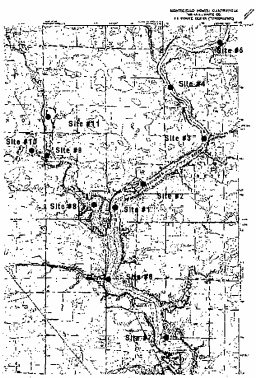
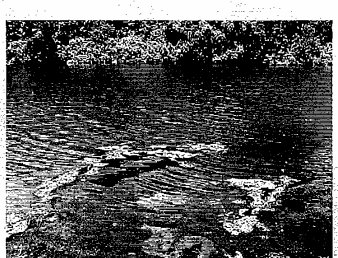
Volume No. 1

Final Report
for
Lake Shafer Dredging Project
Sediment Sampling & Analysis





ENVIRONMENTAL
CONSERVATION
CORPORATION

Shafer and Freeman Lakes
Environmental Conservation Corp.

July, 2000

COMMONWEALTH
ENGINEERS, INC.

FINAL VERSION 7-17-00

FINAL REPORT
For
Lake Shafer Dredging Project
Sediment Sampling and Analyses

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Table of Contents

Section 1	**PROJECT DESCRIPTION**	**1**
1.1	**Project Introduction and Objectives**	**1**
1.2	**Sample Locations**	**1**
1.3	**Sampling Methodologies**	**3**
1.4	**Analytical Procedures**	**4**
Section 2	**SAMPLING RESULTS**	**5**
2.1	**Detectable Highlights**	**5**
2.1	**Laboratory Quality Assurance/Quality Control**	**7**
Section 3	**ANALYTICAL RESULTS DISCUSSION**	**9**
3.1	**Heavy Metals**	**9**
	3.1.1. Land Application Issues	**9**
	3.1.2. Hazardous Waste Definition Issues	**10**
3.2	**Volatile Organic Compounds (VOCs)**	**11**
3.3	**Pesticides and Herbicides**	**11**
3.4	**Ammonia Nitrogen**	**12**
Section 4	**CONCLUSIONS**	**14**
APPENDIX		**16**

- **Project QAPP**
- **Sediment Sampling Field Logs**
- **Project Photographs**
- **Supplemental Laboratory Data**
- **Laboratory Data – Level IV**

SECTION 1: PROJECT DESCRIPTION

1.1 Project Introduction and Objectives

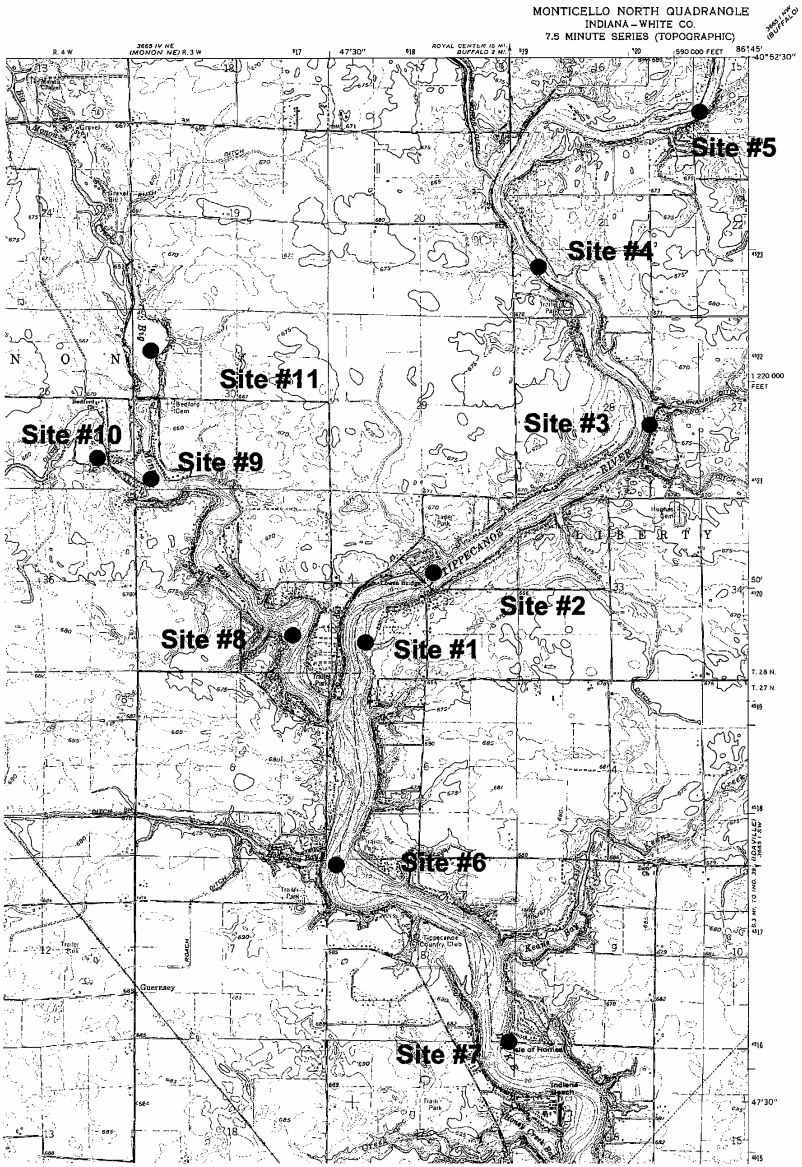
Lake Shafer is a 1,280 acre reservoir located in White County, Indiana. As part of a lake restoration project, portions of the Lake Shafer sediments are scheduled for dredging using a cutterhead hydraulic dredge. This dredging process requires various permits from regulatory agencies. One of the potentially required permits is through the Industrial NPDES Permits Section, in the Office of Water Management, at the Indiana Department of Environmental Management, hereinafter referred to as IDEM.

In general terms, when a cutterhead hydraulic pipeline sediment dredging project is implemented, sediment is physically removed from the bottom of the lake, and transported through a dredge discharge pipeline to a dredged materials storage site. At that point, the sediment slurry mixture (usually between 10 – 20 percent solids) is dewatered in retention basins, and the water is discharged.

IDEM requested in a written letter dated February 3, 2000, that Lake Shafer implement a sediment characterization testing program to determine potential contaminant issues that could negatively affect water quality during the dredging project. A Quality Assurance Project Plan (QAPP) was developed and implemented to screen the lake sediments for potential contaminants that could negatively influence water quality standards during the dredging project. This report summarizes the testing program methodologies and presents the analytical results and conclusions for this sediment testing program.

1.2 Sample Locations

Commonwealth Engineers selected eleven (11) management units or sampling areas to represent this project. A **management unit** is defined by the USEPA in the Inland Testing Manual (USEPA/USACE, 1998) as a spatially-defined volume of sediment located in a proposed dredging area for which the test results from a single sample (or composite sample) will be used to make a management decision about dredging or disposal. The management unit is therefore a decision unit. A map showing the location of these management units is included as Figure 1 of this report.



Lake Shafer Dredging Project
Sediment Management & Sampling Stations

1.3 Sampling Methodologies

Commonwealth Engineers advanced a 4-inch PVC pipe into the sediment to act as a temporary casing. A pump was then used to pump off some of the overlying water from inside the PVC pipe. Commonwealth Engineers then advanced a core sampler inside the PVC casing. A core sampler is a device that extracts a vertical cylinder of sediments of some length. Specifically, we used an AMS Extendible Core Sampler with a core tip equipped with a butterfly valve. The sampler is constructed of 300 series stainless steel with a 400 series heat treated core tip. Non-reusable, inert butyrate liners were placed in the 12-inch long sampling chamber to prevent cross contamination. The coring device was advanced using an AMS slide hammer.

All of the collected cores from a single sampling station were composited prior to filling the sample containers, with the exception of the Volatile Organic Compounds (VOCs) container. Since VOCs will easily partition to the air, the samples used to fill the VOC jars were not mixed prior to filling the VOC containers. Anywhere from 4 to 6 cores were extracted per sampling location to have enough required composited volume to fill each of the sample jars at each of the eleven locations.

Commonwealth Engineers developed a Quality Assurance Project Plan (QAPP) dated March 22, 2000. This written program outlined in detail, the sampling locations, sampling equipment, sampling methods, sample handling, and analytical methods. To the best of our knowledge and ability, the project QAPP was implemented as written. A copy of the Project QAPP is included as an attachment to this report for reference purposes.

1.4 Analytical Procedures

Commonwealth Engineers worked with IDEM to mutually develop a final sediment target contaminant constituent list. The sediment was analyzed for the parameters listed below.

Parameter	Lab Method	Practical Reporting Limit
Ammonia Nitrogen	350.1	3 mg/kg
Volatile Organic Compounds	8260B	2 µg/kg except as otherwise noted below
Organochlorine Pesticides	8080	1.7 µg/kg except as otherwise noted below
Organophosphorus Pesticides	8141	100 µg/kg except as otherwise noted below
Chlorinated Herbicides	8150	17 µg/kg except as otherwise noted below
Total Arsenic	6010	25 mg/kg
Total Barium	6010	1 mg/kg
Total Cadmium	6010	0.5 mg/kg
Total Chromium	6010	0.5 mg/kg
Total Lead	6010	4.0 mg/kg
Total Manganese	6010	0.5 mg/kg
Total Mercury	7471	0.1 mg/kg
Total Nickel	6010	1 mg/kg
Total Selenium	6010	10 mg/kg
Total Silver	6010	1.0 mg/kg
Total Iron	6010	5 mg/kg

VOC Alternative Practical Reporting Limits (PRL)
acetone = 10 µg/kg
acrolein = 10 µg/kg
acrylonitrile = 10 µg/kg
1,2-Dibromo-3-chloropropane = 10 µg/kg
Ethyl methacrylate = = 10 µg/kg
2-Hexanone = 10 µg/kg
Methyl ethyl ketone = 10 µg/kg
4-methyl-2 pentanone = 10 µg/kg
Naphthalene = 5 µg/kg
Vinyl Acetate = 10 µg/kg

OrganoChlorine Pesticides (PRL)
dieldrin = 3.3 µg/kg
4,4'-DDE = 3.3 µg/kg
endrin = 3.3 µg/kg
endosulfan II = 3.3 µg/kg
4,4' - DDD = 3.3 µg/kg
endosulfan sulfate = 3.3 µg/kg
4,4' – DDT = 3.3 µg/kg
methoxychlor = 17 µg/kg
toxaphene = 170 µg/kg
endrin aldehyde = 3.3 µg/kg

Chlorinated Herbicides (PRL)
2,4-D = 170 µg/kg

SECTION 2: SAMPLING RESULTS

2.1 Detectable Highlights

The following table presents the results of those analyses that were above the practical reporting limits for each sample. Analyses that were below the Practical Reporting Limits are not included in this summary table. Complete analytical data sheets can be found as attachments to this report.

Sample I.D.	Constituent	Result (mg/kg)
1 A-H	Ammonia	14
1 A-H	Barium	14
1 A-H	Chromium	6.8
1 A-H	Iron	4,300
1 A-H	Manganese	85
1 A-H	Nickel	4.4
2 A-H	Ammonia	130
2 A-H	Barium	48
2 A-H	Chromium	6.6
2 A-H	Iron	7,900
2 A-H	Manganese	210
2 A-H	Lead	7.0
2 A-H	Nickel	8.1
3 A-H	Ammonia	17
3 A-H	Barium	15
3 A-H	Chromium	3.2
3 A-H	Iron	5,600
3 A-H	Manganese	170
3 A-H	Nickel	6.1
4 A-H	Ammonia	32
4 A-H	Barium	32
4 A-H	Chromium	6.4
4 A-H	Iron	8,000
4 A-H	Manganese	250
4 A-H	Lead	5.5
4 A-H	Nickel	5.8
5 A-H	Ammonia	12
5 A-H	Barium	43
5 A-H	Chromium	4.6
5 A-H	Iron	5,100
5 A-H	Manganese	470
5 A-H	Nickel	5.2

Sample I.D.	Constituent	Result (mg/kg)
6 A-H	Ammonia	22
6 A-H	Barium	14
6 A-H	Chromium	3.5
6 A-H	Iron	3,300
6 A-H	Manganese	100
6 A-H	Nickel	2.6
7 A-H	Ammonia	10
7 A-H	Barium	20
7 A-H	Chromium	2.9
7 A-H	Iron	2,800
7 A-H	Manganese	58
7 A-H	Nickel	3.1
8 A-H	Ammonia	14
8 A-H	Barium	26
8 A-H	Chromium	7.0
8 A-H	Iron	8,200
8 A-H	Manganese	230
8 A-H	Nickel	5.7
9 A-H	Ammonia	5.2
9 A-H	Barium	21
9 A-H	Chromium	10
9 A-H	Iron	9,600
9 A-H	Manganese	220
9 A-H	Nickel	8.1
10 A-H	Ammonia	130
10 A-H	Barium	51
10 A-H	Chromium	5.9
10 A-H	Iron	6,700
10 A-H	Manganese	170
10 A-H	Lead	5.6
10 A-H	Nickel	6.8
10 A-H	Acetone	19 *
11 A-H	Ammonia	96
11 A-H	Barium	65
11 A-H	Chromium	5.5
11 A-H	Iron	9,300
11 A-H	Manganese	1,000
11 A-H	Nickel	5.7

* Suspected Laboratory Anomaly. Currently being further investigated.

2.2 Laboratory Quality Assurance/Quality Control

Following is an excerpt from Test America's Quality Assurance/Quality Control Case Narrative. Per IDEM's *Solid Waste Program Analytical Data Deliverable Requirements: A Guidance Document, Solid Waste Chemistry Section, OSHWM General ID#0038-01-SW, March, 1998*, the data are presented with a Level IV QA/QC package.

Sample Receipt Notes: The samples were received in good condition and properly preserved. The analysis was performed within the method required holding times.

QC: VOLATILE ORGANICS by SW846/8260B BATCH-356

All QC calibrations were within the method required QC limits. The method blank for this batch had no reported detections for analyte compounds. All Surrogate recoveries were within required QC limits. The sample used for MS/MSD was Sample ID: 264716 of this delivery group. The MS/MSD spiked compounds were within the required QC limit. The %RPD for the MS/MSD spiked compounds was within the required QC limit. The Control spiked compounds was within historical QC limits. QC was accepted for this batch.

General:

Sample quantitation was done using relative response factors for all compounds with a *15%* or less RSD and for the calibration curves whose compounds exceeded the *15%* RSD quantitation was done using linear regression. Curves have been supplied for the linear regression.

QC: PESTICIDES by SW846/8081A BATCH-310

All QC calibrations were within method required QC limits. The method prep blank for this batch had no reported detections for analyte compounds. Surrogate recoveries were within required QC limits on both Channel A and B for Tetrachloro-m-xylene. Surrogate recoveries for Decachlorobiphenyl were outside the required limit of 15-130% on both Channel A and B for several samples and QC samples of this batch biased high. The sample used for MS/MSD was Sample ID: 264722 of this delivery group. The MS/MSD spiked compounds were within the required QC limit. The %RPD for the MS/MSD spiked compounds was within required QC limit. The Control spiked

compounds were within the required laboratory historical QC limits. QC was accepted for this batch.

QC: ORGANOPHOSPHORUS PESTICIDES by **SW846/8141A BATCH-306**

All QC calibrations were within method required QC limits. The method prep blank for this batch had no reported detections for analyte compounds. Surrogate recoveries were within required QC limits. The sample used for MS/MSD was Sample ID: 264716 of this delivery group. The MS/MSD spiked compounds were within the required QC limit. The %RPD for the MS/MSD spiked compounds was within required QC limit. The Control spiked compounds were within the required laboratory historical QC limits. QC was accepted for this batch.

