 U |
| 193-39-5 | INDENO(1,2,3-C,D)PYRENE | ug/kg | 13.4 U | 13.3 U | 180 J | 250 J | 13.9 U |
| 78-59-1 | ISOPHORONE | ug/kg | 13.3 U | 13.2 U | 12.4 U | 12.3 U | 13.7 U |
| 91-20-3 | NAPHTHALENE | ug/kg | 600 | 13.8 U | 3500 J+ | 5000 | 150 J |
| 98-95-3 | NITROBENZENE | ug/kg | 15.2 U | 15.1 U | 14.2 U | 14.1 U | 15.7 U |
| 621-64-7 | N-NITROSODI-N-PROPYLAMINE | ug/kg | 20.2 U | 20.2 U | 19 U | 18.7 U | 21 U |
| 86-30-6 | N-NITROSODIPHENYLAMINE | ug/kg | 9.6 U | 9.6 U | 9 U | 8.9 U | 10 U |
| 87-86-5 | PENTACHLOROPHENOL | ug/kg | 27.5 U | 27.4 U | 25.7 U | 25.4 U | 28.5 U |
| 85-01-8 | PHENANTHRENE | ug/kg | 10.8 U | 10.8 U | 500 | 660 | 11.2 U |
| 108-95-2 | PHENOL | ug/kg | 83.1 J | 9.2 U | 8.7 U | 92.2 J | 9.6 U |
| 129-00-0 | PYRENE | ug/kg | 120 J | 9.6 U | 700 | 1000 | 10 U |

| | | | | | | Field Dup | |
|---|---|---|---|---|---|---|---|
| Consolidated Edison | | Location ID: | SB-74 | SB-74 | SB-75 | SB-75 | SB-75 |
| Farrington Street Remedial Investigation | | Sample ID: | SB-74(7-9)-20141110 | SB-74(13-15)-20141110 | SB-75(5-7)-20141110 | SB-175(5-7)-20141110 | SB-75(15-20)-20141110 |
| 2015 Soil Analytical Data F4695 | | Lab Sample Id: | F4695-06 | F4695-07 | F4695-01 | F4695-05 | F4695-02 |
| | | Depth: | 7 - 9 ft | 13 - 15 ft | 5 - 7 ft | 5 - 7 ft | 15 - 20 ft |
| | | Source: | CTECH | CTECH | CTECH | CTECH | CTECH |
| | | SDG: | F4695 | F4695 | F4695 | F4695 | F4695 |
| | | Matrix: | SOIL | SOIL | SOIL | SOIL | SOIL |
| | | Sampled: | 11/10/2014 12:55 | 11/10/2014 13:15 | 11/10/2014 9:00 | 11/10/2014 9:00 | 11/10/2014 10:05 |
| | | Validated: | 2/25/2015 | 2/25/2015 | 2/25/2015 | 2/25/2015 | 2/25/2015 |
| CAS NO. | COMPOUND | UNITS: | | | | | |
| | INORGANICS | | | | | | |
| 7429-90-5 | ALUMINUM | mg/kg | 3740 | 6770 | 5850 | 4850 | 8390 J |
| 7440-36-0 | ANTIMONY | mg/kg | 0.551 U | 0.578 U | 0.667 J | 0.526 U | 0.616 U |
| 7440-38-2 | ARSENIC | mg/kg | 5.32 | 2.32 | 8.91 | 8.06 | 3.53 |
| 7440-39-3 | BARIUM | mg/kg | 35.9 | 53.6 | 119 | 122 | 23.5 |
| 7440-41-7 | BERYLLIUM | mg/kg | 0.329 | 0.536 | 0.462 | 0.401 | 0.542 |
| 7440-43-9 | CADMIUM | mg/kg | 0.059 U | 0.062 U | 0.057 U | 0.056 U | 0.066 U |
| 7440-70-2 | CALCIUM | mg/kg | 1780 | 1190 | 30600 J | 19900 J | 1580 J |
| 7440-47-3 | CHROMIUM, TOTAL | mg/kg | 11.5 | 16.8 | 16.1 | 13.9 | 20.8 J |
| 7440-48-4 | COBALT | mg/kg | 6.78 | 8.55 | 8 | 6.62 | 8.43 |
| 7440-50-8 | COPPER | mg/kg | 30.5 J+ | 14 J+ | 52.6 J+ | 55.2 J+ | 13.6 J |
| 7439-89-6 | IRON | mg/kg | 11800 | 18500 | 18600 | 15700 | 17800 |
| 7439-92-1 | LEAD | mg/kg | 44.9 | 22.1 | 235 | 269 | 19.7 |
| 7439-95-4 | MAGNESIUM | mg/kg | 1690 | 2590 | 12800 J | 7980 J | 2590 J |
| 7439-96-5 | MANGANESE | mg/kg | 173 J+ | 274 J+ | 211 J+ | 177 J+ | 82.1 J |
| 7439-97-6 | MERCURY | mg/kg | 0.091 | 0.039 | 0.166 | 0.157 | 0.017 |
| 7440-02-0 | NICKEL | mg/kg | 18.4 | 19.4 | 22.8 | 18 | 18.2 |
| 7440-09-7 | POTASSIUM | mg/kg | 664 | 1460 | 748 | 637 | 1670 J |
| 7782-49-2 | SELENIUM | mg/kg | 0.808 J | 0.547 J | 0.589 J | 0.616 J | 0.868 J |
| 7440-22-4 | SILVER | mg/kg | 0.123 U | 0.129 U | 0.118 U | 0.117 U | 0.137 UJ |
| 7440-23-5 | SODIUM | mg/kg | 190 | 543 | 275 | 239 | 413 |
| 7440-28-0 | THALLIUM | mg/kg | 0.266 U | 0.279 U | 0.255 U | 0.254 U | 0.297 U |
| 7440-62-2 | VANADIUM | mg/kg | 14.9 | 20.5 | 20.8 | 19 | 28.2 J |
| 7440-66-6 | ZINC | mg/kg | 43.9 | 41.4 | 197 | 187 | 38.7 J+ |
| 57-12-5 | CYANIDE | mg/kg | 0.038 U | 0.039 U | 0.645 J | 0.088 J | 0.04 U |

| Consolidated Edison<br>Farrington Street Remedial Investigation<br>2015 Soil Analytical Data F4695 | | Location ID:<br>Sample ID:<br>Lab Sample Id:<br>Depth:<br>Source:<br>SDG:<br>Matrix:<br>Sampled:<br>Validated: | FIELD QC<br>FB111014-20141110<br>F4695-08<br>-<br>CTECH<br>F4695<br>WATER<br>11/10/2014 15:45<br>2/25/2015 |
|---|---|---|---|
| CAS NO. | COMPOUND | UNITS: | |
| | VOLATILES | | ug/L |
| 71-55-6 | 1,1,1-TRICHLOROETHANE | ug/kg | 0.2 U |
| 79-34-5 | 1,1,2,2-TETRACHLOROETHANE | ug/kg | 0.2 U |
| 76-13-1 | 1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE | ug/kg | 0.2 U |
| 79-00-5 | 1,1,2-TRICHLOROETHANE | ug/kg | 0.2 U |
| 75-34-3 | 1,1-DICHLOROETHANE | ug/kg | 0.2 U |
| 75-35-4 | 1,1-DICHLOROETHENE | ug/kg | 0.2 U |
| 87-61-6 | 1,2,3-TRICHLOROBENZENE | ug/kg | 0.2 U |
| 120-82-1 | 1,2,4-TRICHLOROBENZENE | ug/kg | 0.2 U |
| 96-12-8 | 1,2-DIBROMO-3-CHLOROPROPANE | ug/kg | 0.2 U |
| 106-93-4 | 1,2-DIBROMOETHANE | ug/kg | 0.2 U |
| 95-50-1 | 1,2-DICHLOROBENZENE | ug/kg | 0.2 U |
| 107-06-2 | 1,2-DICHLOROETHANE | ug/kg | 0.2 U |
| 78-87-5 | 1,2-DICHLOROPROPANE | ug/kg | 0.2 U |
| 541-73-1 | 1,3-DICHLOROBENZENE | ug/kg | 0.2 U |
| 106-46-7 | 1,4-DICHLOROBENZENE | ug/kg | 0.2 U |
| 123-91-1 | 1,4-DIOXANE (P-DIOXANE) | ug/kg | R |
| 591-78-6 | 2-HEXANONE | ug/kg | 1.9 U |
| 67-64-1 | ACETONE | ug/kg | 0.5 U |
| 71-43-2 | BENZENE | ug/kg | 0.2 U |
| 74-97-5 | BROMOCHLOROMETHANE | ug/kg | 0.2 U |
| 75-27-4 | BROMODICHLOROMETHANE | ug/kg | 0.2 U |
| 75-25-2 | BROMOFORM | ug/kg | 0.2 U |
| 74-83-9 | BROMOMETHANE | ug/kg | 0.2 U |
| 75-15-0 | CARBON DISULFIDE | ug/kg | 5.6 |
| 56-23-5 | CARBON TETRACHLORIDE | ug/kg | 0.2 U |
| 108-90-7 | CHLOROBENZENE | ug/kg | 0.2 U |
| 75-00-3 | CHLOROETHANE | ug/kg | 0.2 U |
| 67-66-3 | CHLOROFORM | ug/kg | 0.2 U |
| 74-87-3 | CHLOROMETHANE | ug/kg | 0.2 U |
| 156-59-2 | CIS-1,2-DICHLOROETHYLENE | ug/kg | 0.2 U |
| 10061-01-5 | CIS-1,3-DICHLOROPROPENE | ug/kg | 0.2 U |
| 110-82-7 | CYCLOHEXANE | ug/kg | 0.2 UJ |
| 124-48-1 | DIBROMOCHLOROMETHANE | ug/kg | 0.2 U |
| 75-71-8 | DICHLORODIFLUOROMETHANE | ug/kg | 0.2 U |
| 100-41-4 | ETHYLBENZENE | ug/kg | 0.2 U |
| 98-82-8 | ISOPROPYLBENZENE (CUMENE) | ug/kg | 0.2 U |
| XYLMP | M,P-XYLENE (SUM OF ISOMERS) | ug/kg | 0.4 U |
| 79-20-9 | METHYL ACETATE | ug/kg | 0.2 U |
| 78-93-3 | METHYL ETHYL KETONE (2-BUTANONE) | ug/kg | 1.3 U |
| 108-10-1 | METHYL ISOBUTYL KETONE | ug/kg | 1 U |
| 108-87-2 | METHYLCYCLOHEXANE | ug/kg | 0.2 U |
| 75-09-2 | METHYLENE CHLORIDE | ug/kg | 0.2 U |
| 95-47-6 | O-XYLENE (1,2-DIMETHYLBENZENE) | ug/kg | 0.2 U |
| 100-42-5 | STYRENE | ug/kg | 0.2 UJ |
| 1634-04-4 | TERT-BUTYL METHYL ETHER | ug/kg | 0.35 U |
| 127-18-4 | TETRACHLOROETHYLENE(PCE) | ug/kg | 0.2 U |
| 108-88-3 | TOLUENE | ug/kg | 0.2 U |
| 156-60-5 | TRANS-1,2-DICHLOROETHENE | ug/kg | 0.2 U |
| 10061-02-6 | TRANS-1,3-DICHLOROPROPENE | ug/kg | 0.2 U |
| 79-01-6 | TRICHLOROETHYLENE (TCE) | ug/kg | 0.2 U |
| 75-69-4 | TRICHLOROFLUOROMETHANE | ug/kg | 0.2 U |
| 75-01-4 | VINYL CHLORIDE | ug/kg | 0.2 U |

| Consolidated Edison<br>Farrington Street Remedial Investigation<br>2015 Soil Analytical Data F4695 | | Location ID:<br>Sample ID:<br>Lab Sample Id:<br>Depth:<br>Source:<br>SDG:<br>Matrix:<br>Sampled:<br>Validated: | FIELD QC<br>FB111014-20141110<br>F4695-08<br>-<br>CTECH<br>F4695<br>WATER<br>11/10/2014 15:45<br>2/25/2015 |
|---|---|---|---|
| CAS NO. | COMPOUND | UNITS: | |
| | SEMIVOLATILES | | ug/L |
| 95-94-3 | 1,2,4,5-TETRACHLOROBENZENE | ug/kg | 0.2 U |
| 58-90-2 | 2,3,4,6-TETRACHLOROPHENOL | ug/kg | 0.2 U |
| 95-95-4 | 2,4,5-TRICHLOROPHENOL | ug/kg | 0.4 U |
| 88-06-2 | 2,4,6-TRICHLOROPHENOL | ug/kg | 0.56 U |
| 120-83-2 | 2,4-DICHLOROPHENOL | ug/kg | 0.66 U |
| 105-67-9 | 2,4-DIMETHYLPHENOL | ug/kg | 0.71 U |
| 51-28-5 | 2,4-DINITROPHENOL | ug/kg | 2.1 U |
| 121-14-2 | 2,4-DINITROTOLUENE | ug/kg | 1 U |
| 606-20-2 | 2,6-DINITROTOLUENE | ug/kg | 0.32 U |
| 91-58-7 | 2-CHLORONAPHTHALENE | ug/kg | 0.16 U |
| 95-57-8 | 2-CHLOROPHENOL | ug/kg | 0.54 U |
| 91-57-6 | 2-METHYLNAPHTHALENE | ug/kg | 0.32 U |
| 95-48-7 | 2-METHYLPHENOL (O-CRESOL) | ug/kg | 0.24 U |
| 88-74-4 | 2-NITROANILINE | ug/kg | 0.49 U |
| 88-75-5 | 2-NITROPHENOL | ug/kg | 0.52 U |
| MEPH3MEPH4 | 3- AND 4- METHYLPHENOL (TOTAL) | ug/kg | 0.38 U |
| 91-94-1 | 3,3'-DICHLOROBENZIDINE | ug/kg | 1 U |
| 99-09-2 | 3-NITROANILINE | ug/kg | 1 U |
| 534-52-1 | 4,6-DINITRO-2-METHYLPHENOL | ug/kg | 0.74 U |
| 101-55-3 | 4-BROMOPHENYL PHENYL ETHER | ug/kg | 0.23 U |
| 59-50-7 | 4-CHLORO-3-METHYLPHENOL | ug/kg | 0.4 U |
| 106-47-8 | 4-CHLOROANILINE | ug/kg | 1 U |
| 7005-72-3 | 4-CHLOROPHENYL PHENYL ETHER | ug/kg | 0.21 U |
| 100-01-6 | 4-NITROANILINE | ug/kg | 1.4 U |
| 100-02-7 | 4-NITROPHENOL | ug/kg | 2 U |
| 83-32-9 | ACENAPHTHENE | ug/kg | 0.21 U |
| 208-96-8 | ACENAPHTHYLENE | ug/kg | 0.7 U |
| 98-86-2 | ACETOPHENONE | ug/kg | 0.14 U |
| 120-12-7 | ANTHRACENE | ug/kg | 0.16 U |
| 1912-24-9 | ATRAZINE | ug/kg | 0.4 U |
| 100-52-7 | BENZALDEHYDE | ug/kg | R |
| 56-55-3 | BENZO(A)ANTHRACENE | ug/kg | 0.16 U |
| 50-32-8 | BENZO(A)PYRENE | ug/kg | 0.14 U |
| 205-99-2 | BENZO(B)FLUORANTHENE | ug/kg | 0.29 U |
| 191-24-2 | BENZO(G,H,I)PERYLENE | ug/kg | 0.29 U |
| 207-08-9 | BENZO(K)FLUORANTHENE | ug/kg | 0.18 U |
| 85-68-7 | BENZYL BUTYL PHTHALATE | ug/kg | 0.19 U |
| 92-52-4 | BIPHENYL (DIPHENYL) | ug/kg | 0.15 U |
| 111-91-1 | BIS(2-CHLOROETHOXY) METHANE | ug/kg | 0.55 U |
| 111-44-4 | BIS(2-CHLOROETHYL) ETHER | ug/kg | 0.55 U |
| 108-60-1 | BIS(2-CHLOROISOPROPYL) ETHER | ug/kg | 0.17 U |
| 117-81-7 | BIS(2-ETHYLHEXYL) PHTHALATE | ug/kg | 0.16 U |
| 105-60-2 | CAPROLACTAM | ug/kg | 1 U |
| 86-74-8 | CARBAZOLE | ug/kg | 0.22 U |
| 218-01-9 | CHRYSENE | ug/kg | 0.18 U |
| 53-70-3 | DIBENZ(A,H)ANTHRACENE | ug/kg | 0.42 U |
| 132-64-9 | DIBENZOFURAN | ug/kg | 0.24 U |
| 84-66-2 | DIETHYL PHTHALATE | ug/kg | 0.38 U |
| 131-11-3 | DIMETHYL PHTHALATE | ug/kg | 0.22 U |
| 84-74-2 | DI-N-BUTYL PHTHALATE | ug/kg | 1 U |
| 117-84-0 | DI-N-OCTYLPHTHALATE | ug/kg | 0.51 U |
| 206-44-0 | FLUORANTHENE | ug/kg | 0.4 U |
| 86-73-7 | FLUORENE | ug/kg | 0.31 U |
| 118-74-1 | HEXACHLOROBENZENE | ug/kg | 0.18 U |
| 87-68-3 | HEXACHLOROBUTADIENE | ug/kg | 0.25 U |
| 77-47-4 | HEXACHLOROCYCLOPENTADIENE | ug/kg | 0.24 U |
| 67-72-1 | HEXACHLOROETHANE | ug/kg | 0.25 U |
| 193-39-5 | INDENO(1,2,3-C,D)PYRENE | ug/kg | 0.15 U |
| 78-59-1 | ISOPHORONE | ug/kg | 0.3 U |
| 91-20-3 | NAPHTHALENE | ug/kg | 0.12 U |
| 98-95-3 | NITROBENZENE | ug/kg | 0.68 U |
| 621-64-7 | N-NITROSODI-N-PROPYLAMINE | ug/kg | 0.2 U |
| 86-30-6 | N-NITROSODIPHENYLAMINE | ug/kg | 0.6 U |
| 87-86-5 | PENTACHLOROPHENOL | ug/kg | 1 U |
| 85-01-8 | PHENANTHRENE | ug/kg | 0.26 U |
| 108-95-2 | PHENOL | ug/kg | 0.21 U |
| 129-00-0 | PYRENE | ug/kg | 0.2 U |

| Consolidated Edison<br>Farrington Street Remedial Investigation<br>2015 Soil Analytical Data F4695 | | Location ID:<br>Sample ID:<br>Lab Sample Id:<br>Depth:<br>Source:<br>SDG:<br>Matrix:<br>Sampled:<br>Validated: | FIELD QC<br>FB111014-20141110<br>F4695-08<br>-<br>CTECH<br>F4695<br>WATER<br>11/10/2014 15:45<br>2/25/2015 |
|---|---|---|---|
| CAS NO. | COMPOUND | UNITS: | |
| | INORGANICS | | ug/L |
| 7429-90-5 | ALUMINUM | mg/kg | 50 U |
| 7440-36-0 | ANTIMONY | mg/kg | 6.25 U |
| 7440-38-2 | ARSENIC | mg/kg | 2.5 U |
| 7440-39-3 | BARIUM | mg/kg | 4 U |
| 7440-41-7 | BERYLLIUM | mg/kg | 0.7 U |
| 7440-43-9 | CADMIUM | mg/kg | 0.5 U |
| 7440-70-2 | CALCIUM | mg/kg | 147 J |
| 7440-47-3 | CHROMIUM, TOTAL | mg/kg | 1.1 U |
| 7440-48-4 | COBALT | mg/kg | 3.75 U |
| 7440-50-8 | COPPER | mg/kg | 2 U |
| 7439-89-6 | IRON | mg/kg | 50 U |
| 7439-92-1 | LEAD | mg/kg | 1.5 U |
| 7439-95-4 | MAGNESIUM | mg/kg | 32.5 U |
| 7439-96-5 | MANGANESE | mg/kg | 1.7 U |
| 7439-97-6 | MERCURY | mg/kg | 0.1 U |
| 7440-02-0 | NICKEL | mg/kg | 4.2 U |
| 7440-09-7 | POTASSIUM | mg/kg | 38.8 U |
| 7782-49-2 | SELENIUM | mg/kg | 4.8 U |
| 7440-22-4 | SILVER | mg/kg | 1.25 U |
| 7440-23-5 | SODIUM | mg/kg | 298 J |
| 7440-28-0 | THALLIUM | mg/kg | 2.4 U |
| 7440-62-2 | VANADIUM | mg/kg | 5 U |
| 7440-66-6 | ZINC | mg/kg | 5 U |
| 57-12-5 | CYANIDE | mg/kg | 0.003 U |

| Consolidated Edison<br>Farrington Street Remedial Investigation<br>2015 Soil Analytical Data<br>SDG: F5197 | | Location ID:<br>Sample ID:<br>Lab Sample Id:<br>Depth:<br>Source:<br>SDG:<br>Matrix:<br>Sampled:<br>Validated: | CSB-79<br>CSB-79(7-10)-20141215<br>F5197-01<br>7 - 10 ft<br>CTECH<br>F5197<br>SOIL<br>12/15/2014 9:15<br>2/25/2015 | CSB-79<br>CSB-79(16-18)-20141215<br>F5197-04<br>16 - 18 ft<br>CTECH<br>F5197<br>SOIL<br>12/15/2014 9:25<br>2/25/2015 | Field Dup<br>CSB-79<br>CSB-179(16-18)-20141215<br>F5197-05<br>16 - 18 ft<br>CTECH<br>F5197<br>SOIL<br>12/15/2014 9:25<br>2/25/2015 | SB-72<br>SB-72(7-9)-20141215<br>F5197-06<br>7 - 9 ft<br>CTECH<br>F5197<br>SOIL<br>12/15/2014 11:50<br>2/25/2015 | SB-72<br>SB-72(15-17)-20141215<br>F5197-07<br>15 - 17 ft<br>CTECH<br>F5197<br>SOIL<br>12/15/2014 13:35<br>2/25/2015 |
|---|---|---|---|---|---|---|---|
| CAS NO. | COMPOUND | UNITS: | | | | | |
| | VOLATILES | | | | | | |
| 71-55-6 | 1,1,1-TRICHLOROETHANE | ug/kg | 0.75 U | 0.97 U | 0.76 U | 0.6 UJ | 0.61 U |
| 79-34-5 | 1,1,2,2-TETRACHLOROETHANE | ug/kg | 0.69 U | 0.89 U | 0.7 U | 0.55 UJ | 0.56 U |
| 76-13-1 | 1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE | ug/kg | 0.75 U | 0.97 U | 0.76 U | 0.6 UJ | 0.61 U |
| 79-00-5 | 1,1,2-TRICHLOROETHANE | ug/kg | 1.4 U | 1.8 U | 1.4 U | 1.1 UJ | 1.1 UJ |
| 75-34-3 | 1,1-DICHLOROETHANE | ug/kg | 0.75 U | 0.97 U | 0.76 U | 0.6 UJ | 0.61 U |
| 75-35-4 | 1,1-DICHLOROETHENE | ug/kg | 0.75 U | 0.97 U | 0.76 U | 0.6 UJ | 0.61 U |
| 87-61-6 | 1,2,3-TRICHLOROBENZENE | ug/kg | R | 0.97 U | R | R | 0.61 UJ |
| 120-82-1 | 1,2,4-TRICHLOROBENZENE | ug/kg | R | 0.97 U | R | R | 0.61 UJ |
| 96-12-8 | 1,2-DIBROMO-3-CHLOROPROPANE | ug/kg | R | 1.7 U | R | R | 1.1 U |
| 106-93-4 | 1,2-DIBROMOETHANE | ug/kg | 0.75 U | 0.97 U | 0.76 U | 0.6 UJ | 0.61 U |
| 95-50-1 | 1,2-DICHLOROBENZENE | ug/kg | R | 0.97 U | R | R | 0.61 U |
| 107-06-2 | 1,2-DICHLOROETHANE | ug/kg | 0.75 U | 0.97 U | 0.76 U | 0.6 UJ | 0.61 U |
| 78-87-5 | 1,2-DICHLOROPROPANE | ug/kg | 0.39 U | 0.51 U | 0.39 U | 0.31 UJ | 0.32 U |
| 541-73-1 | 1,3-DICHLOROBENZENE | ug/kg | R | 0.72 U | R | R | 0.45 U |
| 106-46-7 | 1,4-DICHLOROBENZENE | ug/kg | R | 0.8 U | R | R | 0.5 U |
| 123-91-1 | 1,4-DIOXANE (P-DIOXANE) | ug/kg | 150 U | 190 U | 150 U | 120 UJ | 120 U |
| 591-78-6 | 2-HEXANONE | ug/kg | 12.3 J | 4.9 U | 3.8 U | 3 UJ | 3.1 U |
| 67-64-1 | ACETONE | ug/kg | 3.8 U | 50.7 | 36.3 J | 26.6 J | 3.1 U |
| 71-43-2 | BENZENE | ug/kg | 0.57 U | 0.74 U | 0.58 U | 0.45 UJ | 0.46 U |
| 74-97-5 | BROMOCHLOROMETHANE | ug/kg | 0.75 U | 0.97 U | 0.76 U | 0.6 UJ | 0.61 U |
| 75-27-4 | BROMODICHLOROMETHANE | ug/kg | 0.75 U | 0.97 U | 0.76 U | 0.6 UJ | 0.61 U |
| 75-25-2 | BROMOFORM | ug/kg | R | 1.4 U | R | R | 0.9 U |
| 74-83-9 | BROMOMETHANE | ug/kg | 1.5 U | 1.9 U | 1.5 U | 1.2 UJ | 1.2 U |
| 75-15-0 | CARBON DISULFIDE | ug/kg | 0.75 UJ | 6.2 J | 6.4 J | 0.6 UJ | 0.61 U |
| 56-23-5 | CARBON TETRACHLORIDE | ug/kg | 0.75 U | 0.97 U | 0.76 U | 0.6 UJ | 0.61 U |
| 108-90-7 | CHLOROBENZENE | ug/kg | 0.75 U | 0.97 U | 0.76 U | 0.6 UJ | 0.61 U |
| 75-00-3 | CHLOROETHANE | ug/kg | 0.75 U | 0.97 U | 0.76 U | 0.6 UJ | 0.61 UJ |
| 67-66-3 | CHLOROFORM | ug/kg | 0.75 U | 0.97 U | 0.76 U | 0.6 UJ | 0.61 U |
| 74-87-3 | CHLOROMETHANE | ug/kg | 0.75 U | 0.97 U | 0.76 U | 0.6 UJ | 0.61 U |
| 156-59-2 | CIS-1,2-DICHLOROETHYLENE | ug/kg | 0.75 U | 0.97 U | 0.76 U | 0.6 UJ | 0.61 U |
| 10061-01-5 | CIS-1,3-DICHLOROPROPENE | ug/kg | 0.75 U | 0.97 U | 0.76 U | 0.6 UJ | 0.61 U |
| 110-82-7 | CYCLOHEXANE | ug/kg | 0.75 U | 0.97 U | 0.76 U | 0.6 UJ | 0.61 U |
| 124-48-1 | DIBROMOCHLOROMETHANE | ug/kg | 0.75 U | 0.97 U | 0.76 U | 0.6 UJ | 0.61 U |
| 75-71-8 | DICHLORODIFLUOROMETHANE | ug/kg | 0.75 U | 0.97 U | 0.76 U | 0.6 UJ | 0.61 U |
| 100-41-4 | ETHYLBENZENE | ug/kg | 0.75 U | 0.97 U | 0.76 U | 0.6 UJ | 0.61 U |
| 98-82-8 | ISOPROPYLBENZENE (CUMENE) | ug/kg | 2.3 J | 0.93 U | 0.73 U | 0.57 UJ | 0.59 U |
| XYLMP | M,P-XYLENE (SUM OF ISOMERS) | ug/kg | 2.2 J | 1.4 U | 1.9 J | 0.86 UJ | 0.88 U |
| 79-20-9 | METHYL ACETATE | ug/kg | 1.5 U | 1.9 U | 1.5 U | 1.2 UJ | 1.2 U |
| 78-93-3 | METHYL ETHYL KETONE | ug/kg | 4.7 U | 12.9 J | 4.7 U | 3.7 UJ | 3.8 U |
| 108-10-1 | METHYL ISOBUTYL KETONE | ug/kg | 3.8 U | 4.9 U | 3.8 U | 3 UJ | 3.1 U |
| 108-87-2 | METHYLCYCLOHEXANE | ug/kg | 0.75 U | 0.97 U | 0.76 U | 0.6 UJ | 0.61 U |
| 75-09-2 | METHYLENE CHLORIDE | ug/kg | 2.3 J | 4.4 J | 2.3 J | 2.4 J | 2.7 J |
| 95-47-6 | O-XYLENE (1,2-DIMETHYLBENZENE) | ug/kg | 0.75 U | 0.97 U | 0.76 U | 0.6 UJ | 0.61 U |
| 100-42-5 | STYRENE | ug/kg | 0.68 U | 0.88 U | 0.68 U | 0.54 UJ | 0.55 U |
| 1634-04-4 | TERT-BUTYL METHYL ETHER | ug/kg | 0.75 U | 0.97 U | 0.76 U | 0.6 UJ | 0.61 U |
| 127-18-4 | TETRACHLOROETHYLENE(PCE) | ug/kg | 0.75 U | 0.97 U | 0.76 U | 0.6 UJ | 0.61 U |
| 108-88-3 | TOLUENE | ug/kg | 0.75 U | 0.97 U | 0.76 U | 0.6 UJ | 0.61 U |
| 156-60-5 | TRANS-1,2-DICHLOROETHENE | ug/kg | 0.75 U | 0.97 U | 0.76 U | 0.6 UJ | 0.61 U |
| 10061-02-6 | TRANS-1,3-DICHLOROPROPENE | ug/kg | 0.75 U | 0.97 U | 0.76 U | 0.6 UJ | 0.61 U |
| 79-01-6 | TRICHLOROETHYLENE (TCE) | ug/kg | 0.75 U | 0.97 U | 0.76 U | 0.6 UJ | 0.61 U |
| 75-69-4 | TRICHLOROFLUOROMETHANE | ug/kg | 0.75 U | 0.97 U | 0.76 U | 0.6 UJ | 0.61 U |
| 75-01-4 | VINYL CHLORIDE | ug/kg | 0.75 U | 0.97 U | 0.76 U | 0.6 UJ | 0.61 U |