QC: HERBICIDES by SW846/8151A BATCH-2328

All QC calibrations were within method required QC limits. The method prep blank for this batch had no reported detections for analyte compounds. Surrogate recoveries were within required QC limits on both Channel A and B. The sample used for MS/MSD was Sample ID: 264720 of this delivery group. The MS had two out often spiked compounds outside the required QC limit biased low, The MSD had three out of ten spiked compounds outside the required limit biased low. The %RPD had two out often spiked compounds outside the required QC limit. The Control spiked compounds were within the required laboratory historical QC limits, except Dalapon and Dinoseb. There was no reported detection for Dalapon and Dinosed in this batch. QC was accepted for this batch.

Moisture by CLP Batch-7225

The results have been corrected for Dry Weight.

SECTION 3: ANALYTICAL RESULTS DISCUSSION

This section presents discussion on the evaluation of the data. The purpose of the evaluation is to determine if the values of detectable levels of constituents represent concerns for moving forward with the proposed dredging project.

3.1 Heavy Metals

3.1.1 Land Application Issues

Commonwealth Engineers is not aware of any specific regulations that address maximum metal concentrations in lake sediments that are dredged, piped to a storage area, and dewatered. Therefore, Commonwealth Engineers is of the opinion that if the metal concentrations are within allowable land application limitations, then they certainly should be considered benign with respect to this dredging project. Particularly since the dredged sediments will not actually be applied to the land for purposes of soil incorporation.

Commonwealth Engineers referenced the *Land Application of Biosolid and Industrial Waste Product* regulations found in 327 IAC 6.1-4. Particularly, Table 3 from 327 IAC 6.1-4-9 addresses pollutant concentrations for biosolid or industrial waste products to be applied to the land in accordance with a nonsite-specific permit under section 5 of this rule or a marketing and distribution program permit under 327 IAC 6.1-5.

Table 3

Applicable Pollutant Concentrations

Pollutant	Pollutant Concentrations (mg/kg)
Arsenic	41
Cadmium	39
Lead	300
Mercury	17
Nickel	420
Selenium	100

The concentrations observed in each of the eleven samples collected from the Lake Shafer sediments were well below these maximum land application values.

There are no metal standards or limitations for iron, manganese, chromium or barium. However, EPA publication EPA/540/S-92/018 entitled "Behavior of Metals in Soils", lists the average ranges of various elements in soils. Following is an excerpt from Table 1 of this publication for iron, manganese, and chromium:

Metal	**Selected Average for Soils mg/kg**	**Common Range for Soils mg/kg**
Iron	38,000	7,000 – 550,000
Manganese	600	20 – 3,000
Chromium	100	1 – 1,000

Therefore, the iron, manganese, and chromium levels observed in the Lake Shafer sediments are well within common ranges for soil and should be inconsequential to potential environmental impacts.

3.1.2 RCRA Hazardous Waste Definition Issues

The IDEM also wanted a demonstration that the sediments would not be defined as a hazardous waste for metal toxicity in accordance with 40 CFR 261.24. However, instead of running the sediments for Toxicity Characteristic Leaching Procedure (TCLP) metals, Mr. Richard Childers of the IDEM stated that we may use the "20 times rule of thumb". This rule basically states that if the total metal concentration is more than 20 times the TCLP limit, then TCLP analysis for metals may need to be completed to

determine if metal toxicity issues exist. Following is a table of these rule of thumb limitations:

TCLP Extrapolation Rule of Thumb

	TCLP Limit mg/L	20X Rule
Arsenic	5.00	100
Barium	100.00	2000
Cadmium	1.00	20
Chromium	5.00	100
Lead	5.00	100
Mercury	0.20	4
Selenium	1.00	20
Silver	5.00	100

The concentrations observed in each of the eleven samples collected from the Lake Shafer sediments were well below these "20 X Rule of Thumb" values. Therefore, there is no need to run TCLP metal analyses on the sediments and these sediments are not considered RCRA hazardous wastes due to metal toxicity.

3.2 Volatile Organic Compounds (VOC)

There were no detectable levels of volatile organic compounds (VOCs) in any of the eleven samples, with the exception of detectable levels of acetone in sample 10 A-H at 19 parts per billion (µg/kg). This value is highly suspect since acetone is routinely used in laboratories to clean glassware. However, since this value is so low anyway (parts per billion range), and since acetone is extremely volatile, it is inconsequential to potential environmental impacts.

3.3 Pesticides and Herbicides

Each of the samples were analyzed for the presence of organochlorine pesticides, organophosphorus pesticides, and chlorinated herbicides. There were no detectable levels above practical quantification levels of any of these pesticide or herbicide compounds in any of the eleven samples.

3.4 Ammonia Nitrogen

The ammonia concentrations represented in each of the eleven samples (average of 44 mg/kg, maximum value of 130 mg/kg) are low values from an agronomic basis. Therefore, these levels of ammonia appear to be inconsequential to potential environmental impacts.

SECTION 4: CONCLUSIONS

In conclusion, this sampling project was implemented by Commonwealth Engineers to determine if there are foreseeable environmental toxicological consequences to storing the dredged sediments from Lake Shafer in storage areas during dewatering. A project Quality Assurance Project Plan (QAPP) was developed and implemented to ensure the integrity and usability of the sampling program and results.

The analytical data indicate that there were no detectable levels of volatile organic compounds (VOCs), pesticides, or herbicides in any of the eleven samples, with the exception of an anomaly of acetone present in sample 10 A-H at a concentration of 19 parts per billion.

There are no specific regulations that address maximum metal concentrations in lake sediments that are dredged, piped to a storage area, and dewatered. Therefore, Commonwealth Engineers is of the opinion that if the metal concentrations are within allowable land application limitations, then they certainly should be considered benign with respect to this dredging project. Particularly since the dredged sediments will not actually be applied to the land for purposes of soil incorporation. The concentrations observed for arsenic, cadmium, lead, mercury, nickel and selenium, in each of the eleven samples collected from the Lake Shafer sediments were well below these land application values. The iron, manganese, and chromium levels observed in the Lake Shafer sediments are well within common ranges for soil (as published by the US EPA) and should be inconsequential to potential environmental impacts. Finally with respect to metals, all TCLP metals are well below the "20 times rule of thumb" and consequently, do not exhibit the characteristics of hazardous waste by metal toxicity (40 CFR 261.24).

The ammonia concentrations represented in each of the eleven samples (average of 44 mg/kg, maximum value of 130 mg/kg) are low values from an agronomic basis. Therefore, these levels of ammonia appear to be inconsequential to potential environmental impacts.

In summary, the sampling and analysis project data support that are no foreseeable environmental toxicological consequences to storing the dredged sediments from Lake Shafer in storage areas during the sediment dewatering process.

Appendix

Project QAPP

QUALITY ASSURANCE PROJECT PLAN (QAPP)
For
Lake Shafer Dredging Project
Sediment Sampling and Analyses

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Table of Contents

SECTION 1 PROJECT DESCRIPTION 1
1.1 Historical Information 1
1.2 Project Objectives 1
1.3 Project Site & Sampling Design 2
1.4 Project Schedule 4

SECTION 2 PROJECT ORGANIZATION AND RESPONSIBILITY 4

SECTION 3 DATA QUALITY OBJECTIVES 5
3.1 Introduction to Data Quality Objectives 5
3.2 Field Precision 5
3.3 Field Accuracy or Bias 6
3.4 Representativeness 7
3.5 Completeness 7
3.6 Laboratory Quality Assurance/Quality Control 7

SECTION 4 SAMPLING PROCEDURES 8
4.1 Sample Bottles 9
4.2 Safety Considerations 9
4.3 Equipment List 9
4.4 Sample Collection 10

SECTION 5 CUSTODY PROCEDURES 12

SECTION 6 ANALYTICAL PROCEDURES 13

BIBLIOGRAPHY 15

APPENDIX

- Map of Lake Shafer Showing Management Units & Sampling Locations
- Sediment Sampling Field Log
- Table D-6 Categories of Sediment Characteristics

SECTION 1: PROJECT DESCRIPTION

1.1 **Historical Information** – Lake Shafer is a 1,280 acre reservoir located in White County, Indiana. As part of a lake restoration project, portions of the Lake Shafer sediments are scheduled for dredging using an hydraulic cutterhead pipeline dredge. This dredging process requires various permits from regulatory agencies. One of the potentially required permits is through the Industrial NPDES Permits Section, in the Office of Water Management, at the Indiana Department of Environmental Management. The information obtained as a result of this QAPP will be used by the Indiana Department of Environmental Management (IDEM) to review potential contaminant issues from the lake sediments.

1.2 **Project Objectives** – In general terms, when a hydraulic cutterhead pipeline sediment dredging project is implemented, sediment is physically removed from the bottom of the lake, and transported through a dredge discharge pipeline to a dredged materials placement site. At that point, the sediment slurry mixture (usually between 10 – 20 percent solids) is dewatered in retention basins, and the water is discharged.

This Quality Assurance Project Plan (QAPP) is developed to screen the lake sediments for potential contaminants that could negatively influence water quality standards during the dredging project. After several discussions between the IDEM and Commonwealth Engineers, a final sediment target contaminant constituent list was developed. The sediment will be analyzed for the following parameters:

- Total Ammonia as Nitrogen
- Volatile Organic Compounds (VOCs)
- Arsenic
- Barium
- Cadmium
- Chromium
- Lead
- Manganese
- Mercury

- Nickel
- Selenium
- Silver
- Iron
- Organochlorine Pesticides
- Organophosphorus Pesticides
- Chlorinated Herbicides and Derivatives

This plan outlines the specific procedures and protocols for collecting and analyzing the sediment samples, as well as developing the final report.

1.3 **Project Site & Sampling Design** – In an ideal situation, testing data of every potential contaminant on every grain of dredged sediment would be available. Obviously, due to the costs associated with sampling and testing, this is impractical and never actually implemented. Therefore, an attempt must be made to make the best use of finite resources in evaluating potential contaminants of dredged materials. A carefully designed project sampling strategy based around **management units** will meet this goal.

A **management unit** is defined by the USEPA in the Inland Testing Manual (USEPA/USACE, 1998) as a spatially-defined volume of sediment located in a proposed dredging area for which the test results from a single sample (or composite sample) will be used to make a management decision about dredging or disposal. The management unit is therefore a decision unit. A management unit could be as large as the entire dredging project area, or it could be a small portion of that area. A management unit should not be so small that it could not be dredged separately from other units. Only a few generalizations about the appropriate size, number and distribution of management units can be made. The delineation of management units is very site specific, and should consider all available information. Ultimately, the decision relies on best professional judgment, but considerations can be given to:

- proposed dredging depths and locations;
- water depths and fluctuations;

- sources of contaminants (point & non-point);
- hydraulic/other factors affecting sediment distribution;
- physical sediment characteristics; and
- historic sediment quality data.

Commonwealth Engineers divided Lake Shafer into 11 management units. A map showing the delineation of these management units is included in the Appendix of this report.

The USEPA and the US Army Corps of Engineers recommends that a management unit be represented by a single sample. This may be a discrete sample collected at one location within the management unit or a composite of samples collected at several locations and depths within the management unit. Because the results of analyses are intended to characterize the entire management unit, compositing is recommended. In addition, core samples should be collected for the entire thickness of the management unit, where practical, and this length composited. Compositing of multiple cores within a management unit is desirable, but is often prohibitively expensive.

Following EPA's recommended guidelines, Commonwealth will select a single sampling station inside each management unit to represent that management unit area. Commonwealth will collect core sediment samples from various depths at that single station, composite the various depths of core samples into one sample, and forward sediment from that composited sample to a laboratory for chemical analysis. Therefore, there will be 11 samples forwarded for testing to represent this dredging project.

Commonwealth Engineers, Inc. does reserve the right to modify the sampling locations or sample depths based upon encountered field conditions. Each sample will be collected using an AMS Extendible Core Sampler. More detail on the sampling equipment and procedures is provided in Section 4 of this plan.

1.4 **Project Schedule** – The following is a proposed time schedule for this sampling project:

Lake Shafer Sediment Testing	March			April				May	
	13-18	20 - 24	27-31	3-7	10-14	17-21	24 - 28	1 - 5	8 - 12
QAPP Development	■	■							
IDEM Review			■						
Sample Collection				■	■				
Laboratory Analyses						■	■		
Data Review								■	
Report Preparation									■

Note: This timeline is based upon estimated schedules and is subject to change.

SECTION 2: PROJECT ORGANIZATION AND RESPONSIBILITY

The following personnel at Commonwealth Engineers, Inc. will be responsible for implementing this project plan and developing a final report:

- Senior Project Engineer: Mr. Roger M. Kottlowski, P.E.
- Regulatory Specialist: Mr. Donald B. Larson, BA, Science
- Operations Specialist: Mr. Eric A. Welling, M.S., CHMM
- Field Technicians: Mr. David Mohler, EIT
  Mr. Mark Bosch, BS, Geology

SECTION 3: DATA QUALITY OBJECTIVES

3.1 **Introduction to Data Quality Objectives** - All environmental data are only estimates of the true values of the measured parameters. These estimates are affected by variability in the medium being sample. They are also affected by random and systematic errors that can be introduced via sampling and analysis procedures. Data quality objectives (DQOs) are qualitative or quantitative statements of precision (a measure of random error), bias (a measure of systematic error), representativeness, completeness, and comparability. The goal of this section is to address sampling strategies that will meet the project's DQOs.

3.2 **Field Precision** - This factor measures to what extent two or more measurements are in agreement with each other, or the scatter in the data due to random error. Field precision is assessed using field duplicates.

Field Duplicates - Field duplicates are collected to demonstrate the reproducibility of sampling technique in homogenous material, or the degree of environmental heterogeneity. Independent samples are collected as close as possible to the same point in space and time using identical procedures. The two separate samples should be stored in separate containers and analyzed independently. These field QC samples must be treated as regular investigative samples concerning sample volume, containers, and preservatives.

Field Split Samples – Split samples are aliquots of sample taken from the same container and analyzed independently. These are usually taken after homogenization and are used to document intralaboratory precision or interlaboratory accuracy.

According to "*Appendix E – Quality Assurance Guidance*" of the Great Lakes Dredged Material Testing and Evaluation Manual developed by the USEPA and the US Army Corps of Engineers, September 30, 1998, the heterogeneity of sediment provides problems for duplicate and split samples. "*Because of the heterogeneity of sediments (in situ) and the inability to adequately homogenize samples in the field, field duplicates and split samples are not considered reliable indicators of precision in sediment sample collection. Sediment samples homogenized in the laboratory may be suitable for preparing split samples to assess interlaboratory accuracy. However, these would not provide information about field sampling precision.*"

Therefore, no duplicate or field split samples will be collected on this project.

3.3 **Field Accuracy or Bias** - This represents the degree to which an observed (measured) value agrees with, or differs from, an accepted reference (standard) value due to systematic errors. Field accuracy should be assessed through the use of field and trip blanks, and through the adherence to all sample handling, preservation, and holding times.

According to "*Appendix E – Quality Assurance Guidance*" of the Great Lakes Dredged Material Testing and Evaluation Manual developed by the USEPA and the US Army Corps of Engineers, September 30, 1998, the heterogeneity of sediment provides problems for field blanks and trip blanks. "*Field blanks are commonly used to assess sampling precision and accuracy for many environmental media, but field blanks are not recommended for routine dredged material sampling because of the difficulty in interpreting results and the non-homogeneity of sediments. Field blanks are not required for solid samples because it is difficult to interpret results and the associated QC costs for analysis of a different sampling matrix (water) can be prohibitive.*"

Therefore, no field or trip blanks will be collected during this project. However, adherence to the developed sampling collection, handling, and preservation techniques outlined in this QAPP will be observed, and will provide additional assurances of accuracy, as will the observance of recommended holding times.