| Consolidated Edison<br>Farrington Street Remedial Investigation<br>2015 Soil Analytical Data<br>SDG: F5197 | | Location ID:<br>Sample ID:<br>Lab Sample Id:<br>Depth:<br>Source:<br>SDG:<br>Matrix:<br>Sampled:<br>Validated: | CSB-79<br>CSB-79(7-10)-20141215<br>F5197-01<br>7 - 10 ft<br>CTECH<br>F5197<br>SOIL<br>12/15/2014 9:15<br>2/25/2015 | CSB-79<br>CSB-79(16-18)-20141215<br>F5197-04<br>16 - 18 ft<br>CTECH<br>F5197<br>SOIL<br>12/15/2014 9:25<br>2/25/2015 | Field Dup<br>CSB-79<br>CSB-179(16-18)-20141215<br>F5197-05<br>16 - 18 ft<br>CTECH<br>F5197<br>SOIL<br>12/15/2014 9:25<br>2/25/2015 | SB-72<br>SB-72(7-9)-20141215<br>F5197-06<br>7 - 9 ft<br>CTECH<br>F5197<br>SOIL<br>12/15/2014 11:50<br>2/25/2015 | SB-72<br>SB-72(15-17)-20141215<br>F5197-07<br>15 - 17 ft<br>CTECH<br>F5197<br>SOIL<br>12/15/2014 13:35<br>2/25/2015 |
|---|---|---|---|---|---|---|---|
| CAS NO. | COMPOUND | UNITS: | | | | | |
| | SEMIVOLATILES | | | | | | |
| 95-94-3 | 1,2,4,5-TETRACHLOROBENZENE | ug/kg | 19.6 U | 25.4 U | 19.9 U | 15.6 U | 16 U |
| 58-90-2 | 2,3,4,6-TETRACHLOROPHENOL | ug/kg | 220 J | 25.4 U | 19.9 U | 15.6 U | 16 U |
| 95-95-4 | 2,4,5-TRICHLOROPHENOL | ug/kg | 35.1 U | 45.4 U | 35.5 U | 27.8 U | 28.5 U |
| 88-06-2 | 2,4,6-TRICHLOROPHENOL | ug/kg | 15.3 U | 19.8 U | 15.5 U | 12.1 U | 12.4 U |
| 120-83-2 | 2,4-DICHLOROPHENOL | ug/kg | 19 U | 24.6 U | 19.3 U | 15.1 U | 15.5 U |
| 105-67-9 | 2,4-DIMETHYLPHENOL | ug/kg | 28.3 U | 36.7 U | 28.7 U | 22.5 U | 23 U |
| 51-28-5 | 2,4-DINITROPHENOL | ug/kg | 50.8 U | 65.7 U | 51.4 U | 40.3 U | 41.3 U |
| 121-14-2 | 2,4-DINITROTOLUENE | ug/kg | 15 U | 19.4 U | 15.2 U | 11.9 U | 12.2 U |
| 606-20-2 | 2,6-DINITROTOLUENE | ug/kg | 20.4 U | 26.4 U | 20.6 U | 16.2 U | 16.6 U |
| 91-58-7 | 2-CHLORONAPHTHALENE | ug/kg | 11.4 U | 14.7 U | 11.5 U | 9 U | 9.3 U |
| 95-57-8 | 2-CHLOROPHENOL | ug/kg | 26.4 U | 34.1 U | 26.7 U | 20.9 U | 21.4 U |
| 91-57-6 | 2-METHYLNAPHTHALENE | ug/kg | 12.6 U | 16.3 U | 12.7 U | 10 U | 10.2 U |
| 95-48-7 | 2-METHYLPHENOL (O-CRESOL) | ug/kg | 27.1 U | 35.1 U | 27.4 U | 21.5 U | 22 U |
| 88-74-4 | 2-NITROANILINE | ug/kg | 22.2 U | 28.7 U | 22.4 U | 17.6 U | 18 U |
| 88-75-5 | 2-NITROPHENOL | ug/kg | 24.1 U | 31.2 U | 24.4 U | 19.2 U | 19.6 U |
| MEPH3MEPH4 | 3- AND 4- METHYLPHENOL (TOTAL) | ug/kg | 25.9 U | 33.5 U | 26.2 U | 20.6 U | 21.1 U |
| 91-94-1 | 3,3'-DICHLOROBENZIDINE | ug/kg | 32.1 U | 41.5 U | 32.4 U | 25.5 U | 26.1 U |
| 99-09-2 | 3-NITROANILINE | ug/kg | 32.1 U | 41.5 U | 32.4 U | 25.5 U | 26.1 U |
| 534-52-1 | 4,6-DINITRO-2-METHYLPHENOL | ug/kg | 28.6 U | 37 U | 29 U | 22.7 U | 23.3 U |
| 101-55-3 | 4-BROMOPHENYL PHENYL ETHER | ug/kg | 9.7 U | 12.6 U | 9.9 U | 7.7 U | 7.9 U |
| 59-50-7 | 4-CHLORO-3-METHYLPHENOL | ug/kg | 22.2 U | 28.7 U | 22.4 U | 17.6 U | 18 U |
| 106-47-8 | 4-CHLOROANILINE | ug/kg | 35.2 U | 45.6 U | 35.6 U | 28 U | 28.6 U |
| 7005-72-3 | 4-CHLOROPHENYL PHENYL ETHER | ug/kg | 27.1 U | 35.1 U | 27.4 U | 21.5 U | 22 U |
| 100-01-6 | 4-NITROANILINE | ug/kg | 65.1 U | 84.2 U | 65.8 U | 51.6 U | 52.9 U |
| 100-02-7 | 4-NITROPHENOL | ug/kg | 92.8 U | 120 U | 93.8 U | 73.6 U | 75.4 U |
| 83-32-9 | ACENAPHTHENE | ug/kg | 14.1 U | 18.2 U | 14.2 U | 11.2 U | 11.5 U |
| 208-96-8 | ACENAPHTHYLENE | ug/kg | 12.6 U | 16.3 U | 12.7 U | 10 U | 10.2 U |
| 98-86-2 | ACETOPHENONE | ug/kg | 15.3 U | 19.8 U | 15.5 U | 12.1 U | 12.4 U |
| 120-12-7 | ANTHRACENE | ug/kg | 10.2 U | 13.2 U | 10.3 U | 8.1 U | 8.3 U |
| 1912-24-9 | ATRAZINE | ug/kg | 26.4 U | 34.1 U | 26.7 U | 20.9 U | 21.4 U |
| 100-52-7 | BENZALDEHYDE | ug/kg | R | R | R | R | R |
| 56-55-3 | BENZO(A)ANTHRACENE | ug/kg | 23.8 U | 30.8 U | 24.1 U | 18.9 U | 19.4 U |
| 50-32-8 | BENZO(A)PYRENE | ug/kg | 10.8 U | 14 U | 10.9 U | 8.6 U | 8.8 U |
| 205-99-2 | BENZO(B)FLUORANTHENE | ug/kg | 16.3 U | 21.1 U | 16.5 U | 13 U | 13.3 U |
| 191-24-2 | BENZO(G,H,I)PERYLENE | ug/kg | 20.2 U | 26.2 U | 20.5 U | 16.1 U | 16.4 U |
| 207-08-9 | BENZO(K)FLUORANTHENE | ug/kg | 23.5 U | 30.4 U | 23.8 U | 18.7 U | 19.1 U |
| 85-68-7 | BENZYL BUTYL PHTHALATE | ug/kg | 24 U | 31 U | 24.3 U | 19 U | 19.5 U |
| 92-52-4 | BIPHENYL (DIPHENYL) | ug/kg | 18.9 U | 24.4 U | 19.1 U | 15 U | 15.3 U |
| 111-91-1 | BIS(2-CHLOROETHOXY) METHANE | ug/kg | 28.8 U | 37.2 U | 29.1 U | 22.8 U | 23.4 U |
| 111-44-4 | BIS(2-CHLOROETHYL) ETHER | ug/kg | 24 U | 31 U | 24.3 U | 19 U | 19.5 U |
| 108-60-1 | BIS(2-CHLOROISOPROPYL) ETHER | ug/kg | 20.7 U | 26.8 U | 20.9 U | 16.4 U | 16.8 U |
| 117-81-7 | BIS(2-ETHYLHEXYL) PHTHALATE | ug/kg | 17.7 U | 22.9 U | 17.9 U | 14 U | 14.4 U |
| 105-60-2 | CAPROLACTAM | ug/kg | 23.2 U | 30.1 U | 23.5 U | 18.4 U | 18.9 U |
| 86-74-8 | CARBAZOLE | ug/kg | 10.9 U | 14.2 U | 11.1 U | 8.7 U | 8.9 U |
| 218-01-9 | CHRYSENE | ug/kg | 22.6 U | 29.3 U | 22.9 U | 18 U | 18.4 U |
| 53-70-3 | DIBENZ(A,H)ANTHRACENE | ug/kg | 14.4 U | 18.6 U | 14.6 U | 11.4 U | 11.7 U |
| 132-64-9 | DIBENZOFURAN | ug/kg | 19.5 U | 25.2 U | 19.7 U | 15.5 U | 15.8 U |
| 84-66-2 | DIETHYL PHTHALATE | ug/kg | 7.8 U | 10.1 U | 7.9 U | 6.2 U | 6.3 U |
| 131-11-3 | DIMETHYL PHTHALATE | ug/kg | 930 | 200 J | 170 J | 670 | 160 J |
| 84-74-2 | DI-N-BUTYL PHTHALATE | ug/kg | 39.3 U | 50.8 U | 39.7 U | 31.2 U | 31.9 U |
| 117-84-0 | DI-N-OCTYLPHTHALATE | ug/kg | 5.7 U | 7.4 U | 5.8 U | 4.5 U | 4.6 U |
| 206-44-0 | FLUORANTHENE | ug/kg | 10 U | 13 U | 110 J | 8 U | 8.2 U |
| 86-73-7 | FLUORENE | ug/kg | 18.9 U | 24.4 U | 19.1 U | 15 U | 15.3 U |
| 118-74-1 | HEXACHLOROBENZENE | ug/kg | 20.4 U | 26.4 U | 20.6 U | 16.2 U | 16.6 U |
| 87-68-3 | HEXACHLOROBUTADIENE | ug/kg | 18.1 U | 23.5 U | 18.3 U | 14.4 U | 14.7 U |
| 77-47-4 | HEXACHLOROCYCLOPENTADIENE | ug/kg | 12.1 U | 15.7 U | 12.3 U | 9.6 U | 9.9 U |
| 67-72-1 | HEXACHLOROETHANE | ug/kg | 22.3 U | 28.9 U | 22.6 U | 17.7 U | 18.2 U |
| 193-39-5 | INDENO(1,2,3-C,D)PYRENE | ug/kg | 16.6 U | 21.5 U | 16.8 U | 13.2 U | 13.5 U |
| 78-59-1 | ISOPHORONE | ug/kg | 16.5 U | 21.3 U | 16.7 U | 13.1 U | 13.4 U |
| 91-20-3 | NAPHTHALENE | ug/kg | 17.2 U | 22.3 U | 17.4 U | 13.7 U | 14 U |
| 98-95-3 | NITROBENZENE | ug/kg | 18.9 U | 24.4 U | 19.1 U | 15 U | 15.3 U |
| 621-64-7 | N-NITROSODI-N-PROPYLAMINE | ug/kg | 25.2 U | 32.6 U | 25.5 U | 20 U | 20.5 U |
| 86-30-6 | N-NITROSODIPHENYLAMINE | ug/kg | 12 U | 15.5 U | 12.1 U | 9.5 U | 9.7 U |
| 87-86-5 | PENTACHLOROPHENOL | ug/kg | 34.2 U | 44.2 U | 34.6 U | 27.1 U | 27.8 U |
| 85-01-8 | PHENANTHRENE | ug/kg | 13.5 U | 150 J | 13.6 U | 10.7 U | 11 U |
| 108-95-2 | PHENOL | ug/kg | 140 J | 330 J | 11.7 U | 9.2 U | 160 J |
| 129-00-0 | PYRENE | ug/kg | 12 U | 15.5 U | 12.1 U | 9.5 U | 9.7 U |

| Consolidated Edison<br>Farrington Street Remedial Investigation<br>2015 Soil Analytical Data<br>SDG: F5197 | | Location ID:<br>Sample ID:<br>Lab Sample Id:<br>Depth:<br>Source:<br>SDG:<br>Matrix:<br>Sampled:<br>Validated: | CSB-79<br>CSB-79(7-10)-20141215<br>F5197-01<br>7 - 10 ft<br>CTECH<br>F5197<br>SOIL<br>12/15/2014 9:15<br>2/25/2015 | CSB-79<br>CSB-79(16-18)-20141215<br>F5197-04<br>16 - 18 ft<br>CTECH<br>F5197<br>SOIL<br>12/15/2014 9:25<br>2/25/2015 | Field Dup<br>CSB-79<br>CSB-179(16-18)-20141215<br>F5197-05<br>16 - 18 ft<br>CTECH<br>F5197<br>SOIL<br>12/15/2014 9:25<br>2/25/2015 | SB-72<br>SB-72(7-9)-20141215<br>F5197-06<br>7 - 9 ft<br>CTECH<br>F5197<br>SOIL<br>12/15/2014 11:50<br>2/25/2015 | SB-72<br>SB-72(15-17)-20141215<br>F5197-07<br>15 - 17 ft<br>CTECH<br>F5197<br>SOIL<br>12/15/2014 13:35<br>2/25/2015 |
|---|---|---|---|---|---|---|---|
| CAS NO. | COMPOUND | UNITS: | | | | | |
| | INORGANICS | | | | | | |
| 7429-90-5 | ALUMINUM | mg/kg | 1810 | 5040 J | 2490 J | 7880 | 4610 |
| 7440-36-0 | ANTIMONY | mg/kg | 0.742 U | 0.918 U | 0.694 U | 0.579 U | 0.575 U |
| 7440-38-2 | ARSENIC | mg/kg | 8.67 | 8.77 | 5.41 | 3.98 | 2.45 |
| 7440-39-3 | BARIUM | mg/kg | 45.3 J+ | 692 | 421 | 105 | 23.5 |
| 7440-41-7 | BERYLLIUM | mg/kg | 0.268 J | 0.538 J | 0.291 J | 0.512 | 0.36 |
| 7440-43-9 | CADMIUM | mg/kg | 0.079 U | 0.56 | 0.401 | 0.062 U | 0.062 U |
| 7440-70-2 | CALCIUM | mg/kg | 4120 | 5070 | 3470 | 1440 | 629 |
| 7440-47-3 | CHROMIUM, TOTAL | mg/kg | 7.27 | 23.8 J | 10.23 J | 19.7 | 16.3 |
| 7440-48-4 | COBALT | mg/kg | 3.85 | 7.94 J | 4.45 J | 10.71 | 6.58 |
| 7440-50-8 | COPPER | mg/kg | 16.2 | 111 J | 53.4 J | 129 | 16.3 |
| 7439-89-6 | IRON | mg/kg | 7720 | 32600 J | 12700 J | 23300 | 12400 |
| 7439-92-1 | LEAD | mg/kg | 14.8 | 1240 J | 731 J | 39 | 21.4 |
| 7439-95-4 | MAGNESIUM | mg/kg | 1080 | 2670 J | 1150 J | 2630 | 1650 |
| 7439-96-5 | MANGANESE | mg/kg | 178 | 1050 | 680 | 554 | 521 |
| 7439-97-6 | MERCURY | mg/kg | 0.025 | 0.133 | 0.151 | 0.061 | 0.037 |
| 7440-02-0 | NICKEL | mg/kg | 11.3 | 24.8 | 15.1 | 21.8 | 16.8 |
| 7440-09-7 | POTASSIUM | mg/kg | 247 | 1780 J | 887 J | 2980 | 1170 |
| 7782-49-2 | SELENIUM | mg/kg | 0.588 J | 2.56 J | 1.21 J | 1.14 | 0.641 J |
| 7440-22-4 | SILVER | mg/kg | 0.166 U | 0.837 J | 0.325 J | 0.163 J | 0.155 J |
| 7440-23-5 | SODIUM | mg/kg | 164 | 2230 J | 1020 J | 234 | 672 |
| 7440-28-0 | THALLIUM | mg/kg | 0.358 U | 0.442 U | 0.334 U | 0.279 U | 0.277 U |
| 7440-62-2 | VANADIUM | mg/kg | 7.37 | 19.4 J | 10.09 J | 27.6 | 18.1 |
| 7440-66-6 | ZINC | mg/kg | 24 | 537 J | 304 J | 156 | 35.2 |
| 57-12-5 | CYANIDE | mg/kg | 0.172 J | 0.125 J | 0.048 U | 0.038 U | 0.037 U |

| Consolidated Edison<br>Farrington Street Remedial Investigation<br>2015 Soil Analytical Data<br>SDG: F5197 | | Location ID:<br>Sample ID:<br>Lab Sample Id:<br>Depth:<br>Source:<br>SDG:<br>Matrix:<br>Sampled:<br>Validated: | SB-77<br>SB-77(7-9)-20141216<br>F5197-08<br>7 - 9 ft<br>CTECH<br>F5197<br>SOIL<br>12/16/2014 8:10<br>2/25/2015 | SB-77<br>SB-77(15-17)-20141216<br>F5197-09<br>15 - 17 ft<br>CTECH<br>F5197<br>SOIL<br>12/16/2014 8:30<br>2/25/2015 | FIELD QC<br>FB121514-20141215<br>F5197-10<br>-<br>CTECH<br>F5197<br>WATER<br>12/15/2014 11:40<br>2/25/2015 |
|---|---|---|---|---|---|
| CAS NO. | COMPOUND | UNITS: | | | ugL |
| | VOLATILES | | | | |
| 71-55-6 | 1,1,1-TRICHLOROETHANE | ug/kg | 0.76 U | 0.94 U | 0.4 U |
| 79-34-5 | 1,1,2,2-TETRACHLOROETHANE | ug/kg | 0.69 U | 0.86 U | 0.31 U |
| 76-13-1 | 1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE | ug/kg | 0.76 U | 0.94 U | 0.45 U |
| 79-00-5 | 1,1,2-TRICHLOROETHANE | ug/kg | 1.4 UJ | 1.7 UJ | 0.38 U |
| 75-34-3 | 1,1-DICHLOROETHANE | ug/kg | 0.76 U | 0.94 U | 0.36 U |
| 75-35-4 | 1,1-DICHLOROETHENE | ug/kg | 0.76 U | 0.94 U | 0.47 U |
| 87-61-6 | 1,2,3-TRICHLOROBENZENE | ug/kg | 0.76 UJ | 0.94 UJ | 0.2 U |
| 120-82-1 | 1,2,4-TRICHLOROBENZENE | ug/kg | 0.76 UJ | 0.94 UJ | 0.2 U |
| 96-12-8 | 1,2-DIBROMO-3-CHLOROPROPANE | ug/kg | 1.3 U | 1.6 U | 0.46 U |
| 106-93-4 | 1,2-DIBROMOETHANE | ug/kg | 0.76 U | 0.94 U | 0.41 U |
| 95-50-1 | 1,2-DICHLOROBENZENE | ug/kg | 0.76 U | 0.94 U | 0.45 U |
| 107-06-2 | 1,2-DICHLOROETHANE | ug/kg | 0.76 U | 0.94 U | 0.48 U |
| 78-87-5 | 1,2-DICHLOROPROPANE | ug/kg | 0.39 U | 0.49 U | 0.46 U |
| 541-73-1 | 1,3-DICHLOROBENZENE | ug/kg | 0.56 U | 0.69 U | 0.43 U |
| 106-46-7 | 1,4-DICHLOROBENZENE | ug/kg | 0.62 U | 0.77 U | 0.32 U |
| 123-91-1 | 1,4-DIOXANE (P-DIOXANE) | ug/kg | 150 U | 190 U | 50 U |
| 591-78-6 | 2-HEXANONE | ug/kg | 3.8 U | 4.7 U | 1.9 U |
| 67-64-1 | ACETONE | ug/kg | 25.3 J | 4.7 U | 0.5 U |
| 71-43-2 | BENZENE | ug/kg | 0.57 U | 0.71 U | 0.32 U |
| 74-97-5 | BROMOCHLOROMETHANE | ug/kg | 0.76 U | 0.94 U | 0.2 U |
| 75-27-4 | BROMODICHLOROMETHANE | ug/kg | 0.76 U | 0.94 U | 0.36 U |
| 75-25-2 | BROMOFORM | ug/kg | 1.1 U | 1.4 U | 0.47 U |
| 74-83-9 | BROMOMETHANE | ug/kg | 1.5 U | 1.9 U | 0.2 U |
| 75-15-0 | CARBON DISULFIDE | ug/kg | 0.76 U | 0.94 U | 0.2 U |
| 56-23-5 | CARBON TETRACHLORIDE | ug/kg | 0.76 U | 0.94 U | 0.2 U |
| 108-90-7 | CHLOROBENZENE | ug/kg | 0.76 U | 0.94 U | 0.49 U |
| 75-00-3 | CHLOROETHANE | ug/kg | 0.76 UJ | 0.94 UJ | 0.2 U |
| 67-66-3 | CHLOROFORM | ug/kg | 0.76 U | 0.94 U | 0.34 U |
| 74-87-3 | CHLOROMETHANE | ug/kg | 0.76 U | 0.94 U | 0.2 U |
| 156-59-2 | CIS-1,2-DICHLOROETHYLENE | ug/kg | 0.76 U | 0.94 U | 0.35 U |
| 10061-01-5 | CIS-1,3-DICHLOROPROPENE | ug/kg | 0.76 U | 0.94 U | 0.31 U |
| 110-82-7 | CYCLOHEXANE | ug/kg | 0.76 U | 0.94 U | 0.2 U |
| 124-48-1 | DIBROMOCHLOROMETHANE | ug/kg | 0.76 U | 0.94 U | 0.2 U |
| 75-71-8 | DICHLORODIFLUOROMETHANE | ug/kg | 0.76 U | 0.94 U | 0.2 U |
| 100-41-4 | ETHYLBENZENE | ug/kg | 0.76 U | 0.94 U | 0.2 U |
| 98-82-8 | ISOPROPYLBENZENE (CUMENE) | ug/kg | 0.73 U | 0.9 U | 0.45 U |
| XYLMP | M,P-XYLENE (SUM OF ISOMERS) | ug/kg | 1.1 U | 1.3 U | 0.95 U |
| 79-20-9 | METHYL ACETATE | ug/kg | 1.5 U | 1.9 U | 0.2 U |
| 78-93-3 | METHYL ETHYL KETONE | ug/kg | 4.7 U | 5.8 U | 1.3 U |
| 108-10-1 | METHYL ISOBUTYL KETONE | ug/kg | 3.8 U | 4.7 U | 2.1 U |
| 108-87-2 | METHYLCYCLOHEXANE | ug/kg | 0.76 U | 0.94 U | 0.2 U |
| 75-09-2 | METHYLENE CHLORIDE | ug/kg | 3.3 J | 4.3 J | 0.41 U |
| 95-47-6 | O-XYLENE (1,2-DIMETHYLBENZENE) | ug/kg | 0.76 U | 0.94 U | 0.43 U |
| 100-42-5 | STYRENE | ug/kg | 0.68 U | 0.84 U | 0.36 U |
| 1634-04-4 | TERT-BUTYL METHYL ETHER | ug/kg | 0.76 U | 0.94 U | 0.35 U |
| 127-18-4 | TETRACHLOROETHYLENE(PCE) | ug/kg | 0.76 U | 0.94 U | 0.27 U |
| 108-88-3 | TOLUENE | ug/kg | 0.76 U | 0.94 U | 0.37 U |
| 156-60-5 | TRANS-1,2-DICHLOROETHENE | ug/kg | 0.76 U | 0.94 U | 0.41 U |
| 10061-02-6 | TRANS-1,3-DICHLOROPROPENE | ug/kg | 0.76 U | 0.94 U | 0.29 U |
| 79-01-6 | TRICHLOROETHYLENE (TCE) | ug/kg | 0.76 U | 0.94 U | 0.28 U |
| 75-69-4 | TRICHLOROFLUOROMETHANE | ug/kg | 0.76 U | 0.94 U | 0.35 U |
| 75-01-4 | VINYL CHLORIDE | ug/kg | 0.76 U | 0.94 U | 0.34 U |

| Consolidated Edison<br>Farrington Street Remedial Investigation<br>2015 Soil Analytical Data<br>SDG: F5197 | | Location ID:<br>Sample ID:<br>Lab Sample Id:<br>Depth:<br>Source:<br>SDG:<br>Matrix:<br>Sampled:<br>Validated: | SB-77<br>SB-77(7-9)-20141216<br>F5197-08<br>7 - 9 ft<br>CTECH<br>F5197<br>SOIL<br>12/16/2014 8:10<br>2/25/2015 | SB-77<br>SB-77(15-17)-20141216<br>F5197-09<br>15 - 17 ft<br>CTECH<br>F5197<br>SOIL<br>12/16/2014 8:30<br>2/25/2015 | FIELD QC<br>FB121514-20141215<br>F5197-10<br>-<br>CTECH<br>F5197<br>WATER<br>12/15/2014 11:40<br>2/25/2015 |
|---|---|---|---|---|---|
| CAS NO. | COMPOUND | UNITS: | | | ugL |
| | SEMIVOLATILES | | | | |
| 95-94-3 | 1,2,4,5-TETRACHLOROBENZENE | ug/kg | 19.8 U | 24.5 U | 0.2 U |
| 58-90-2 | 2,3,4,6-TETRACHLOROPHENOL | ug/kg | 19.8 U | 24.5 U | 0.2 U |
| 95-95-4 | 2,4,5-TRICHLOROPHENOL | ug/kg | 35.3 U | 43.7 U | 0.4 U |
| 88-06-2 | 2,4,6-TRICHLOROPHENOL | ug/kg | 15.4 U | 19.1 U | 0.57 U |
| 120-83-2 | 2,4-DICHLOROPHENOL | ug/kg | 19.2 U | 23.7 U | 0.67 U |
| 105-67-9 | 2,4-DIMETHYLPHENOL | ug/kg | 28.5 U | 35.3 U | 0.72 U |
| 51-28-5 | 2,4-DINITROPHENOL | ug/kg | 51.2 U | 63.3 U | 2.1 U |
| 121-14-2 | 2,4-DINITROTOLUENE | ug/kg | 15.1 U | 18.7 U | 1 U |
| 606-20-2 | 2,6-DINITROTOLUENE | ug/kg | 20.5 U | 25.4 U | 0.32 U |
| 91-58-7 | 2-CHLORONAPHTHALENE | ug/kg | 11.5 U | 14.2 U | 0.16 U |
| 95-57-8 | 2-CHLOROPHENOL | ug/kg | 26.6 U | 32.9 U | 0.55 U |
| 91-57-6 | 2-METHYLNAPHTHALENE | ug/kg | 12.7 U | 15.7 U | 0.32 U |
| 95-48-7 | 2-METHYLPHENOL (O-CRESOL) | ug/kg | 27.3 U | 33.8 U | 0.24 U |
| 88-74-4 | 2-NITROANILINE | ug/kg | 22.3 U | 27.6 U | 0.49 U |
| 88-75-5 | 2-NITROPHENOL | ug/kg | 24.3 U | 30.1 U | 0.53 U |
| MEPH3MEPH4 | 3- AND 4- METHYLPHENOL (TOTAL) | ug/kg | 26.1 U | 32.3 U | 0.38 U |
| 91-94-1 | 3,3'-DICHLOROBENZIDINE | ug/kg | 32.3 U | 40 U | 1 U |
| 99-09-2 | 3-NITROANILINE | ug/kg | 32.3 U | 40 U | 1 U |
| 534-52-1 | 4,6-DINITRO-2-METHYLPHENOL | ug/kg | 28.8 U | 35.7 U | 0.75 U |
| 101-55-3 | 4-BROMOPHENYL PHENYL ETHER | ug/kg | 9.8 U | 12.1 U | 0.23 U |
| 59-50-7 | 4-CHLORO-3-METHYLPHENOL | ug/kg | 22.3 U | 27.6 U | 0.4 U |
| 106-47-8 | 4-CHLOROANILINE | ug/kg | 35.5 U | 43.9 U | 1 U |
| 7005-72-3 | 4-CHLOROPHENYL PHENYL ETHER | ug/kg | 27.3 U | 33.8 U | 0.21 U |
| 100-01-6 | 4-NITROANILINE | ug/kg | 65.5 U | 81.1 U | 1.4 U |
| 100-02-7 | 4-NITROPHENOL | ug/kg | 93.4 U | 120 U | 2 U |
| 83-32-9 | ACENAPHTHENE | ug/kg | 14.2 U | 17.6 U | 0.21 U |
| 208-96-8 | ACENAPHTHYLENE | ug/kg | 12.7 U | 15.7 U | 0.71 U |
| 98-86-2 | ACETOPHENONE | ug/kg | 15.4 U | 19.1 U | 2 J |
| 120-12-7 | ANTHRACENE | ug/kg | 10.3 U | 12.7 U | 0.16 U |
| 1912-24-9 | ATRAZINE | ug/kg | 26.6 U | 32.9 U | 0.4 U |
| 100-52-7 | BENZALDEHYDE | ug/kg | R | R | R |
| 56-55-3 | BENZO(A)ANTHRACENE | ug/kg | 24 U | 29.7 U | 0.16 U |
| 50-32-8 | BENZO(A)PYRENE | ug/kg | 10.9 U | 13.4 U | 0.14 U |
| 205-99-2 | BENZO(B)FLUORANTHENE | ug/kg | 16.5 U | 20.4 U | 0.29 U |
| 191-24-2 | BENZO(G,H,I)PERYLENE | ug/kg | 20.4 U | 25.2 U | 0.29 U |
| 207-08-9 | BENZO(K)FLUORANTHENE | ug/kg | 23.7 U | 29.3 U | 0.18 U |
| 85-68-7 | BENZYL BUTYL PHTHALATE | ug/kg | 24.2 U | 29.9 U | 0.19 U |
| 92-52-4 | BIPHENYL (DIPHENYL) | ug/kg | 19 U | 23.5 U | 0.15 U |
| 111-91-1 | BIS(2-CHLOROETHOXY) METHANE | ug/kg | 29 U | 35.9 U | 0.56 U |
| 111-44-4 | BIS(2-CHLOROETHYL) ETHER | ug/kg | 24.2 U | 29.9 U | 0.56 U |
| 108-60-1 | BIS(2-CHLOROISOPROPYL) ETHER | ug/kg | 20.8 U | 25.8 U | 0.17 U |
| 117-81-7 | BIS(2-ETHYLHEXYL) PHTHALATE | ug/kg | 17.8 U | 22 U | 0.16 U |
| 105-60-2 | CAPROLACTAM | ug/kg | 23.4 U | 28.9 U | 1 U |
| 86-74-8 | CARBAZOLE | ug/kg | 11 U | 13.6 U | 0.22 U |
| 218-01-9 | CHRYSENE | ug/kg | 22.8 U | 28.2 U | 0.18 U |
| 53-70-3 | DIBENZ(A,H)ANTHRACENE | ug/kg | 14.5 U | 17.9 U | 0.42 U |
| 132-64-9 | DIBENZOFURAN | ug/kg | 19.6 U | 24.3 U | 0.24 U |
| 84-66-2 | DIETHYL PHTHALATE | ug/kg | 7.8 U | 280 J | 0.38 U |
| 131-11-3 | DIMETHYL PHTHALATE | ug/kg | 140 J | 200 J | 0.22 U |
| 84-74-2 | DI-N-BUTYL PHTHALATE | ug/kg | 39.6 U | 48.9 U | 1 U |
| 117-84-0 | DI-N-OCTYLPHTHALATE | ug/kg | 5.7 U | 7.1 U | 0.52 U |
| 206-44-0 | FLUORANTHENE | ug/kg | 100 J | 12.5 U | 0.4 U |
| 86-73-7 | FLUORENE | ug/kg | 19 U | 23.5 U | 0.31 U |
| 118-74-1 | HEXACHLOROBENZENE | ug/kg | 20.5 U | 25.4 U | 0.18 U |
| 87-68-3 | HEXACHLOROBUTADIENE | ug/kg | 18.3 U | 22.6 U | 0.25 U |
| 77-47-4 | HEXACHLOROCYCLOPENTADIENE | ug/kg | 12.2 U | 15.1 U | 0.24 U |
| 67-72-1 | HEXACHLOROETHANE | ug/kg | 22.5 U | 27.8 U | 0.25 U |
| 193-39-5 | INDENO(1,2,3-C,D)PYRENE | ug/kg | 16.8 U | 20.7 U | 0.15 U |
| 78-59-1 | ISOPHORONE | ug/kg | 16.6 U | 20.5 U | 0.3 U |
| 91-20-3 | NAPHTHALENE | ug/kg | 17.4 U | 21.5 U | 0.12 U |
| 98-95-3 | NITROBENZENE | ug/kg | 19 U | 23.5 U | 0.69 U |
| 621-64-7 | N-NITROSODI-N-PROPYLAMINE | ug/kg | 25.4 U | 31.4 U | 0.2 U |
| 86-30-6 | N-NITROSODIPHENYLAMINE | ug/kg | 12.1 U | 14.9 U | 0.61 U |
| 87-86-5 | PENTACHLOROPHENOL | ug/kg | 34.4 U | 42.6 U | 1 U |
| 85-01-8 | PHENANTHRENE | ug/kg | 13.6 U | 16.8 U | 0.26 U |
| 108-95-2 | PHENOL | ug/kg | 180 J | 360 J | 0.21 U |
| 129-00-0 | PYRENE | ug/kg | 12.1 U | 14.9 U | 0.2 U |

| Consolidated Edison<br>Farrington Street Remedial Investigation<br>2015 Soil Analytical Data<br>SDG: F5197 | | Location ID:<br>Sample ID:<br>Lab Sample Id:<br>Depth:<br>Source:<br>SDG:<br>Matrix:<br>Sampled:<br>Validated: | SB-77<br>SB-77(7-9)-20141216<br>F5197-08<br>7 - 9 ft<br>CTECH<br>F5197<br>SOIL<br>12/16/2014 8:10<br>2/25/2015 | SB-77<br>SB-77(15-17)-20141216<br>F5197-09<br>15 - 17 ft<br>CTECH<br>F5197<br>SOIL<br>12/16/2014 8:30<br>2/25/2015 | FIELD QC<br>FB121514-20141215<br>F5197-10<br>-<br>CTECH<br>F5197<br>WATER<br>12/15/2014 11:40<br>2/25/2015 |
|---|---|---|---|---|---|
| CAS NO. | COMPOUND | UNITS: | | | ugL |
| | INORGANICS | | | | |
| 7429-90-5 | ALUMINUM | mg/kg | 7160 | 13500 | 11 J |
| 7440-36-0 | ANTIMONY | mg/kg | 1.21 J | 0.889 U | 6.25 U |
| 7440-38-2 | ARSENIC | mg/kg | 10.58 | 7.77 | 2.5 U |
| 7440-39-3 | BARIUM | mg/kg | 121 | 28.2 | 4 U |
| 7440-41-7 | BERYLLIUM | mg/kg | 0.488 | 0.887 | 0.7 U |
| 7440-43-9 | CADMIUM | mg/kg | 0.099 J | 0.095 U | 0.5 U |
| 7440-70-2 | CALCIUM | mg/kg | 4940 | 1600 | 52.3 J |
| 7440-47-3 | CHROMIUM, TOTAL | mg/kg | 36.9 | 28.6 | 1.1 U |
| 7440-48-4 | COBALT | mg/kg | 6.61 | 12.8 | 3.75 U |
| 7440-50-8 | COPPER | mg/kg | 119 | 8.88 | 2 U |
| 7439-89-6 | IRON | mg/kg | 17600 | 33700 | 12.5 U |
| 7439-92-1 | LEAD | mg/kg | 236 | 14.2 | 1.5 U |
| 7439-95-4 | MAGNESIUM | mg/kg | 2740 | 7370 | 32.5 U |
| 7439-96-5 | MANGANESE | mg/kg | 659 | 965 | 1.7 U |
| 7439-97-6 | MERCURY | mg/kg | 0.603 | 0.023 | 0.1 U |
| 7440-02-0 | NICKEL | mg/kg | 28.6 | 27.4 | 4.2 U |
| 7440-09-7 | POTASSIUM | mg/kg | 1610 | 4120 | 38.8 U |
| 7782-49-2 | SELENIUM | mg/kg | 1.49 | 1.75 | 4.8 U |
| 7440-22-4 | SILVER | mg/kg | 2.86 | 0.728 J | 1.25 U |
| 7440-23-5 | SODIUM | mg/kg | 1050 | 5210 | 86.5 J |
| 7440-28-0 | THALLIUM | mg/kg | 0.353 U | 0.428 U | 2.4 U |
| 7440-62-2 | VANADIUM | mg/kg | 219 | 36.4 | 5 U |
| 7440-66-6 | ZINC | mg/kg | 141 | 76.4 | 5 U |
| 57-12-5 | CYANIDE | mg/kg | 0.047 U | 0.062 U | 3 UJ |

# ATTACHMENT A-4

# VALIDATED LABORATORY DATA FOR 2015 SAMPLES

| Consolidated Edison<br>Farrington Street Remedial Investigation<br>2015 Soil Analytical Data G1159 | | Location ID:<br>Sample ID:<br>Lab Sample Id:<br>Depth:<br>Source:<br>SDG:<br>Matrix:<br>Sampled:<br>Validated: | MW-41<br>MW-41(12-14)-20150120<br>G1159-09<br>12 - 14 ft<br>CTECH<br>G1159<br>SOIL<br>1/20/2015 8:30<br>2/25/2015 | MW-41<br>MW-41(28-30)-20150120<br>G1159-10<br>28 - 30 ft<br>CTECH<br>G1159<br>SOIL<br>1/20/2015 11:00<br>2/25/2015 | SB-73<br>SB-73(14-16)-20150113<br>G1159-01<br>14 - 16 ft<br>CTECH<br>G1159<br>SOIL<br>1/13/2015 10:00<br>2/25/2015 | SB-73<br>SB-73(28-30)-20150113<br>G1159-02<br>28 - 30 ft<br>CTECH<br>G1159<br>SOIL<br>1/13/2015 12:00<br>2/25/2015 |
|---|---|---|---|---|---|---|
| CAS NO. | COMPOUND | UNITS: | | | | |
| | VOLATILES | | | | | |
| 71-55-6 | 1,1,1-TRICHLOROETHANE | ug/kg | 0.91 U | 0.89 U | 0.57 U | 0.58 U |
| 79-34-5 | 1,1,2,2-TETRACHLOROETHANE | ug/kg | 0.83 U | 0.82 U | 0.53 U | 0.53 U |
| 76-13-1 | 1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE | ug/kg | 0.91 U | 0.89 U | 0.57 U | 0.58 U |
| 79-00-5 | 1,1,2-TRICHLOROETHANE | ug/kg | 1.6 U | 1.6 U | 1 U | 1 U |
| 75-34-3 | 1,1-DICHLOROETHANE | ug/kg | 0.91 U | 0.89 U | 0.57 U | 0.58 U |
| 75-35-4 | 1,1-DICHLOROETHENE | ug/kg | 0.91 U | 0.89 U | 0.57 U | 0.58 U |
| 87-61-6 | 1,2,3-TRICHLOROBENZENE | ug/kg | 0.91 U | 0.89 U | 0.57 U | 0.58 U |
| 120-82-1 | 1,2,4-TRICHLOROBENZENE | ug/kg | 0.91 U | 0.89 U | 0.57 U | 0.58 U |
| 96-12-8 | 1,2-DIBROMO-3-CHLOROPROPANE | ug/kg | 1.6 U | 1.6 U | 0.99 U | 1 U |
| 106-93-4 | 1,2-DIBROMOETHANE | ug/kg | 0.91 U | 0.89 U | 0.57 U | 0.58 U |
| 95-50-1 | 1,2-DICHLOROBENZENE | ug/kg | 0.91 U | 0.89 U | 0.57 U | 0.58 U |
| 107-06-2 | 1,2-DICHLOROETHANE | ug/kg | 0.91 U | 0.89 U | 0.57 U | 0.58 U |
| 78-87-5 | 1,2-DICHLOROPROPANE | ug/kg | 0.47 U | 0.47 U | 0.3 U | 0.3 U |
| 541-73-1 | 1,3-DICHLOROBENZENE | ug/kg | 0.67 U | 0.66 U | 0.42 U | 0.43 U |
| 106-46-7 | 1,4-DICHLOROBENZENE | ug/kg | 0.74 U | 0.73 U | 0.47 U | 0.47 U |
| 123-91-1 | 1,4-DIOXANE (P-DIOXANE) | ug/kg | 180 U | 180 U | 110 U | 120 U |
| 591-78-6 | 2-HEXANONE | ug/kg | 4.5 U | 4.5 U | 2.9 U | 2.9 U |
| 67-64-1 | ACETONE | ug/kg | 140 | 4.5 U | 2.9 U | 2.9 U |
| 71-43-2 | BENZENE | ug/kg | 0.69 U | 0.68 U | 0.43 U | 0.44 U |
| 74-97-5 | BROMOCHLOROMETHANE | ug/kg | 0.91 U | 0.89 U | 0.57 U | 0.58 U |
| 75-27-4 | BROMODICHLOROMETHANE | ug/kg | 0.91 U | 0.89 U | 0.57 U | 0.58 U |
| 75-25-2 | BROMOFORM | ug/kg | 1.3 U | 1.3 U | 0.85 U | 0.86 U |
| 74-83-9 | BROMOMETHANE | ug/kg | 1.8 U | 1.8 U | 1.1 U | 1.2 U |
| 75-15-0 | CARBON DISULFIDE | ug/kg | 4.9 J | 5 J | 0.57 U | 6.3 |
| 56-23-5 | CARBON TETRACHLORIDE | ug/kg | 0.91 U | 0.89 U | 0.57 U | 0.58 U |
| 108-90-7 | CHLOROBENZENE | ug/kg | 0.91 U | 0.89 U | 0.57 U | 0.58 U |
| 75-00-3 | CHLOROETHANE | ug/kg | 0.91 U | 0.89 U | 0.57 U | 0.58 U |
| 67-66-3 | CHLOROFORM | ug/kg | 0.91 U | 0.89 U | 0.57 U | 0.58 U |
| 74-87-3 | CHLOROMETHANE | ug/kg | 0.91 U | 0.89 U | 0.57 U | 0.58 U |
| 156-59-2 | CIS-1,2-DICHLOROETHYLENE | ug/kg | 0.91 U | 0.89 U | 0.57 U | 0.58 U |
| 10061-01-5 | CIS-1,3-DICHLOROPROPENE | ug/kg | 0.91 U | 0.89 U | 0.57 U | 0.58 U |
| 110-82-7 | CYCLOHEXANE | ug/kg | 0.91 U | 0.89 U | 0.57 U | 0.58 U |
| 124-48-1 | DIBROMOCHLOROMETHANE | ug/kg | 0.91 U | 0.89 U | 0.57 U | 0.58 U |
| 75-71-8 | DICHLORODIFLUOROMETHANE | ug/kg | 0.91 U | 0.89 U | 0.57 U | 0.58 U |
| 100-41-4 | ETHYLBENZENE | ug/kg | 0.91 U | 0.89 U | 0.57 U | 0.58 U |
| 98-82-8 | ISOPROPYLBENZENE (CUMENE) | ug/kg | 4 J | 0.86 U | 0.55 U | 0.55 U |
| XYLMP | M,P-XYLENE (SUM OF ISOMERS) | ug/kg | 1.3 U | 1.3 U | 0.82 U | 0.83 U |
| 79-20-9 | METHYL ACETATE | ug/kg | 1.8 U | 1.8 U | 1.1 U | 1.2 U |
| 78-93-3 | METHYL ETHYL KETONE | ug/kg | 33.2 J | 5.6 U | 3.6 U | 3.6 U |
| 108-10-1 | METHYL ISOBUTYL KETONE | ug/kg | 4.5 U | 4.5 U | 2.9 U | 2.9 U |
| 108-87-2 | METHYLCYCLOHEXANE | ug/kg | 0.91 U | 0.89 U | 0.57 U | 0.58 U |
| 75-09-2 | METHYLENE CHLORIDE | ug/kg | 10.9 | 8.9 U | 0.57 U | 3.2 J |
| 95-47-6 | O-XYLENE (1,2-DIMETHYLBENZENE) | ug/kg | 0.91 U | 0.89 U | 0.57 U | 0.58 U |
| 100-42-5 | STYRENE | ug/kg | 0.82 U | 0.81 U | 0.51 U | 0.52 U |
| 1634-04-4 | TERT-BUTYL METHYL ETHER | ug/kg | 0.91 U | 0.89 U | 0.57 U | 0.58 U |
| 127-18-4 | TETRACHLOROETHYLENE(PCE) | ug/kg | 0.91 U | 0.89 U | 0.57 U | 0.58 U |
| 108-88-3 | TOLUENE | ug/kg | 0.91 U | 0.89 U | 0.57 U | 0.58 U |
| 156-60-5 | TRANS-1,2-DICHLOROETHENE | ug/kg | 0.91 U | 0.89 U | 0.57 U | 0.58 U |
| 10061-02-6 | TRANS-1,3-DICHLOROPROPENE | ug/kg | 0.91 U | 0.89 U | 0.57 U | 0.58 U |
| 79-01-6 | TRICHLOROETHYLENE (TCE) | ug/kg | 0.91 U | 0.89 U | 0.57 U | 0.58 U |
| 75-69-4 | TRICHLOROFLUOROMETHANE | ug/kg | 0.91 U | 0.89 U | 0.57 U | 0.58 U |
| 75-01-4 | VINYL CHLORIDE | ug/kg | 0.91 U | 0.89 U | 0.57 U | 0.58 U |

| Consolidated Edison<br>Farrington Street Remedial Investigation<br>2015 Soil Analytical Data G1159 | | Location ID:<br>Sample ID:<br>Lab Sample Id:<br>Depth:<br>Source:<br>SDG:<br>Matrix:<br>Sampled:<br>Validated: | MW-41<br>MW-41(12-14)-20150120<br>G1159-09<br>12 - 14 ft<br>CTECH<br>G1159<br>SOIL<br>1/20/2015 8:30<br>2/25/2015 | MW-41<br>MW-41(28-30)-20150120<br>G1159-10<br>28 - 30 ft<br>CTECH<br>G1159<br>SOIL<br>1/20/2015 11:00<br>2/25/2015 | SB-73<br>SB-73(14-16)-20150113<br>G1159-01<br>14 - 16 ft<br>CTECH<br>G1159<br>SOIL<br>1/13/2015 10:00<br>2/25/2015 | SB-73<br>SB-73(28-30)-20150113<br>G1159-02<br>28 - 30 ft<br>CTECH<br>G1159<br>SOIL<br>1/13/2015 12:00<br>2/25/2015 |
|---|---|---|---|---|---|---|
| CAS NO. | COMPOUND | UNITS: | | | | |
| | SEMIVOLATILES | | | | | |
| 95-94-3 | 1,2,4,5-TETRACHLOROBENZENE | ug/kg | 23.7 U | 23.4 U | 14.9 U | 15.1 U |
| 58-90-2 | 2,3,4,6-TETRACHLOROPHENOL | ug/kg | 23.7 U | 23.4 U | 14.9 U | 15.1 U |
| 95-95-4 | 2,4,5-TRICHLOROPHENOL | ug/kg | 42.3 U | 41.8 U | 26.7 U | 27 U |
| 88-06-2 | 2,4,6-TRICHLOROPHENOL | ug/kg | 18.4 U | 18.2 U | 11.6 U | 11.7 U |
| 120-83-2 | 2,4-DICHLOROPHENOL | ug/kg | 22.9 U | 22.7 U | 14.5 U | 14.6 U |
| 105-67-9 | 2,4-DIMETHYLPHENOL | ug/kg | 34.1 U | 33.8 U | 21.6 U | 21.8 U |
| 51-28-5 | 2,4-DINITROPHENOL | ug/kg | 61.2 UJ | 60.6 U | 38.7 U | 39 U |
| 121-14-2 | 2,4-DINITROTOLUENE | ug/kg | 18.1 U | 17.9 U | 11.4 U | 11.5 U |
| 606-20-2 | 2,6-DINITROTOLUENE | ug/kg | 24.6 U | 24.3 U | 15.5 U | 15.7 U |
| 91-58-7 | 2-CHLORONAPHTHALENE | ug/kg | 13.7 U | 13.6 U | 8.7 U | 8.8 U |
| 95-57-8 | 2-CHLOROPHENOL | ug/kg | 31.8 U | 31.5 U | 20.1 U | 20.3 U |
| 91-57-6 | 2-METHYLNAPHTHALENE | ug/kg | 15.2 U | 15 U | 9.6 U | 9.7 U |
| 95-48-7 | 2-METHYLPHENOL (O-CRESOL) | ug/kg | 32.7 U | 32.3 U | 20.7 U | 20.8 U |
| 88-74-4 | 2-NITROANILINE | ug/kg | 26.7 U | 26.4 U | 16.9 U | 17 U |
| 88-75-5 | 2-NITROPHENOL | ug/kg | 29.1 U | 28.8 U | 18.4 U | 18.5 U |
| MEPH3MEPH4 | 3- AND 4- METHYLPHENOL (TOTAL) | ug/kg | 31.2 U | 30.9 U | 19.7 U | 19.9 U |
| 91-94-1 | 3,3'-DICHLOROBENZIDINE | ug/kg | 38.7 U | 38.2 U | 24.4 U | 24.6 U |
| 99-09-2 | 3-NITROANILINE | ug/kg | 38.7 U | 38.2 U | 24.4 U | 24.6 U |
| 534-52-1 | 4,6-DINITRO-2-METHYLPHENOL | ug/kg | 34.5 UJ | 34.1 U | 21.8 U | 22 U |
| 101-55-3 | 4-BROMOPHENYL PHENYL ETHER | ug/kg | 11.7 U | 11.6 U | 7.4 U | 7.5 U |
| 59-50-7 | 4-CHLORO-3-METHYLPHENOL | ug/kg | 26.7 U | 26.4 U | 16.9 U | 17 U |
| 106-47-8 | 4-CHLOROANILINE | ug/kg | 42.4 U | 42 U | 26.8 U | 27.1 U |
| 7005-72-3 | 4-CHLOROPHENYL PHENYL ETHER | ug/kg | 32.7 U | 32.3 U | 20.7 U | 20.8 U |
| 100-01-6 | 4-NITROANILINE | ug/kg | 78.4 U | 77.6 U | 49.5 U | 50 U |
| 100-02-7 | 4-NITROPHENOL | ug/kg | 110 U | 110 U | 70.6 U | 71.3 U |
| 83-32-9 | ACENAPHTHENE | ug/kg | 17 U | 16.8 U | 10.7 U | 10.8 U |
| 208-96-8 | ACENAPHTHYLENE | ug/kg | 15.2 U | 15 U | 9.6 U | 9.7 U |
| 98-86-2 | ACETOPHENONE | ug/kg | 18.4 U | 18.2 U | 11.6 U | 11.7 U |
| 120-12-7 | ANTHRACENE | ug/kg | 12.3 U | 12.2 U | 7.8 U | 7.8 U |
| 1912-24-9 | ATRAZINE | ug/kg | 31.8 U | 31.5 U | 20.1 U | 20.3 U |
| 100-52-7 | BENZALDEHYDE | ug/kg | 31.4 U | 31.1 U | 19.9 U | 20 U |
| 56-55-3 | BENZO(A)ANTHRACENE | ug/kg | 28.7 U | 28.4 U | 18.1 U | 18.3 U |
| 50-32-8 | BENZO(A)PYRENE | ug/kg | 13 U | 12.9 U | 8.2 U | 8.3 U |
| 205-99-2 | BENZO(B)FLUORANTHENE | ug/kg | 19.7 U | 19.5 U | 83.3 J | 12.6 U |
| 191-24-2 | BENZO(G,H,I)PERYLENE | ug/kg | 24.4 U | 24.1 U | 15.4 U | 15.6 U |
| 207-08-9 | BENZO(K)FLUORANTHENE | ug/kg | 28.4 U | 28.1 U | 17.9 U | 18.1 U |
| 85-68-7 | BENZYL BUTYL PHTHALATE | ug/kg | 28.9 U | 28.6 U | 18.3 U | 18.4 U |
| 92-52-4 | BIPHENYL (DIPHENYL) | ug/kg | 22.8 U | 22.5 U | 14.4 U | 14.5 U |
| 111-91-1 | BIS(2-CHLOROETHOXY) METHANE | ug/kg | 34.7 U | 34.3 U | 21.9 U | 22.1 U |
| 111-44-4 | BIS(2-CHLOROETHYL) ETHER | ug/kg | 28.9 U | 28.6 U | 18.3 U | 18.4 U |
| 108-60-1 | BIS(2-CHLOROISOPROPYL) ETHER | ug/kg | 24.9 U | 24.7 U | 15.7 U | 15.9 U |
| 117-81-7 | BIS(2-ETHYLHEXYL) PHTHALATE | ug/kg | 21.3 U | 21.1 U | 13.5 U | 13.6 U |
| 105-60-2 | CAPROLACTAM | ug/kg | 28 U | 27.7 U | 17.7 U | 17.9 U |
| 86-74-8 | CARBAZOLE | ug/kg | 13.2 U | 13 U | 8.3 U | 8.4 U |
| 218-01-9 | CHRYSENE | ug/kg | 27.3 U | 27 U | 17.2 U | 17.4 U |
| 53-70-3 | DIBENZ(A,H)ANTHRACENE | ug/kg | 17.3 U | 17.2 U | 11 U | 11.1 U |
| 132-64-9 | DIBENZOFURAN | ug/kg | 23.5 U | 23.2 U | 14.8 U | 15 U |
| 84-66-2 | DIETHYL PHTHALATE | ug/kg | 9.4 U | 9.3 U | 5.9 U | 6 U |
| 131-11-3 | DIMETHYL PHTHALATE | ug/kg | 180 J | 150 J | 110 J | 140 J |
| 84-74-2 | DI-N-BUTYL PHTHALATE | ug/kg | 47.3 U | 46.8 U | 29.9 U | 30.2 U |
| 117-84-0 | DI-N-OCTYLPHTHALATE | ug/kg | 6.9 U | 6.8 U | 4.3 U | 4.4 U |
| 206-44-0 | FLUORANTHENE | ug/kg | 190 J | 12 U | 140 J | 7.7 U |
| 86-73-7 | FLUORENE | ug/kg | 22.8 U | 22.5 U | 14.4 U | 14.5 U |
| 118-74-1 | HEXACHLOROBENZENE | ug/kg | 24.6 U | 24.3 U | 15.5 U | 15.7 U |
| 87-68-3 | HEXACHLOROBUTADIENE | ug/kg | 21.9 U | 21.6 U | 13.8 U | 13.9 U |
| 77-47-4 | HEXACHLOROCYCLOPENTADIENE | ug/kg | 14.6 UJ | 14.5 U | 9.2 U | 9.3 U |
| 67-72-1 | HEXACHLOROETHANE | ug/kg | 26.9 U | 26.6 U | 17 U | 17.2 U |
| 193-39-5 | INDENO(1,2,3-C,D)PYRENE | ug/kg | 20 U | 19.8 U | 12.7 U | 12.8 U |
| 78-59-1 | ISOPHORONE | ug/kg | 19.9 U | 19.7 U | 12.6 U | 12.7 U |
| 91-20-3 | NAPHTHALENE | ug/kg | 20.8 U | 20.6 U | 13.1 U | 13.2 U |
| 98-95-3 | NITROBENZENE | ug/kg | 22.8 U | 22.5 U | 14.4 U | 14.5 U |
| 621-64-7 | N-NITROSODI-N-PROPYLAMINE | ug/kg | 30.3 U | 30 U | 19.2 U | 19.4 U |
| 86-30-6 | N-NITROSODIPHENYLAMINE | ug/kg | 14.4 U | 14.3 U | 9.1 U | 9.2 U |
| 87-86-5 | PENTACHLOROPHENOL | ug/kg | 41.2 UJ | 40.7 UJ | 26 UJ | 26.3 UJ |
| 85-01-8 | PHENANTHRENE | ug/kg | 16.3 U | 16.1 U | 10.3 U | 10.4 U |
| 108-95-2 | PHENOL | ug/kg | 160 J | 190 J | 150 J | 190 J |
| 129-00-0 | PYRENE | ug/kg | 150 J | 14.3 U | 120 J | 9.2 U |

| Consolidated Edison<br>Farrington Street Remedial Investigation<br>2015 Soil Analytical Data G1159 | | Location ID:<br>Sample ID:<br>Lab Sample Id:<br>Depth:<br>Source:<br>SDG:<br>Matrix:<br>Sampled:<br>Validated: | MW-41<br>MW-41(12-14)-20150120<br>G1159-09<br>12 - 14 ft<br>CTECH<br>G1159<br>SOIL<br>1/20/2015 8:30<br>2/25/2015 | MW-41<br>MW-41(28-30)-20150120<br>G1159-10<br>28 - 30 ft<br>CTECH<br>G1159<br>SOIL<br>1/20/2015 11:00<br>2/25/2015 | SB-73<br>SB-73(14-16)-20150113<br>G1159-01<br>14 - 16 ft<br>CTECH<br>G1159<br>SOIL<br>1/13/2015 10:00<br>2/25/2015 | SB-73<br>SB-73(28-30)-20150113<br>G1159-02<br>28 - 30 ft<br>CTECH<br>G1159<br>SOIL<br>1/13/2015 12:00<br>2/25/2015 |
|---|---|---|---|---|---|---|
| CAS NO. | COMPOUND | UNITS: | | | | |
| | INORGANICS | | | | | |
| 7429-90-5 | ALUMINUM | mg/kg | 7170 | 13900 | 5530 | 5420 |
| 7440-36-0 | ANTIMONY | mg/kg | 0.828 U | 0.838 U | 0.536 U | 0.538 U |
| 7440-38-2 | ARSENIC | mg/kg | 5.95 | 9.63 | 2.61 | 1.99 |
| 7440-39-3 | BARIUM | mg/kg | 69.4 | 31.7 | 37.3 | 37.8 |
| 7440-41-7 | BERYLLIUM | mg/kg | 0.483 | 1.03 | 0.395 | 0.475 |
| 7440-43-9 | CADMIUM | mg/kg | 0.089 U | 0.09 U | 0.057 U | 0.058 U |
| 7440-70-2 | CALCIUM | mg/kg | 5860 | 2510 | 2950 | 2450 |
| 7440-47-3 | CHROMIUM, TOTAL | mg/kg | 25.9 | 36 | 14.7 | 23.6 |
| 7440-48-4 | COBALT | mg/kg | 5.32 | 12.8 | 8.24 | 9.58 |
| 7440-50-8 | COPPER | mg/kg | 44.9 J+ | 10.1 J+ | 41.1 J+ | 13.7 J+ |
| 7439-89-6 | IRON | mg/kg | 14600 | 36400 | 15400 | 17200 |
| 7439-92-1 | LEAD | mg/kg | 383 | 20.4 | 23.5 | 4.65 |
| 7439-95-4 | MAGNESIUM | mg/kg | 3160 | 7710 | 2580 | 3050 |
| 7439-96-5 | MANGANESE | mg/kg | 183 J+ | 560 J+ | 171 J+ | 1550 J+ |
| 7439-97-6 | MERCURY | mg/kg | 0.093 | 0.02 | 0.106 | 0.005 J |
| 7440-02-0 | NICKEL | mg/kg | 16.3 | 29.1 | 29.3 | 29.9 |
| 7440-09-7 | POTASSIUM | mg/kg | 1390 | 3660 | 1180 | 1560 |
| 7782-49-2 | SELENIUM | mg/kg | 0.704 J | 0.802 J | 0.577 J | 0.707 J |
| 7440-22-4 | SILVER | mg/kg | 0.185 U | 0.187 U | 0.12 U | 0.12 U |
| 7440-23-5 | SODIUM | mg/kg | 3100 | 5600 | 238 | 1150 |
| 7440-28-0 | THALLIUM | mg/kg | 0.399 U | 0.404 U | 0.258 U | 0.26 U |
| 7440-62-2 | VANADIUM | mg/kg | 30.3 | 38.8 | 17.7 | 25.7 |
| 7440-66-6 | ZINC | mg/kg | 176 | 84.9 | 48.4 | 34.4 |
| 57-12-5 | CYANIDE | mg/kg | 0.128 J | 0.058 U | 0.037 U | 0.036 U |