3.4 **Representativeness** – Representativeness refers to the degree to which the data accurately and precisely represents the conditions of characteristics of the parameter represented by the data. During this project, representativeness will be ensured by implementing consistent sample collection procedures, including sample locations, sampling procedures, sample storage, sample preservation, sample shipping, sample equipment decontamination, and proper laboratory subsampling.

3.5 **Completeness** – Completeness refers to the amount of data collected from a measurement process compared to the amount that was expected to be obtained. For this project, completeness refers to the proportion of valid, acceptable data generated using each method, expressed as a percent. The completeness objective for data generated during this project is 90 percent. If less than 90% of the data is considered non-usable, then collection of additional data will be considered.

3.6 **Laboratory Quality Assurance/Quality Control** – The laboratory for this project will be Test America, Inc., 6964 Hillsdale Court, Indianapolis, Indiana, 46250, Phone (317) 842-4261. Test America, Inc. will be providing a Level IV QA/QC protocols and documentation package. The guidelines for the Level IV package are outlined in the IDEM's, Office of Solid and Hazardous Waste Management, Solid Waste Program Analytical Data Deliverable Requirements: A Guidance Document, dated March, 1998. Test America will adhere to standard requirements of laboratory replicates, method blanks, calibrations, reference standards, surrogate recoveries,

etc., where appropriate. The laboratory will also strictly adhere to analytical holding times.

A Certificate of Analysis on the bottles and jars received from the laboratory will be presented to Commonwealth Engineers. The level of analysis should be a "Level 1", which means that the products have been tested and found to comply with or lower than the EPA detection limits as stated in OSWER Directive # 9240.0-05A "Specifications and Guidance for Contaminant-Free Sample Containers 12/92".

SECTION 4: SAMPLING PROCEDURES

4.1 **Sample Bottles** – Prior to entering the field, Commonwealth Engineers will implement the following tasks:

- assimilate the sample bottles required for the project;
- make sure that the bottles come with a Certificate of Analysis – Level 1;
- check each container for cracks or other signs of container problems and dispose of containers that are not satisfactory;
- put a label on each bottle if it does not already have a label;
- use a permanent marker to include the following minimum information on each label:

  Project Name:
  Sampling Site I.D.:
  Date:
  Time: (leave blank until collected, complete this in the field):
  Collected By:
  Sample Type: *Composite*
  Requested Tests:
  Preservative: *None*

The following bottles will be required for each composite sample from each sampling station:

Parameter	Holding Time	Preservative	Container
Ammonia	28 days	4 degrees Celsius	4 oz. Glass w/Teflon-lined cap
VOCs	14 days	4 degrees Celsius	4 oz. Glass w/Teflon-lined cap
Pesticides	14 days	4 degrees Celsius	4 oz. Glass w/Teflon-lined cap
Herbicides	14 days	4 degrees Celsius	4 oz. Glass w/Teflon-lined cap
Total Metals	28 days for Hg, 6 months for all others	4 degrees Celsius	4 oz. Glass w/Teflon-lined cap
TCLP-Metals*	28 days for Hg, 6 months for all others	4 degrees Celsius	4 oz. Glass w/Teflon-lined cap

* contingency parameter - will not be immediately analyzed.

4.2 **Safety Considerations** – Pre-planning for safety is mandatory. Each crew member should be fully outfitted with appropriate safety equipment and properly fitted clothing. Provisions should also be made for crew members to clean-up during and after sampling. Soaps, brushes, sponges, clean water, and a change of clothing should be available when appropriate. Rain and weather protective clothing and life vests are always appropriate for on-board stowage.

Crew members should avoid dermal contact with sediments, and all sampling equipment should be handled with protective gloves. Long pants, long sleeve shirts, and shoes are recommended to minimize dermal contact from splashing or spillage when handling samples.

A list of local emergency telephone numbers, including ambulance service, police, and fire department should be recorded on a sheet, along with a map showing directions to the nearest hospital, and kept on the boat with a cellular telephone.

All crew members are required to review these safety issues and acknowledge that they are familiar with these issues and will abide by them, by signing and dating a document stating such.

4.3 **Equipment List** - The following equipment is recommended for implementation of this sampling plan:

- Pontoon Boat or other stable sampling platform vessel with anchor(s)
- Sampling clothing that consists of long pants, long sleeve shirt, and shoes
- Rain and weather protective clothing and life vests for stowage
- One box of disposable gloves (surgical type gloves)
- Several sections of Schedule 40, 4" diameter PVC piping *(include one section of PVC piping for each sample coring station, plus 2 extra)*
- Sledge hammer
- Portable vacuum pump with about 20 to 30 feet of Tygon® tubing
- AMS core sampler
- AMS slide hammer
- 2-inch diameter butyrate sampling tubes *(include one butyrate sampling tube for each depth at each sample coring station, plus 2 extra)*
- End caps for butyrate sampling tubes for temporary storage
- Large stainless steel spoon
- 16-quart stainless steel mixing pail
- Distilled water
- A non-phosphate detergent based washing solution
- Hard bristle brush for scrubbing
- Camera
- Portable Cell Telephone
- Pre-labeled sample jars
- Pocket or Field Knife
- Large coolers with pre-frozen blue ice packs
- Field log book
- A copy of this written plan

4.4 **Sample Collection** - Commonwealth Engineers will drive a 4-inch PVC pipe into the sediment to act as a temporary casing. A pump will then be used to pump off some of the overlying water from inside the PVC pipe. Commonwealth Engineers will then advance a core sampler inside the PVC casing. A core sampler is a device that extracts a vertical cylinder of sediments of some length. Specifically, Commonwealth will use an AMS Extendible Core Sampler with a core tip equipped with a butterfly valve. The sampler is constructed of 300 series stainless steel with a 400 series heat treated core tip. Non-reusable, inert butyrate liners are placed in

the 12-inch long sampling chamber to prevent cross contamination. The coring device will be advanced using an AMS slide hammer.

The following is the Standard Operation Procedure (SOP) used for this sampling project. All the collected cores from a sampling station will be composited prior to filling the sample containers, with the exception of the Volatile Organic Compounds (VOCs) container. Since VOCs will easily partition to the air, the samples cannot be mixed prior to filling the VOC containers. Therefore, these procedures contain special instructions for filling the VOC containers.

Activities for collecting composite core samples at each station:

1. Place all pre-labeled sample containers in coolers with frozen blue-ice packs.
2. In the log book, record the sample location and identification number of the samples you are about to collect for composting. Also record the date, time, weather conditions, depth of water to the sediment surface, and any other unusual circumstances.
3. Record the location of the sampling station using a hand-held GPS unit.
4. Drive a section of PVC piping into the sediments at the sampling location station.
5. Start pumping off the water that is in the water column above the sediments. Do not draw the water down all the way to the sediment/water interface. This can create bias in your collected samples because the saturated sediment water interface could contain dissolved constituents and suspended sediment fines that are important to the overall chemistry.
6. Put on a new pair of disposable gloves at each sampling station prior to collecting the samples. (*keeps potential sediment contaminants off your skin and prevents cross-contamination between sampling stations*)
7. Scrub the coring device, the stainless steel spoon, the stainless steel mixing pail, and the knife, with non-phosphate detergent solution and triple rinse with distilled water.
8. Insert a butyrate sample collection liner.
9. Thread the hammer attachment to the core sampler cap and tighten to approximately 140 foot-pounds.
10. Using the slide hammer, advance the coring device into the sediment until the core sampler cap is at the top of the targeted sampling zone.
11. Extract the coring device.
12. Unthread the coring sampler cap from the cup and tip upside down so the retaining cylinder will slide out.

13. Record in the log book, the approximate percent recovery (how full the sampling liner is), note any characteristics of the sediment core (color, odor, general soil & organic components – See Table D-6 in the Appendix), and take a picture of the sample.
14. Vertically slice open the butyrate liner from top to bottom.
15. Using the stainless steel spoon, collect a longitudinal sub-sample of the core from the top to the bottom.
16. Transfer this sub-sample into the Volatile Organic Compounds container, put the lid on tightly, and place the container back in the cooler in between collecting each depth. Each time another depth is collected from that station, add the sub-sample to this same jar so all depths are represented in one jar. When all depths are represented, be sure to pack the sediment in the container tightly, and not leave any head space in the container. Complete the time on the sample label.
17. Empty the remaining contents of the butyrate liner into the stainless steel mixing pail.
18. Repeat steps 8 through 17 for each additional sampling depth from that station. It is desirable to collect 2 to 3 cores per sampling station for compositing.
19. Mix the contents of all the combined cores in the mixing pail with the large stainless steel spoon until the sample appears to have a somewhat homogenous consistency.
20. Fill each of the pre-labeled sample jars for that sampling station with sediment from the mixing pail (except for the VOC container, which is now already full). Be sure to pack the sediment in each container tightly, and not leave any head space in any container. Complete the time on the sample label.
21. Place each filled sample jar into the cooler and store at 4°C for shipment to the laboratory.
22. When you move to a different sampling station, be sure to start at the beginning of this task listing.

SECTION 5: CUSTODY PROCEDURES

Proper Chain-of-Custody procedures must be followed to ensure that sample integrity is maintained. Following is a list of activities for chain-of-custody procedures:

1. Take a visual inventory of each cooler to ensure that all bottles and jars are present.
2. Make sure that the blue ice packs are still frozen, or replace the ice packs with fresh ice packs to ensure that the cooler temperature will be maintained at 4°C for the next 12 – 15 hours.

3. Complete the Chain-of-Custody form forwarded from the laboratory. Be sure to sign and date the "Relinquished By:" portion of the form.
4. Place the Chain-of-Custody in a zip-lock plastic bag to preserve its integrity.
5. Close the cooler and place initialed custody seals along one or two of the edges of the cooler.
6. Place tape around the cooler to keep it from opening during shipment.
7. Either drive the cooler directly to the laboratory or ship the cooler via common carrier (Fed Ex, UPS, AirBorne Express, etc.), for next day morning delivery. If shipping on a Friday, be sure to coordinate with the laboratory and make sure they will accept and log in Saturday shipments. In any event, make sure samples are kept at 4°C.

SECTION 6: ANALYTICAL PROCEDURES

Parameter	Lab Method	Practical Reporting Limit
Ammonia Nitrogen	350.3	3 mg/kg
Volatile Organic Compounds	8260	5 mg/kg except as otherwise noted below
Organochlorine Pesticides	8081	1.7 µg/kg except as otherwise noted below
Organophosphorus Pesticides	8141	33 µg/kg except as otherwise noted below
Chlorinated Herbicides	8151	17 µg/kg except as otherwise noted below
Total Arsenic	6010B	5.0 mg/kg
Total Barium	6010 B	1.0 mg/kg
Total Cadmium	6010 B	0.5 mg/kg
Total Chromium	6010B	0.5 mg/kg
Total Lead	6010B	4.0 mg/kg
Total Manganese	6010B	0.5 mg/kg
Total Mercury	7471A	0.10 mg/kg
Total Nickel	6010B	1.0 mg/kg
Total Selenium	6010B	1.0 mg/kg
Total Silver	6010B	1.0 mg/kg
Total Iron	6010B	5.0 mg/kg

VOC

- meta- & para-xylene – Practical Reporting Limit = 10 mg/kg
- acetone – Practical Reporting Limit = 100 mg/kg
- 2-butanone – Practical Reporting Limit = 10 mg/kg
- 4-methyl-2 pentanone – Practical Reporting Limit = 10 mg/kg
- acrolein – Practical Reporting Limit = 250 mg/kg
- acrylonitrile – Practical Reporting Limit = 250 mg/kg
- 2-hexanone – Practical Reporting Limit = 10 mg/kg
- vinyl acetate – Practical Reporting Limit = 10 mg/kg
- iodomethane – Practical Reporting Limit = 10 mg/kg
- 1,4-dioxane – Practical Reporting Limit = 50 mg/kg
- 1,2-dichloropropene – Practical Reporting Limit = 50 mg/kg

  t-1,4,-dichloro-2-butene – Practical Reporting Limit = 100 mg/kg
- ethyl methacrylate – Practical Reporting Limit = 100 mg/kg
- hexane – Practical Reporting Limit = 10 mg/kg
- bromomethane - Practical Reporting Limit = 10 mg/kg
- chloro ethane - Practical Reporting Limit = 10 mg/kg

Pesticides

- fensulfothion - Practical Reporting Limit = 66 mg/kg
- dieldrin – Practical Reporting Limit = 3.3 µg/kg
- 4,4'-DDE – Practical Reporting Limit = 3.3 µg/kg
- endrin – Practical Reporting Limit = 3.3 µg/kg
- 4,4' - DDD– Practical Reporting Limit = 3.3 µg/kg
- endosulfan sulfate – Practical Reporting Limit = 3.3 µg/kg
- 4,4' – DDT – Practical Reporting Limit = 3.3 µg/kg
- endrine ketone – Practical Reporting Limit = 3.3 µg/kg
- methoxychlor – Practical Reporting Limit = 17 µg/kg
- toxaphene – Practical Reporting Limit = 170 µg/kg
- endrin aldehyde – Practical Reporting Limit = 3.3 µg/kg
- dimethoate - Practical Reporting Limit = 66 mg/kg

Herbicides

- MCPP – Practical Reporting Limit = 1670 µg/kg
- MCPA – Practical Reporting Limit = 1670 µg/kg
- 2,4 - D - Practical Reporting Limit = 167 mg/kg
- 2,4 - DB - Practical Reporting Limit = 167 mg/kg
- Dalapan - Practical Reporting Limit = 333 mg/kg
- Dichloroprop - Practical Reporting Limit = 167 mg/kg
- Dinoseb - Practical Reporting Limit = 83 mg/kg
- Pentachlorophenol - Practical Reporting Limit = 33 mg/kg

Note: Samples for TCLP metals will also be collected and forwarded to the laboratory as contingency parameters. These will not be immediately analyzed.