| Consolidated Edison<br>Farrington Street Remedial Investigation<br>2015 Soil Analytical Data G1159 | | Location ID:<br>Sample ID:<br>Lab Sample Id:<br>Depth:<br>Source:<br>SDG:<br>Matrix:<br>Sampled:<br>Validated: | SB-84<br>SB-84(7-9)-20150114<br>G1159-03<br>7 - 9 ft<br>CTECH<br>G1159<br>SOIL<br>1/14/2015 9:35<br>2/25/2015 | SB-84<br>SB-84(17-19)-20150114<br>G1159-04<br>17 - 19 ft<br>CTECH<br>G1159<br>SOIL<br>1/14/2015 10:50<br>2/25/2015 | SB-85<br>SB-85(7-9)-20150115<br>G1159-07<br>7 - 9 ft<br>CTECH<br>G1159<br>SOIL<br>1/15/2015 9:10<br>2/25/2015 | SB-85<br>SB-85(29-31)-20150115<br>G1159-08<br>29 - 31 ft<br>CTECH<br>G1159<br>SOIL<br>1/15/2015 11:30<br>2/25/2015 |
|---|---|---|---|---|---|---|
| CAS NO. | COMPOUND | UNITS: | | | | |
| | VOLATILES | | | | | |
| 71-55-6 | 1,1,1-TRICHLOROETHANE | ug/kg | 0.59 U | 0.71 U | 0.82 U | 0.86 U |
| 79-34-5 | 1,1,2,2-TETRACHLOROETHANE | ug/kg | 0.54 U | 0.66 U | 0.76 U | 0.79 U |
| 76-13-1 | 1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE | ug/kg | 0.59 U | 0.71 U | 0.82 U | 0.86 U |
| 79-00-5 | 1,1,2-TRICHLOROETHANE | ug/kg | 1.1 U | 1.3 U | 1.5 U | 1.5 U |
| 75-34-3 | 1,1-DICHLOROETHANE | ug/kg | 0.59 U | 0.71 U | 0.82 U | 0.86 U |
| 75-35-4 | 1,1-DICHLOROETHENE | ug/kg | 0.59 U | 0.71 U | 0.82 U | 0.86 U |
| 87-61-6 | 1,2,3-TRICHLOROBENZENE | ug/kg | 0.59 U | 0.71 U | 0.82 U | 0.86 U |
| 120-82-1 | 1,2,4-TRICHLOROBENZENE | ug/kg | 0.59 U | 0.71 U | 0.82 U | 0.86 U |
| 96-12-8 | 1,2-DIBROMO-3-CHLOROPROPANE | ug/kg | 1 U | 1.2 U | 1.4 U | 1.5 U |
| 106-93-4 | 1,2-DIBROMOETHANE | ug/kg | 0.59 U | 0.71 U | 0.82 U | 0.86 U |
| 95-50-1 | 1,2-DICHLOROBENZENE | ug/kg | 0.59 U | 0.71 U | 0.82 U | 0.86 U |
| 107-06-2 | 1,2-DICHLOROETHANE | ug/kg | 0.59 U | 0.71 U | 0.82 U | 0.86 U |
| 78-87-5 | 1,2-DICHLOROPROPANE | ug/kg | 0.31 U | 0.37 U | 0.43 U | 0.45 U |
| 541-73-1 | 1,3-DICHLOROBENZENE | ug/kg | 0.44 U | 0.53 U | 0.61 U | 0.64 U |
| 106-46-7 | 1,4-DICHLOROBENZENE | ug/kg | 0.48 U | 0.58 U | 0.67 U | 0.71 U |
| 123-91-1 | 1,4-DIOXANE (P-DIOXANE) | ug/kg | 120 U | 140 U | 160 U | 170 U |
| 591-78-6 | 2-HEXANONE | ug/kg | 3 U | 11.6 J | 4.1 U | 4.3 U |
| 67-64-1 | ACETONE | ug/kg | 3 U | 3.6 U | 450 | 4.3 U |
| 71-43-2 | BENZENE | ug/kg | 0.45 U | 0.54 U | 0.63 U | 0.65 U |
| 74-97-5 | BROMOCHLOROMETHANE | ug/kg | 0.59 U | 0.71 U | 0.82 U | 0.86 U |
| 75-27-4 | BROMODICHLOROMETHANE | ug/kg | 0.59 U | 0.71 U | 0.82 U | 0.86 U |
| 75-25-2 | BROMOFORM | ug/kg | 0.87 U | 1.1 U | 1.2 U | 1.3 U |
| 74-83-9 | BROMOMETHANE | ug/kg | 1.2 U | 1.4 U | 1.6 U | 1.7 U |
| 75-15-0 | CARBON DISULFIDE | ug/kg | 1.6 J | 0.71 U | 0.82 U | 7.7 J |
| 56-23-5 | CARBON TETRACHLORIDE | ug/kg | 0.59 U | 0.71 U | 0.82 U | 0.86 U |
| 108-90-7 | CHLOROBENZENE | ug/kg | 0.59 U | 0.71 U | 0.82 U | 0.86 U |
| 75-00-3 | CHLOROETHANE | ug/kg | 0.59 U | 0.71 U | 0.82 U | 0.86 U |
| 67-66-3 | CHLOROFORM | ug/kg | 0.59 U | 0.71 U | 0.82 U | 0.86 U |
| 74-87-3 | CHLOROMETHANE | ug/kg | 0.59 U | 0.71 U | 0.82 U | 0.86 U |
| 156-59-2 | CIS-1,2-DICHLOROETHYLENE | ug/kg | 0.59 U | 0.71 U | 0.82 U | 0.86 U |
| 10061-01-5 | CIS-1,3-DICHLOROPROPENE | ug/kg | 0.59 U | 0.71 U | 0.82 U | 0.86 U |
| 110-82-7 | CYCLOHEXANE | ug/kg | 0.59 U | 0.71 U | 0.82 U | 0.86 U |
| 124-48-1 | DIBROMOCHLOROMETHANE | ug/kg | 0.59 U | 0.71 U | 0.82 U | 0.86 U |
| 75-71-8 | DICHLORODIFLUOROMETHANE | ug/kg | 0.59 U | 0.71 U | 0.82 U | 0.86 U |
| 100-41-4 | ETHYLBENZENE | ug/kg | 0.59 U | 0.71 U | 0.82 U | 0.86 U |
| 98-82-8 | ISOPROPYLBENZENE (CUMENE) | ug/kg | 0.57 U | 0.68 U | 0.79 U | 0.83 U |
| XYLMP | M,P-XYLENE (SUM OF ISOMERS) | ug/kg | 0.85 U | 1 U | 1.2 U | 1.2 U |
| 79-20-9 | METHYL ACETATE | ug/kg | 1.2 U | 1.4 U | 1.6 U | 1.7 U |
| 78-93-3 | METHYL ETHYL KETONE | ug/kg | 3.7 U | 4.4 U | 96.6 | 5.4 U |
| 108-10-1 | METHYL ISOBUTYL KETONE | ug/kg | 3 U | 3.6 U | 4.1 U | 4.3 U |
| 108-87-2 | METHYLCYCLOHEXANE | ug/kg | 0.59 U | 0.71 U | 0.82 U | 0.86 U |
| 75-09-2 | METHYLENE CHLORIDE | ug/kg | 3.3 J | 7.1 U | 8.2 U | 4.1 J |
| 95-47-6 | O-XYLENE (1,2-DIMETHYLBENZENE) | ug/kg | 0.59 U | 0.71 U | 0.82 U | 0.86 U |
| 100-42-5 | STYRENE | ug/kg | 0.53 U | 0.64 U | 0.74 U | 0.77 U |
| 1634-04-4 | TERT-BUTYL METHYL ETHER | ug/kg | 0.59 U | 0.71 U | 0.82 U | 0.86 U |
| 127-18-4 | TETRACHLOROETHYLENE(PCE) | ug/kg | 0.59 U | 0.71 U | 0.82 U | 0.86 U |
| 108-88-3 | TOLUENE | ug/kg | 0.59 U | 0.71 U | 0.82 U | 0.86 U |
| 156-60-5 | TRANS-1,2-DICHLOROETHENE | ug/kg | 0.59 U | 0.71 U | 0.82 U | 0.86 U |
| 10061-02-6 | TRANS-1,3-DICHLOROPROPENE | ug/kg | 0.59 U | 0.71 U | 0.82 U | 0.86 U |
| 79-01-6 | TRICHLOROETHYLENE (TCE) | ug/kg | 0.59 U | 0.71 U | 0.82 U | 0.86 U |
| 75-69-4 | TRICHLOROFLUOROMETHANE | ug/kg | 0.59 U | 0.71 U | 0.82 U | 0.86 U |
| 75-01-4 | VINYL CHLORIDE | ug/kg | 0.59 U | 0.71 U | 0.82 U | 0.86 U |

| Consolidated Edison<br>Farrington Street Remedial Investigation<br>2015 Soil Analytical Data G1159 | | Location ID:<br>Sample ID:<br>Lab Sample Id:<br>Depth:<br>Source:<br>SDG:<br>Matrix:<br>Sampled:<br>Validated: | SB-84<br>SB-84(7-9)-20150114<br>G1159-03<br>7 - 9 ft<br>CTECH<br>G1159<br>SOIL<br>1/14/2015 9:35<br>2/25/2015 | SB-84<br>SB-84(17-19)-20150114<br>G1159-04<br>17 - 19 ft<br>CTECH<br>G1159<br>SOIL<br>1/14/2015 10:50<br>2/25/2015 | SB-85<br>SB-85(7-9)-20150115<br>G1159-07<br>7 - 9 ft<br>CTECH<br>G1159<br>SOIL<br>1/15/2015 9:10<br>2/25/2015 | SB-85<br>SB-85(29-31)-20150115<br>G1159-08<br>29 - 31 ft<br>CTECH<br>G1159<br>SOIL<br>1/15/2015 11:30<br>2/25/2015 |
|---|---|---|---|---|---|---|
| CAS NO. | COMPOUND | UNITS: | | | | |
| | SEMIVOLATILES | | | | | |
| 95-94-3 | 1,2,4,5-TETRACHLOROBENZENE | ug/kg | 15.4 U | 18.7 U | 21.5 U | 22.5 U |
| 58-90-2 | 2,3,4,6-TETRACHLOROPHENOL | ug/kg | 15.4 U | 18.7 U | 21.5 U | 22.5 U |
| 95-95-4 | 2,4,5-TRICHLOROPHENOL | ug/kg | 27.6 U | 33.3 U | 38.4 U | 40.2 U |
| 88-06-2 | 2,4,6-TRICHLOROPHENOL | ug/kg | 12 U | 14.5 U | 16.7 U | 17.5 U |
| 120-83-2 | 2,4-DICHLOROPHENOL | ug/kg | 15 U | 18.1 U | 20.8 U | 21.8 U |
| 105-67-9 | 2,4-DIMETHYLPHENOL | ug/kg | 22.3 U | 26.9 U | 31 U | 32.5 U |
| 51-28-5 | 2,4-DINITROPHENOL | ug/kg | 40 UJ | 48.3 UJ | 55.6 U | 58.2 U |
| 121-14-2 | 2,4-DINITROTOLUENE | ug/kg | 11.8 U | 14.2 U | 16.4 U | 17.2 U |
| 606-20-2 | 2,6-DINITROTOLUENE | ug/kg | 16 U | 19.4 U | 22.3 U | 23.4 U |
| 91-58-7 | 2-CHLORONAPHTHALENE | ug/kg | 9 U | 10.8 U | 12.5 U | 13 U |
| 95-57-8 | 2-CHLOROPHENOL | ug/kg | 20.7 U | 25.1 U | 28.9 U | 30.2 U |
| 91-57-6 | 2-METHYLNAPHTHALENE | ug/kg | 9.9 U | 12 U | 13.8 U | 14.4 U |
| 95-48-7 | 2-METHYLPHENOL (O-CRESOL) | ug/kg | 21.3 U | 25.8 U | 29.7 U | 31.1 U |
| 88-74-4 | 2-NITROANILINE | ug/kg | 17.4 U | 21.1 U | 24.3 U | 25.4 U |
| 88-75-5 | 2-NITROPHENOL | ug/kg | 19 U | 22.9 U | 26.4 U | 27.6 U |
| MEPH3MEPH4 | 3- AND 4- METHYLPHENOL (TOTAL) | ug/kg | 20.4 U | 24.6 U | 28.4 U | 29.7 U |
| 91-94-1 | 3,3'-DICHLOROBENZIDINE | ug/kg | 25.2 U | 30.5 U | 35.1 U | 36.7 U |
| 99-09-2 | 3-NITROANILINE | ug/kg | 25.2 U | 30.5 U | 35.1 U | 36.7 U |
| 534-52-1 | 4,6-DINITRO-2-METHYLPHENOL | ug/kg | 22.5 UJ | 27.2 UJ | 31.3 U | 32.8 U |
| 101-55-3 | 4-BROMOPHENYL PHENYL ETHER | ug/kg | 7.7 U | 9.3 U | 10.7 U | 11.2 U |
| 59-50-7 | 4-CHLORO-3-METHYLPHENOL | ug/kg | 17.4 U | 21.1 U | 24.3 U | 25.4 U |
| 106-47-8 | 4-CHLOROANILINE | ug/kg | 27.7 U | 33.5 U | 38.5 U | 40.4 U |
| 7005-72-3 | 4-CHLOROPHENYL PHENYL ETHER | ug/kg | 21.3 U | 25.8 U | 29.7 U | 31.1 U |
| 100-01-6 | 4-NITROANILINE | ug/kg | 51.2 U | 61.8 U | 71.2 U | 74.5 U |
| 100-02-7 | 4-NITROPHENOL | ug/kg | 73 U | 88.1 U | 100 U | 110 U |
| 83-32-9 | ACENAPHTHENE | ug/kg | 11.1 U | 160 J | 15.4 U | 16.1 U |
| 208-96-8 | ACENAPHTHYLENE | ug/kg | 9.9 U | 12 U | 13.8 U | 14.4 U |
| 98-86-2 | ACETOPHENONE | ug/kg | 12 U | 14.5 U | 16.7 U | 17.5 U |
| 120-12-7 | ANTHRACENE | ug/kg | 8 U | 180 J | 11.2 U | 11.7 U |
| 1912-24-9 | ATRAZINE | ug/kg | 20.7 U | 25.1 U | 28.9 U | 30.2 U |
| 100-52-7 | BENZALDEHYDE | ug/kg | 20.5 U | 24.8 U | 28.5 U | 29.9 U |
| 56-55-3 | BENZO(A)ANTHRACENE | ug/kg | 180 J | 460 J | 26.1 U | 27.3 U |
| 50-32-8 | BENZO(A)PYRENE | ug/kg | 140 J | 480 | 11.8 U | 12.4 U |
| 205-99-2 | BENZO(B)FLUORANTHENE | ug/kg | 160 J | 550 | 17.9 U | 18.7 U |
| 191-24-2 | BENZO(G,H,I)PERYLENE | ug/kg | 15.9 U | 310 J | 22.1 U | 23.2 U |
| 207-08-9 | BENZO(K)FLUORANTHENE | ug/kg | 18.5 U | 230 J | 25.8 U | 27 U |
| 85-68-7 | BENZYL BUTYL PHTHALATE | ug/kg | 18.9 U | 22.8 U | 26.2 U | 27.5 U |
| 92-52-4 | BIPHENYL (DIPHENYL) | ug/kg | 14.9 U | 17.9 U | 20.7 U | 21.6 U |
| 111-91-1 | BIS(2-CHLOROETHOXY) METHANE | ug/kg | 22.6 U | 27.3 U | 31.5 U | 33 U |
| 111-44-4 | BIS(2-CHLOROETHYL) ETHER | ug/kg | 18.9 U | 22.8 U | 26.2 U | 27.5 U |
| 108-60-1 | BIS(2-CHLOROISOPROPYL) ETHER | ug/kg | 16.3 U | 19.6 U | 22.6 U | 23.7 U |
| 117-81-7 | BIS(2-ETHYLHEXYL) PHTHALATE | ug/kg | 13.9 U | 16.8 U | 19.4 U | 20.3 U |
| 105-60-2 | CAPROLACTAM | ug/kg | 18.3 U | 22.1 U | 25.4 U | 26.6 U |
| 86-74-8 | CARBAZOLE | ug/kg | 8.6 U | 110 J | 12 U | 12.5 U |
| 218-01-9 | CHRYSENE | ug/kg | 150 J | 410 J | 24.8 U | 25.9 U |
| 53-70-3 | DIBENZ(A,H)ANTHRACENE | ug/kg | 11.3 U | 13.7 U | 15.7 U | 16.5 U |
| 132-64-9 | DIBENZOFURAN | ug/kg | 15.3 U | 18.5 U | 21.3 U | 22.3 U |
| 84-66-2 | DIETHYL PHTHALATE | ug/kg | 6.1 U | 7.4 U | 8.5 U | 8.9 U |
| 131-11-3 | DIMETHYL PHTHALATE | ug/kg | 95.9 J | 180 J | 210 J | 220 J |
| 84-74-2 | DI-N-BUTYL PHTHALATE | ug/kg | 30.9 U | 37.3 U | 43 U | 45 U |
| 117-84-0 | DI-N-OCTYLPHTHALATE | ug/kg | 4.5 U | 5.4 U | 6.2 U | 6.5 U |
| 206-44-0 | FLUORANTHENE | ug/kg | 320 J | 800 | 11 U | 11.5 U |
| 86-73-7 | FLUORENE | ug/kg | 14.9 U | 120 J | 20.7 U | 21.6 U |
| 118-74-1 | HEXACHLOROBENZENE | ug/kg | 16 U | 19.4 U | 22.3 U | 23.4 U |
| 87-68-3 | HEXACHLOROBUTADIENE | ug/kg | 14.3 U | 17.2 U | 19.8 U | 20.8 U |
| 77-47-4 | HEXACHLOROCYCLOPENTADIENE | ug/kg | 9.5 UJ | 11.5 UJ | 13.3 U | 13.9 U |
| 67-72-1 | HEXACHLOROETHANE | ug/kg | 17.6 U | 21.2 U | 24.4 U | 25.6 U |
| 193-39-5 | INDENO(1,2,3-C,D)PYRENE | ug/kg | 13.1 U | 260 J | 18.2 U | 19.1 U |
| 78-59-1 | ISOPHORONE | ug/kg | 13 U | 15.7 U | 18 U | 18.9 U |
| 91-20-3 | NAPHTHALENE | ug/kg | 13.6 U | 140 J | 18.9 U | 19.7 U |
| 98-95-3 | NITROBENZENE | ug/kg | 14.9 U | 17.9 U | 20.7 U | 21.6 U |
| 621-64-7 | N-NITROSODI-N-PROPYLAMINE | ug/kg | 19.8 U | 23.9 U | 27.6 U | 28.8 U |
| 86-30-6 | N-NITROSODIPHENYLAMINE | ug/kg | 9.4 U | 11.4 U | 13.1 U | 13.7 U |
| 87-86-5 | PENTACHLOROPHENOL | ug/kg | 26.9 UJ | 32.5 UJ | 37.4 UJ | 39.1 UJ |
| 85-01-8 | PHENANTHRENE | ug/kg | 220 J | 710 | 14.8 U | 15.5 U |
| 108-95-2 | PHENOL | ug/kg | 100 J | 210 J | 190 J | 250 J |
| 129-00-0 | PYRENE | ug/kg | 320 J | 730 | 13.1 U | 13.7 U |

| Consolidated Edison<br>Farrington Street Remedial Investigation<br>2015 Soil Analytical Data G1159 | | Location ID:<br>Sample ID:<br>Lab Sample Id:<br>Depth:<br>Source:<br>SDG:<br>Matrix:<br>Sampled:<br>Validated: | SB-84<br>SB-84(7-9)-20150114<br>G1159-03<br>7 - 9 ft<br>CTECH<br>G1159<br>SOIL<br>1/14/2015 9:35<br>2/25/2015 | SB-84<br>SB-84(17-19)-20150114<br>G1159-04<br>17 - 19 ft<br>CTECH<br>G1159<br>SOIL<br>1/14/2015 10:50<br>2/25/2015 | SB-85<br>SB-85(7-9)-20150115<br>G1159-07<br>7 - 9 ft<br>CTECH<br>G1159<br>SOIL<br>1/15/2015 9:10<br>2/25/2015 | SB-85<br>SB-85(29-31)-20150115<br>G1159-08<br>29 - 31 ft<br>CTECH<br>G1159<br>SOIL<br>1/15/2015 11:30<br>2/25/2015 |
|---|---|---|---|---|---|---|
| CAS NO. | COMPOUND | UNITS: | | | | |
| | INORGANICS | | | | | |
| 7429-90-5 | ALUMINUM | mg/kg | 6010 | 5770 | 8210 | 14200 |
| 7440-36-0 | ANTIMONY | mg/kg | 0.549 U | 0.799 J | 1.54 J | 0.799 U |
| 7440-38-2 | ARSENIC | mg/kg | 7.36 | 14.8 | 13.7 | 10.38 |
| 7440-39-3 | BARIUM | mg/kg | 105 | 390 | 109 | 33 |
| 7440-41-7 | BERYLLIUM | mg/kg | 0.559 | 1.39 | 0.638 | 1.03 |
| 7440-43-9 | CADMIUM | mg/kg | 0.059 U | 6.38 J+ | 2 J+ | 0.086 U |
| 7440-70-2 | CALCIUM | mg/kg | 8090 | 18100 | 4980 | 2460 |
| 7440-47-3 | CHROMIUM, TOTAL | mg/kg | 17.7 | 34.2 J+ | 31.1 | 34.4 |
| 7440-48-4 | COBALT | mg/kg | 5.97 | 10.45 | 6.04 | 14.2 |
| 7440-50-8 | COPPER | mg/kg | 37.8 J+ | 391 J+ | 105 J+ | 13.7 J+ |
| 7439-89-6 | IRON | mg/kg | 14400 | 33700 | 41800 | 37200 |
| 7439-92-1 | LEAD | mg/kg | 157 | 1280 | 355 | 23.6 |
| 7439-95-4 | MAGNESIUM | mg/kg | 3140 | 3470 | 3030 | 8510 |
| 7439-96-5 | MANGANESE | mg/kg | 154 J+ | 401 J+ | 425 J+ | 569 J+ |
| 7439-97-6 | MERCURY | mg/kg | 0.152 | 0.542 J- | 0.47 | 0.019 |
| 7440-02-0 | NICKEL | mg/kg | 17.9 | 49.5 J+ | 24.3 | 31.5 |
| 7440-09-7 | POTASSIUM | mg/kg | 657 | 588 | 1680 | 3760 |
| 7782-49-2 | SELENIUM | mg/kg | 0.501 J | 2.18 | 3.63 | 0.832 J |
| 7440-22-4 | SILVER | mg/kg | 0.123 U | 0.143 UJ | 0.172 U | 0.178 U |
| 7440-23-5 | SODIUM | mg/kg | 436 | 757 J+ | 2300 | 5260 |
| 7440-28-0 | THALLIUM | mg/kg | 0.265 U | 0.309 U | 0.372 U | 0.385 U |
| 7440-62-2 | VANADIUM | mg/kg | 24.1 | 28 | 39.3 | 41.2 |
| 7440-66-6 | ZINC | mg/kg | 203 | 1380 J | 1190 | 107 |
| 57-12-5 | CYANIDE | mg/kg | 0.038 U | 0.114 J | 0.142 J | 0.056 U |

| Consolidated Edison<br>Farrington Street Asahi Boring<br>Validated Groundwater Analytical Data<br>SDG: G2627 | | Location ID:<br>Sample ID:<br>Lab Sample Id:<br>Source:<br>SDG:<br>Matrix:<br>Sampled:<br>Validated: | CMW-36<br>CMW-36-20150610<br>G2627-11<br>CTECH<br>G2627<br>WATER<br>6/10/2015 10:05<br>7/30/2015 | CMW-37<br>CMW-37-20150610<br>G2627-12<br>CTECH<br>G2627<br>WATER<br>6/10/2015 11:35<br>7/30/2015 | MW-13<br>MW-13-20150610<br>G2627-13<br>CTECH<br>G2627<br>WATER<br>6/10/2015 14:00<br>7/30/2015 | MW-16<br>MW-16-20150611<br>G2627-18<br>CTECH<br>G2627<br>WATER<br>6/11/2015 14:30<br>7/30/2015 |
|---|---|---|---|---|---|---|
| CAS NO. | COMPOUND | UNITS: | | | | |
| | VOLATILES | | | | | |
| 71-55-6 | 1,1,1-TRICHLOROETHANE | ug/l | 0.4 U | 0.4 U | 0.4 U | 0.4 U |
| 79-34-5 | 1,1,2,2-TETRACHLOROETHANE | ug/l | 0.31 U | 0.31 U | 0.31 U | 0.31 U |
| 76-13-1 | 1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE | ug/l | 0.45 U | 0.45 U | 0.45 U | 0.45 U |
| 79-00-5 | 1,1,2-TRICHLOROETHANE | ug/l | 0.38 U | 0.38 U | 0.38 U | 0.38 U |
| 75-34-3 | 1,1-DICHLOROETHANE | ug/l | 0.36 U | 0.36 U | 0.36 U | 0.36 U |
| 75-35-4 | 1,1-DICHLOROETHENE | ug/l | 0.47 U | 0.47 U | 0.47 U | 0.47 U |
| 87-61-6 | 1,2,3-TRICHLOROBENZENE | ug/l | 0.2 U | 0.2 U | 0.2 U | 0.2 U |
| 120-82-1 | 1,2,4-TRICHLOROBENZENE | ug/l | 0.2 U | 0.2 U | 0.2 U | 0.2 U |
| 96-12-8 | 1,2-DIBROMO-3-CHLOROPROPANE | ug/l | 0.46 U | 0.46 U | 0.46 U | 0.46 U |
| 106-93-4 | 1,2-DIBROMOETHANE | ug/l | 0.41 U | 0.41 U | 0.41 U | 0.41 U |
| 95-50-1 | 1,2-DICHLOROBENZENE | ug/l | 0.45 U | 0.45 U | 0.45 U | 0.45 U |
| 107-06-2 | 1,2-DICHLOROETHANE | ug/l | 0.48 U | 0.48 U | 0.48 U | 0.48 U |
| 78-87-5 | 1,2-DICHLOROPROPANE | ug/l | 0.46 U | 0.46 U | 0.46 U | 0.46 U |
| 541-73-1 | 1,3-DICHLOROBENZENE | ug/l | 0.43 U | 0.43 U | 0.43 U | 0.43 U |
| 106-46-7 | 1,4-DICHLOROBENZENE | ug/l | 0.32 U | 0.32 U | 0.32 U | 0.32 U |
| 123-91-1 | 1,4-DIOXANE (P-DIOXANE) | ug/l | 100 U | 100 U | 100 U | 100 U |
| 591-78-6 | 2-HEXANONE | ug/l | 1.9 U | 1.9 U | 1.9 U | 1.9 U |
| 67-64-1 | ACETONE | ug/l | 0.5 U | 4.1 J | 0.5 U | 0.5 U |
| 71-43-2 | BENZENE | ug/l | 0.32 U | 4.6 J | 0.32 U | 180 |
| 74-97-5 | BROMOCHLOROMETHANE | ug/l | 0.2 U | 0.2 U | 0.2 U | 0.2 U |
| 75-27-4 | BROMODICHLOROMETHANE | ug/l | 0.36 U | 0.36 U | 0.36 U | 0.36 U |
| 75-25-2 | BROMOFORM | ug/l | 0.47 U | 0.47 U | 0.47 U | 0.47 U |
| 74-83-9 | BROMOMETHANE | ug/l | 0.2 UJ | 0.2 UJ | 0.2 UJ | 0.2 UJ |
| 75-15-0 | CARBON DISULFIDE | ug/l | 0.2 U | 0.2 U | 0.2 U | 0.2 U |
| 56-23-5 | CARBON TETRACHLORIDE | ug/l | 0.2 U | 0.2 U | 0.2 U | 0.2 U |
| 108-90-7 | CHLOROBENZENE | ug/l | 0.49 U | 0.49 U | 0.49 U | 0.49 U |
| 75-00-3 | CHLOROETHANE | ug/l | 0.2 U | 0.2 U | 0.2 U | 0.2 U |
| 67-66-3 | CHLOROFORM | ug/l | 1.8 J | 0.34 U | 0.34 U | 0.34 U |
| 74-87-3 | CHLOROMETHANE | ug/l | 0.2 U | 0.2 U | 0.2 U | 0.2 U |
| 156-59-2 | CIS-1,2-DICHLOROETHYLENE | ug/l | 0.35 U | 0.35 U | 0.35 U | 1 J |
| 10061-01-5 | CIS-1,3-DICHLOROPROPENE | ug/l | 0.31 U | 0.31 U | 0.31 U | 0.31 U |
| 110-82-7 | CYCLOHEXANE | ug/l | 0.2 U | 0.2 U | 0.2 U | 0.2 U |
| 124-48-1 | DIBROMOCHLOROMETHANE | ug/l | 0.2 U | 0.2 U | 0.2 U | 0.2 U |
| 75-71-8 | DICHLORODIFLUOROMETHANE | ug/l | 0.2 U | 0.2 U | 0.2 U | 0.2 U |
| 100-41-4 | ETHYLBENZENE | ug/l | 0.2 U | 0.9 J | 0.2 U | 13 |
| 98-82-8 | ISOPROPYLBENZENE (CUMENE) | ug/l | 0.45 U | 2 J | 0.45 U | 14.3 |
| 179601-23-1 | M,P-XYLENE | ug/l | 0.95 U | 1.3 J | 0.95 U | 2.4 J |
| 79-20-9 | METHYL ACETATE | ug/l | 0.2 U | 0.2 U | 0.2 U | 0.2 U |
| 78-93-3 | METHYL ETHYL KETONE (2-BUTANONE) | ug/l | 1.3 U | 1.3 U | 1.3 U | 1.3 U |
| 108-10-1 | METHYL ISOBUTYL KETONE | ug/l | 2.1 U | 2.1 U | 2.1 U | 2.1 U |
| 108-87-2 | METHYLCYCLOHEXANE | ug/l | 0.2 U | 0.2 U | 0.2 U | 2.3 J |
| 75-09-2 | METHYLENE CHLORIDE | ug/l | 0.41 U | 0.41 U | 0.41 U | 0.41 U |
| 95-47-6 | O-XYLENE (1,2-DIMETHYLBENZENE) | ug/l | 0.43 U | 0.92 J | 0.43 U | 5.3 |
| 100-42-5 | STYRENE | ug/l | 0.36 U | 0.36 U | 0.36 U | 0.36 U |
| 1634-04-4 | TERT-BUTYL METHYL ETHER | ug/l | 0.35 U | 0.68 J | 0.51 J | 1 J |
| 127-18-4 | TETRACHLOROETHYLENE(PCE) | ug/l | 0.67 J | 0.27 U | 0.84 J | 0.35 J |
| 108-88-3 | TOLUENE | ug/l | 0.37 U | 0.65 J | 0.37 U | 0.74 J |
| 156-60-5 | TRANS-1,2-DICHLOROETHENE | ug/l | 0.41 U | 0.41 U | 0.41 U | 0.41 U |
| 10061-02-6 | TRANS-1,3-DICHLOROPROPENE | ug/l | 0.29 U | 0.29 U | 0.29 U | 0.29 U |
| 79-01-6 | TRICHLOROETHYLENE (TCE) | ug/l | 0.28 U | 0.28 U | 0.28 U | 1.3 J |
| 75-69-4 | TRICHLOROFLUOROMETHANE | ug/l | 0.35 U | 0.35 U | 0.35 U | 0.35 U |
| 75-01-4 | VINYL CHLORIDE | ug/l | 0.34 U | 0.34 U | 0.34 U | 0.34 U |

| Consolidated Edison<br>Farrington Street Asahi Boring<br>Validated Groundwater Analytical Data<br>SDG: G2627 | | Location ID:<br>Sample ID:<br>Lab Sample Id:<br>Source:<br>SDG:<br>Matrix:<br>Sampled:<br>Validated: | CMW-36<br>CMW-36-20150610<br>G2627-11<br>CTECH<br>G2627<br>WATER<br>6/10/2015 10:05<br>7/30/2015 | CMW-37<br>CMW-37-20150610<br>G2627-12<br>CTECH<br>G2627<br>WATER<br>6/10/2015 11:35<br>7/30/2015 | MW-13<br>MW-13-20150610<br>G2627-13<br>CTECH<br>G2627<br>WATER<br>6/10/2015 14:00<br>7/30/2015 | MW-16<br>MW-16-20150611<br>G2627-18<br>CTECH<br>G2627<br>WATER<br>6/11/2015 14:30<br>7/30/2015 |
|---|---|---|---|---|---|---|
| CAS NO. | COMPOUND | UNITS: | | | | |
| | SEMIVOLATILES | | | | | |
| 95-94-3 | 1,2,4,5-TETRACHLOROBENZENE | ug/l | 0.21 U | 0.21 U | 0.21 U | 0.21 U |
| 58-90-2 | 2,3,4,6-TETRACHLOROPHENOL | ug/l | 0.21 U | 0.21 U | 0.21 U | 0.21 U |
| 95-95-4 | 2,4,5-TRICHLOROPHENOL | ug/l | 0.42 U | 0.41 U | 0.41 U | 0.41 U |
| 88-06-2 | 2,4,6-TRICHLOROPHENOL | ug/l | 0.58 U | 0.58 U | 0.58 U | 0.58 U |
| 120-83-2 | 2,4-DICHLOROPHENOL | ug/l | 0.69 U | 0.68 U | 0.68 U | 0.68 U |
| 105-67-9 | 2,4-DIMETHYLPHENOL | ug/l | 0.74 U | 10.5 | 0.73 U | 0.73 U |
| 51-28-5 | 2,4-DINITROPHENOL | ug/l | 2.2 U | 2.2 U | 2.2 U | 2.2 U |
| 121-14-2 | 2,4-DINITROTOLUENE | ug/l | 1 U | 1 U | 1 U | 1 U |
| 606-20-2 | 2,6-DINITROTOLUENE | ug/l | 0.33 U | 0.33 U | 0.33 U | 0.33 U |
| 91-58-7 | 2-CHLORONAPHTHALENE | ug/l | 0.17 U | 0.16 U | 0.16 U | 0.16 U |
| 95-57-8 | 2-CHLOROPHENOL | ug/l | 0.56 U | 0.56 U | 0.56 U | 0.56 U |
| 91-57-6 | 2-METHYLNAPHTHALENE | ug/l | 0.33 U | 0.33 U | 0.33 U | 2.4 J |
| 95-48-7 | 2-METHYLPHENOL (O-CRESOL) | ug/l | 0.25 U | 0.25 U | 0.25 U | 0.25 U |
| 88-74-4 | 2-NITROANILINE | ug/l | 0.51 U | 0.51 U | 0.51 U | 0.51 U |
| 88-75-5 | 2-NITROPHENOL | ug/l | 0.54 U | 0.54 U | 0.54 U | 0.54 U |
| MEPH3MEPH | 3- AND 4- METHYLPHENOL (TOTAL) | ug/l | 0.4 U | 0.39 U | 0.39 U | 0.39 U |
| 91-94-1 | 3,3'-DICHLOROBENZIDINE | ug/l | 1 U | 1 U | 1 U | 1 U |
| 99-09-2 | 3-NITROANILINE | ug/l | 1 U | 1 U | 1 U | 1 U |
| 534-52-1 | 4,6-DINITRO-2-METHYLPHENOL | ug/l | 0.77 U | 0.76 U | 0.76 U | 0.76 U |
| 101-55-3 | 4-BROMOPHENYL PHENYL ETHER | ug/l | 0.24 U | 0.24 U | 0.24 U | 0.24 U |
| 59-50-7 | 4-CHLORO-3-METHYLPHENOL | ug/l | 0.42 U | 0.41 U | 0.41 U | 0.41 U |
| 106-47-8 | 4-CHLOROANILINE | ug/l | 1 U | 1 U | 1 U | 1 U |
| 7005-72-3 | 4-CHLOROPHENYL PHENYL ETHER | ug/l | 0.22 U | 0.22 U | 0.22 U | 0.22 U |
| 100-01-6 | 4-NITROANILINE | ug/l | 1.4 U | 1.4 U | 1.4 U | 1.4 U |
| 100-02-7 | 4-NITROPHENOL | ug/l | 2.1 U | 2.1 U | 2.1 U | 2.1 U |
| 83-32-9 | ACENAPHTHENE | ug/l | 0.22 U | 12.2 | 0.22 U | 50.8 |
| 208-96-8 | ACENAPHTHYLENE | ug/l | 0.73 U | 0.72 U | 0.72 U | 0.72 U |
| 98-86-2 | ACETOPHENONE | ug/l | 0.15 U | 0.14 U | 0.14 U | 0.14 U |
| 120-12-7 | ANTHRACENE | ug/l | 0.17 U | 0.16 U | 0.16 U | 2.9 J |
| 1912-24-9 | ATRAZINE | ug/l | 0.42 U | 0.41 U | 0.41 U | 0.41 U |
| 100-52-7 | BENZALDEHYDE | ug/l | 0.8 U | 0.79 U | 0.79 U | 0.79 U |
| 56-55-3 | BENZO(A)ANTHRACENE | ug/l | 0.17 U | 0.16 U | 0.16 U | 0.16 U |
| 50-32-8 | BENZO(A)PYRENE | ug/l | 0.15 U | 0.14 U | 0.14 U | 0.14 U |
| 205-99-2 | BENZO(B)FLUORANTHENE | ug/l | 0.3 U | 0.3 U | 0.3 U | 0.3 U |
| 191-24-2 | BENZO(G,H,I)PERYLENE | ug/l | 0.3 U | 0.3 U | 0.3 U | 0.3 U |
| 207-08-9 | BENZO(K)FLUORANTHENE | ug/l | 0.19 U | 0.19 U | 0.19 U | 0.19 U |
| 85-68-7 | BENZYL BUTYL PHTHALATE | ug/l | 0.2 U | 0.2 U | 0.2 U | 0.2 U |
| 92-52-4 | BIPHENYL (DIPHENYL) | ug/l | 0.16 U | 0.15 U | 0.15 U | 0.15 U |
| 111-91-1 | BIS(2-CHLOROETHOXY) METHANE | ug/l | 0.57 U | 0.57 U | 0.57 U | 0.57 U |
| 111-44-4 | BIS(2-CHLOROETHYL) ETHER | ug/l | 0.57 U | 0.57 U | 0.57 U | 0.57 U |
| 108-60-1 | BIS(2-CHLOROISOPROPYL) ETHER | ug/l | 0.18 U | 0.18 U | 0.18 U | 0.18 U |
| 117-81-7 | BIS(2-ETHYLHEXYL) PHTHALATE | ug/l | 0.17 U | 0.16 U | 0.16 U | 0.16 U |
| 105-60-2 | CAPROLACTAM | ug/l | 1 U | 1 U | 1 U | 1 U |
| 86-74-8 | CARBAZOLE | ug/l | 0.23 U | 0.23 U | 0.23 U | 2.6 J |
| 218-01-9 | CHRYSENE | ug/l | 0.19 U | 0.19 U | 0.19 U | 0.19 U |
| 53-70-3 | DIBENZ(A,H)ANTHRACENE | ug/l | 0.44 U | 0.43 U | 0.43 U | 0.43 U |
| 132-64-9 | DIBENZOFURAN | ug/l | 0.25 U | 0.25 U | 0.25 U | 2.2 J |
| 84-66-2 | DIETHYL PHTHALATE | ug/l | 0.4 U | 0.39 U | 0.39 U | 0.39 U |
| 131-11-3 | DIMETHYL PHTHALATE | ug/l | 0.23 U | 0.23 U | 0.23 U | 0.23 U |
| 84-74-2 | DI-N-BUTYL PHTHALATE | ug/l | 1 U | 1 U | 1 U | 1 U |
| 117-84-0 | DI-N-OCTYLPHTHALATE | ug/l | 0.53 U | 0.53 U | 0.53 U | 0.53 U |
| 206-44-0 | FLUORANTHENE | ug/l | 0.42 U | 0.41 U | 0.41 U | 0.41 U |
| 86-73-7 | FLUORENE | ug/l | 0.32 U | 0.32 U | 0.32 U | 14 |
| 118-74-1 | HEXACHLOROBENZENE | ug/l | 0.19 U | 0.19 U | 0.19 U | 0.19 U |
| 87-68-3 | HEXACHLOROBUTADIENE | ug/l | 0.26 U | 0.26 U | 0.26 U | 0.26 U |
| 77-47-4 | HEXACHLOROCYCLOPENTADIENE | ug/l | 0.25 UJ | 0.25 UJ | 0.25 UJ | 0.25 UJ |
| 67-72-1 | HEXACHLOROETHANE | ug/l | 0.26 U | 0.26 U | 0.26 U | 0.26 U |
| 193-39-5 | INDENO(1,2,3-C,D)PYRENE | ug/l | 0.16 U | 0.15 U | 0.15 U | 0.15 U |
| 78-59-1 | ISOPHORONE | ug/l | 0.31 U | 0.31 U | 0.31 U | 0.31 U |
| 91-20-3 | NAPHTHALENE | ug/l | 0.13 U | 31.7 | 0.12 U | 49.4 |
| 98-95-3 | NITROBENZENE | ug/l | 0.71 U | 0.7 U | 0.7 U | 0.7 U |
| 621-64-7 | N-NITROSODI-N-PROPYLAMINE | ug/l | 0.21 U | 0.21 U | 0.21 U | 0.21 U |
| 86-30-6 | N-NITROSODIPHENYLAMINE | ug/l | 0.63 U | 0.62 U | 0.62 U | 0.62 U |
| 87-86-5 | PENTACHLOROPHENOL | ug/l | 1 U | 1 U | 1 U | 1 U |
| 85-01-8 | PHENANTHRENE | ug/l | 0.27 U | 0.27 U | 0.27 U | 15.9 |
| 108-95-2 | PHENOL | ug/l | 0.22 U | 0.22 U | 0.22 U | 0.22 U |
| 129-00-0 | PYRENE | ug/l | 0.21 U | 0.21 U | 0.21 U | 0.21 U |

| Consolidated Edison<br>Farrington Street Asahi Boring<br>Validated Groundwater Analytical Data<br>SDG: G2627 | | Location ID:<br>Sample ID:<br>Lab Sample Id:<br>Source:<br>SDG:<br>Matrix:<br>Sampled:<br>Validated: | CMW-36<br>CMW-36-20150610<br>G2627-11<br>CTECH<br>G2627<br>WATER<br>6/10/2015 10:05<br>7/30/2015 | CMW-37<br>CMW-37-20150610<br>G2627-12<br>CTECH<br>G2627<br>WATER<br>6/10/2015 11:35<br>7/30/2015 | MW-13<br>MW-13-20150610<br>G2627-13<br>CTECH<br>G2627<br>WATER<br>6/10/2015 14:00<br>7/30/2015 | MW-16<br>MW-16-20150611<br>G2627-18<br>CTECH<br>G2627<br>WATER<br>6/11/2015 14:30<br>7/30/2015 |
|---|---|---|---|---|---|---|
| CAS NO. | COMPOUND | UNITS: | | | | |
| | INORGANICS | | | | | |
| 7429-90-5 | ALUMINUM | ug/l | 1200 | 153 | 104 | 157 |
| 7440-36-0 | ANTIMONY | ug/l | 6.25 U | 6.25 U | 6.25 U | 6.25 U |
| 7440-38-2 | ARSENIC | ug/l | 2.5 U | 18.7 | 2.5 U | 2.62 J |
| 7440-39-3 | BARIUM | ug/l | 154 | 343 | 143 | 183 |
| 7440-41-7 | BERYLLIUM | ug/l | 0.7 U | 0.77 J | 0.7 U | 0.7 U |
| 7440-43-9 | CADMIUM | ug/l | 0.5 U | 4.13 | 0.5 U | 0.665 J |
| 7440-70-2 | CALCIUM | ug/l | 193200 | 140800 | 109900 | 66700 |
| 7440-47-3 | CHROMIUM, TOTAL | ug/l | 6.34 | 3.12 J | 51.5 | 2.33 J |
| 7440-48-4 | COBALT | ug/l | 8.65 J | 3.75 U | 3.75 U | 3.75 U |
| 7440-50-8 | COPPER | ug/l | 3.51 J | 2 U | 2.06 J | 2.52 J |
| 7439-89-6 | IRON | ug/l | 2220 | 91300 | 4890 | 18000 |
| 7439-92-1 | LEAD | ug/l | 1.5 U | 1.5 U | 1.5 U | 1.5 U |
| 7439-95-4 | MAGNESIUM | ug/l | 74000 | 20800 | 22200 | 32700 |
| 7439-96-5 | MANGANESE | ug/l | 3650 | 706 | 440 | 330 |
| 7439-97-6 | MERCURY | ug/l | 0.1 U | 0.109 J | 0.1 U | 0.1 U |
| 7440-02-0 | NICKEL | ug/l | 20.4 | 4.2 U | 33.5 | 4.33 J |
| 7440-09-7 | POTASSIUM | ug/l | 20600 | 23000 | 7400 | 17700 |
| 7782-49-2 | SELENIUM | ug/l | 11.5 | 4.8 U | 9.41 J | 4.8 U |
| 7440-22-4 | SILVER | ug/l | 1.25 U | 8.91 | 1.25 U | 2.12 J |
| 7440-23-5 | SODIUM | ug/l | 813100 | 322700 | 208700 | 195100 |
| 7440-28-0 | THALLIUM | ug/l | 2.4 U | 2.4 U | 2.4 U | 2.4 U |
| 7440-62-2 | VANADIUM | ug/l | 5 U | 5 U | 5 U | 5 U |
| 7440-66-6 | ZINC | ug/l | 118 | 102 | 19.5 J | 6.81 J |
| 57-12-5 | CYANIDE | ug/l | 5 | 265 | 3 U | 2 J |

| Consolidated Edison<br>Farrington Street Asahi Boring<br>Validated Groundwater Analytical Data<br>SDG: G2627 | | Location ID:<br>Sample ID:<br>Lab Sample Id:<br>Source:<br>SDG:<br>Matrix:<br>Sampled:<br>Validated: | MW-17<br>MW-17-20150610<br>G2627-14<br>CTECH<br>G2627<br>WATER<br>6/10/2015 15:05<br>7/30/2015 | MW-20<br>MW-20-20150609<br>G2627-09<br>CTECH<br>G2627<br>WATER<br>6/9/2015 13:00<br>7/30/2015 | MW-21<br>MW-21-20150609<br>G2627-07<br>CTECH<br>G2627<br>WATER<br>6/9/2015 9:35<br>7/30/2015 | MW-25<br>MW-25-20150611<br>G2627-16<br>CTECH<br>G2627<br>WATER<br>6/11/2015 11:45<br>7/30/2015 |
|---|---|---|---|---|---|---|
| CAS NO. | COMPOUND | UNITS: | | | | |
| | VOLATILES | | | | | |
| 71-55-6 | 1,1,1-TRICHLOROETHANE | ug/l | 0.4 U | 0.4 U | 0.4 U | 0.4 U |
| 79-34-5 | 1,1,2,2-TETRACHLOROETHANE | ug/l | 0.31 U | 0.31 U | 0.31 U | 0.31 U |
| 76-13-1 | 1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE | ug/l | 0.45 U | 0.45 U | 0.45 U | 0.45 U |
| 79-00-5 | 1,1,2-TRICHLOROETHANE | ug/l | 0.38 U | 0.38 U | 0.38 U | 0.38 U |
| 75-34-3 | 1,1-DICHLOROETHANE | ug/l | 0.36 U | 0.36 U | 0.36 U | 0.36 U |
| 75-35-4 | 1,1-DICHLOROETHENE | ug/l | 0.47 U | 0.47 U | 0.47 U | 0.47 U |
| 87-61-6 | 1,2,3-TRICHLOROBENZENE | ug/l | 0.2 U | 0.2 U | 0.2 U | 0.2 U |
| 120-82-1 | 1,2,4-TRICHLOROBENZENE | ug/l | 0.2 U | 0.2 U | 0.2 U | 0.2 U |
| 96-12-8 | 1,2-DIBROMO-3-CHLOROPROPANE | ug/l | 0.46 U | 0.46 U | 0.46 U | 0.46 U |
| 106-93-4 | 1,2-DIBROMOETHANE | ug/l | 0.41 U | 0.41 U | 0.41 U | 0.41 U |
| 95-50-1 | 1,2-DICHLOROBENZENE | ug/l | 0.45 U | 0.45 U | 0.45 U | 0.45 U |
| 107-06-2 | 1,2-DICHLOROETHANE | ug/l | 0.48 U | 0.48 U | 0.48 U | 0.48 U |
| 78-87-5 | 1,2-DICHLOROPROPANE | ug/l | 0.46 U | 0.46 U | 0.46 U | 0.46 U |
| 541-73-1 | 1,3-DICHLOROBENZENE | ug/l | 0.43 U | 0.43 U | 0.43 U | 0.43 U |
| 106-46-7 | 1,4-DICHLOROBENZENE | ug/l | 0.32 U | 0.32 U | 0.32 U | 0.32 U |
| 123-91-1 | 1,4-DIOXANE (P-DIOXANE) | ug/l | 100 U | 100 U | 100 U | 100 U |
| 591-78-6 | 2-HEXANONE | ug/l | 1.9 U | 1.9 U | 1.9 U | 1.9 U |
| 67-64-1 | ACETONE | ug/l | 0.5 U | 0.5 U | 0.5 U | 3.7 J |
| 71-43-2 | BENZENE | ug/l | 0.32 U | 0.32 U | 0.32 U | 0.32 U |
| 74-97-5 | BROMOCHLOROMETHANE | ug/l | 0.2 U | 0.2 U | 0.2 U | 0.2 U |
| 75-27-4 | BROMODICHLOROMETHANE | ug/l | 0.36 U | 0.36 U | 0.36 U | 0.36 U |
| 75-25-2 | BROMOFORM | ug/l | 0.47 U | 0.47 U | 0.47 U | 0.47 U |
| 74-83-9 | BROMOMETHANE | ug/l | 0.2 UJ | 0.2 UJ | 0.2 UJ | 0.2 UJ |
| 75-15-0 | CARBON DISULFIDE | ug/l | 0.2 U | 0.2 U | 0.2 U | 0.2 U |
| 56-23-5 | CARBON TETRACHLORIDE | ug/l | 0.2 U | 0.2 U | 0.2 U | 0.2 U |
| 108-90-7 | CHLOROBENZENE | ug/l | 0.49 U | 0.49 U | 0.49 U | 0.49 U |
| 75-00-3 | CHLOROETHANE | ug/l | 0.2 U | 0.2 U | 0.2 U | 0.2 U |
| 67-66-3 | CHLOROFORM | ug/l | 0.34 U | 0.34 U | 0.34 U | 0.34 U |
| 74-87-3 | CHLOROMETHANE | ug/l | 0.2 U | 0.2 U | 0.2 U | 0.2 U |
| 156-59-2 | CIS-1,2-DICHLOROETHYLENE | ug/l | 0.35 U | 0.35 U | 0.35 U | 0.35 U |
| 10061-01-5 | CIS-1,3-DICHLOROPROPENE | ug/l | 0.31 U | 0.31 U | 0.31 U | 0.31 U |
| 110-82-7 | CYCLOHEXANE | ug/l | 0.2 U | 0.2 U | 0.2 U | 0.2 U |
| 124-48-1 | DIBROMOCHLOROMETHANE | ug/l | 0.2 U | 0.2 U | 0.2 U | 0.2 U |
| 75-71-8 | DICHLORODIFLUOROMETHANE | ug/l | 0.2 U | 0.2 U | 0.2 U | 0.2 U |
| 100-41-4 | ETHYLBENZENE | ug/l | 0.29 J | 0.2 U | 0.2 U | 0.2 U |
| 98-82-8 | ISOPROPYLBENZENE (CUMENE) | ug/l | 0.45 U | 0.45 U | 0.45 U | 0.45 U |
| 179601-23-1 | M,P-XYLENE | ug/l | 0.95 U | 0.95 U | 0.95 U | 0.95 U |
| 79-20-9 | METHYL ACETATE | ug/l | 0.2 U | 0.2 U | 0.2 U | 0.2 U |
| 78-93-3 | METHYL ETHYL KETONE (2-BUTANONE) | ug/l | 1.3 U | 1.3 U | 1.3 U | 1.3 U |
| 108-10-1 | METHYL ISOBUTYL KETONE | ug/l | 2.1 U | 2.1 U | 2.1 U | 2.1 U |
| 108-87-2 | METHYLCYCLOHEXANE | ug/l | 0.2 U | 0.2 U | 0.2 U | 0.2 U |
| 75-09-2 | METHYLENE CHLORIDE | ug/l | 0.41 U | 0.41 U | 0.41 U | 0.41 U |
| 95-47-6 | O-XYLENE (1,2-DIMETHYLBENZENE) | ug/l | 0.43 U | 0.43 U | 0.43 U | 0.43 U |
| 100-42-5 | STYRENE | ug/l | 0.36 U | 0.36 U | 0.36 U | 0.36 U |
| 1634-04-4 | TERT-BUTYL METHYL ETHER | ug/l | 27.2 | 0.35 U | 1.8 J | 0.35 U |
| 127-18-4 | TETRACHLOROETHYLENE(PCE) | ug/l | 0.27 U | 0.27 U | 0.27 U | 0.27 U |
| 108-88-3 | TOLUENE | ug/l | 0.37 U | 0.56 J | 0.42 J | 0.99 J |
| 156-60-5 | TRANS-1,2-DICHLOROETHENE | ug/l | 0.41 U | 0.41 U | 0.41 U | 0.41 U |
| 10061-02-6 | TRANS-1,3-DICHLOROPROPENE | ug/l | 0.29 U | 0.29 U | 0.29 U | 0.29 U |
| 79-01-6 | TRICHLOROETHYLENE (TCE) | ug/l | 0.28 U | 0.28 U | 0.28 U | 0.28 U |
| 75-69-4 | TRICHLOROFLUOROMETHANE | ug/l | 0.35 U | 0.35 U | 0.35 U | 0.35 U |
| 75-01-4 | VINYL CHLORIDE | ug/l | 0.34 U | 0.34 U | 0.34 U | 0.34 U |