BIBLIOGRAPHY

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2. *Great Lakes Dredged Material Testing and Evaluation Manual, U.S. EPA and U.S. Army Corps of Engineers, Great Lakes National Program Office, September 30, 1998.*

3. *Solid Waste Program Analytical Data Deliverable Requirements: A Guidance Document, Indiana Department of Environmental Management, Office of Solid and Hazardous Waste Management, Solid Waste Chemistry Section, OSHWM General ID#0038-01-SW, March, 1998.*

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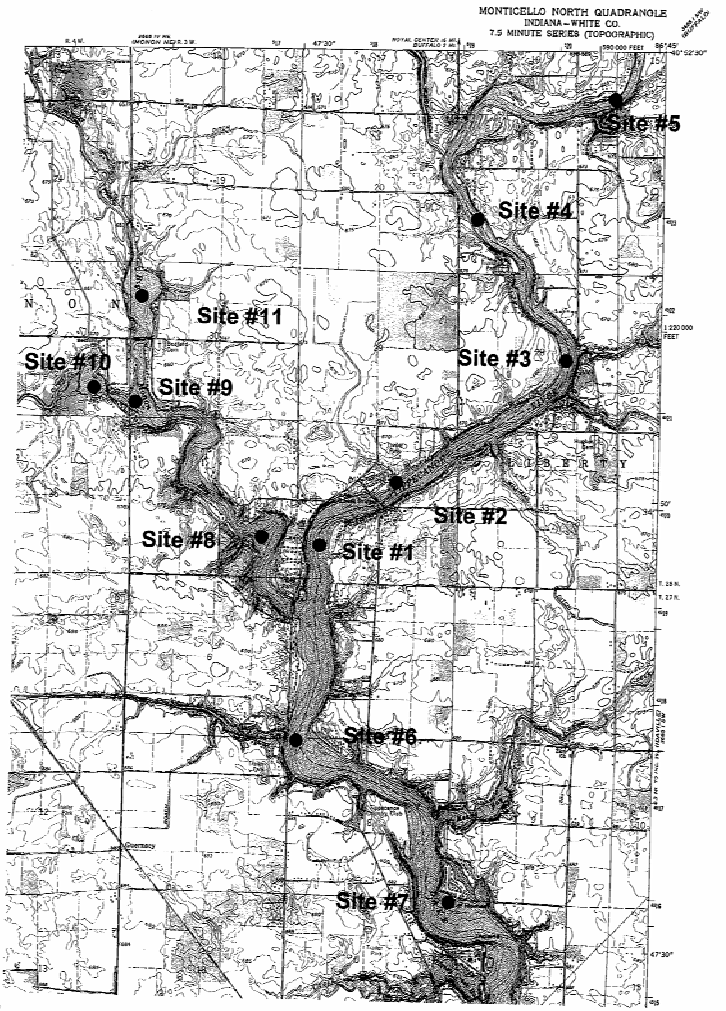
5. *Generic Quality Assurance Project Plan Guidance for Programs Using Community Level Biological Assessment in Wadable Streams and Rivers, Office of Water, EPA 841-B-95-004, July 1995.*

6. *Guidelines and Specifications for Preparing Quality Assurance Project Plans, Washington State Department of Ecology, May 1991.*

7. *Preparing Perfect Project Plans: A Pocket Guide for the Preparation of Quality Assurance Project Plans, Risk Reduction Engineering Laboratory, EPA 600-9-89-087, October 1989.*

APPENDIX ➥

INSERT MAP HERE
SHOWING MANAGEMENT ZONES & SAMPLING STATIONS



Lake Shafer Dredging Project
Sediment Management & Sampling Stations

Sediment Sampling Field Logs

SEDIMENT SAMPLING FIELD LOG[1]

Project: Lake Shafer Enhancement Project

Date: April 25, 2000 3:45 PM

Station Information

Station ID: # 1

Description: East shoreline below inlet with new homes

Positioning Method: Hand Held GPS

16T 0,517,680
UTM 4,519,462

Site Conditions

Temperature: 60° F, Sunny

Precipitation: None

Wind: Medium / 10 - 20 mph

Waves/current: Medium Chop

Elevation

Water surface: 648 MSL

Water depth: 29"

Measurement equipment: N/A Controlled by Hydroelectric Dam - Constant Elevation Maintained

Measurement equipment: Weighted, measuring tape

Datum: USGS

Sediment surface: 645.6

Sampling Information

Sampler type: AMS Core Sampler with butyrate sampling tube inserts and butterfly valve

Sample volume required: 4 Oz.

Recovery: Into stainless steel bucket

Number of sub-samples taken: 5

Sample ID: # 1a to # 1h (no f or g)

Sample homogenized: Yes, except for VOC Sample "b"

Decontamination: Distilled Water

Containers(s): 4 Oz. Glass sampling jars (6)

Visual Inspection

Odor: None

Color: Lt. Brown

Texture/grain size: Fine sand

Remarks: wet and stiff

Log prepared by: Roger Kottlowski, P.E.

Attachment D-2

[1] **From the Great Lakes Dredged Material Testing and Elevation Manual, 1998.**

SEDIMENT SAMPLING FIELD LOG[1]

Project: Lake Shafer Enhancement Project

Date: April 25, 2000 1:45 PM

Station Information

Station ID: # 2

Description: Above Lowes Bridge

Positioning Method: Hand Held GPS

16T 0,518,214
UTM 4,520,066

Site Conditions

Temperature: 55° F, Sunny

Precipitation: None

Wind: Light / 0 - 10 mph

Waves/current: Light

Elevation

Water surface: 648 MSL

Measurement equipment: N/A Controlled by Hydroelectric Dam - Constant Elevation Maintained

Datum: USGS

Water depth: 42"

Measurement equipment: Weighted, measuring tape

Sediment surface: 644.50

Sampling Information

Sampler type: AMS Core Sampler with butyrate sampling tube inserts and butterfly valve

Recovery: Into stainless steel bucket

Sample ID: # 2a to # 2h (no f or g)

Decontamination: Distilled Water

Sample volume required: 4 Oz.

Number of sub-samples taken: 2

Sample homogenized: Yes, except for VOC Sample "b"

Containers(s): 4 Oz. Glass sampling jars (6)

Visual Inspection

Odor: None

Color: Lt. Brown

Texture/grain size: Fine sand

Remarks: wet and stiff

Log prepared by: Roger Kottlowski, P.E.

Attachment D-2

[1] **From the Great Lakes Dredged Material Testing and Elevation Manual, 1998.**

SEDIMENT SAMPLING FIELD LOG[1]

Project: Lake Shafer Enhancement Project

Date: April 25, 2000 12:40 PM

Station Information

Station ID: # 3

Description: Below Carnahan Ditch

Positioning Method: Hand Held GPS

16T 0,520,098
UTM 4,521,454

Site Conditions

Temperature: 55° F, Sunny

Precipitation: None

Wind: Light / 0 - 10 mph

Waves/current: Light

Elevation

Water surface: 648 MSL

Measurement equipment: N/A Controlled by Hydroelectric Dam - Constant Elevation Maintained

Datum: USGS

Water depth: 19"

Measurement equipment: Weighted, measuring tape

Sediment surface: 646.4

Sampling Information

Sampler type: AMS Core Sampler with butyrate sampling tube inserts and butterfly valve

Recovery: Into stainless steel bucket

Sample ID: # 3a to # 3h (no f or g)

Decontamination: Distilled Water

Sample volume required: 4 Oz.

Number of sub-samples taken: 4

Sample homogenized: Yes, except for VOC Sample "b"

Containers(s): 4 Oz. Glass sampling jars (6)

Visual Inspection

Odor: None

Color: Lt. Brown

Texture/grain size: Fine sand

Remarks: wet and stiff

Log prepared by: Roger Kottlowski, P.E.

Attachment D-2

[1] **From the Great Lakes Dredged Material Testing and Elevation Manual, 1998.**

SEDIMENT SAMPLING FIELD LOG[1]

Project: Lake Shafer Enhancement Project

Date: April 25, 2000 11:35 AM

Station Information

Station ID: # 4

Description: Above Sandbar Restaurant

Positioning Method: Hand Held GPS

16T 0,519,668
UTM 4,522,276

Site Conditions

Temperature: 50° F, Sunny

Precipitation: None

Wind: Medium / 10 - 15 mph

Waves/current: Medium

Elevation

Water surface: 648 MSL

Measurement equipment: N/A Controlled by Hydroelectric Dam - Constant Elevation Maintained

Datum: USGS

Water depth: 29"

Measurement equipment: Weighted, measuring tape

Sediment surface: 645.6

Sampling Information

Sampler type: AMS Core Sampler with butyrate sampling tube inserts and butterfly valve

Recovery: Into stainless steel bucket

Sample ID: # 4a to # 4h (no f or g)

Decontamination: Distilled Water

Sample volume required: 4 Oz.

Number of sub-samples taken: 2

Sample homogenized: Yes, except for VOC Sample "b"

Containers(s): 4 Oz. Glass sampling jars (6)

Visual Inspection

Odor: Minimal

Color: Brown and dark brown

Texture/grain size: Coarse and Fine Sand

Remarks: With Organics

Log prepared by: Roger Kottlowski, P.E.

Attachment D-2

[1] **From the Great Lakes Dredged Material Testing and Elevation Manual, 1998.**

SEDIMENT SAMPLING FIELD LOG[1]

Project: Lake Shafer Enhancement Project

Date: April 25, 2000 10:15 AM

Station Information

Station ID: # 5

Description: North Shoreline +/- 50 feet Out

Positioning Method: Hand Held GPS

16T 0,520,644
UTM 4,524,277

Site Conditions

Temperature: 45° F, Sunny

Precipitation: None

Wind: Light / 0 - 5 mph

Waves/current: Light

Elevation

Water surface: 648 MSL

Measurement equipment: N/A Controlled by Hydroelectric Dam - Constant Elevation Maintained

Datum: USGS

Water depth: 39"

Measurement equipment: Weighted, measuring tape

Sediment surface: 644.8

Sampling Information

Sampler type: AMS Core Sampler with butyrate sampling tube inserts and butterfly valve

Recovery: Into stainless steel bucket

Sample ID: # 5a to # 5h (no f or g)

Decontamination: Distilled Water

Sample volume required: 4 Oz.

Number of sub-samples taken: 6

Sample homogenized: Yes, except for VOC Sample "b"

Containers(s): 4 Oz. Glass sampling jars (6)

Visual Inspection

Odor: None

Color: Lt. Brown

Texture/grain size: Coarse brown sand

Remarks: Some organics

Log prepared by: Roger Kottlowski, P.E.

Attachment D-2

[1] **From the Great Lakes Dredged Material Testing and Elevation Manual, 1998.**

SEDIMENT SAMPLING FIELD LOG[1]

Project: Lake Shafer Enhancement Project

Date: April 25, 2000 5:10 PM

Station Information

Station ID: # 6

Description: Below Hoagland Bridge

Positioning Method: Hand Held GPS

16T 0,517,332
UTM 4,517,562

Site Conditions

Temperature: 60° F, Sunny

Precipitation: None

Wind: Light / 0 - 10 mph

Waves/current: Light to medium current

Elevation

Water surface: 648 MSL

Measurement equipment: N/A Controlled by Hydroelectric Dam - Constant Elevation Maintained

Datum: USGS

Water depth: 34"

Measurement equipment: Weighted, measuring tape

Sediment surface: 645.2

Sampling Information

Sampler type: AMS Core Sampler with butyrate sampling tube inserts and butterfly valve

Recovery: Into stainless steel bucket

Sample ID: # 6a to # 6h (no f or g)

Decontamination: Distilled Water

Sample volume required: 4 Oz.

Number of sub-samples taken: 4

Sample homogenized: Yes, except for VOC Sample "b"

Containers(s): 4 Oz. Glass sampling jars (6)

Visual Inspection

Odor: Small Amount

Color: Brown to dark brown

Texture/grain size: Fine sand

Remarks: wet and stiff

Log prepared by: Roger Kottlowski, P.E.

Attachment D-2

[1] **From the Great Lakes Dredged Material Testing and Elevation Manual, 1998.**

SEDIMENT SAMPLING FIELD LOG[1]

Project: Lake Shafer Enhancement Project

Date: April 25, 2000 6:00 PM

Station Information

Station ID: # 7

Description: Isle of Homes SW Side

Positioning Method: Hand Held GPS

16T 0,519,068
UTM 4,516,028

Site Conditions

Temperature: 60° F, Sunny

Precipitation: None

Wind: Light / 0 - 10 mph

Waves/current: Medium

Elevation

Water surface: 648 MSL

Measurement equipment: N/A Controlled by Hydroelectric Dam - Constant Elevation Maintained

Datum: USGS

Water depth: 26"

Measurement equipment: Weighted, measuring tape

Sediment surface: 645.8

Sampling Information

Sampler type: AMS Core Sampler with butyrate sampling tube inserts and butterfly valve

Recovery: Into stainless steel bucket

Sample ID: # 7a to # 7h (no f or g)

Decontamination: Distilled Water

Sample volume required: 4 Oz.

Number of sub-samples taken: 4

Sample homogenized: Yes, except for VOC Sample "b"

Containers(s): 4 Oz. Glass sampling jars (6)

Visual Inspection

Odor: None

Color: Brown

Texture/grain size: Fine sand

Remarks: wet and stiff

Log prepared by: Roger Kottlowski, P.E.

Attachment D-2

[1] **From the Great Lakes Dredged Material Testing and Elevation Manual, 1998.**

SEDIMENT SAMPLING FIELD LOG[1]

Project: Lake Shafer Enhancement Project

Date: April 26, 2000 10:15 AM

Station Information

Station ID: # 8

Description: North Bedford Bay inside of dog leg

Positioning Method: Hand Held GPS

16T 0,516,995
UTM 4,519,603

Site Conditions

Temperature: 45° F, Sunny

Precipitation: None

Wind: Light / 0 - 5 mph

Waves/current: Light

Elevation

Water surface: 648 MSL

Measurement equipment: N/A Controlled by Hydroelectric Dam - Constant Elevation Maintained

Datum: USGS

Water depth: 31"

Measurement equipment: Weighted, measuring tape

Sediment surface: 645.4

Sampling Information

Sampler type: AMS Core Sampler with butyrate sampling tube inserts and butterfly valve

Recovery: Into stainless steel bucket

Sample ID: # 8a to # 8h (no f or g)

Decontamination: Distilled Water

Sample volume required: 4 Oz.

Number of sub-samples taken: 6

Sample homogenized: Yes, except for VOC Sample "b"

Containers(s): 4 Oz. Glass sampling jars (6)

Visual Inspection

Odor: None

Color: Brown

Texture/grain size: Coarse Gravel / Fine sand

Remarks: Very stiff

Log prepared by: Roger Kottlowski, P.E.

Attachment D-2

[1] **From the Great Lakes Dredged Material Testing and Elevation Manual, 1998.**

SEDIMENT SAMPLING FIELD LOG[1]

Project: Lake Shafer Enhancement Project

Date: April 26, 2000 12:45 PM

Station Information

Station ID: # 9

Description: Point at Big Monon Bay below McKillip Ditch

Positioning Method: Hand Held GPS

16T 0,515,648
UTM 4,521,158

Site Conditions

Temperature: 60° F, Sunny

Precipitation: None

Wind: Light / 0 - 10 mph

Waves/current: Light

Elevation

Water surface: 648 MSL

Measurement equipment: N/A Controlled by Hydroelectric Dam - Constant Elevation Maintained

Datum: USGS

Water depth: 26"

Measurement equipment: Weighted, measuring tape

Sediment surface: 645.8

Sampling Information

Sampler type: AMS Core Sampler with butyrate sampling tube inserts and butterfly valve

Recovery: Into stainless steel bucket

Sample ID: # 9a to # 9h (no f or g)

Decontamination: Distilled Water

Sample volume required: 4 Oz.

Number of sub-samples taken: 3

Sample homogenized: Yes, except for VOC Sample "b"

Containers(s): 4 Oz. Glass sampling jars (6)

Visual Inspection

Odor: Slight to None

Color: Very Lt. Brown

Texture/grain size: Very Fine sand

Remarks: Wet and stiff, some trace of Organics at top layer

Log prepared by: Roger Kottlowski, P.E.

Attachment D-2

[1] **From the Great Lakes Dredged Material Testing and Elevation Manual, 1998.**

SEDIMENT SAMPLING FIELD LOG[1]

Project: Lake Shafer Enhancement Project

Date: April 26, 2000 10:50 AM

Station Information

Station ID: # 10

Description: McKillip Ditch

Positioning Method: Hand Held GPS

16T 0,515,324
UTM 4,521,176

Site Conditions

Temperature: 60° F, Sunny

Precipitation: None

Wind: Calm

Waves/current: Calm

Elevation

Water surface: 648 MSL

Measurement equipment: N/A Controlled by Hydroelectric Dam - Constant Elevation Maintained

Datum: USGS

Water depth: 14"

Measurement equipment: Weighted, measuring tape

Sediment surface: 646.8

Sampling Information

Sampler type: AMS Core Sampler with butyrate sampling tube inserts and butterfly valve

Recovery: Into stainless steel bucket

Sample ID: # 10a to # 10h (no f or g)

Decontamination: Distilled Water

Sample volume required: 4 Oz.