| Consolidated Edison<br>Farrington Street Asahi Boring<br>Validated Groundwater Analytical Data<br>SDG: G2627 | | Location ID:<br>Sample ID:<br>Lab Sample Id:<br>Source:<br>SDG:<br>Matrix:<br>Sampled:<br>Validated: | MW-17<br>MW-17-20150610<br>G2627-14<br>CTECH<br>G2627<br>WATER<br>6/10/2015 15:05<br>7/30/2015 | MW-20<br>MW-20-20150609<br>G2627-09<br>CTECH<br>G2627<br>WATER<br>6/9/2015 13:00<br>7/30/2015 | MW-21<br>MW-21-20150609<br>G2627-07<br>CTECH<br>G2627<br>WATER<br>6/9/2015 9:35<br>7/30/2015 | MW-25<br>MW-25-20150611<br>G2627-16<br>CTECH<br>G2627<br>WATER<br>6/11/2015 11:45<br>7/30/2015 |
|---|---|---|---|---|---|---|
| CAS NO. | COMPOUND | UNITS: | | | | |
| | SEMIVOLATILES | | | | | |
| 95-94-3 | 1,2,4,5-TETRACHLOROBENZENE | ug/l | 0.2 U | 0.2 U | 0.21 U | 0.21 U |
| 58-90-2 | 2,3,4,6-TETRACHLOROPHENOL | ug/l | 0.2 U | 0.2 U | 0.21 U | 0.21 U |
| 95-95-4 | 2,4,5-TRICHLOROPHENOL | ug/l | 0.41 U | 0.41 U | 0.42 U | 0.42 U |
| 88-06-2 | 2,4,6-TRICHLOROPHENOL | ug/l | 0.57 U | 0.57 U | 0.58 U | 0.58 U |
| 120-83-2 | 2,4-DICHLOROPHENOL | ug/l | 0.67 U | 0.67 U | 0.69 U | 0.69 U |
| 105-67-9 | 2,4-DIMETHYLPHENOL | ug/l | 0.72 U | 0.72 U | 0.74 U | 0.74 U |
| 51-28-5 | 2,4-DINITROPHENOL | ug/l | 2.1 U | 2.1 U | 2.2 UJ | 2.2 U |
| 121-14-2 | 2,4-DINITROTOLUENE | ug/l | 1 U | 1 U | 1 U | 1 U |
| 606-20-2 | 2,6-DINITROTOLUENE | ug/l | 0.33 U | 0.33 U | 0.33 U | 0.33 U |
| 91-58-7 | 2-CHLORONAPHTHALENE | ug/l | 0.16 U | 0.16 U | 0.17 U | 0.17 U |
| 95-57-8 | 2-CHLOROPHENOL | ug/l | 0.55 U | 0.55 U | 0.56 U | 0.56 U |
| 91-57-6 | 2-METHYLNAPHTHALENE | ug/l | 0.33 U | 0.33 U | 0.33 U | 0.33 U |
| 95-48-7 | 2-METHYLPHENOL (O-CRESOL) | ug/l | 0.24 U | 0.24 U | 0.25 U | 0.25 U |
| 88-74-4 | 2-NITROANILINE | ug/l | 0.5 U | 0.5 U | 0.51 U | 0.51 U |
| 88-75-5 | 2-NITROPHENOL | ug/l | 0.53 U | 0.53 U | 0.54 U | 0.54 U |
| MEPH3MEPH | 3- AND 4- METHYLPHENOL (TOTAL) | ug/l | 0.39 U | 0.39 U | 0.4 U | 0.4 U |
| 91-94-1 | 3,3'-DICHLOROBENZIDINE | ug/l | 1 U | 1 U | 1 U | 1 U |
| 99-09-2 | 3-NITROANILINE | ug/l | 1 U | 1 U | 1 U | 1 U |
| 534-52-1 | 4,6-DINITRO-2-METHYLPHENOL | ug/l | 0.76 U | 0.76 U | 0.77 U | 0.77 U |
| 101-55-3 | 4-BROMOPHENYL PHENYL ETHER | ug/l | 0.23 U | 0.23 U | 0.24 U | 0.24 U |
| 59-50-7 | 4-CHLORO-3-METHYLPHENOL | ug/l | 0.41 U | 0.41 U | 0.42 U | 0.42 U |
| 106-47-8 | 4-CHLOROANILINE | ug/l | 1 U | 1 U | 1 U | 1 U |
| 7005-72-3 | 4-CHLOROPHENYL PHENYL ETHER | ug/l | 0.21 U | 0.21 U | 0.22 U | 0.22 U |
| 100-01-6 | 4-NITROANILINE | ug/l | 1.4 U | 1.4 U | 1.4 U | 1.4 U |
| 100-02-7 | 4-NITROPHENOL | ug/l | 2 U | 2 U | 2.1 U | 2.1 U |
| 83-32-9 | ACENAPHTHENE | ug/l | 17.1 | 0.21 U | 0.22 U | 0.22 U |
| 208-96-8 | ACENAPHTHYLENE | ug/l | 0.71 U | 0.71 U | 0.73 U | 0.73 U |
| 98-86-2 | ACETOPHENONE | ug/l | 0.14 U | 0.14 U | 0.15 U | 0.15 U |
| 120-12-7 | ANTHRACENE | ug/l | 0.16 U | 0.16 U | 0.17 U | 0.17 U |
| 1912-24-9 | ATRAZINE | ug/l | 0.41 U | 0.41 U | 0.42 U | 0.42 U |
| 100-52-7 | BENZALDEHYDE | ug/l | 0.79 U | 0.79 U | 0.8 U | 0.8 U |
| 56-55-3 | BENZO(A)ANTHRACENE | ug/l | 0.16 U | 0.16 U | 0.17 U | 0.17 U |
| 50-32-8 | BENZO(A)PYRENE | ug/l | 0.14 U | 0.14 U | 0.15 U | 0.15 U |
| 205-99-2 | BENZO(B)FLUORANTHENE | ug/l | 0.3 U | 0.3 U | 0.3 U | 0.3 U |
| 191-24-2 | BENZO(G,H,I)PERYLENE | ug/l | 0.3 U | 0.3 U | 0.3 U | 0.3 U |
| 207-08-9 | BENZO(K)FLUORANTHENE | ug/l | 0.18 U | 0.18 U | 0.19 U | 0.19 U |
| 85-68-7 | BENZYL BUTYL PHTHALATE | ug/l | 0.19 U | 0.19 U | 0.2 U | 0.2 U |
| 92-52-4 | BIPHENYL (DIPHENYL) | ug/l | 0.15 U | 0.15 U | 0.16 U | 0.16 U |
| 111-91-1 | BIS(2-CHLOROETHOXY) METHANE | ug/l | 0.56 U | 0.56 U | 0.57 U | 0.57 U |
| 111-44-4 | BIS(2-CHLOROETHYL) ETHER | ug/l | 0.56 U | 0.56 U | 0.57 U | 0.57 U |
| 108-60-1 | BIS(2-CHLOROISOPROPYL) ETHER | ug/l | 0.17 U | 0.17 U | 0.18 U | 0.18 U |
| 117-81-7 | BIS(2-ETHYLHEXYL) PHTHALATE | ug/l | 0.16 U | 0.16 U | 0.17 U | 0.17 U |
| 105-60-2 | CAPROLACTAM | ug/l | 1 U | 1 U | 1 U | 1 U |
| 86-74-8 | CARBAZOLE | ug/l | 0.22 U | 0.22 U | 0.23 U | 0.23 U |
| 218-01-9 | CHRYSENE | ug/l | 0.18 U | 0.18 U | 0.19 U | 0.19 U |
| 53-70-3 | DIBENZ(A,H)ANTHRACENE | ug/l | 0.43 U | 0.43 U | 0.44 U | 0.44 U |
| 132-64-9 | DIBENZOFURAN | ug/l | 0.24 U | 0.24 U | 0.25 U | 0.25 U |
| 84-66-2 | DIETHYL PHTHALATE | ug/l | 0.39 U | 0.39 U | 0.4 U | 0.4 U |
| 131-11-3 | DIMETHYL PHTHALATE | ug/l | 0.22 U | 0.22 U | 0.23 U | 0.23 U |
| 84-74-2 | DI-N-BUTYL PHTHALATE | ug/l | 1 U | 1 U | 1 U | 1 U |
| 117-84-0 | DI-N-OCTYLPHTHALATE | ug/l | 0.52 U | 0.52 U | 0.53 U | 0.53 U |
| 206-44-0 | FLUORANTHENE | ug/l | 0.41 U | 0.41 U | 0.42 U | 0.42 U |
| 86-73-7 | FLUORENE | ug/l | 0.32 U | 0.32 U | 0.32 U | 0.32 U |
| 118-74-1 | HEXACHLOROBENZENE | ug/l | 0.18 U | 0.18 U | 0.19 U | 0.19 U |
| 87-68-3 | HEXACHLOROBUTADIENE | ug/l | 0.26 U | 0.26 U | 0.26 U | 0.26 U |
| 77-47-4 | HEXACHLOROCYCLOPENTADIENE | ug/l | 0.24 UJ | 0.24 UJ | 0.25 UJ | 0.25 UJ |
| 67-72-1 | HEXACHLOROETHANE | ug/l | 0.26 U | 0.26 U | 0.26 U | 0.26 U |
| 193-39-5 | INDENO(1,2,3-C,D)PYRENE | ug/l | 0.15 U | 0.15 U | 0.16 U | 0.16 U |
| 78-59-1 | ISOPHORONE | ug/l | 0.31 U | 0.31 U | 0.31 U | 0.31 U |
| 91-20-3 | NAPHTHALENE | ug/l | 0.12 U | 0.12 U | 0.13 U | 0.13 U |
| 98-95-3 | NITROBENZENE | ug/l | 0.69 U | 0.69 U | 0.71 U | 0.71 U |
| 621-64-7 | N-NITROSODI-N-PROPYLAMINE | ug/l | 0.2 U | 0.2 U | 0.21 U | 0.21 U |
| 86-30-6 | N-NITROSODIPHENYLAMINE | ug/l | 0.61 U | 0.61 U | 0.63 U | 0.63 U |
| 87-86-5 | PENTACHLOROPHENOL | ug/l | 1 U | 1 U | 1 U | 1 U |
| 85-01-8 | PHENANTHRENE | ug/l | 0.27 U | 0.27 U | 0.27 U | 0.27 U |
| 108-95-2 | PHENOL | ug/l | 0.21 U | 0.21 U | 0.22 U | 0.22 U |
| 129-00-0 | PYRENE | ug/l | 0.2 U | 0.2 U | 0.21 U | 0.21 U |

| Consolidated Edison<br>Farrington Street Asahi Boring<br>Validated Groundwater Analytical Data<br>SDG: G2627 | | Location ID:<br>Sample ID:<br>Lab Sample Id:<br>Source:<br>SDG:<br>Matrix:<br>Sampled:<br>Validated: | MW-17<br>MW-17-20150610<br>G2627-14<br>CTECH<br>G2627<br>WATER<br>6/10/2015 15:05<br>7/30/2015 | MW-20<br>MW-20-20150609<br>G2627-09<br>CTECH<br>G2627<br>WATER<br>6/9/2015 13:00<br>7/30/2015 | MW-21<br>MW-21-20150609<br>G2627-07<br>CTECH<br>G2627<br>WATER<br>6/9/2015 9:35<br>7/30/2015 | MW-25<br>MW-25-20150611<br>G2627-16<br>CTECH<br>G2627<br>WATER<br>6/11/2015 11:45<br>7/30/2015 |
|---|---|---|---|---|---|---|
| CAS NO. | COMPOUND | UNITS: | | | | |
| | INORGANICS | | | | | |
| 7429-90-5 | ALUMINUM | ug/l | 791 | 75.6 | 1460 | 2030 |
| 7440-36-0 | ANTIMONY | ug/l | 6.25 U | 6.25 U | 6.25 U | 6.25 U |
| 7440-38-2 | ARSENIC | ug/l | 18.5 | 2.5 U | 2.5 U | 21.4 |
| 7440-39-3 | BARIUM | ug/l | 236 | 235 | 535 | 160 |
| 7440-41-7 | BERYLLIUM | ug/l | 0.7 U | 0.7 U | 0.7 U | 0.7 U |
| 7440-43-9 | CADMIUM | ug/l | 1.05 J | 0.5 U | 4.83 | 1.61 J |
| 7440-70-2 | CALCIUM | ug/l | 179500 | 53900 | 112300 | 99300 |
| 7440-47-3 | CHROMIUM, TOTAL | ug/l | 14.6 | 1.43 J | 4.37 J | 17.3 |
| 7440-48-4 | COBALT | ug/l | 3.75 U | 3.75 U | 3.75 U | 4.96 J |
| 7440-50-8 | COPPER | ug/l | 5.04 J | 2 U | 2.56 J | 52.4 |
| 7439-89-6 | IRON | ug/l | 26100 | 1950 | 86600 | 7350 |
| 7439-92-1 | LEAD | ug/l | 2.32 J | 1.5 U | 13.4 | 61.1 |
| 7439-95-4 | MAGNESIUM | ug/l | 45300 | 17600 | 17700 | 8890 |
| 7439-96-5 | MANGANESE | ug/l | 5720 | 66.9 | 965 | 402 |
| 7439-97-6 | MERCURY | ug/l | 0.101 J | 0.1 U | 0.145 J | 0.23 |
| 7440-02-0 | NICKEL | ug/l | 9.45 J | 8.21 J | 5.26 J | 11.2 J |
| 7440-09-7 | POTASSIUM | ug/l | 8800 | 4480 | 23800 | 6200 |
| 7782-49-2 | SELENIUM | ug/l | 5.26 J | 8.7 J | 4.8 U | 9.65 J |
| 7440-22-4 | SILVER | ug/l | 3.48 J | 1.25 U | 8.98 | 1.25 U |
| 7440-23-5 | SODIUM | ug/l | 191400 | 290100 | 379300 | 89000 |
| 7440-28-0 | THALLIUM | ug/l | 2.4 U | 2.4 U | 2.4 U | 2.4 U |
| 7440-62-2 | VANADIUM | ug/l | 5 U | 5 U | 5 U | 10.05 J |
| 7440-66-6 | ZINC | ug/l | 46.9 | 76.8 | 86.8 | 280 |
| 57-12-5 | CYANIDE | ug/l | 3 U | 3 U | 119 | 4 J |

| Consolidated Edison<br>Farrington Street Asahi Boring<br>Validated Groundwater Analytical Data<br>SDG: G2627 | | Location ID:<br>Sample ID:<br>Lab Sample Id:<br>Source:<br>SDG:<br>Matrix:<br>Sampled:<br>Validated: | MW-27<br>MW-27-20150609<br>G2627-10<br>CTECH<br>G2627<br>WATER<br>6/9/2015 14:50<br>7/30/2015 | MW-28<br>MW-28-20150611<br>G2627-15<br>CTECH<br>G2627<br>WATER<br>6/11/2015 9:55<br>7/30/2015 | MW-30<br>MW-30-20150611<br>G2627-17<br>CTECH<br>G2627<br>WATER<br>6/11/2015 13:30<br>7/30/2015 | MW-40<br>MW-40-20150609<br>G2627-08<br>CTECH<br>G2627<br>WATER<br>6/9/2015 11:25<br>7/30/2015 |
|---|---|---|---|---|---|---|
| CAS NO. | COMPOUND | UNITS: | | | | |
| | VOLATILES | | | | | |
| 71-55-6 | 1,1,1-TRICHLOROETHANE | ug/l | 0.4 U | 0.4 U | 0.4 U | 0.4 U |
| 79-34-5 | 1,1,2,2-TETRACHLOROETHANE | ug/l | 0.31 U | 0.31 U | 0.31 U | 0.31 U |
| 76-13-1 | 1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE | ug/l | 0.45 U | 0.45 U | 0.45 U | 0.45 U |
| 79-00-5 | 1,1,2-TRICHLOROETHANE | ug/l | 0.38 U | 0.38 U | 0.38 U | 0.38 U |
| 75-34-3 | 1,1-DICHLOROETHANE | ug/l | 0.36 U | 0.36 U | 0.36 U | 0.36 U |
| 75-35-4 | 1,1-DICHLOROETHENE | ug/l | 0.47 U | 0.47 U | 0.47 U | 0.47 U |
| 87-61-6 | 1,2,3-TRICHLOROBENZENE | ug/l | 0.2 U | 0.2 U | 0.2 U | 0.2 U |
| 120-82-1 | 1,2,4-TRICHLOROBENZENE | ug/l | 0.2 U | 0.2 U | 0.2 U | 0.2 U |
| 96-12-8 | 1,2-DIBROMO-3-CHLOROPROPANE | ug/l | 0.46 U | 0.46 U | 0.46 U | 0.46 U |
| 106-93-4 | 1,2-DIBROMOETHANE | ug/l | 0.41 U | 0.41 U | 0.41 U | 0.41 U |
| 95-50-1 | 1,2-DICHLOROBENZENE | ug/l | 0.45 U | 0.45 U | 0.45 U | 0.45 U |
| 107-06-2 | 1,2-DICHLOROETHANE | ug/l | 0.48 U | 0.48 U | 0.48 U | 0.48 U |
| 78-87-5 | 1,2-DICHLOROPROPANE | ug/l | 0.46 U | 0.46 U | 0.46 U | 0.46 U |
| 541-73-1 | 1,3-DICHLOROBENZENE | ug/l | 0.43 U | 0.43 U | 0.43 U | 0.43 U |
| 106-46-7 | 1,4-DICHLOROBENZENE | ug/l | 0.32 U | 0.32 U | 0.32 U | 0.32 U |
| 123-91-1 | 1,4-DIOXANE (P-DIOXANE) | ug/l | 100 U | 100 U | 100 U | 100 U |
| 591-78-6 | 2-HEXANONE | ug/l | 1.9 U | 1.9 U | 1.9 U | 1.9 U |
| 67-64-1 | ACETONE | ug/l | 0.5 U | 0.5 U | 0.5 U | 0.5 U |
| 71-43-2 | BENZENE | ug/l | 0.32 U | 0.32 U | 1.4 J | 0.55 J |
| 74-97-5 | BROMOCHLOROMETHANE | ug/l | 0.2 U | 0.2 U | 0.2 U | 0.2 U |
| 75-27-4 | BROMODICHLOROMETHANE | ug/l | 0.36 U | 0.36 U | 0.36 U | 0.36 U |
| 75-25-2 | BROMOFORM | ug/l | 0.47 U | 0.47 U | 0.47 U | 0.47 U |
| 74-83-9 | BROMOMETHANE | ug/l | 0.2 UJ | 0.2 UJ | 0.2 UJ | 0.2 UJ |
| 75-15-0 | CARBON DISULFIDE | ug/l | 0.2 U | 0.2 U | 0.2 U | 0.2 U |
| 56-23-5 | CARBON TETRACHLORIDE | ug/l | 0.2 U | 0.2 U | 0.2 U | 0.2 U |
| 108-90-7 | CHLOROBENZENE | ug/l | 0.49 U | 0.49 U | 0.49 U | 0.49 U |
| 75-00-3 | CHLOROETHANE | ug/l | 0.2 U | 0.2 U | 0.2 U | 0.2 U |
| 67-66-3 | CHLOROFORM | ug/l | 0.37 J | 0.34 U | 0.34 U | 0.34 U |
| 74-87-3 | CHLOROMETHANE | ug/l | 0.2 U | 0.2 U | 0.2 U | 0.2 U |
| 156-59-2 | CIS-1,2-DICHLOROETHYLENE | ug/l | 0.35 U | 3.5 J | 2.6 J | 1.3 J |
| 10061-01-5 | CIS-1,3-DICHLOROPROPENE | ug/l | 0.31 U | 0.31 U | 0.31 U | 0.31 U |
| 110-82-7 | CYCLOHEXANE | ug/l | 0.2 U | 0.2 U | 0.2 U | 0.2 U |
| 124-48-1 | DIBROMOCHLOROMETHANE | ug/l | 0.2 U | 0.2 U | 0.2 U | 0.2 U |
| 75-71-8 | DICHLORODIFLUOROMETHANE | ug/l | 0.2 U | 0.2 U | 0.2 U | 0.2 U |
| 100-41-4 | ETHYLBENZENE | ug/l | 0.2 U | 0.2 U | 0.2 U | 0.2 U |
| 98-82-8 | ISOPROPYLBENZENE (CUMENE) | ug/l | 0.45 U | 0.45 U | 1.1 J | 0.45 U |
| 179601-23-1 | M,P-XYLENE | ug/l | 0.95 U | 0.95 U | 0.95 U | 0.95 U |
| 79-20-9 | METHYL ACETATE | ug/l | 0.2 U | 0.2 U | 0.2 U | 0.2 U |
| 78-93-3 | METHYL ETHYL KETONE (2-BUTANONE) | ug/l | 1.3 U | 1.3 U | 1.3 U | 1.3 U |
| 108-10-1 | METHYL ISOBUTYL KETONE | ug/l | 2.1 U | 2.1 U | 2.1 U | 2.1 U |
| 108-87-2 | METHYLCYCLOHEXANE | ug/l | 0.2 U | 0.2 U | 0.2 U | 0.2 U |
| 75-09-2 | METHYLENE CHLORIDE | ug/l | 0.41 U | 0.41 U | 0.41 U | 0.41 U |
| 95-47-6 | O-XYLENE (1,2-DIMETHYLBENZENE) | ug/l | 0.43 U | 0.43 U | 0.43 U | 0.43 U |
| 100-42-5 | STYRENE | ug/l | 0.36 U | 0.36 U | 0.36 U | 0.36 U |
| 1634-04-4 | TERT-BUTYL METHYL ETHER | ug/l | 1 J | 1.6 J | 0.72 J | 0.61 J |
| 127-18-4 | TETRACHLOROETHYLENE(PCE) | ug/l | 1.2 J | 29.9 | 0.96 J | 0.27 U |
| 108-88-3 | TOLUENE | ug/l | 0.37 J | 0.37 U | 0.48 J | 0.37 U |
| 156-60-5 | TRANS-1,2-DICHLOROETHENE | ug/l | 0.41 U | 0.41 U | 4.1 J | 1.4 J |
| 10061-02-6 | TRANS-1,3-DICHLOROPROPENE | ug/l | 0.29 U | 0.29 U | 0.29 U | 0.29 U |
| 79-01-6 | TRICHLOROETHYLENE (TCE) | ug/l | 0.31 J | 2.5 J | 3.3 J | 0.28 U |
| 75-69-4 | TRICHLOROFLUOROMETHANE | ug/l | 0.35 U | 0.35 U | 0.35 U | 0.35 U |
| 75-01-4 | VINYL CHLORIDE | ug/l | 0.34 U | 0.34 U | 0.34 U | 0.34 U |

| Consolidated Edison<br>Farrington Street Asahi Boring<br>Validated Groundwater Analytical Data<br>SDG: G2627 | | Location ID:<br>Sample ID:<br>Lab Sample Id:<br>Source:<br>SDG:<br>Matrix:<br>Sampled:<br>Validated: | MW-27<br>MW-27-20150609<br>G2627-10<br>CTECH<br>G2627<br>WATER<br>6/9/2015 14:50<br>7/30/2015 | MW-28<br>MW-28-20150611<br>G2627-15<br>CTECH<br>G2627<br>WATER<br>6/11/2015 9:55<br>7/30/2015 | MW-30<br>MW-30-20150611<br>G2627-17<br>CTECH<br>G2627<br>WATER<br>6/11/2015 13:30<br>7/30/2015 | MW-40<br>MW-40-20150609<br>G2627-08<br>CTECH<br>G2627<br>WATER<br>6/9/2015 11:25<br>7/30/2015 |
|---|---|---|---|---|---|---|
| CAS NO. | COMPOUND | UNITS: | | | | |
| | SEMIVOLATILES | | | | | |
| 95-94-3 | 1,2,4,5-TETRACHLOROBENZENE | ug/l | 0.21 U | 0.21 U | 0.21 U | 0.21 U |
| 58-90-2 | 2,3,4,6-TETRACHLOROPHENOL | ug/l | 0.21 U | 0.21 U | 0.21 U | 0.21 U |
| 95-95-4 | 2,4,5-TRICHLOROPHENOL | ug/l | 0.42 U | 0.42 U | 0.41 U | 0.41 U |
| 88-06-2 | 2,4,6-TRICHLOROPHENOL | ug/l | 0.58 U | 0.58 U | 0.58 U | 0.58 U |
| 120-83-2 | 2,4-DICHLOROPHENOL | ug/l | 0.69 U | 0.69 U | 0.68 U | 0.68 U |
| 105-67-9 | 2,4-DIMETHYLPHENOL | ug/l | 0.74 U | 0.74 U | 0.73 U | 0.73 U |
| 51-28-5 | 2,4-DINITROPHENOL | ug/l | 2.2 U | 2.2 U | 2.2 U | 2.2 U |
| 121-14-2 | 2,4-DINITROTOLUENE | ug/l | 1 U | 1 U | 1 U | 1 U |
| 606-20-2 | 2,6-DINITROTOLUENE | ug/l | 0.33 U | 0.33 U | 0.33 U | 0.33 U |
| 91-58-7 | 2-CHLORONAPHTHALENE | ug/l | 0.17 U | 0.17 U | 0.16 U | 0.16 U |
| 95-57-8 | 2-CHLOROPHENOL | ug/l | 0.56 U | 0.56 U | 0.56 U | 0.56 U |
| 91-57-6 | 2-METHYLNAPHTHALENE | ug/l | 0.33 U | 0.33 U | 0.33 U | 0.33 U |
| 95-48-7 | 2-METHYLPHENOL (O-CRESOL) | ug/l | 0.25 U | 0.25 U | 0.25 U | 0.25 U |
| 88-74-4 | 2-NITROANILINE | ug/l | 0.51 U | 0.51 U | 0.51 U | 0.51 U |
| 88-75-5 | 2-NITROPHENOL | ug/l | 0.54 U | 0.54 U | 0.54 U | 0.54 U |
| MEPH3MEPH | 3- AND 4- METHYLPHENOL (TOTAL) | ug/l | 0.4 U | 0.4 U | 0.39 U | 0.39 U |
| 91-94-1 | 3,3'-DICHLOROBENZIDINE | ug/l | 1 U | 1 U | 1 U | 1 U |
| 99-09-2 | 3-NITROANILINE | ug/l | 1 U | 1 U | 1 U | 1 U |
| 534-52-1 | 4,6-DINITRO-2-METHYLPHENOL | ug/l | 0.77 U | 0.77 U | 0.76 U | 0.76 U |
| 101-55-3 | 4-BROMOPHENYL PHENYL ETHER | ug/l | 0.24 U | 0.24 U | 0.24 U | 0.24 U |
| 59-50-7 | 4-CHLORO-3-METHYLPHENOL | ug/l | 0.42 U | 0.42 U | 0.41 U | 0.41 U |
| 106-47-8 | 4-CHLOROANILINE | ug/l | 1 U | 1 U | 1 U | 1 U |
| 7005-72-3 | 4-CHLOROPHENYL PHENYL ETHER | ug/l | 0.22 U | 0.22 U | 0.22 U | 0.22 U |
| 100-01-6 | 4-NITROANILINE | ug/l | 1.4 U | 1.4 U | 1.4 U | 1.4 U |
| 100-02-7 | 4-NITROPHENOL | ug/l | 2.1 U | 2.1 U | 2.1 U | 2.1 U |
| 83-32-9 | ACENAPHTHENE | ug/l | 0.22 U | 0.22 U | 0.22 U | 3.2 J |
| 208-96-8 | ACENAPHTHYLENE | ug/l | 0.73 U | 0.73 U | 0.72 U | 0.72 U |
| 98-86-2 | ACETOPHENONE | ug/l | 0.15 U | 0.15 U | 0.14 U | 0.14 U |
| 120-12-7 | ANTHRACENE | ug/l | 0.17 U | 0.17 U | 0.16 U | 0.16 U |
| 1912-24-9 | ATRAZINE | ug/l | 0.42 U | 0.42 U | 0.41 U | 0.41 U |
| 100-52-7 | BENZALDEHYDE | ug/l | 0.8 U | 0.8 U | 0.79 U | 0.79 U |
| 56-55-3 | BENZO(A)ANTHRACENE | ug/l | 0.17 U | 0.17 U | 0.16 U | 0.16 U |
| 50-32-8 | BENZO(A)PYRENE | ug/l | 0.15 U | 0.15 U | 0.14 U | 0.14 U |
| 205-99-2 | BENZO(B)FLUORANTHENE | ug/l | 0.3 U | 0.3 U | 0.3 U | 0.3 U |
| 191-24-2 | BENZO(G,H,I)PERYLENE | ug/l | 0.3 U | 0.3 U | 0.3 U | 0.3 U |
| 207-08-9 | BENZO(K)FLUORANTHENE | ug/l | 0.19 U | 0.19 U | 0.19 U | 0.19 U |
| 85-68-7 | BENZYL BUTYL PHTHALATE | ug/l | 0.2 U | 0.2 U | 0.2 U | 0.2 U |
| 92-52-4 | BIPHENYL (DIPHENYL) | ug/l | 0.16 U | 0.16 U | 0.15 U | 0.15 U |
| 111-91-1 | BIS(2-CHLOROETHOXY) METHANE | ug/l | 0.57 U | 0.57 U | 0.57 U | 0.57 U |
| 111-44-4 | BIS(2-CHLOROETHYL) ETHER | ug/l | 0.57 U | 0.57 U | 0.57 U | 0.57 U |
| 108-60-1 | BIS(2-CHLOROISOPROPYL) ETHER | ug/l | 0.18 U | 0.18 U | 0.18 U | 0.18 U |
| 117-81-7 | BIS(2-ETHYLHEXYL) PHTHALATE | ug/l | 0.17 U | 0.17 U | 0.16 U | 0.16 U |
| 105-60-2 | CAPROLACTAM | ug/l | 1 U | 1 U | 1 U | 1 U |
| 86-74-8 | CARBAZOLE | ug/l | 0.23 U | 0.23 U | 0.23 U | 0.23 U |
| 218-01-9 | CHRYSENE | ug/l | 0.19 U | 0.19 U | 0.19 U | 0.19 U |
| 53-70-3 | DIBENZ(A,H)ANTHRACENE | ug/l | 0.44 U | 0.44 U | 0.43 U | 0.43 U |
| 132-64-9 | DIBENZOFURAN | ug/l | 0.25 U | 0.25 U | 0.25 U | 0.25 U |
| 84-66-2 | DIETHYL PHTHALATE | ug/l | 0.4 U | 0.4 U | 0.39 U | 0.39 U |
| 131-11-3 | DIMETHYL PHTHALATE | ug/l | 0.23 U | 0.23 U | 0.23 U | 0.23 U |
| 84-74-2 | DI-N-BUTYL PHTHALATE | ug/l | 1 U | 1 U | 1 U | 1 U |
| 117-84-0 | DI-N-OCTYLPHTHALATE | ug/l | 0.53 U | 0.53 U | 0.53 U | 0.53 U |
| 206-44-0 | FLUORANTHENE | ug/l | 0.42 U | 0.42 U | 2.2 J | 0.41 U |
| 86-73-7 | FLUORENE | ug/l | 0.32 U | 0.32 U | 0.32 U | 0.32 U |
| 118-74-1 | HEXACHLOROBENZENE | ug/l | 0.19 U | 0.19 U | 0.19 U | 0.19 U |
| 87-68-3 | HEXACHLOROBUTADIENE | ug/l | 0.26 U | 0.26 U | 0.26 U | 0.26 U |
| 77-47-4 | HEXACHLOROCYCLOPENTADIENE | ug/l | 0.25 UJ | 0.25 UJ | 0.25 UJ | 0.25 UJ |
| 67-72-1 | HEXACHLOROETHANE | ug/l | 0.26 U | 0.26 U | 0.26 U | 0.26 U |
| 193-39-5 | INDENO(1,2,3-C,D)PYRENE | ug/l | 0.16 U | 0.16 U | 0.15 U | 0.15 U |
| 78-59-1 | ISOPHORONE | ug/l | 0.31 U | 0.31 U | 0.31 U | 0.31 U |
| 91-20-3 | NAPHTHALENE | ug/l | 0.13 U | 0.13 U | 0.12 U | 0.12 U |
| 98-95-3 | NITROBENZENE | ug/l | 0.71 U | 0.71 U | 0.7 U | 0.7 U |
| 621-64-7 | N-NITROSODI-N-PROPYLAMINE | ug/l | 0.21 U | 0.21 U | 0.21 U | 0.21 U |
| 86-30-6 | N-NITROSODIPHENYLAMINE | ug/l | 0.63 U | 0.63 U | 0.62 U | 0.62 U |
| 87-86-5 | PENTACHLOROPHENOL | ug/l | 1 U | 1 U | 1 U | 1 U |
| 85-01-8 | PHENANTHRENE | ug/l | 0.27 U | 0.27 U | 3.2 J | 0.27 U |
| 108-95-2 | PHENOL | ug/l | 0.22 U | 0.22 U | 0.22 U | 0.22 U |
| 129-00-0 | PYRENE | ug/l | 0.21 U | 0.21 U | 2.5 J | 0.21 U |