Number of sub-samples taken: 2

Sample homogenized: Yes, except for VOC Sample "b"

Containers(s): 4 Oz. Glass sampling jars (6)

Visual Inspection

Odor: Minor

Color: Dark to Black

Texture/grain size: Very Fine silt

Remarks: Muck / loose

Log prepared by: Roger Kottlowski, P.E.

Attachment D-2

[1] **From the Great Lakes Dredged Material Testing and Elevation Manual, 1998.**

SEDIMENT SAMPLING FIELD LOG[1]

Project: Lake Shafer Enhancement Project

Date: April 26, 2000 11:50 AM

Station Information

Station ID: # 11

Description: North Bedford Bay - Central Area

Positioning Method: Hand Held GPS

16T 0,515,794
UTM 4,522,168

Site Conditions

Temperature: 60° F, Sunny

Precipitation: None

Wind: Light to 0

Waves/current: Minimal

Elevation

Water surface: 648 MSL

Measurement equipment: N/A Controlled by Hydroelectric Dam - Constant Elevation Maintained

Datum: USGS

Water depth: 39"

Measurement equipment: Weighted, measuring tape

Sediment surface: 644.8

Sampling Information

Sampler type: AMS Core Sampler with butyrate sampling tube inserts and butterfly valve

Recovery: Into stainless steel bucket

Sample ID: # 11a to # 11h (no f or g)

Decontamination: Distilled Water

Sample volume required: 4 Oz.

Number of sub-samples taken: 3

Sample homogenized: Yes, except for VOC Sample "b"

Containers(s): 4 Oz. Glass sampling jars (6)

Visual Inspection

Odor: Slight

Color: Dark Brown to Black

Texture/grain size: Very Fine sand and Muck

Remarks: Muck

Log prepared by: Roger Kottlowski, P.E.

Attachment D-2

[1] **From the Great Lakes Dredged Material Testing and Elevation Manual, 1998.**

SEDIMENT SAMPLING FIELD LOG[1]

Project:

Date:

Station Information

Station ID:

Description:

Positioning Method:

Site Conditions

Temperature:

Precipitation:

Wind:

Waves/current:

Elevation

Water surface:

Measurement equipment:

Datum:

Water depth:

Measurement equipment:

Sediment surface:

Sampling Information

Sampler type:

Recovery:

Sample ID:

Decontamination:

Sample volume required:

Number of sub-samples taken:

Sample homogonized:

Containers(s):

Visual Inspection

Odor:

Color:

Texture/grain size:

Remarks:

Log prepared by:_____

Attachment D-2

[1] **From the Great Lakes Dredged Material Testing and Elevation Manual, 1998.**

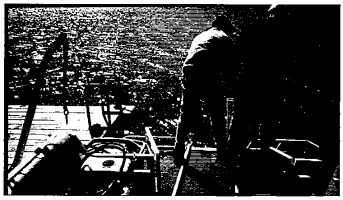
Table D-6. Categories of Sediment Characteristics[3]

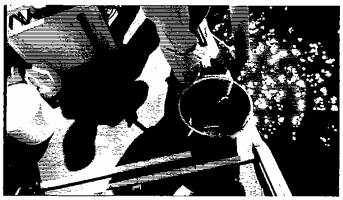
Type	Size or Characteristic
Cobbles	75 to 300 mm (3 to 12")
Gravel	4.75 to 75 mm (3/16 to 3")
Sand	0.075 to 4.75 mm
Silt	0.005 to 0.075 mm in diameter
Clay	< 0.005 mm; smooth, slick feeling when rubbed between fingers
Organic Components[2]	
Detritus	accumulated wood, sticks, and other undecayed coarse plant materials
Fibrous peat	partially decomposed plant remains; parts of plants readily distinguishable
Pulpy peat	very finely divided plant remains; parts of plants not distinguishable; varies in color from green to brown; varies greatly in consistency - often semi-fluid
Muck	black, finely divided organic matter; completely decomposed

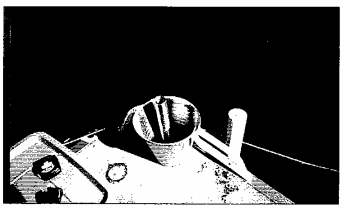
[1] **Unified Soil Classification System**
[2] **USEPA (1973)**
[3] **From the Great Lakes Dredged Material Testing and Elevation Manual, 1998.**

Project Photographs

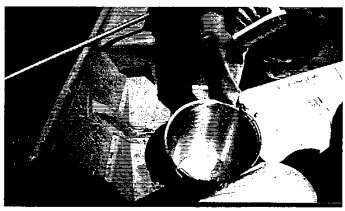
Sediment Sampling Photos
Lake Shafer & Big Monon Bay
April 25 - 26, 2000



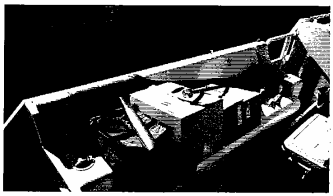


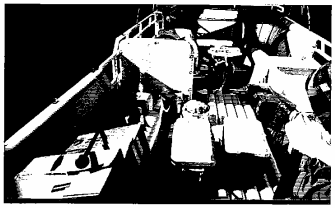


Sediment Sampling Photos
Lake Shafer & Big Monon Bay
April 25 - 26, 2000



Sediment Sampling Photos
Lake Shafer & Big Monon Bay
April 25 - 26, 2000





Supplemental Laboratory Data

SPECIALIZED ASSAYS, INC.
2960 Foster Creighton Dr.
P.O. Box 40566
Nashville, TN 37204-0566
Phone 1-615-726-0177

ANALYTICAL REPORT

Laboratory Number: 00-A58004
Sample ID: 264716

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Date	Time	Analyst	Method	Batch
Azinphos, methyl	ND	ug/kg	0.109	0.033	1	5/ 5/00	9:02	M. Cauthen	8141A	306
Belstar	ND	ug/kg	0.109	0.033	1	5/ 5/00	9:02	M. Cauthen	8141A	306
Chlorpyrifos	ND	ug/kg	0.109	0.095	1	5/ 5/00	9:02	M. Cauthen	8141A	306
Coumaphos	ND	ug/kg	0.109	0.033	1	5/ 5/00	9:02	M. Cauthen	8141A	306
Demeton-o	ND	ug/kg	0.109	0.033	1	5/ 5/00	9:02	M. Cauthen	8141A	306
Demeton-s	ND	ug/kg	0.109	0.033	1	5/ 5/00	9:02	M. Cauthen	8141A	306
Diazinon	ND	ug/kg	0.109	0.033	1	5/ 5/00	9:02	M. Cauthen	8141A	306
Dichlorvos	ND	ug/kg	0.109	0.066	1	5/ 5/00	9:02	M. Cauthen	8141A	306
Disulfoton	ND	ug/kg	0.109	0.033	1	5/ 5/00	9:02	M. Cauthen	8141A	306
Ethoprop	ND	ug/kg	0.109	0.033	1	5/ 5/00	9:02	M. Cauthen	8141A	306
Fensulfothion	ND	ug/kg	0.219	0.066	1	5/ 5/00	9:02	M. Cauthen	8141A	306
Fenthion	ND	ug/kg	0.109	0.033	1	5/ 5/00	9:02	M. Cauthen	8141A	306
Merphos	ND	ug/kg	0.109	0.066	1	5/ 5/00	9:02	M. Cauthen	8141A	306
Mevinphos	ND	ug/kg	0.219	0.067	1	5/ 5/00	9:02	M. Cauthen	8141A	306
Naled	ND	ug/kg	1.09	0.333	1	5/ 5/00	9:02	M. Cauthen	8141A	306
Methylparathion	ND	ug/kg	0.109	0.033	1	5/ 5/00	9:02	M. Cauthen	8141A	306
Phorate	ND	ug/kg	0.109	0.033	1	5/ 5/00	9:02	M. Cauthen	8141A	306
Ronnel	ND	ug/kg	0.109	0.033	1	5/ 5/00	9:02	M. Cauthen	8141A	306
Stirofos	ND	ug/kg	0.109	0.033	1	5/ 5/00	9:02	M. Cauthen	8141A	306
Tokuthion	ND	ug/kg	0.109	0.033	1	5/ 5/00	9:02	M. Cauthen	8141A	306
Trichloronate	ND	ug/kg	0.109	0.033	1	5/ 5/00	9:02	M. Cauthen	8141A	306
Dimethoate	ND	ug/kg	0.219	0.066	1	5/ 5/00	9:02	M. Cauthen	8141A	306
EPN	ND	ug/kg	0.109	0.033	1	5/ 5/00	9:02	M. Cauthen	8141A	306
Malathion	ND	ug/kg	0.109	0.033	1	5/ 5/00	9:02	M. Cauthen	8141A	306
Monocrotophos	ND	ug/kg	1.09	0.333	1	5/ 5/00	9:02	M. Cauthen	8141A	306
Ethyl parathion	ND	ug/kg	0.109	0.033	1	5/ 5/00	9:02	M. Cauthen	8141A	306
Sulfotep	ND	ug/kg	0.109	0.033	1	5/ 5/00	9:02	M. Cauthen	8141A	306
TEPP	ND	ug/kg	1.09	0.333	1	5/ 5/00	9:02	M. Cauthen	8141A	306
GENERAL CHEMISTRY PARAMETERS										
% Dry Weight	87.	%			1	5/ 2/00	8:54	J. Rudden	CLP	7225
	Comment					5/12/00		P.Lane		5306
	Comment					5/11/00		P.Lane		4749
	Comment					5/10/00		P.Lane		4077

ND = Not detected at the report limit.

COPY 1

SPECIALIZED ASSAYS, INC.
2960 Foster Creighton Dr.
P.O. Box 40586
Nashville, TN 37204-0566
Phone 1-615-726-0177

ANALYTICAL REPORT

Laboratory Number: 00-A58006
Sample ID: 264718

Page 3 3 A-H

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Date	Time	Analyst	Method	Batch
o-Xylene	ND ✓	ug/kg	0.0024	0.0020	1	4/30/00	1:50	R.Ward	8260B	7224
m,p-Xylene	ND	ug/kg	0.0024	0.0020	1	4/30/00	1:50	R.Ward	8260B	7224
Trichlorofluoromethane	ND	ug/kg	0.0024	0.0020	1	4/30/00	1:50	R.Ward	8260B	7224
Hexane	ND	ug/kg	0.006	0.005	1	4/30/00	1:50	R.Ward	8260B	5098
PESTICIDE/PCB's/HERBICIDES										
2,4-D	ND ✓	ug/kg	0.1920	0.1613	1	5/ 9/00	20:12	M. Cauthen	8151A	2328
2,4,5-T	ND	ug/kg	0.019	0.016	1	5/ 9/00	20:12	M. Cauthen	8151A	2328
2,4,5-TP (Silvex)	ND ✓	ug/kg	0.0192	0.0161	1	5/ 9/00	20:12	M. Cauthen	8151A	2328
Dalapon	ND	ug/kg	0.3840	0.3226	1	5/ 9/00	20:12	M. Cauthen	8151A	2328
2,4-DB	ND	ug/kg	0.192	0.161	1	5/ 9/00	20:12	M. Cauthen	8151A	2328
Dicamba	ND	ug/kg	0.0192	0.0161	1	5/ 9/00	20:12	M. Cauthen	8151A	2328
Dichloroprop	ND	ug/kg	0.192	0.161	1	5/ 9/00	20:12	M. Cauthen	8151A	2328
Dinoseb	ND	ug/kg	0.0960	0.0806	1	5/ 9/00	20:12	M. Cauthen	8151A	2328
MCPA	ND	ug/kg	19.2	16.1	1	5/ 9/00	20:12	M. Cauthen	8151A	2328
MCPP	ND	ug/kg	19.2	16.1	1	5/ 9/00	20:12	M. Cauthen	8151A	2328
Pentachlorophenol	ND	ug/kg	0.0192	0.0161	1	5/ 9/00	20:12	M. Cauthen	8151A	2328
4-Nitrophenol	ND	ug/kg	0.0192	0.0010	1	5/ 9/00	20:12	M. Cauthen	8151A	2328
Aldrin	ND ✓	ug/kg	0.00198	0.00166	1	5/10/00	2:47	M. Cauthen	8081A	310
a-BHC	ND	ug/kg	0.00198	0.00166	1	5/10/00	2:47	M. Cauthen	8081A	310
b-BHC	ND	ug/kg	0.00198	0.00166	1	5/10/00	2:47	M. Cauthen	8081A	310
d-BHC	ND	ug/kg	0.00198	0.00166	1	5/10/00	2:47	M. Cauthen	8081A	310
g-BHC, Lindane	ND	ug/kg	0.00198	0.00166	1	5/10/00	2:47	M. Cauthen	8081A	310
4,4'-DDD	ND	ug/kg	0.00396	0.00333	1	5/10/00	2:47	M. Cauthen	8081A	310
4,4'-DDE	ND	ug/kg	0.00396	0.00333	1	5/10/00	2:47	M. Cauthen	8081A	310
4,4'DDT	ND	ug/kg	0.00396	0.00333	1	5/10/00	2:47	M. Cauthen	8081A	310
Dieldrin	ND	ug/kg	0.00396	0.00333	1	5/10/00	2:47	M. Cauthen	8081A	310
Endosulfan I	ND	ug/kg	0.00198	0.00166	1	5/10/00	2:47	M. Cauthen	8081A	310
Endosulfan II	ND	ug/kg	0.00396	0.00333	1	5/10/00	2:47	M. Cauthen	8081A	310
Endosulfan sulfate	ND	ug/kg	0.00396	0.00333	1	5/10/00	2:47	M. Cauthen	8081A	310
Endrin	ND	ug/kg	0.00396	0.00333	1	5/10/00	2:47	M. Cauthen	8081A	310
Endrin aldehyde	ND	ug/kg	0.00396	0.00333	1	5/10/00	2:47	M. Cauthen	8081A	310
Endrin Ketone	ND	ug/kg	0.00396	0.00333	1	5/10/00	2:47	M. Cauthen	8081A	310
Heptachlor	ND	ug/kg	0.00198	0.00166	1	5/10/00	2:47	M. Cauthen	8081A	310
Heptachlor epoxide	ND	ug/kg	0.00198	0.00166	1	5/10/00	2:47	M. Cauthen	8081A	310
Methoxychlor	ND	ug/kg	0.01982	0.01665	1	5/10/00	2:47	M. Cauthen	8081A	310
Toxaphene	ND	ug/kg	0.1982	0.1665	1	5/10/00	2:47	M. Cauthen	8081A	310
alpha-Chlordane	ND	ug/kg	0.00198	0.00166	1	5/10/00	2:47	M. Cauthen	8081A	310
gamma-Chlordane	ND	ug/kg	0.00198	0.00166	1	5/10/00	2:47	M. Cauthen	8081A	310

COPY 1

SPECIALIZED ASSAYS, INC.
2960 Foster Creighton Dr.
P.O. Box 40566
Nashville, TN 37204-0566
Phone 1-615-726-0177