| Consolidated Edison<br>Farrington Street Asahi Boring<br>Validated Groundwater Analytical Data<br>SDG: G2627 | | Location ID:<br>Sample ID:<br>Lab Sample Id:<br>Source:<br>SDG:<br>Matrix:<br>Sampled:<br>Validated: | MW-27<br>MW-27-20150609<br>G2627-10<br>CTECH<br>G2627<br>WATER<br>6/9/2015 14:50<br>7/30/2015 | MW-28<br>MW-28-20150611<br>G2627-15<br>CTECH<br>G2627<br>WATER<br>6/11/2015 9:55<br>7/30/2015 | MW-30<br>MW-30-20150611<br>G2627-17<br>CTECH<br>G2627<br>WATER<br>6/11/2015 13:30<br>7/30/2015 | MW-40<br>MW-40-20150609<br>G2627-08<br>CTECH<br>G2627<br>WATER<br>6/9/2015 11:25<br>7/30/2015 |
|---|---|---|---|---|---|---|
| CAS NO. | COMPOUND | UNITS: | | | | |
| | INORGANICS | | | | | |
| 7429-90-5 | ALUMINUM | ug/l | 4290 | 1440 | 502 | 90 |
| 7440-36-0 | ANTIMONY | ug/l | 6.25 U | 6.25 U | 6.25 U | 6.25 U |
| 7440-38-2 | ARSENIC | ug/l | 2.5 U | 2.5 U | 2.5 U | 2.5 U |
| 7440-39-3 | BARIUM | ug/l | 148 | 100 | 426 | 453 |
| 7440-41-7 | BERYLLIUM | ug/l | 0.7 U | 0.7 U | 0.7 U | 0.7 U |
| 7440-43-9 | CADMIUM | ug/l | 0.515 J | 0.5 U | 1.94 J | 2.59 J |
| 7440-70-2 | CALCIUM | ug/l | 45900 | 68000 | 102600 | 121100 |
| 7440-47-3 | CHROMIUM, TOTAL | ug/l | 16.2 | 11.2 | 4.62 J | 1.1 U |
| 7440-48-4 | COBALT | ug/l | 5.86 J | 3.75 U | 4.85 J | 3.75 U |
| 7440-50-8 | COPPER | ug/l | 9.21 J | 6.72 J | 3.96 J | 2 U |
| 7439-89-6 | IRON | ug/l | 8530 | 2310 | 45200 | 65700 |
| 7439-92-1 | LEAD | ug/l | 1.5 U | 1.5 U | 1.5 U | 1.5 U |
| 7439-95-4 | MAGNESIUM | ug/l | 13400 | 20800 | 46300 | 23500 |
| 7439-96-5 | MANGANESE | ug/l | 865 | 794 | 1710 | 1840 |
| 7439-97-6 | MERCURY | ug/l | 0.1 U | 0.1 U | 0.1 U | 0.1 U |
| 7440-02-0 | NICKEL | ug/l | 25.9 | 21.8 | 12.4 J | 4.88 J |
| 7440-09-7 | POTASSIUM | ug/l | 6040 | 5780 | 15300 | 12800 |
| 7782-49-2 | SELENIUM | ug/l | 5.9 J | 9.45 J | 4.8 U | 4.8 U |
| 7440-22-4 | SILVER | ug/l | 1.25 U | 1.25 U | 4.64 J | 6.9 |
| 7440-23-5 | SODIUM | ug/l | 79400 | 153500 | 214700 | 219400 |
| 7440-28-0 | THALLIUM | ug/l | 2.4 U | 2.4 U | 2.4 U | 2.4 U |
| 7440-62-2 | VANADIUM | ug/l | 11.2 J | 5 U | 5 U | 5 U |
| 7440-66-6 | ZINC | ug/l | 80 | 79.6 | 7.28 J | 34.7 |
| 57-12-5 | CYANIDE | ug/l | 3 U | 3 U | 2 J | 12 |

| Consolidated Edison<br>Farrington Street Asahi Boring<br>Validated Groundwater Analytical Data<br>SDG: G2627 | | | | | | | |
|---|---|---|---|---|---|---|---|
| | | Location ID: | MW-41 | MW-41 | MW-CSB-60 | FIELDQC | |
| | | Sample ID: | MW-41-20150608 | MW-141-20150608 | MW-CSB-60-20150609 | FB061115-20150611 | |
| | | Lab Sample Id: | G2627-01 | G2627-04 | G2627-06 | G2627-19 | |
| | | Source: | CTECH | CTECH | CTECH | CTECH | |
| | | SDG: | G2627 | G2627 | G2627 | G2627 | |
| | | Matrix: | WATER | WATER | WATER | WATER | |
| | | Sampled: | 6/8/2015 14:40 | 6/8/2015 14:40 | 6/9/2015 8:00 | 6/11/2015 15:30 | |
| | | Validated: | 7/30/2015 | 7/30/2015 | 7/30/2015 | 7/30/2015 | |
| CAS NO. | COMPOUND | UNITS: | | | | | |
| | VOLATILES | | | | | | |
| 71-55-6 | 1,1,1-TRICHLOROETHANE | ug/l | 0.4 U | 0.4 U | 0.4 U | 0.4 U | |
| 79-34-5 | 1,1,2,2-TETRACHLOROETHANE | ug/l | 0.31 U | 0.31 U | 0.31 U | 0.31 U | |
| 76-13-1 | 1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE | ug/l | 0.45 U | 0.45 U | 0.45 U | 0.45 U | |
| 79-00-5 | 1,1,2-TRICHLOROETHANE | ug/l | 0.38 U | 0.38 U | 0.38 U | 0.38 U | |
| 75-34-3 | 1,1-DICHLOROETHANE | ug/l | 0.36 U | 0.36 U | 0.36 U | 0.36 U | |
| 75-35-4 | 1,1-DICHLOROETHENE | ug/l | 0.47 U | 0.47 U | 0.47 U | 0.47 U | |
| 87-61-6 | 1,2,3-TRICHLOROBENZENE | ug/l | 0.2 U | 0.2 U | 0.2 U | 0.2 U | |
| 120-82-1 | 1,2,4-TRICHLOROBENZENE | ug/l | 0.2 U | 0.2 U | 0.2 U | 0.2 U | |
| 96-12-8 | 1,2-DIBROMO-3-CHLOROPROPANE | ug/l | 0.46 U | 0.46 U | 0.46 U | 0.46 U | |
| 106-93-4 | 1,2-DIBROMOETHANE | ug/l | 0.41 U | 0.41 U | 0.41 U | 0.41 U | |
| 95-50-1 | 1,2-DICHLOROBENZENE | ug/l | 0.45 U | 0.45 U | 0.45 U | 0.45 U | |
| 107-06-2 | 1,2-DICHLOROETHANE | ug/l | 0.48 U | 0.48 U | 0.48 U | 0.48 U | |
| 78-87-5 | 1,2-DICHLOROPROPANE | ug/l | 0.46 U | 0.46 U | 0.46 U | 0.46 U | |
| 541-73-1 | 1,3-DICHLOROBENZENE | ug/l | 0.43 U | 0.43 U | 0.43 U | 0.43 U | |
| 106-46-7 | 1,4-DICHLOROBENZENE | ug/l | 0.32 U | 0.32 U | 0.32 U | 0.32 U | |
| 123-91-1 | 1,4-DIOXANE (P-DIOXANE) | ug/l | 100 U | 100 U | 100 U | 100 U | |
| 591-78-6 | 2-HEXANONE | ug/l | 1.9 U | 1.9 U | 1.9 U | 1.9 U | |
| 67-64-1 | ACETONE | ug/l | 0.5 U | 0.5 U | 0.5 U | 0.5 U | |
| 71-43-2 | BENZENE | ug/l | 0.32 U | 0.32 U | 0.32 U | 0.32 U | |
| 74-97-5 | BROMOCHLOROMETHANE | ug/l | 0.2 U | 0.2 U | 0.2 U | 0.2 U | |
| 75-27-4 | BROMODICHLOROMETHANE | ug/l | 0.36 U | 0.36 U | 0.36 U | 0.36 U | |
| 75-25-2 | BROMOFORM | ug/l | 0.47 U | 0.47 U | 0.47 U | 0.47 U | |
| 74-83-9 | BROMOMETHANE | ug/l | 0.2 UJ | 0.2 UJ | 0.2 UJ | 0.2 UJ | |
| 75-15-0 | CARBON DISULFIDE | ug/l | 0.2 U | 0.2 U | 0.2 U | 0.2 U | |
| 56-23-5 | CARBON TETRACHLORIDE | ug/l | 0.2 U | 0.2 U | 0.2 U | 0.2 U | |
| 108-90-7 | CHLOROBENZENE | ug/l | 0.59 J | 0.49 U | 0.49 U | 0.49 U | |
| 75-00-3 | CHLOROETHANE | ug/l | 0.2 U | 0.2 U | 0.2 U | 0.2 U | |
| 67-66-3 | CHLOROFORM | ug/l | 0.34 U | 0.34 U | 0.34 U | 0.34 U | |
| 74-87-3 | CHLOROMETHANE | ug/l | 0.2 U | 0.2 U | 0.2 U | 0.2 U | |
| 156-59-2 | CIS-1,2-DICHLOROETHYLENE | ug/l | 0.35 U | 0.35 U | 0.35 U | 0.35 U | |
| 10061-01-5 | CIS-1,3-DICHLOROPROPENE | ug/l | 0.31 U | 0.31 U | 0.31 U | 0.31 U | |
| 110-82-7 | CYCLOHEXANE | ug/l | 0.2 U | 0.2 U | 0.2 U | 0.2 U | |
| 124-48-1 | DIBROMOCHLOROMETHANE | ug/l | 0.2 U | 0.2 U | 0.2 U | 0.2 U | |
| 75-71-8 | DICHLORODIFLUOROMETHANE | ug/l | 0.2 U | 0.2 U | 0.2 U | 0.2 U | |
| 100-41-4 | ETHYLBENZENE | ug/l | 0.2 U | 0.2 U | 0.2 U | 0.2 U | |
| 98-82-8 | ISOPROPYLBENZENE (CUMENE) | ug/l | 0.45 U | 0.45 U | 0.45 U | 0.45 U | |
| 179601-23-1 | M,P-XYLENE | ug/l | 0.95 U | 0.95 U | 0.95 U | 0.95 U | |
| 79-20-9 | METHYL ACETATE | ug/l | 0.2 U | 0.2 U | 0.2 U | 0.2 U | |
| 78-93-3 | METHYL ETHYL KETONE (2-BUTANONE) | ug/l | 1.3 U | 1.3 U | 1.3 U | 1.3 U | |
| 108-10-1 | METHYL ISOBUTYL KETONE | ug/l | 2.1 U | 2.1 U | 2.1 U | 2.1 U | |
| 108-87-2 | METHYLCYCLOHEXANE | ug/l | 0.2 U | 0.2 U | 0.2 U | 0.2 U | |
| 75-09-2 | METHYLENE CHLORIDE | ug/l | 0.41 U | 0.41 U | 0.41 U | 0.41 U | |
| 95-47-6 | O-XYLENE (1,2-DIMETHYLBENZENE) | ug/l | 0.43 U | 0.43 U | 0.43 U | 0.43 U | |
| 100-42-5 | STYRENE | ug/l | 0.36 U | 0.36 U | 0.36 U | 0.36 U | |
| 1634-04-4 | TERT-BUTYL METHYL ETHER | ug/l | 0.35 U | 0.35 U | 0.41 J | 0.35 U | |
| 127-18-4 | TETRACHLOROETHYLENE(PCE) | ug/l | 0.27 U | 0.27 U | 0.27 U | 0.27 U | |
| 108-88-3 | TOLUENE | ug/l | 0.38 J | 0.37 U | 0.37 U | 0.37 U | |
| 156-60-5 | TRANS-1,2-DICHLOROETHENE | ug/l | 0.41 U | 0.41 U | 0.41 U | 0.41 U | |
| 10061-02-6 | TRANS-1,3-DICHLOROPROPENE | ug/l | 0.29 U | 0.29 U | 0.29 U | 0.29 U | |
| 79-01-6 | TRICHLOROETHYLENE (TCE) | ug/l | 0.28 U | 0.28 U | 0.28 U | 0.28 U | |
| 75-69-4 | TRICHLOROFLUOROMETHANE | ug/l | 0.35 U | 0.35 U | 0.35 U | 0.35 U | |
| 75-01-4 | VINYL CHLORIDE | ug/l | 0.34 U | 0.34 U | 0.34 U | 0.34 U | |

| Consolidated Edison<br>Farrington Street Asahi Boring<br>Validated Groundwater Analytical Data<br>SDG: G2627 | | Location ID:<br>Sample ID:<br>Lab Sample Id:<br>Source:<br>SDG:<br>Matrix:<br>Sampled:<br>Validated: | MW-41<br>MW-41-20150608<br>G2627-01<br>CTECH<br>G2627<br>WATER<br>6/8/2015 14:40<br>7/30/2015 | Dup of MW-41-20150608<br>MW-41<br>MW-141-20150608<br>G2627-04<br>CTECH<br>G2627<br>WATER<br>6/8/2015 14:40<br>7/30/2015 | MW-CSB-60<br>MW-CSB-60-20150609<br>G2627-06<br>CTECH<br>G2627<br>WATER<br>6/9/2015 8:00<br>7/30/2015 | FIELDQC<br>FB061115-20150611<br>G2627-19<br>CTECH<br>G2627<br>WATER<br>6/11/2015 15:30<br>7/30/2015 |
|---|---|---|---|---|---|---|
| CAS NO. | COMPOUND | UNITS: | | | | |
| | SEMIVOLATILES | | | | | |
| 95-94-3 | 1,2,4,5-TETRACHLOROBENZENE | ug/l | 0.21 U | 0.21 U | 0.2 U | 0.21 U |
| 58-90-2 | 2,3,4,6-TETRACHLOROPHENOL | ug/l | 0.21 U | 0.21 U | 0.2 U | 0.21 U |
| 95-95-4 | 2,4,5-TRICHLOROPHENOL | ug/l | 0.42 U | 0.42 U | 0.41 U | 0.42 U |
| 88-06-2 | 2,4,6-TRICHLOROPHENOL | ug/l | 0.58 U | 0.58 U | 0.57 U | 0.58 U |
| 120-83-2 | 2,4-DICHLOROPHENOL | ug/l | 0.69 U | 0.69 U | 0.67 U | 0.69 U |
| 105-67-9 | 2,4-DIMETHYLPHENOL | ug/l | 0.74 U | 0.74 U | 0.72 U | 0.74 U |
| 51-28-5 | 2,4-DINITROPHENOL | ug/l | 2.2 UJ | 2.2 UJ | 2.1 UJ | 2.2 U |
| 121-14-2 | 2,4-DINITROTOLUENE | ug/l | 1 U | 1 U | 1 U | 1 U |
| 606-20-2 | 2,6-DINITROTOLUENE | ug/l | 0.33 U | 0.33 U | 0.33 U | 0.33 U |
| 91-58-7 | 2-CHLORONAPHTHALENE | ug/l | 0.17 U | 0.17 U | 0.16 U | 0.17 U |
| 95-57-8 | 2-CHLOROPHENOL | ug/l | 0.56 U | 0.56 U | 0.55 U | 0.56 U |
| 91-57-6 | 2-METHYLNAPHTHALENE | ug/l | 0.33 U | 0.33 U | 0.33 U | 0.33 U |
| 95-48-7 | 2-METHYLPHENOL (O-CRESOL) | ug/l | 0.25 U | 0.25 U | 0.24 U | 0.25 U |
| 88-74-4 | 2-NITROANILINE | ug/l | 0.51 U | 0.51 U | 0.5 U | 0.51 U |
| 88-75-5 | 2-NITROPHENOL | ug/l | 0.54 U | 0.54 U | 0.53 U | 0.54 U |
| MEPH3MEPH | 3- AND 4- METHYLPHENOL (TOTAL) | ug/l | 0.4 U | 0.4 U | 0.39 U | 0.4 U |
| 91-94-1 | 3,3'-DICHLOROBENZIDINE | ug/l | 1 U | 1 U | 1 U | 1 U |
| 99-09-2 | 3-NITROANILINE | ug/l | 1 U | 1 U | 1 U | 1 U |
| 534-52-1 | 4,6-DINITRO-2-METHYLPHENOL | ug/l | 0.77 U | 0.77 U | 0.76 U | 0.77 U |
| 101-55-3 | 4-BROMOPHENYL PHENYL ETHER | ug/l | 0.24 U | 0.24 U | 0.23 U | 0.24 U |
| 59-50-7 | 4-CHLORO-3-METHYLPHENOL | ug/l | 0.42 U | 0.42 U | 0.41 U | 0.42 U |
| 106-47-8 | 4-CHLOROANILINE | ug/l | 1 U | 1 U | 1 U | 1 U |
| 7005-72-3 | 4-CHLOROPHENYL PHENYL ETHER | ug/l | 0.22 U | 0.22 U | 0.21 U | 0.22 U |
| 100-01-6 | 4-NITROANILINE | ug/l | 1.4 U | 1.4 U | 1.4 U | 1.4 U |
| 100-02-7 | 4-NITROPHENOL | ug/l | 2.1 U | 2.1 U | 2 U | 2.1 U |
| 83-32-9 | ACENAPHTHENE | ug/l | 0.22 U | 0.22 U | 0.21 U | 0.22 U |
| 208-96-8 | ACENAPHTHYLENE | ug/l | 0.73 U | 0.73 U | 0.71 U | 0.73 U |
| 98-86-2 | ACETOPHENONE | ug/l | 0.15 U | 0.15 U | 0.14 U | 0.15 U |
| 120-12-7 | ANTHRACENE | ug/l | 0.17 U | 0.17 U | 0.16 U | 0.17 U |
| 1912-24-9 | ATRAZINE | ug/l | 0.42 U | 0.42 U | 0.41 U | 0.42 U |
| 100-52-7 | BENZALDEHYDE | ug/l | 0.8 U | 0.8 U | 0.79 U | 0.8 U |
| 56-55-3 | BENZO(A)ANTHRACENE | ug/l | 0.17 U | 0.17 U | 0.16 U | 0.17 U |
| 50-32-8 | BENZO(A)PYRENE | ug/l | 0.15 U | 0.15 U | 0.14 U | 0.15 U |
| 205-99-2 | BENZO(B)FLUORANTHENE | ug/l | 0.3 U | 0.3 U | 0.3 U | 0.3 U |
| 191-24-2 | BENZO(G,H,I)PERYLENE | ug/l | 0.3 U | 0.3 U | 0.3 U | 0.3 U |
| 207-08-9 | BENZO(K)FLUORANTHENE | ug/l | 0.19 U | 0.19 U | 0.18 U | 0.19 U |
| 85-68-7 | BENZYL BUTYL PHTHALATE | ug/l | 0.2 U | 0.2 U | 0.19 U | 0.2 U |
| 92-52-4 | BIPHENYL (DIPHENYL) | ug/l | 0.16 U | 0.16 U | 0.15 U | 0.16 U |
| 111-91-1 | BIS(2-CHLOROETHOXY) METHANE | ug/l | 0.57 U | 0.57 U | 0.56 U | 0.57 U |
| 111-44-4 | BIS(2-CHLOROETHYL) ETHER | ug/l | 0.57 U | 0.57 U | 0.56 U | 0.57 U |
| 108-60-1 | BIS(2-CHLOROISOPROPYL) ETHER | ug/l | 0.18 U | 0.18 U | 0.17 U | 0.18 U |
| 117-81-7 | BIS(2-ETHYLHEXYL) PHTHALATE | ug/l | 0.17 U | 0.17 U | 0.16 U | 0.17 U |
| 105-60-2 | CAPROLACTAM | ug/l | 1 U | 1 U | 1 U | 1 U |
| 86-74-8 | CARBAZOLE | ug/l | 0.23 U | 0.23 U | 0.22 U | 0.23 U |
| 218-01-9 | CHRYSENE | ug/l | 0.19 U | 0.19 U | 0.18 U | 0.19 U |
| 53-70-3 | DIBENZ(A,H)ANTHRACENE | ug/l | 0.44 U | 0.44 U | 0.43 U | 0.44 U |
| 132-64-9 | DIBENZOFURAN | ug/l | 0.25 U | 0.25 U | 0.24 U | 0.25 U |
| 84-66-2 | DIETHYL PHTHALATE | ug/l | 0.4 U | 0.4 U | 0.39 U | 0.4 U |
| 131-11-3 | DIMETHYL PHTHALATE | ug/l | 0.23 U | 0.23 U | 0.22 U | 0.23 U |
| 84-74-2 | DI-N-BUTYL PHTHALATE | ug/l | 1 U | 1 U | 1 U | 1 U |
| 117-84-0 | DI-N-OCTYLPHTHALATE | ug/l | 0.53 U | 0.53 U | 0.52 U | 0.53 U |
| 206-44-0 | FLUORANTHENE | ug/l | 0.42 U | 0.42 U | 0.41 U | 0.42 U |
| 86-73-7 | FLUORENE | ug/l | 0.32 U | 0.32 U | 0.32 U | 0.32 U |
| 118-74-1 | HEXACHLOROBENZENE | ug/l | 0.19 U | 0.19 U | 0.18 U | 0.19 U |
| 87-68-3 | HEXACHLOROBUTADIENE | ug/l | 0.26 U | 0.26 U | 0.26 U | 0.26 U |
| 77-47-4 | HEXACHLOROCYCLOPENTADIENE | ug/l | 0.25 UJ | 0.25 UJ | 0.24 UJ | 0.25 UJ |
| 67-72-1 | HEXACHLOROETHANE | ug/l | 0.26 U | 0.26 U | 0.26 U | 0.26 U |
| 193-39-5 | INDENO(1,2,3-C,D)PYRENE | ug/l | 0.16 U | 0.16 U | 0.15 U | 0.16 U |
| 78-59-1 | ISOPHORONE | ug/l | 0.31 U | 0.31 U | 0.31 U | 0.31 U |
| 91-20-3 | NAPHTHALENE | ug/l | 0.13 U | 0.13 U | 0.12 U | 0.13 U |
| 98-95-3 | NITROBENZENE | ug/l | 0.71 U | 0.71 U | 0.69 U | 0.71 U |
| 621-64-7 | N-NITROSODI-N-PROPYLAMINE | ug/l | 0.21 U | 0.21 U | 0.2 U | 0.21 U |
| 86-30-6 | N-NITROSODIPHENYLAMINE | ug/l | 0.63 U | 0.63 U | 0.61 U | 0.63 U |
| 87-86-5 | PENTACHLOROPHENOL | ug/l | 1 U | 1 U | 1 U | 1 U |
| 85-01-8 | PHENANTHRENE | ug/l | 0.27 U | 0.27 U | 0.27 U | 0.27 U |
| 108-95-2 | PHENOL | ug/l | 0.22 U | 0.22 U | 0.21 U | 0.22 U |
| 129-00-0 | PYRENE | ug/l | 0.21 U | 0.21 U | 0.2 U | 0.21 U |

| Consolidated Edison<br>Farrington Street Asahi Boring<br>Validated Groundwater Analytical Data<br>SDG: G2627 | | | | Dup of MW-41-20150608 | | |
|---|---|---|---|---|---|---|
| | | Location ID: | MW-41 | MW-41 | MW-CSB-60 | FIELDQC |
| | | Sample ID: | MW-41-20150608 | MW-141-20150608 | MW-CSB-60-20150609 | FB061115-20150611 |
| | | Lab Sample Id: | G2627-01 | G2627-04 | G2627-06 | G2627-19 |
| | | Source: | CTECH | CTECH | CTECH | CTECH |
| | | SDG: | G2627 | G2627 | G2627 | G2627 |
| | | Matrix: | WATER | WATER | WATER | WATER |
| | | Sampled: | 6/8/2015 14:40 | 6/8/2015 14:40 | 6/9/2015 8:00 | 6/11/2015 15:30 |
| | | Validated: | 7/30/2015 | 7/30/2015 | 7/30/2015 | 7/30/2015 |
| CAS NO. | COMPOUND | UNITS: | | | | |
| | INORGANICS | | | | | |
| 7429-90-5 | ALUMINUM | ug/l | 128 J | 729 J | 194 | 15 J |
| 7440-36-0 | ANTIMONY | ug/l | 6.25 U | 6.25 U | 6.25 U | 6.25 U |
| 7440-38-2 | ARSENIC | ug/l | 15.4 J | 77.7 J | 2.5 U | 2.5 U |
| 7440-39-3 | BARIUM | ug/l | 817 | 909 | 572 | 4 U |
| 7440-41-7 | BERYLLIUM | ug/l | 0.7 U | 0.7 U | 0.7 U | 0.7 U |
| 7440-43-9 | CADMIUM | ug/l | 1.34 J | 3.82 J | 1.75 J | 0.5 U |
| 7440-70-2 | CALCIUM | ug/l | 172100 | 159100 | 137800 | 717 J |
| 7440-47-3 | CHROMIUM, TOTAL | ug/l | 1.1 U | 2.88 J | 1.59 J | 1.1 U |
| 7440-48-4 | COBALT | ug/l | 3.75 U | 4.11 J | 3.75 U | 3.75 U |
| 7440-50-8 | COPPER | ug/l | 2 U | 2 U | 2 U | 2 U |
| 7439-89-6 | IRON | ug/l | 18500 J | 45400 J | 36900 | 16 J |
| 7439-92-1 | LEAD | ug/l | 1.5 UJ | 8.92 J | 1.91 J | 1.5 U |
| 7439-95-4 | MAGNESIUM | ug/l | 55500 | 50800 | 16500 | 205 J |
| 7439-96-5 | MANGANESE | ug/l | 2590 | 2440 | 1290 | 1.7 U |
| 7439-97-6 | MERCURY | ug/l | 0.1 U | 0.175 J | 0.1 U | 0.1 U |
| 7440-02-0 | NICKEL | ug/l | 4.83 J | 7.41 J | 4.2 U | 4.2 U |
| 7440-09-7 | POTASSIUM | ug/l | 35200 | 32600 | 24200 | 91.1 J |
| 7782-49-2 | SELENIUM | ug/l | 7.91 J | 4.8 U | 4.8 U | 4.8 U |
| 7440-22-4 | SILVER | ug/l | 1.89 J | 4.68 J | 3.78 J | 1.25 U |
| 7440-23-5 | SODIUM | ug/l | R | 13.9 U | 480000 | 907 J |
| 7440-28-0 | THALLIUM | ug/l | 2.4 U | 2.4 U | 2.4 U | 2.4 U |
| 7440-62-2 | VANADIUM | ug/l | 5 U | 5 U | 5 U | 5 U |
| 7440-66-6 | ZINC | ug/l | 106 J | 195 J | 40.7 | 5 U |
| 57-12-5 | CYANIDE | ug/l | 12 | 18 | 30 | 3 U |

| Consolidated Edison<br>Farrington Street Asahi Boring<br>Validated Groundwater Analytical Data<br>SDG: G2627 | | Location ID:<br>Sample ID:<br>Lab Sample Id:<br>Source:<br>SDG:<br>Matrix:<br>Sampled:<br>Validated: | FIELDQC<br>TB060815-20150608<br>G2627-05<br>CTECH<br>G2627<br>WATER<br>6/8/2015 14:00<br>7/30/2015 |
|---|---|---|---|
| CAS NO. | COMPOUND | UNITS: | |
| | VOLATILES | | |
| 71-55-6 | 1,1,1-TRICHLOROETHANE | ug/l | 0.4 U |
| 79-34-5 | 1,1,2,2-TETRACHLOROETHANE | ug/l | 0.31 U |
| 76-13-1 | 1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE | ug/l | 0.45 U |
| 79-00-5 | 1,1,2-TRICHLOROETHANE | ug/l | 0.38 U |
| 75-34-3 | 1,1-DICHLOROETHANE | ug/l | 0.36 U |
| 75-35-4 | 1,1-DICHLOROETHENE | ug/l | 0.47 U |
| 87-61-6 | 1,2,3-TRICHLOROBENZENE | ug/l | 0.2 U |
| 120-82-1 | 1,2,4-TRICHLOROBENZENE | ug/l | 0.2 U |
| 96-12-8 | 1,2-DIBROMO-3-CHLOROPROPANE | ug/l | 0.46 U |
| 106-93-4 | 1,2-DIBROMOETHANE | ug/l | 0.41 U |
| 95-50-1 | 1,2-DICHLOROBENZENE | ug/l | 0.45 U |
| 107-06-2 | 1,2-DICHLOROETHANE | ug/l | 0.48 U |
| 78-87-5 | 1,2-DICHLOROPROPANE | ug/l | 0.46 U |
| 541-73-1 | 1,3-DICHLOROBENZENE | ug/l | 0.43 U |
| 106-46-7 | 1,4-DICHLOROBENZENE | ug/l | 0.32 U |
| 123-91-1 | 1,4-DIOXANE (P-DIOXANE) | ug/l | 100 U |
| 591-78-6 | 2-HEXANONE | ug/l | 1.9 U |
| 67-64-1 | ACETONE | ug/l | 0.5 U |
| 71-43-2 | BENZENE | ug/l | 0.32 U |
| 74-97-5 | BROMOCHLOROMETHANE | ug/l | 0.2 U |
| 75-27-4 | BROMODICHLOROMETHANE | ug/l | 0.36 U |
| 75-25-2 | BROMOFORM | ug/l | 0.47 U |
| 74-83-9 | BROMOMETHANE | ug/l | 0.2 UJ |
| 75-15-0 | CARBON DISULFIDE | ug/l | 0.2 U |
| 56-23-5 | CARBON TETRACHLORIDE | ug/l | 0.2 U |
| 108-90-7 | CHLOROBENZENE | ug/l | 0.49 U |
| 75-00-3 | CHLOROETHANE | ug/l | 0.2 U |
| 67-66-3 | CHLOROFORM | ug/l | 0.34 U |
| 74-87-3 | CHLOROMETHANE | ug/l | 0.2 U |
| 156-59-2 | CIS-1,2-DICHLOROETHYLENE | ug/l | 0.35 U |
| 10061-01-5 | CIS-1,3-DICHLOROPROPENE | ug/l | 0.31 U |
| 110-82-7 | CYCLOHEXANE | ug/l | 0.2 U |
| 124-48-1 | DIBROMOCHLOROMETHANE | ug/l | 0.2 U |
| 75-71-8 | DICHLORODIFLUOROMETHANE | ug/l | 0.2 U |
| 100-41-4 | ETHYLBENZENE | ug/l | 0.2 U |
| 98-82-8 | ISOPROPYLBENZENE (CUMENE) | ug/l | 0.45 U |
| 179601-23-1 | M,P-XYLENE | ug/l | 0.95 U |
| 79-20-9 | METHYL ACETATE | ug/l | 0.2 U |
| 78-93-3 | METHYL ETHYL KETONE (2-BUTANONE) | ug/l | 1.3 U |
| 108-10-1 | METHYL ISOBUTYL KETONE | ug/l | 2.1 U |
| 108-87-2 | METHYLCYCLOHEXANE | ug/l | 0.2 U |
| 75-09-2 | METHYLENE CHLORIDE | ug/l | 0.41 U |
| 95-47-6 | O-XYLENE (1,2-DIMETHYLBENZENE) | ug/l | 0.43 U |
| 100-42-5 | STYRENE | ug/l | 0.36 U |
| 1634-04-4 | TERT-BUTYL METHYL ETHER | ug/l | 0.35 U |
| 127-18-4 | TETRACHLOROETHYLENE(PCE) | ug/l | 0.27 U |
| 108-88-3 | TOLUENE | ug/l | 0.37 U |
| 156-60-5 | TRANS-1,2-DICHLOROETHENE | ug/l | 0.41 U |
| 10061-02-6 | TRANS-1,3-DICHLOROPROPENE | ug/l | 0.29 U |
| 79-01-6 | TRICHLOROETHYLENE (TCE) | ug/l | 0.28 U |
| 75-69-4 | TRICHLOROFLUOROMETHANE | ug/l | 0.35 U |
| 75-01-4 | VINYL CHLORIDE | ug/l | 0.34 U |