ANALYTICAL REPORT

Laboratory Number: 00-A58006
Sample ID: 264718

Page 4

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Date	Time	Analyst	Method	Batch
Azinphos, methyl	ND	ug/kg	0.116	0.033	1	5/ 5/00	10:12	M. Cauthen	8141A	306
Bolstar	ND	ug/kg	0.116	0.033	1	5/ 5/00	10:12	M. Cauthen	8141A	306
Chlorpyrifos	ND	ug/kg	0.116	0.097	1	5/ 5/00	10:12	M. Cauthen	8141A	306
Coumaphos	ND	ug/kg	0.116	0.033	1	5/ 5/00	10:12	M. Cauthen	8141A	306
Demeton-o	ND	ug/kg	0.116	0.033	1	5/ 5/00	10:12	M. Cauthen	8141A	306
Demeton-s	ND	ug/kg	0.116	0.033	1	5/ 5/00	10:12	M. Cauthen	8141A	306
Diazinon	ND	ug/kg	0.116	0.033	1	5/ 5/00	10:12	M. Cauthen	8141A	306
Dichlorvos	ND	ug/kg	0.116	0.066	1	5/ 5/00	10:12	M. Cauthen	8141A	306
Disulfoton	ND	ug/kg	0.116	0.033	1	5/ 5/00	10:12	M. Cauthen	8141A	306
Ethoprop	ND	ug/kg	0.116	0.033	1	5/ 5/00	10:12	M. Cauthen	8141A	306
Fensulfothion	ND	ug/kg	0.231	0.066	1	5/ 5/00	10:12	M. Cauthen	8141A	306
Fenthion	ND	ug/kg	0.116	0.033	1	5/ 5/00	10:12	M. Cauthen	8141A	306
Merphos	ND	ug/kg	0.116	0.066	1	5/ 5/00	10:12	M. Cauthen	8141A	306
Mevinphos	ND	ug/kg	0.231	0.067	1	5/ 5/00	10:12	M. Cauthen	8141A	306
Naled	ND	ug/kg	1.16	0.333	1	5/ 5/00	10:12	M. Cauthen	8141A	306
Methylparathion	ND	ug/kg	0.116	0.033	1	5/ 5/00	10:12	M. Cauthen	8141A	306
Phorate	ND	ug/kg	0.116	0.033	1	5/ 5/00	10:12	M. Cauthen	8141A	306
Ronnel	ND	ug/kg	0.116	0.033	1	5/ 5/00	10:12	M. Cauthen	8141A	306
Stirofos	ND	ug/kg	0.116	0.033	1	5/ 5/00	10:12	M. Cauthen	8141A	306
Tokuthion	ND	ug/kg	0.116	0.033	1	5/ 5/00	10:12	M. Cauthen	8141A	306
Trichloronate	ND	ug/kg	0.116	0.033	1	5/ 5/00	10:12	M. Cauthen	8141A	306
Dimethoate	ND	ug/kg	0.231	0.066	1	5/ 5/00	10:12	M. Cauthen	8141A	306
EPN	ND	ug/kg	0.116	0.033	1	5/ 5/00	10:12	M. Cauthen	8141A	306
Malathion	ND	ug/kg	0.116	0.033	1	5/ 5/00	10:12	M. Cauthen	8141A	306
Monocrotophos	ND	ug/kg	1.16	0.333	1	5/ 5/00	10:12	M. Cauthen	8141A	306
Ethyl parathion	ND	ug/kg	0.116	0.033	1	5/ 5/00	10:12	M. Cauthen	8141A	306
Sulfotep	ND	ug/kg	0.116	0.033	1	5/ 5/00	10:12	M. Cauthen	8141A	306
TEPP	ND	ug/kg	1.16	0.333	1	5/ 5/00	10:12	M. Cauthen	8141A	306
GENERAL CHEMISTRY PARAMETERS										
% Dry Weight	84.	%			1	5/ 2/00	8:54	J. Rudden	CLP	7225
	Comment					5/12/00		P.Lane		5306
	Comment					5/11/00		P.Lane		4749
	Comment					5/10/00		P.Lane		4077

ND = Not detected at the report limit.

COPY 1

SPECIALIZED ASSAYS, INC.
2960 Foster Creighton Dr.
P.O. Box 40568
Nashville, TN 37204-0566
Phone 1-615-726-0177

ANALYTICAL REPORT

Laboratory Number: 00-A58007
Sample ID: 264719
4 A-H

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Date	Time	Analyst	Method	Batch
o-Xylene	ND ✓	ug/kg	0.0025	0.0020	1	5/ 1/00	13:51	R.Ward	8260B	7224
m,p-Xylene	ND	ug/kg	0.0025	0.0020	1	5/ 1/00	13:51	R.Ward	8260B	7224
Trichlorofluoromethane	ND	ug/kg	0.0025	0.0020	1	5/ 1/00	13:51	R.Ward	8260B	7224
Hexane	ND	ug/kg	0.006	0.005	1	5/ 1/00	13:51	R.Ward	8260B	5098
PESTICIDE/PCB's/HERBICIDES										
2,4-D	ND ✓	ug/kg	0.2058	0.1667	1	5/ 9/00	20:43	M. Cauthen	8151A	2328
2,4,5-T	ND ✓	ug/kg	0.021	0.017	1	5/ 9/00	20:43	M. Cauthen	8151A	2328
2,4,5-TP (Silvex)	ND ✓	ug/kg	0.0206	0.0167	1	5/ 9/00	20:43	M. Cauthen	8151A	2328
Dalapon	ND	ug/kg	0.4115	0.3330	1	5/ 9/00	20:43	M. Cauthen	8151A	2328
2,4-DB	ND	ug/kg	0.206	0.167	1	5/ 9/00	20:43	M. Cauthen	8151A	2328
Dicamba	ND	ug/kg	0.0206	0.0167	1	5/ 9/00	20:43	M. Cauthen	8151A	2328
Dichloroprop	ND	ug/kg	0.206	0.167	1	5/ 9/00	20:43	M. Cauthen	8151A	2328
Dinoseb	ND	ug/kg	0.1029	0.0830	1	5/ 9/00	20:43	M. Cauthen	8151A	2328
MCPA	ND	ug/kg	20.6	16.7	1	5/ 9/00	20:43	M. Cauthen	8151A	2328
MCPP	ND	ug/kg	20.6	16.7	1	5/ 9/00	20:43	M. Cauthen	8151A	2328
Pentachlorophenol	ND	ug/kg	0.0206	0.0167	1	5/ 9/00	20:43	M. Cauthen	8151A	2328
4-Nitrophenol	ND	ug/kg	0.0206	0.0010	1	5/ 9/00	20:43	M. Cauthen	8151A	2328
Aldrin	ND ✓	ug/kg	0.00206	0.00166	1	5/10/00	3:27	M. Cauthen	8081A	310
a-BHC	ND	ug/kg	0.00206	0.00166	1	5/10/00	3:27	M. Cauthen	8081A	310
b-BHC	ND	ug/kg	0.00206	0.00166	1	5/10/00	3:27	M. Cauthen	8081A	310
d-BHC	ND	ug/kg	0.00206	0.00166	1	5/10/00	3:27	M. Cauthen	8081A	310
g-BHC, Lindane	ND	ug/kg	0.00206	0.00166	1	5/10/00	3:27	M. Cauthen	8081A	310
4,4'-DDD	ND	ug/kg	0.00411	0.00333	1	5/10/00	3:27	M. Cauthen	8081A	310
4,4'-DDE	ND	ug/kg	0.00411	0.00333	1	5/10/00	3:27	M. Cauthen	8081A	310
4,4'DDT	ND	ug/kg	0.00411	0.00333	1	5/10/00	3:27	M. Cauthen	8081A	310
Dieldrin	ND	ug/kg	0.00411	0.00333	1	5/10/00	3:27	M. Cauthen	8081A	310
Endosulfan I	ND	ug/kg	0.00206	0.00166	1	5/10/00	3:27	M. Cauthen	8081A	310
Endosulfan II	ND	ug/kg	0.00411	0.00333	1	5/10/00	3:27	M. Cauthen	8081A	310
Endosulfan sulfate	ND	ug/kg	0.00411	0.00333	1	5/10/00	3:27	M. Cauthen	8081A	310
Endrin	ND	ug/kg	0.00411	0.00333	1	5/10/00	3:27	M. Cauthen	8081A	310
Endrin aldehyde	ND	ug/kg	0.00411	0.00333	1	5/10/00	3:27	M. Cauthen	8081A	310
Endrin Ketone	ND	ug/kg	0.00411	0.00333	1	5/10/00	3:27	M. Cauthen	8081A	310
Heptachlor	ND	ug/kg	0.00206	0.00166	1	5/10/00	3:27	M. Cauthen	8081A	310
Heptachlor epoxide	ND	ug/kg	0.00206	0.00166	1	5/10/00	3:27	M. Cauthen	8081A	310
Methoxychlor	ND	ug/kg	0.02056	0.01665	1	5/10/00	3:27	M. Cauthen	8081A	310
Toxaphene	ND	ug/kg	0.2056	0.1665	1	5/10/00	3:27	M. Cauthen	8081A	310
alpha-Chlordane	ND	ug/kg	0.00206	0.00166	1	5/10/00	3:27	M. Cauthen	8081A	310
gamma-Chlordane	ND	ug/kg	0.00206	0.00166	1	5/10/00	3:27	M. Cauthen	8081A	310

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SPECIALIZED ASSAYS, INC.
2960 Foster Creighton Dr.
P.O. Box 40566
Nashville, TN 37204-0566
Phone 1-615-726-0177

ANALYTICAL REPORT

Laboratory Number: 00-A58007
Sample ID: 264719

Page 4

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Date	Time	Analyst	Method	Batch
Azinphos, methyl	ND	ug/kg	0.115	0.033	1	5/ 5/00	10:47	M. Cauthen	8141A	306
Bolstar	ND	ug/kg	0.115	0.033	1	5/ 5/00	10:47	M. Cauthen	8141A	306
Chlorpyrifos	ND	ug/kg	0.115	0.093	1	5/ 5/00	10:47	M. Cauthen	8141A	306
Coumaphos	ND	ug/kg	0.115	0.033	1	5/ 5/00	10:47	M. Cauthen	8141A	306
Demeton-o	ND	ug/kg	0.115	0.033	1	5/ 5/00	10:47	M. Cauthen	8141A	306
Demeton-s	ND	ug/kg	0.115	0.033	1	5/ 5/00	10:47	M. Cauthen	8141A	306
Diazinon	ND	ug/kg	0.115	0.033	1	5/ 5/00	10:47	M. Cauthen	8141A	306
Dichlorvos	ND	ug/kg	0.115	0.066	1	5/ 5/00	10:47	M. Cauthen	8141A	306
Disulfoton	ND	ug/kg	0.115	0.033	1	5/ 5/00	10:47	M. Cauthen	8141A	306
Ethoprop	ND	ug/kg	0.115	0.033	1	5/ 5/00	10:47	M. Cauthen	8141A	306
Fensulfothion	ND	ug/kg	0.231	0.066	1	5/ 5/00	10:47	M. Cauthen	8141A	306
Fenthion	ND	ug/kg	0.115	0.033	1	5/ 5/00	10:47	M. Cauthen	8141A	306
Merphos	ND	ug/kg	0.115	0.066	1	5/ 5/00	10:47	M. Cauthen	8141A	306
Mevinphos	ND	ug/kg	0.231	0.067	1	5/ 5/00	10:47	M. Cauthen	8141A	306
Naled	ND	ug/kg	1.15	0.333	1	5/ 5/00	10:47	M. Cauthen	8141A	306
Methylparathion	ND	ug/kg	0.115	0.033	1	5/ 5/00	10:47	M. Cauthen	8141A	306
Phorate	ND	ug/kg	0.115	0.033	1	5/ 5/00	10:47	M. Cauthen	8141A	306
Ronnel	ND	ug/kg	0.115	0.033	1	5/ 5/00	10:47	M. Cauthen	8141A	306
Stirofos	ND	ug/kg	0.115	0.033	1	5/ 5/00	10:47	M. Cauthen	8141A	306
Tokuthion	ND	ug/kg	0.115	0.033	1	5/ 5/00	10:47	M. Cauthen	8141A	306
Trichloronate	ND	ug/kg	0.115	0.033	1	5/ 5/00	10:47	M. Cauthen	8141A	306
Dimethoate	ND	ug/kg	0.231	0.066	1	5/ 5/00	10:47	M. Cauthen	8141A	306
EPN	ND	ug/kg	0.115	0.033	1	5/ 5/00	10:47	M. Cauthen	8141A	306
Malathion	ND	ug/kg	0.115	0.033	1	5/ 5/00	10:47	M. Cauthen	8141A	306
Monocrotophos	ND	ug/kg	1.15	0.333	1	5/ 5/00	10:47	M. Cauthen	8141A	306
Ethyl parathion	ND	ug/kg	0.115	0.033	1	5/ 5/00	10:47	M. Cauthen	8141A	306
Sulfotep	ND	ug/kg	0.115	0.033	1	5/ 5/00	10:47	M. Cauthen	8141A	306
TEPP	ND	ug/kg	1.15	0.333	1	5/ 5/00	10:47	M. Cauthen	8141A	306
GENERAL CHEMISTRY PARAMETERS										
% Dry Weight	81.	%			1	5/ 2/00	8:54	J. Rudden	CLP	7225
	Comment					5/12/00		P.Lane		5306
	Comment					5/11/00		P.Lane		4749
	Comment					5/10/00		P.Lane		4077

ND = Not detected at the report limit.

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SPECIALIZED ASSAYS, INC.
2960 Foster Creighton Dr.
P.O. Box 40566
Nashville, TN 37204-0566
Phone 1-615-726-0177

ANALYTICAL REPORT

Laboratory Number: 00-A58008
Sample ID: 264720

Page 3 5 A-H

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Date	Time	Analyst	Method	Batch
o-Xylene	ND ✓	ug/kg	0.0024	0.0020	1	4/30/00	3:03	R.Ward	8260B	7224
m,p-Xylene	ND	ug/kg	0.0024	0.0020	1	4/30/00	3:03	R.Ward	8260B	7224
Trichlorofluoromethane	ND	ug/kg	0.0024	0.0020	1	4/30/00	3:03	R.Ward	8260B	7224
Hexane	ND	ug/kg	0.006	0.005	1	4/30/00	3:03	R.Ward	8260B	5098
PESTICIDE/PCB's/HERBICIDES										
2,4-D	ND ✓	ug/kg	0.1984	0.1667	1	5/ 9/00	21:14	M. Cauthen	8151A	2328
2,4,5-T	ND	ug/kg	0.020	0.017	1	5/ 9/00	21:14	M. Cauthen	8151A	2328
2,4,5-TP (Silvex)	ND ✓	ug/kg	0.0198	0.0167	1	5/ 9/00	21:14	M. Cauthen	8151A	2328
Dalapon	ND	ug/kg	0.3968	0.3330	1	5/ 9/00	21:14	M. Cauthen	8151A	2328
2,4-DB	ND	ug/kg	0.198	0.167	1	5/ 9/00	21:14	M. Cauthen	8151A	2328
Dicamba	ND	ug/kg	0.0198	0.0167	1	5/ 9/00	21:14	M. Cauthen	8151A	2328
Dichloroprop	ND	ug/kg	0.198	0.167	1	5/ 9/00	21:14	M. Cauthen	8151A	2328
Dinoseb	ND	ug/kg	0.0992	0.0830	1	5/ 9/00	21:14	M. Cauthen	8151A	2328
MCPA	ND	ug/kg	19.8	16.7	1	5/ 9/00	21:14	M. Cauthen	8151A	2328
MCPP	ND	ug/kg	19.8	16.7	1	5/ 9/00	21:14	M. Cauthen	8151A	2328
Pentachlorophenol	ND	ug/kg	0.0198	0.0167	1	5/ 9/00	21:14	M. Cauthen	8151A	2328
4-Nitrophenol	ND	ug/kg	0.0198	0.0010	1	5/ 9/00	21:14	M. Cauthen	8151A	2328
Aldrin	ND ✓	ug/kg	0.00198	0.00166	1	5/10/00	4:08	M. Cauthen	8081A	310
a-BHC	ND	ug/kg	0.00198	0.00166	1	5/10/00	4:08	M. Cauthen	8081A	310
b-BHC	ND	ug/kg	0.00198	0.00166	1	5/10/00	4:08	M. Cauthen	8081A	310
d-BHC	ND	ug/kg	0.00198	0.00166	1	5/10/00	4:08	M. Cauthen	8081A	310
g-BHC, Lindane	ND	ug/kg	0.00198	0.00166	1	5/10/00	4:08	M. Cauthen	8081A	310
4,4'-DDD	ND	ug/kg	0.00396	0.00333	1	5/10/00	4:08	M. Cauthen	8081A	310
4,4'-DDE	ND	ug/kg	0.00396	0.00333	1	5/10/00	4:08	M. Cauthen	8081A	310
4,4'DDT	ND	ug/kg	0.00396	0.00333	1	5/10/00	4:08	M. Cauthen	8081A	310
Dieldrin	ND	ug/kg	0.00396	0.00333	1	5/10/00	4:08	M. Cauthen	8081A	310
Endosulfan I	ND	ug/kg	0.00198	0.00166	1	5/10/00	4:08	M. Cauthen	8081A	310
Endosulfan II	ND	ug/kg	0.00396	0.00333	1	5/10/00	4:08	M. Cauthen	8081A	310
Endosulfan sulfate	ND	ug/kg	0.00396	0.00333	1	5/10/00	4:08	M. Cauthen	8081A	310
Endrin	ND	ug/kg	0.00396	0.00333	1	5/10/00	4:08	M. Cauthen	8081A	310
Endrin aldehyde	ND	ug/kg	0.00396	0.00333	1	5/10/00	4:08	M. Cauthen	8081A	310
Endrin Ketone	ND	ug/kg	0.00396	0.00333	1	5/10/00	4:08	M. Cauthen	8081A	310
Heptachlor	ND	ug/kg	0.00198	0.00166	1	5/10/00	4:08	M. Cauthen	8081A	310
Heptachlor epoxide	ND	ug/kg	0.00198	0.00166	1	5/10/00	4:08	M. Cauthen	8081A	310
Methoxychlor	ND	ug/kg	0.01982	0.01665	1	5/10/00	4:08	M. Cauthen	8081A	310
Toxaphene	ND	ug/kg	0.1982	0.1665	1	5/10/00	4:08	M. Cauthen	8081A	310
alpha-Chlordane	ND	ug/kg	0.00198	0.00166	1	5/10/00	4:08	M. Cauthen	8081A	310
gamma-Chlordane	ND	ug/kg	0.00198	0.00166	1	5/10/00	4:08	M. Cauthen	8081A	310

SPECIALIZED ASSAYS, INC.
2960 Foster Creighton Dr.
P.O. Box 40566
Nashville, TN 37204-0566
Phone 1-615-726-0177

ANALYTICAL REPORT

Laboratory Number: 00-A58008
Sample ID: 264720

Page 4

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Date	Time	Analyst	Method	Batch
Azinphos, methyl	ND	ug/kg	0.112	0.033	1	5/ 5/00	11:22	M. Cauthen	8141A	306
Bolstar	ND	ug/kg	0.112	0.033	1	5/ 5/00	11:22	M. Cauthen	8141A	306
Chlorpyrifos	ND	ug/kg	0.112	0.094	1	5/ 5/00	11:22	M. Cauthen	8141A	306
Coumaphos	ND	ug/kg	0.112	0.033	1	5/ 5/00	11:22	M. Cauthen	8141A	306
Demeton-o	ND	ug/kg	0.112	0.033	1	5/ 5/00	11:22	M. Cauthen	8141A	306
Demeton-s	ND	ug/kg	0.112	0.033	1	5/ 5/00	11:22	M. Cauthen	8141A	306
Diazinon	ND	ug/kg	0.112	0.033	1	5/ 5/00	11:22	M. Cauthen	8141A	306
Dichlorvos	ND	ug/kg	0.112	0.066	1	5/ 5/00	11:22	M. Cauthen	8141A	306
Disulfoton	ND	ug/kg	0.112	0.033	1	5/ 5/00	11:22	M. Cauthen	8141A	306
Ethoprop	ND	ug/kg	0.112	0.033	1	5/ 5/00	11:22	M. Cauthen	8141A	306
Fensulfothion	ND	ug/kg	0.225	0.066	1	5/ 5/00	11:22	M. Cauthen	8141A	306
Fenthion	ND	ug/kg	0.112	0.033	1	5/ 5/00	11:22	M. Cauthen	8141A	306
Merphos	ND	ug/kg	0.112	0.066	1	5/ 5/00	11:22	M. Cauthen	8141A	306
Mevinphos	ND	ug/kg	0.225	0.067	1	5/ 5/00	11:22	M. Cauthen	8141A	306
Naled	ND	ug/kg	1.12	0.333	1	5/ 5/00	11:22	M. Cauthen	8141A	306
Methylparathion	ND	ug/kg	0.112	0.033	1	5/ 5/00	11:22	M. Cauthen	8141A	306
Phorate	ND	ug/kg	0.112	0.033	1	5/ 5/00	11:22	M. Cauthen	8141A	306
Ronnel	ND	ug/kg	0.112	0.033	1	5/ 5/00	11:22	M. Cauthen	8141A	306
Stirofos	ND	ug/kg	0.112	0.033	1	5/ 5/00	11:22	M. Cauthen	8141A	306
Tokuthion	ND	ug/kg	0.112	0.033	1	5/ 5/00	11:22	M. Cauthen	8141A	306
Trichloronate	ND	ug/kg	0.112	0.033	1	5/ 5/00	11:22	M. Cauthen	8141A	306
Dimethoate	ND	ug/kg	0.225	0.066	1	5/ 5/00	11:22	M. Cauthen	8141A	306
EPN	ND	ug/kg	0.112	0.033	1	5/ 5/00	11:22	M. Cauthen	8141A	306
Malathion	ND	ug/kg	0.112	0.033	1	5/ 5/00	11:22	M. Cauthen	8141A	306
Monocrotophos	ND	ug/kg	1.12	0.333	1	5/ 5/00	11:22	M. Cauthen	8141A	306
Ethyl parathion	ND	ug/kg	0.112	0.033	1	5/ 5/00	11:22	M. Cauthen	8141A	306
Sulfotep	ND	ug/kg	0.112	0.033	1	5/ 5/00	11:22	M. Cauthen	8141A	306
TEPP	ND	ug/kg	1.12	0.333	1	5/ 5/00	11:22	M. Cauthen	8141A	306
GENERAL CHEMISTRY PARAMETERS										
% Dry Weight	84.	%			1	5/ 2/00	9:54	J. Rudden	CLP	7225
	Comment					5/12/00		P.Lane		5306
	Comment					5/11/00		P.Lane		4749
	Comment					5/10/00		P.Lane		4077

ND = Not detected at the report limit.

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SPECIALIZED ASSAYS, INC.
2960 Foster Creighton Dr.
P.O. Box 40566
Nashville, TN 37204-0566
Phone 1-615-726-0177

ANALYTICAL REPORT

Laboratory Number: 00-A58009
Sample ID: 264721

Page 3 6 A+H

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Date	Time	Analyst	Method	Batch
o-Xylene	ND ✓	ug/kg	0.0024	0.0020	1	5/ 1/00	15:04	R.Ward	8260B	7224
m,p-Xylene	ND	ug/kg	0.0024	0.0020	1	5/ 1/00	15:04	R.Ward	8260B	7224
Trichlorofluoromethane	ND	ug/kg	0.0024	0.0020	1	5/ 1/00	15:04	R.Ward	8260B	7224
Hexane	ND	ug/kg	0.006	0.005	1	5/ 1/00	15:04	R.Ward	8260B	5098
PESTICIDE/PCB's/HERBICIDES										
2,4-D	ND ✓	ug/kg	0.1984	0.1667	1	5/ 9/00	21:45	M. Cauthen	8151A	2328
2,4,5-T	ND	ug/kg	0.020	0.017	1	5/ 9/00	21:45	M. Cauthen	8151A	2328
2,4,5-TP (Silvex)	ND ✓	ug/kg	0.0198	0.0167	1	5/ 9/00	21:45	M. Cauthen	8151A	2328
Dalapon	ND	ug/kg	0.3968	0.3330	1	5/ 9/00	21:45	M. Cauthen	8151A	2328
2,4-DB	ND	ug/kg	0.198	0.167	1	5/ 9/00	21:45	M. Cauthen	8151A	2328
Dicamba	ND	ug/kg	0.0198	0.0167	1	5/ 9/00	21:45	M. Cauthen	8151A	2328
Dichloroprop	ND	ug/kg	0.198	0.167	1	5/ 9/00	21:45	M. Cauthen	8151A	2328
Dinoseb	ND	ug/kg	0.0992	0.0830	1	5/ 9/00	21:45	M. Cauthen	8151A	2328
MCPA	ND	ug/kg	19.8	16.7	1	5/ 9/00	21:45	M. Cauthen	8151A	2328
MCPP	ND	ug/kg	19.8	16.7	1	5/ 9/00	21:45	M. Cauthen	8151A	2328
Pentachlorophenol	ND	ug/kg	0.0198	0.0167	1	5/ 9/00	21:45	M. Cauthen	8151A	2328
4-Nitrophenol	ND	ug/kg	0.0198	0.0010	1	5/ 9/00	21:45	M. Cauthen	8151A	2328
Aldrin	ND ✓	ug/kg	0.00198	0.00166	1	5/10/00	4:48	M. Cauthen	8081A	310
a-BHC	ND	ug/kg	0.00198	0.00166	1	5/10/00	4:48	M. Cauthen	8081A	310
b-BHC	ND	ug/kg	0.00198	0.00166	1	5/10/00	4:48	M. Cauthen	8081A	310
d-BHC	ND	ug/kg	0.00198	0.00166	1	5/10/00	4:48	M. Cauthen	8081A	310
g-BHC, Lindane	ND	ug/kg	0.00198	0.00166	1	5/10/00	4:48	M. Cauthen	8081A	310
4,4'-DDD	ND	ug/kg	0.00396	0.00333	1	5/10/00	4:48	M. Cauthen	8081A	310
4,4'-DDE	ND	ug/kg	0.00396	0.00333	1	5/10/00	4:48	M. Cauthen	8081A	310
4,4'DDT	ND	ug/kg	0.00396	0.00333	1	5/10/00	4:48	M. Cauthen	8081A	310
Dieldrin	ND	ug/kg	0.00396	0.00333	1	5/10/00	4:48	M. Cauthen	8081A	310
Endosulfan I	ND	ug/kg	0.00198	0.00166	1	5/10/00	4:48	M. Cauthen	8081A	310
Endosulfan II	ND	ug/kg	0.00396	0.00333	1	5/10/00	4:48	M. Cauthen	8081A	310
Endosulfan sulfate	ND	ug/kg	0.00396	0.00333	1	5/10/00	4:48	M. Cauthen	8081A	310
Endrin	ND	ug/kg	0.00396	0.00333	1	5/10/00	4:48	M. Cauthen	8081A	310
Endrin aldehyde	ND	ug/kg	0.00396	0.00333	1	5/10/00	4:48	M. Cauthen	8081A	310
Endrin Ketone	ND	ug/kg	0.00396	0.00333	1	5/10/00	4:48	M. Cauthen	8081A	310
Heptachlor	ND	ug/kg	0.00198	0.00166	1	5/10/00	4:48	M. Cauthen	8081A	310
Heptachlor epoxide	ND	ug/kg	0.00198	0.00166	1	5/10/00	4:48	M. Cauthen	8081A	310
Methoxychlor	ND	ug/kg	0.01982	0.01665	1	5/10/00	4:48	M. Cauthen	8081A	310
Toxaphene	ND	ug/kg	0.1982	0.1665	1	5/10/00	4:48	M. Cauthen	8081A	310
alpha-Chlordane	ND	ug/kg	0.00198	0.00166	1	5/10/00	4:48	M. Cauthen	8081A	310
gamma-Chlordane	ND	ug/kg	0.00198	0.00166	1	5/10/00	4:48	M. Cauthen	8081A	310

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2960 Foster Creighton Dr.
P.O. Box 40566
Nashville, TN 37204-0566
Phone 1-615-726-0177

ANALYTICAL REPORT

Laboratory Number: 00-A58009
Sample ID: 264721

Page 4

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Date	Time	Analyst	Method	Batch
Azinphos, methyl	ND	ug/kg	0.109	0.033	1	5/ 5/00	11:56	M. Cauthen	8141A	306
Bolstar	ND	ug/kg	0.109	0.033	1	5/ 5/00	11:56	M. Cauthen	8141A	306
Chlorpyrifos	ND	ug/kg	0.109	0.092	1	5/ 5/00	11:56	M. Cauthen	8141A	306
Coumaphos	ND	ug/kg	0.109	0.033	1	5/ 5/00	11:56	M. Cauthen	8141A	306
Demeton-o	ND	ug/kg	0.109	0.033	1	5/ 5/00	11:56	M. Cauthen	8141A	306
Demeton-s	ND	ug/kg	0.109	0.033	1	5/ 5/00	11:56	M. Cauthen	8141A	306
Diazinon	ND	ug/kg	0.109	0.033	1	5/ 5/00	11:56	M. Cauthen	8141A	306
Dichlorvos	ND	ug/kg	0.109	0.066	1	5/ 5/00	11:56	M. Cauthen	8141A	306
Disulfoton	ND	ug/kg	0.109	0.033	1	5/ 5/00	11:56	M. Cauthen	8141A	306
Ethoprop	ND	ug/kg	0.109	0.033	1	5/ 5/00	11:56	M. Cauthen	8141A	306
Fensulfothion	ND	ug/kg	0.218	0.066	1	5/ 5/00	11:56	M. Cauthen	8141A	306
Fenthion	ND	ug/kg	0.109	0.033	1	5/ 5/00	11:56	M. Cauthen	8141A	306
Merphos	ND	ug/kg	0.109	0.066	1	5/ 5/00	11:56	M. Cauthen	8141A	306
Mevinphos	ND	ug/kg	0.218	0.067	1	5/ 5/00	11:56	M. Cauthen	8141A	306
Naled	ND	ug/kg	1.09	0.333	1	5/ 5/00	11:56	M. Cauthen	8141A	306
Methylparathion	ND	ug/kg	0.109	0.033	1	5/ 5/00	11:56	M. Cauthen	8141A	306
Phorate	ND	ug/kg	0.109	0.033	1	5/ 5/00	11:56	M. Cauthen	8141A	306
Ronnel	ND	ug/kg	0.109	0.033	1	5/ 5/00	11:56	M. Cauthen	8141A	306
Stirofos	ND	ug/kg	0.109	0.033	1	5/ 5/00	11:56	M. Cauthen	8141A	306
Tokuthion	ND	ug/kg	0.109	0.033	1	5/ 5/00	11:56	M. Cauthen	8141A	306
Trichloronate	ND	ug/kg	0.109	0.033	1	5/ 5/00	11:56	M. Cauthen	8141A	306
Dimethoate	ND	ug/kg	0.218	0.066	1	5/ 5/00	11:56	M. Cauthen	8141A	306
EPN	ND	ug/kg	0.109	0.033	1	5/ 5/00	11:56	M. Cauthen	8141A	306
Malathion	ND	ug/kg	0.109	0.033	1	5/ 5/00	11:56	M. Cauthen	8141A	306
Monocrotophos	ND	ug/kg	1.09	0.333	1	5/ 5/00	11:56	M. Cauthen	8141A	306
Ethyl parathion	ND	ug/kg	0.109	0.033	1	5/ 5/00	11:56	M. Cauthen	8141A	306
Sulfotep	ND	ug/kg	0.109	0.033	1	5/ 5/00	11:56	M. Cauthen	8141A	306
TEPP	ND	ug/kg	1.09	0.333	1	5/ 5/00	11:56	M. Cauthen	8141A	306
GENERAL CHEMISTRY PARAMETERS										
% Dry Weight	84.	%			1	5/ 8/00	8:54	J. Rudden	CLP	7225
	Comment					5/12/00		P.Lane		5306
	Comment					5/11/00		P.Lane		4749
	Comment					5/10/00		P.Lane		4077

ND = Not detected at the report limit.