| Consolidated Edison<br>Farrington Street Asahi Boring<br>Validated Groundwater Analytical Data<br>SDG: G2627 | | Location ID:<br>Sample ID:<br>Lab Sample Id:<br>Source:<br>SDG:<br>Matrix:<br>Sampled:<br>Validated: | FIELDQC<br>TB060815-20150608<br>G2627-05<br>CTECH<br>G2627<br>WATER<br>6/8/2015 14:00<br>7/30/2015 |
|---|---|---|---|
| CAS NO. | COMPOUND | UNITS: | |
| | SEMIVOLATILES | | |
| 95-94-3 | 1,2,4,5-TETRACHLOROBENZENE | ug/l | |
| 58-90-2 | 2,3,4,6-TETRACHLOROPHENOL | ug/l | |
| 95-95-4 | 2,4,5-TRICHLOROPHENOL | ug/l | |
| 88-06-2 | 2,4,6-TRICHLOROPHENOL | ug/l | |
| 120-83-2 | 2,4-DICHLOROPHENOL | ug/l | |
| 105-67-9 | 2,4-DIMETHYLPHENOL | ug/l | |
| 51-28-5 | 2,4-DINITROPHENOL | ug/l | |
| 121-14-2 | 2,4-DINITROTOLUENE | ug/l | |
| 606-20-2 | 2,6-DINITROTOLUENE | ug/l | |
| 91-58-7 | 2-CHLORONAPHTHALENE | ug/l | |
| 95-57-8 | 2-CHLOROPHENOL | ug/l | |
| 91-57-6 | 2-METHYLNAPHTHALENE | ug/l | |
| 95-48-7 | 2-METHYLPHENOL (O-CRESOL) | ug/l | |
| 88-74-4 | 2-NITROANILINE | ug/l | |
| 88-75-5 | 2-NITROPHENOL | ug/l | |
| MEPH3MEPH | 3- AND 4- METHYLPHENOL (TOTAL) | ug/l | |
| 91-94-1 | 3,3'-DICHLOROBENZIDINE | ug/l | |
| 99-09-2 | 3-NITROANILINE | ug/l | |
| 534-52-1 | 4,6-DINITRO-2-METHYLPHENOL | ug/l | |
| 101-55-3 | 4-BROMOPHENYL PHENYL ETHER | ug/l | |
| 59-50-7 | 4-CHLORO-3-METHYLPHENOL | ug/l | |
| 106-47-8 | 4-CHLOROANILINE | ug/l | |
| 7005-72-3 | 4-CHLOROPHENYL PHENYL ETHER | ug/l | |
| 100-01-6 | 4-NITROANILINE | ug/l | |
| 100-02-7 | 4-NITROPHENOL | ug/l | |
| 83-32-9 | ACENAPHTHENE | ug/l | |
| 208-96-8 | ACENAPHTHYLENE | ug/l | |
| 98-86-2 | ACETOPHENONE | ug/l | |
| 120-12-7 | ANTHRACENE | ug/l | |
| 1912-24-9 | ATRAZINE | ug/l | |
| 100-52-7 | BENZALDEHYDE | ug/l | |
| 56-55-3 | BENZO(A)ANTHRACENE | ug/l | |
| 50-32-8 | BENZO(A)PYRENE | ug/l | |
| 205-99-2 | BENZO(B)FLUORANTHENE | ug/l | |
| 191-24-2 | BENZO(G,H,I)PERYLENE | ug/l | |
| 207-08-9 | BENZO(K)FLUORANTHENE | ug/l | |
| 85-68-7 | BENZYL BUTYL PHTHALATE | ug/l | |
| 92-52-4 | BIPHENYL (DIPHENYL) | ug/l | |
| 111-91-1 | BIS(2-CHLOROETHOXY) METHANE | ug/l | |
| 111-44-4 | BIS(2-CHLOROETHYL) ETHER | ug/l | |
| 108-60-1 | BIS(2-CHLOROISOPROPYL) ETHER | ug/l | |
| 117-81-7 | BIS(2-ETHYLHEXYL) PHTHALATE | ug/l | |
| 105-60-2 | CAPROLACTAM | ug/l | |
| 86-74-8 | CARBAZOLE | ug/l | |
| 218-01-9 | CHRYSENE | ug/l | |
| 53-70-3 | DIBENZ(A,H)ANTHRACENE | ug/l | |
| 132-64-9 | DIBENZOFURAN | ug/l | |
| 84-66-2 | DIETHYL PHTHALATE | ug/l | |
| 131-11-3 | DIMETHYL PHTHALATE | ug/l | |
| 84-74-2 | DI-N-BUTYL PHTHALATE | ug/l | |
| 117-84-0 | DI-N-OCTYLPHTHALATE | ug/l | |
| 206-44-0 | FLUORANTHENE | ug/l | |
| 86-73-7 | FLUORENE | ug/l | |
| 118-74-1 | HEXACHLOROBENZENE | ug/l | |
| 87-68-3 | HEXACHLOROBUTADIENE | ug/l | |
| 77-47-4 | HEXACHLOROCYCLOPENTADIENE | ug/l | |
| 67-72-1 | HEXACHLOROETHANE | ug/l | |
| 193-39-5 | INDENO(1,2,3-C,D)PYRENE | ug/l | |
| 78-59-1 | ISOPHORONE | ug/l | |
| 91-20-3 | NAPHTHALENE | ug/l | |
| 98-95-3 | NITROBENZENE | ug/l | |
| 621-64-7 | N-NITROSODI-N-PROPYLAMINE | ug/l | |
| 86-30-6 | N-NITROSODIPHENYLAMINE | ug/l | |
| 87-86-5 | PENTACHLOROPHENOL | ug/l | |
| 85-01-8 | PHENANTHRENE | ug/l | |
| 108-95-2 | PHENOL | ug/l | |
| 129-00-0 | PYRENE | ug/l | |

| Consolidated Edison<br>Farrington Street Asahi Boring<br>Validated Groundwater Analytical Data<br>SDG: G2627 | | Location ID:<br>Sample ID:<br>Lab Sample Id:<br>Source:<br>SDG:<br>Matrix:<br>Sampled:<br>Validated: | FIELDQC<br>TB060815-20150608<br>G2627-05<br>CTECH<br>G2627<br>WATER<br>6/8/2015 14:00<br>7/30/2015 |
|---|---|---|---|
| CAS NO. | COMPOUND | UNITS: | |
| | INORGANICS | | |
| 7429-90-5 | ALUMINUM | ug/l | |
| 7440-36-0 | ANTIMONY | ug/l | |
| 7440-38-2 | ARSENIC | ug/l | |
| 7440-39-3 | BARIUM | ug/l | |
| 7440-41-7 | BERYLLIUM | ug/l | |
| 7440-43-9 | CADMIUM | ug/l | |
| 7440-70-2 | CALCIUM | ug/l | |
| 7440-47-3 | CHROMIUM, TOTAL | ug/l | |
| 7440-48-4 | COBALT | ug/l | |
| 7440-50-8 | COPPER | ug/l | |
| 7439-89-6 | IRON | ug/l | |
| 7439-92-1 | LEAD | ug/l | |
| 7439-95-4 | MAGNESIUM | ug/l | |
| 7439-96-5 | MANGANESE | ug/l | |
| 7439-97-6 | MERCURY | ug/l | |
| 7440-02-0 | NICKEL | ug/l | |
| 7440-09-7 | POTASSIUM | ug/l | |
| 7782-49-2 | SELENIUM | ug/l | |
| 7440-22-4 | SILVER | ug/l | |
| 7440-23-5 | SODIUM | ug/l | |
| 7440-28-0 | THALLIUM | ug/l | |
| 7440-62-2 | VANADIUM | ug/l | |
| 7440-66-6 | ZINC | ug/l | |
| 57-12-5 | CYANIDE | ug/l | |

| Consolidated Edison<br>Farrington Street Asahi Boring<br>2015 Soil Analytical Data | | Location ID:<br>Sample ID:<br>Lab Sample Id:<br>Depth (ft):<br>Source:<br>SDG:<br>Matrix:<br>Sampled:<br>Validated: | SB-76(8-10)<br>SB-76(8-10)-20150623<br>G2747-01<br>8 - 10<br>CTECH<br>G2747<br>SOIL<br>6/23/2015 10:50<br>7/28/2015 | SB-76(11-13)<br>SB-76(11-13)-20150623<br>G2747-02<br>11 - 13<br>CTECH<br>G2747<br>SOIL<br>6/23/2015 11:00<br>7/28/2015 | Field Dup<br>SB-76(11-13)<br>SB-176(11-13)-20150623<br>G2747-05<br>11 - 13<br>CTECH<br>G2747<br>SOIL<br>6/23/2015 11:00<br>7/28/2015 |
|---|---|---|---|---|---|
| CAS NO. | COMPOUND | UNITS: | | | |
| | VOLATILES | | | | |
| 71-55-6 | 1,1,1-TRICHLOROETHANE | ug/kg | 0.59 U | 0.65 U | 0.8 U |
| 79-34-5 | 1,1,2,2-TETRACHLOROETHANE | ug/kg | 0.54 U | 0.6 U | 0.73 U |
| 76-13-1 | 1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE | ug/kg | 0.59 U | 0.65 U | 0.8 U |
| 79-00-5 | 1,1,2-TRICHLOROETHANE | ug/kg | 1.1 U | 1.2 U | 1.4 U |
| 75-34-3 | 1,1-DICHLOROETHANE | ug/kg | 0.59 U | 0.65 U | 0.8 U |
| 75-35-4 | 1,1-DICHLOROETHENE | ug/kg | 0.59 U | 0.65 U | 0.8 U |
| 87-61-6 | 1,2,3-TRICHLOROBENZENE | ug/kg | 0.59 U | 0.65 U | 0.8 U |
| 120-82-1 | 1,2,4-TRICHLOROBENZENE | ug/kg | 0.59 U | 0.65 U | 0.8 U |
| 96-12-8 | 1,2-DIBROMO-3-CHLOROPROPANE | ug/kg | 1 U | 1.1 U | 1.4 U |
| 106-93-4 | 1,2-DIBROMOETHANE | ug/kg | 0.59 U | 0.65 U | 0.8 U |
| 95-50-1 | 1,2-DICHLOROBENZENE | ug/kg | 0.59 U | 0.65 U | 0.8 U |
| 107-06-2 | 1,2-DICHLOROETHANE | ug/kg | 0.59 U | 0.65 U | 0.8 U |
| 78-87-5 | 1,2-DICHLOROPROPANE | ug/kg | 0.31 U | 0.34 U | 0.42 U |
| 541-73-1 | 1,3-DICHLOROBENZENE | ug/kg | 0.44 U | 0.48 U | 0.59 U |
| 106-46-7 | 1,4-DICHLOROBENZENE | ug/kg | 0.49 U | 0.53 U | 0.65 U |
| 123-91-1 | 1,4-DIOXANE (P-DIOXANE) | ug/kg | 120 U | 130 U | 160 U |
| 591-78-6 | 2-HEXANONE | ug/kg | 3 U | 3.3 U | 4 U |
| 67-64-1 | ACETONE | ug/kg | 17.7 J | 210 J | 61.2 J |
| 71-43-2 | BENZENE | ug/kg | 0.45 U | 0.49 U | 0.61 U |
| 74-97-5 | BROMOCHLOROMETHANE | ug/kg | 0.59 U | 0.65 U | 0.8 U |
| 75-27-4 | BROMODICHLOROMETHANE | ug/kg | 0.59 U | 0.65 U | 0.8 U |
| 75-25-2 | BROMOFORM | ug/kg | 0.88 U | 0.96 U | 1.2 U |
| 74-83-9 | BROMOMETHANE | ug/kg | 1.2 U | 1.3 U | 1.6 U |
| 75-15-0 | CARBON DISULFIDE | ug/kg | 0.59 U | 0.65 U | 0.8 U |
| 56-23-5 | CARBON TETRACHLORIDE | ug/kg | 0.59 U | 0.65 U | 0.8 U |
| 108-90-7 | CHLOROBENZENE | ug/kg | 0.59 U | 0.65 U | 0.8 U |
| 75-00-3 | CHLOROETHANE | ug/kg | 0.59 U | 0.65 U | 0.8 U |
| 67-66-3 | CHLOROFORM | ug/kg | 0.59 U | 0.65 U | 0.8 U |
| 74-87-3 | CHLOROMETHANE | ug/kg | 0.59 U | 0.65 U | 0.8 U |
| 156-59-2 | CIS-1,2-DICHLOROETHYLENE | ug/kg | 0.59 U | 0.65 U | 0.8 U |
| 10061-01-5 | CIS-1,3-DICHLOROPROPENE | ug/kg | 0.59 U | 0.65 U | 0.8 U |
| 110-82-7 | CYCLOHEXANE | ug/kg | 0.59 U | 0.65 U | 0.8 U |
| 124-48-1 | DIBROMOCHLOROMETHANE | ug/kg | 0.59 U | 0.65 U | 0.8 U |
| 75-71-8 | DICHLORODIFLUOROMETHANE | ug/kg | 0.59 U | 0.65 U | 0.8 U |
| 100-41-4 | ETHYLBENZENE | ug/kg | 0.59 U | 0.65 U | 0.8 U |
| 98-82-8 | ISOPROPYLBENZENE (CUMENE) | ug/kg | 0.57 U | 0.62 U | 4.1 J |
| 179601-23-1 | M,P-XYLENE | ug/kg | 0.85 U | 0.94 U | 1.1 U |
| 79-20-9 | METHYL ACETATE | ug/kg | 1.2 U | 1.3 U | 1.6 U |
| 78-93-3 | METHYL ETHYL KETONE (2-BUTANONE) | ug/kg | 3.7 U | 55.4 J | 15.2 J |
| 108-10-1 | METHYL ISOBUTYL KETONE | ug/kg | 3 U | 3.3 U | 4 U |
| 108-87-2 | METHYLCYCLOHEXANE | ug/kg | 0.59 U | 0.65 U | 0.8 U |
| 75-09-2 | METHYLENE CHLORIDE | ug/kg | 1.4 J | 1.7 J | 2.2 J |
| 104-51-8 | N-BUTYLBENZENE | ug/kg | 0.54 U | 0.6 U | 0.73 U |
| 95-47-6 | O-XYLENE (1,2-DIMETHYLBENZENE) | ug/kg | 0.59 U | 0.65 U | 0.8 U |
| 100-42-5 | STYRENE | ug/kg | 0.53 U | 0.59 U | 0.72 U |
| 1634-04-4 | TERT-BUTYL METHYL ETHER | ug/kg | 0.59 U | 0.65 U | 0.8 U |
| 127-18-4 | TETRACHLOROETHYLENE(PCE) | ug/kg | 0.59 U | 0.65 U | 0.8 U |
| 108-88-3 | TOLUENE | ug/kg | 0.59 U | 0.65 U | 0.8 U |
| 156-60-5 | TRANS-1,2-DICHLOROETHENE | ug/kg | 0.59 U | 0.65 U | 0.8 U |
| 10061-02-6 | TRANS-1,3-DICHLOROPROPENE | ug/kg | 0.59 U | 0.65 U | 0.8 U |
| 79-01-6 | TRICHLOROETHYLENE (TCE) | ug/kg | 0.59 U | 0.65 U | 0.8 U |
| 75-69-4 | TRICHLOROFLUOROMETHANE | ug/kg | 0.59 U | 0.65 U | 0.8 U |
| 75-01-4 | VINYL CHLORIDE | ug/kg | 0.59 U | 0.65 U | 0.8 U |

| Consolidated Edison<br>Farrington Street Asahi Boring<br>2015 Soil Analytical Data | | | | | Field Dup |
|---|---|---|---|---|---|
| | | Location ID: | SB-76(8-10) | SB-76(11-13) | SB-76(11-13) |
| | | Sample ID: | SB-76(8-10)-20150623 | SB-76(11-13)-20150623 | SB-176(11-13)-20150623 |
| | | Lab Sample Id: | G2747-01 | G2747-02 | G2747-05 |
| | | Depth (ft): | 8 - 10 | 11 - 13 | 11 - 13 |
| | | Source: | CTECH | CTECH | CTECH |
| | | SDG: | G2747 | G2747 | G2747 |
| | | Matrix: | SOIL | SOIL | SOIL |
| | | Sampled: | 6/23/2015 10:50 | 6/23/2015 11:00 | 6/23/2015 11:00 |
| | | Validated: | 7/28/2015 | 7/28/2015 | 7/28/2015 |
| CAS NO. | COMPOUND | UNITS: | | | |
| | SEMIVOLATILES | | | | |
| 95-94-3 | 1,2,4,5-TETRACHLOROBENZENE | ug/kg | 15.5 U | 17 U | 20.8 U |
| 58-90-2 | 2,3,4,6-TETRACHLOROPHENOL | ug/kg | 15.5 U | 17 U | 20.8 U |
| 95-95-4 | 2,4,5-TRICHLOROPHENOL | ug/kg | 27.7 U | 30.4 U | 37.1 U |
| 88-06-2 | 2,4,6-TRICHLOROPHENOL | ug/kg | 12.1 U | 13.2 U | 16.2 U |
| 120-83-2 | 2,4-DICHLOROPHENOL | ug/kg | 15 U | 16.5 U | 20.1 U |
| 105-67-9 | 2,4-DIMETHYLPHENOL | ug/kg | 22.4 U | 24.5 U | 29.9 U |
| 51-28-5 | 2,4-DINITROPHENOL | ug/kg | 40.1 U | 44 U | 53.7 U |
| 121-14-2 | 2,4-DINITROTOLUENE | ug/kg | 11.8 U | 13 U | 15.8 U |
| 606-20-2 | 2,6-DINITROTOLUENE | ug/kg | 16.1 U | 17.6 U | 21.5 U |
| 91-58-7 | 2-CHLORONAPHTHALENE | ug/kg | 9 U | 9.9 U | 12 U |
| 95-57-8 | 2-CHLOROPHENOL | ug/kg | 20.8 U | 22.8 U | 27.9 U |
| 91-57-6 | 2-METHYLNAPHTHALENE | ug/kg | 9.9 U | 10.9 U | 13.3 U |
| 95-48-7 | 2-METHYLPHENOL (O-CRESOL) | ug/kg | 21.4 U | 23.5 U | 28.7 U |
| 88-74-4 | 2-NITROANILINE | ug/kg | 17.5 U | 19.2 U | 23.4 U |
| 88-75-5 | 2-NITROPHENOL | ug/kg | 19 U | 20.9 U | 25.5 U |
| MEPH3MEPH4 | 3- AND 4- METHYLPHENOL (TOTAL) | ug/kg | 20.5 U | 22.4 U | 27.4 U |
| 91-94-1 | 3,3'-DICHLOROBENZIDINE | ug/kg | 25.3 U | 27.8 U | 33.9 U |
| 99-09-2 | 3-NITROANILINE | ug/kg | 25.3 U | 27.8 U | 33.9 U |
| 534-52-1 | 4,6-DINITRO-2-METHYLPHENOL | ug/kg | 22.6 U | 24.8 U | 30.3 U |
| 101-55-3 | 4-BROMOPHENYL PHENYL ETHER | ug/kg | 7.7 U | 8.4 U | 10.3 U |
| 59-50-7 | 4-CHLORO-3-METHYLPHENOL | ug/kg | 17.5 U | 19.2 U | 23.4 U |
| 106-47-8 | 4-CHLOROANILINE | ug/kg | 27.8 U | 30.5 U | 37.2 U |
| 7005-72-3 | 4-CHLOROPHENYL PHENYL ETHER | ug/kg | 21.4 U | 23.5 U | 28.7 U |
| 100-01-6 | 4-NITROANILINE | ug/kg | 51.3 U | 56.3 U | 68.7 U |
| 100-02-7 | 4-NITROPHENOL | ug/kg | 73.2 U | 80.3 U | 98.1 U |
| 83-32-9 | ACENAPHTHENE | ug/kg | 11.1 U | 12.2 U | 14.9 U |
| 208-96-8 | ACENAPHTHYLENE | ug/kg | 250 J | 110 J | 270 J |
| 98-86-2 | ACETOPHENONE | ug/kg | 12.1 U | 13.2 U | 16.2 U |
| 120-12-7 | ANTHRACENE | ug/kg | 100 J | 93.4 J | 170 J |
| 1912-24-9 | ATRAZINE | ug/kg | 20.8 U | 22.8 U | 27.9 U |
| 100-52-7 | BENZALDEHYDE | ug/kg | 20.6 U | 22.6 U | 27.6 U |
| 56-55-3 | BENZO(A)ANTHRACENE | ug/kg | 300 J | 260 J | 330 J |
| 50-32-8 | BENZO(A)PYRENE | ug/kg | 370 J | 300 J | 410 J |
| 205-99-2 | BENZO(B)FLUORANTHENE | ug/kg | 400 | 370 J | 460 J |
| 191-24-2 | BENZO(G,H,I)PERYLENE | ug/kg | 350 J | 230 J | 350 J |
| 207-08-9 | BENZO(K)FLUORANTHENE | ug/kg | 160 J | 96.4 J | 110 J |
| 85-68-7 | BENZYL BUTYL PHTHALATE | ug/kg | 18.9 U | 20.8 U | 25.3 U |
| 92-52-4 | BIPHENYL (DIPHENYL) | ug/kg | 14.9 U | 16.3 U | 20 U |
| 111-91-1 | BIS(2-CHLOROETHOXY) METHANE | ug/kg | 22.7 U | 24.9 U | 30.4 U |
| 111-44-4 | BIS(2-CHLOROETHYL) ETHER | ug/kg | 18.9 U | 20.8 U | 25.3 U |
| 108-60-1 | BIS(2-CHLOROISOPROPYL) ETHER | ug/kg | 16.3 U | 17.9 U | 21.9 U |
| 117-81-7 | BIS(2-ETHYLHEXYL) PHTHALATE | ug/kg | 14 U | 15.3 U | 18.7 U |
| 105-60-2 | CAPROLACTAM | ug/kg | 18.3 U | 20.1 U | 24.6 U |
| 86-74-8 | CARBAZOLE | ug/kg | 8.6 U | 9.5 U | 11.6 U |
| 218-01-9 | CHRYSENE | ug/kg | 370 J | 260 J | 300 J |
| 53-70-3 | DIBENZ(A,H)ANTHRACENE | ug/kg | 140 J | 93.8 J | 170 J |
| 132-64-9 | DIBENZOFURAN | ug/kg | 15.4 U | 16.9 U | 20.6 U |
| 84-66-2 | DIETHYL PHTHALATE | ug/kg | 6.2 U | 6.7 U | 8.2 U |
| 131-11-3 | DIMETHYL PHTHALATE | ug/kg | 260 J | 470 | 590 |
| 84-74-2 | DI-N-BUTYL PHTHALATE | ug/kg | 31 U | 34 U | 41.5 U |
| 117-84-0 | DI-N-OCTYLPHTHALATE | ug/kg | 4.5 U | 4.9 U | 6 U |
| 206-44-0 | FLUORANTHENE | ug/kg | 250 J | 290 J | 260 J |
| 86-73-7 | FLUORENE | ug/kg | 14.9 U | 16.3 U | 20 U |
| 118-74-1 | HEXACHLOROBENZENE | ug/kg | 16.1 U | 17.6 U | 21.5 U |
| 87-68-3 | HEXACHLOROBUTADIENE | ug/kg | 14.3 U | 15.7 U | 19.2 U |
| 77-47-4 | HEXACHLOROCYCLOPENTADIENE | ug/kg | 9.6 U | 10.5 U | 12.8 U |
| 67-72-1 | HEXACHLOROETHANE | ug/kg | 17.6 U | 19.3 U | 23.6 U |
| 193-39-5 | INDENO(1,2,3-C,D)PYRENE | ug/kg | 280 J | 190 J | 300 J |
| 78-59-1 | ISOPHORONE | ug/kg | 13 U | 14.3 U | 17.4 U |
| 91-20-3 | NAPHTHALENE | ug/kg | 13.6 U | 14.9 U | 140 J |
| 98-95-3 | NITROBENZENE | ug/kg | 14.9 U | 16.3 U | 20 U |
| 621-64-7 | N-NITROSODI-N-PROPYLAMINE | ug/kg | 19.9 U | 21.8 U | 26.6 U |
| 86-30-6 | N-NITROSODIPHENYLAMINE | ug/kg | 9.5 U | 10.4 U | 12.7 U |
| 87-86-5 | PENTACHLOROPHENOL | ug/kg | 27 U | 29.6 U | 36.1 U |
| 85-01-8 | PHENANTHRENE | ug/kg | 120 J | 170 J | 140 J |
| 108-95-2 | PHENOL | ug/kg | 9.1 U | 10 U | 12.2 U |
| 129-00-0 | PYRENE | ug/kg | 400 | 350 J | 380 J |

| Consolidated Edison<br>Farrington Street Asahi Boring<br>2015 Soil Analytical Data | | Location ID:<br>Sample ID:<br>Lab Sample Id:<br>Depth (ft):<br>Source:<br>SDG:<br>Matrix:<br>Sampled:<br>Validated: | SB-76(8-10)<br>SB-76(8-10)-20150623<br>G2747-01<br>8 - 10<br>CTECH<br>G2747<br>SOIL<br>6/23/2015 10:50<br>7/28/2015 | SB-76(11-13)<br>SB-76(11-13)-20150623<br>G2747-02<br>11 - 13<br>CTECH<br>G2747<br>SOIL<br>6/23/2015 11:00<br>7/28/2015 | Field Dup<br>SB-76(11-13)<br>SB-176(11-13)-20150623<br>G2747-05<br>11 - 13<br>CTECH<br>G2747<br>SOIL<br>6/23/2015 11:00<br>7/28/2015 |
|---|---|---|---|---|---|
| CAS NO. | COMPOUND | UNITS: | | | |
| | INORGANICS | | | | |
| 7429-90-5 | ALUMINUM | mg/kg | 7890 | 6570 | 6780 |
| 7440-36-0 | ANTIMONY | mg/kg | 0.551 U | 0.596 U | 0.758 U |
| 7440-38-2 | ARSENIC | mg/kg | 3.02 | 8.22 | 13.5 |
| 7440-39-3 | BARIUM | mg/kg | 60 | 57.3 J | 75.5 J |
| 7440-41-7 | BERYLLIUM | mg/kg | 0.467 | 0.451 | 0.662 |
| 7440-43-9 | CADMIUM | mg/kg | 0.752 | 0.537 | 0.764 |
| 7440-70-2 | CALCIUM | mg/kg | 5890 | 2610 J | 12400 J |
| 7440-47-3 | CHROMIUM, TOTAL | mg/kg | 15.2 | 14.7 J- | 14 |
| 7440-48-4 | COBALT | mg/kg | 8.48 | 6.66 | 7.51 |
| 7440-50-8 | COPPER | mg/kg | 23.2 | 26.9 | 32 |
| 7439-89-6 | IRON | mg/kg | 18200 | 15700 | 16100 |
| 7439-92-1 | LEAD | mg/kg | 131 | 63.1 | 83.9 |
| 7439-95-4 | MAGNESIUM | mg/kg | 2580 | 1960 J | 6330 J |
| 7439-96-5 | MANGANESE | mg/kg | 193 | 102 J | 132 J |
| 7439-97-6 | MERCURY | mg/kg | 0.177 | 0.08 | 0.113 |
| 7440-02-0 | NICKEL | mg/kg | 16.8 | 17.1 | 20.6 |
| 7440-09-7 | POTASSIUM | mg/kg | 1370 | 881 | 902 |
| 7782-49-2 | SELENIUM | mg/kg | 0.246 U | 0.266 U | 0.338 U |
| 7440-22-4 | SILVER | mg/kg | 1.25 | 1.12 J- | 1.17 |
| 7440-23-5 | SODIUM | mg/kg | 154 | 298 | 445 |
| 7440-28-0 | THALLIUM | mg/kg | 0.266 U | 0.287 U | 0.365 U |
| 7440-62-2 | VANADIUM | mg/kg | 23.5 | 21.6 J | 25.1 J |
| 7440-66-6 | ZINC | mg/kg | 74 | 57.5 | 87.9 |
| 57-12-5 | CYANIDE | mg/kg | 0.194 J | 0.094 J | 0.267 J |