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SPECIALIZED ASSAYS, INC.
2960 Foster Creighton Dr.
P.O. Box 40566
Nashville, TN 37204-0566
Phone 1-615-726-0177

ANALYTICAL REPORT

Laboratory Number: 00-A58010
Sample ID: 264722

 7A-H

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Date	Time	Analyst	Method	Batch
o-Xylene	ND ✓	ug/kg	0.0023	0.0020	1	4/30/00	4:16	R.Ward	8260B	7224
m,p-Xylene	ND	ug/kg	0.0023	0.0020	1	4/30/00	4:16	R.Ward	8260B	7224
Trichlorofluoromethane	ND	ug/kg	0.0023	0.0020	1	4/30/00	4:16	R.Ward	8260B	7224
Hexane	ND	ug/kg	0.006	0.005	1	4/30/00	4:16	R.Ward	8260B	5098
PESTICIDE/PCB's/HERBICIDES										
2,4-D	ND ✓	ug/kg	0.1938	0.1667	1	5/ 9/00	22:46	M. Cauthen	8151A	2328
2,4,5-T	ND ✓	ug/kg	0.019	0.017	1	5/ 9/00	22:46	M. Cauthen	8151A	2328
2,4,5-TP (Silvex)	ND ✓	ug/kg	0.0194	0.0167	1	5/ 9/00	22:46	M. Cauthen	8151A	2328
Dalapon	ND	ug/kg	0.3876	0.3330	1	5/ 9/00	22:46	M. Cauthen	8151A	2328
2,4-DB	ND	ug/kg	0.194	0.167	1	5/ 9/00	22:46	M. Cauthen	8151A	2328
Dicamba	ND	ug/kg	0.0194	0.0167	1	5/ 9/00	22:46	M. Cauthen	8151A	2328
Dichloroprop	ND	ug/kg	0.194	0.167	1	5/ 9/00	22:46	M. Cauthen	8151A	2328
Dinoseb	ND	ug/kg	0.0969	0.0830	1	5/ 9/00	22:46	M. Cauthen	8151A	2328
MCPA	ND	ug/kg	19.4	16.7	1	5/ 9/00	22:46	M. Cauthen	8151A	2328
MCPP	ND	ug/kg	19.4	16.7	1	5/ 9/00	22:46	M. Cauthen	8151A	2328
Pentachlorophenol	ND	ug/kg	0.0194	0.0167	1	5/ 9/00	22:46	M. Cauthen	8151A	2328
4-Nitrophenol	ND	ug/kg	0.0194	0.0010	1	5/ 9/00	22:46	M. Cauthen	8151A	2328
Aldrin	ND ✓	ug/kg	0.00194	0.00166	1	5/10/00	5:28	M. Cauthen	8081A	310
a-BHC	ND	ug/kg	0.00194	0.00166	1	5/10/00	5:28	M. Cauthen	8081A	310
b-BHC	ND	ug/kg	0.00194	0.00166	1	5/10/00	5:28	M. Cauthen	8081A	310
d-BHC	ND	ug/kg	0.00194	0.00166	1	5/10/00	5:28	M. Cauthen	8081A	310
g-BHC, Lindane	ND	ug/kg	0.00194	0.00166	1	5/10/00	5:28	M. Cauthen	8081A	310
4,4'-DDD	ND	ug/kg	0.00387	0.00333	1	5/10/00	5:28	M. Cauthen	8081A	310
4,4'-DDE	ND	ug/kg	0.00387	0.00333	1	5/10/00	5:28	M. Cauthen	8081A	310
4,4'DDT	ND	ug/kg	0.00387	0.00333	1	5/10/00	5:28	M. Cauthen	8081A	310
Dieldrin	ND	ug/kg	0.00387	0.00333	1	5/10/00	5:28	M. Cauthen	8081A	310
Endosulfan I	ND	ug/kg	0.00194	0.00166	1	5/10/00	5:28	M. Cauthen	8081A	310
Endosulfan II	ND	ug/kg	0.00387	0.00333	1	5/10/00	5:28	M. Cauthen	8081A	310
Endosulfan sulfate	ND	ug/kg	0.00387	0.00333	1	5/10/00	5:28	M. Cauthen	8081A	310
Endrin	ND	ug/kg	0.00387	0.00333	1	5/10/00	5:28	M. Cauthen	8081A	310
Endrin aldehyde	ND	ug/kg	0.00387	0.00333	1	5/10/00	5:28	M. Cauthen	8081A	310
Endrin Ketone	ND	ug/kg	0.00387	0.00333	1	5/10/00	5:28	M. Cauthen	8081A	310
Heptachlor	ND	ug/kg	0.00194	0.00166	1	5/10/00	5:28	M. Cauthen	8081A	310
Heptachlor epoxide	ND	ug/kg	0.00194	0.00166	1	5/10/00	5:28	M. Cauthen	8081A	310
Methoxychlor	ND	ug/kg	0.01936	0.01665	1	5/10/00	5:28	M. Cauthen	8081A	310
Toxaphene	ND	ug/kg	0.1936	0.1665	1	5/10/00	5:28	M. Cauthen	8081A	310
alpha-Chlordane	ND	ug/kg	0.00194	0.00166	1	5/10/00	5:28	M. Cauthen	8081A	310
gamma-Chlordane	ND	ug/kg	0.00194	0.00166	1	5/10/00	5:28	M. Cauthen	8081A	310

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2960 Foster Creighton Dr.
P.O. Box 40566
Nashville, TN 37204-0566
Phone 1-615-726-0177

ANALYTICAL REPORT

Laboratory Number: 00-A58010
Sample ID: 264722

Page 4

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Date	Time	Analyst	Method	Batch
Azinphos, methyl	ND	ug/kg	0.110	0.033	1	5/ 5/00	13:00	M. Cauthen	8141A	306
Bolstar	ND	ug/kg	0.110	0.033	1	5/ 5/00	13:00	M. Cauthen	8141A	306
Chlorpyrifos	ND	ug/kg	0.110	0.094	1	5/ 5/00	13:00	M. Cauthen	8141A	306
Coumaphos	ND	ug/kg	0.110	0.033	1	5/ 5/00	13:00	M. Cauthen	8141A	306
Demeton-o	ND	ug/kg	0.110	0.033	1	5/ 5/00	13:00	M. Cauthen	8141A	306
Demeton-s	ND	ug/kg	0.110	0.033	1	5/ 5/00	13:00	M. Cauthen	8141A	306
Diazinon	ND	ug/kg	0.110	0.033	1	5/ 5/00	13:00	M. Cauthen	8141A	306
Dichlorvos	ND	ug/kg	0.110	0.066	1	5/ 5/00	13:00	M. Cauthen	8141A	306
Disulfoton	ND	ug/kg	0.110	0.033	1	5/ 5/00	13:00	M. Cauthen	8141A	306
Ethoprop	ND	ug/kg	0.110	0.033	1	5/ 5/00	13:00	M. Cauthen	8141A	306
Fensulfothion	ND	ug/kg	0.219	0.066	1	5/ 5/00	13:00	M. Cauthen	8141A	306
Fenthion	ND	ug/kg	0.110	0.033	1	5/ 5/00	13:00	M. Cauthen	8141A	306
Merphos	ND	ug/kg	0.110	0.066	1	5/ 5/00	13:00	M. Cauthen	8141A	306
Mevinphos	ND	ug/kg	0.219	0.067	1	5/ 5/00	13:00	M. Cauthen	8141A	306
Naled	ND	ug/kg	1.10	0.333	1	5/ 5/00	13:00	M. Cauthen	8141A	306
Methylparathion	ND	ug/kg	0.110	0.033	1	5/ 5/00	13:00	M. Cauthen	8141A	306
Phorate	ND	ug/kg	0.110	0.033	1	5/ 5/00	13:00	M. Cauthen	8141A	306
Ronnel	ND	ug/kg	0.110	0.033	1	5/ 5/00	13:00	M. Cauthen	8141A	306
Stirofos	ND	ug/kg	0.110	0.033	1	5/ 5/00	13:00	M. Cauthen	8141A	306
Tokuthion	ND	ug/kg	0.110	0.033	1	5/ 5/00	13:00	M. Cauthen	8141A	306
Trichloronate	ND	ug/kg	0.110	0.033	1	5/ 5/00	13:00	M. Cauthen	8141A	306
Dimethoate	ND	ug/kg	0.219	0.066	1	5/ 5/00	13:00	M. Cauthen	8141A	306
EPN	ND	ug/kg	0.110	0.033	1	5/ 5/00	13:00	M. Cauthen	8141A	306
Malathion	ND	ug/kg	0.110	0.033	1	5/ 5/00	13:00	M. Cauthen	8141A	306
Monocrotophos	ND	ug/kg	1.10	0.339	1	5/ 5/00	13:00	M. Cauthen	8141A	306
Ethyl parathion	ND	ug/kg	0.110	0.033	1	5/ 5/00	13:00	M. Cauthen	8141A	306
Sulfotep	ND	ug/kg	0.110	0.033	1	5/ 5/00	13:00	M. Cauthen	8141A	306
TEPP	ND	ug/kg	1.10	0.333	1	5/ 5/00	13:00	M. Cauthen	8141A	306
GENERAL CHEMISTRY PARAMETERS										
% Dry Weight	86.	%			1	5/ 2/00	8:54	J. Rudden	CLP	7225
	Comment					5/12/00		P.Lane		5306
	Comment					5/11/00		P.Lane		4749
	Comment					5/10/00		P.Lane		4077

ND = Not detected at the report limit.

COPY 1

SPECIALIZED ASSAYS, INC.
2960 Foster Creighton Dr.
P.O. Box 40566
Nashville, TN 37204-0566
Phone 1-615-726-0177

ANALYTICAL REPORT

Laboratory Number: 00-A58011
Sample ID: 264723

 8 A-H

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Date	Time	Analyst	Method	Batch
o-Xylene	ND	ug/kg	0.0023	0.0020	1	4/30/00	4:53	R.Ward	8260B	7224
m,p-Xylene	ND	ug/kg	0.0023	0.0020	1	4/30/00	4:53	R.Ward	8260B	7224
Trichlorofluoromethane	ND	ug/kg	0.0023	0.0020	1	4/30/00	4:53	R.Ward	8260B	7224
Hexane	ND	ug/kg	0.006	0.005	1	4/30/00	4:53	R.Ward	8260B	5098
PESTICIDE/PCB's/HERBICIDES										
2,4-D	ND	ug/kg	0.1916	0.1667	1	5/ 9/00	23:17	M. Cauthen	8151A	2328
2,4,5-T	ND	ug/kg	0.019	0.017	1	5/ 9/00	23:17	M. Cauthen	8151A	2328
2,4,5-TP (Silvex)	ND	ug/kg	0.0192	0.0167	1	5/ 9/00	23:17	M. Cauthen	8151A	2328
Dalapon	ND	ug/kg	0.3831	0.3330	1	5/ 9/00	23:17	M. Cauthen	8151A	2328
2,4-DB	ND	ug/kg	0.192	0.167	1	5/ 9/00	23:17	M. Cauthen	8151A	2328
Dicamba	ND	ug/kg	0.0192	0.0167	1	5/ 9/00	23:17	M. Cauthen	8151A	2328
Dichloroprop	ND	ug/kg	0.192	0.167	1	5/ 9/00	23:17	M. Cauthen	8151A	2328
Dinoseb	ND	ug/kg	0.0958	0.0830	1	5/ 9/00	23:17	M. Cauthen	8151A	2328
MCPA	ND	ug/kg	19.2	16.7	1	5/ 9/00	23:17	M. Cauthen	8151A	2328
MCPP	ND	ug/kg	19.2	16.7	1	5/ 9/00	23:17	M. Cauthen	8151A	2328
Pentachlorophenol	ND	ug/kg	0.0192	0.0167	1	5/ 9/00	23:17	M. Cauthen	8151A	2328
4-Nitrophenol	ND	ug/kg	0.0192	0.0010	1	5/ 9/00	23:17	M. Cauthen	8151A	2328
Aldrin	ND	ug/kg	0.00191	0.00166	1	5/10/00	6:08	M. Cauthen	8081A	310
a-BHC	ND	ug/kg	0.00191	0.00166	1	5/10/00	6:08	M. Cauthen	8081A	310
b-BHC	ND	ug/kg	0.00191	0.00166	1	5/10/00	6:08	M. Cauthen	8081A	310
d-BHC	ND	ug/kg	0.00191	0.00166	1	5/10/00	6:08	M. Cauthen	8081A	310
g-BHC, Lindane	ND	ug/kg	0.00191	0.00166	1	5/10/00	6:08	M. Cauthen	8081A	310
4,4'-DDD	ND	ug/kg	0.00383	0.00333	1	5/10/00	6:08	M. Cauthen	8081A	310
4,4'-DDE	ND	ug/kg	0.00383	0.00333	1	5/10/00	6:08	M. Cauthen	8081A	310
4,4'DDT	ND	ug/kg	0.00383	0.00333	1	5/10/00	6:08	M. Cauthen	8081A	310
Dieldrin	ND	ug/kg	0.00383	0.00333	1	5/10/00	6:08	M. Cauthen	8081A	310
Endosulfan I	ND	ug/kg	0.00191	0.00166	1	5/10/00	6:08	M. Cauthen	8081A	310
Endosulfan II	ND	ug/kg	0.00383	0.00333	1	5/10/00	6:08	M. Cauthen	8081A	310
Endosulfan sulfate	ND	ug/kg	0.00383	0.00333	1	5/10/00	6:08	M. Cauthen	8081A	310
Endrin	ND	ug/kg	0.00383	0.00333	1	5/10/00	6:08	M. Cauthen	8081A	310
Endrin aldehyde	ND	ug/kg	0.00383	0.00333	1	5/10/00	6:08	M. Cauthen	8081A	310
Endrin Ketone	ND	ug/kg	0.00383	0.00333	1	5/10/00	6:08	M. Cauthen	8081A	310
Heptachlor	ND	ug/kg	0.00191	0.00166	1	5/10/00	6:08	M. Cauthen	8081A	310
Heptachlor epoxide	ND	ug/kg	0.00191	0.00166	1	5/10/00	6:08	M. Cauthen	8081A	310
Methoxychlor	ND	ug/kg	0.01914	0.01665	1	5/10/00	6:08	M. Cauthen	8081A	310
Toxaphene	ND	ug/kg	0.1914	0.1665	1	5/10/00	6:08	M. Cauthen	8081A	310
alpha-Chlordane	ND	ug/kg	0.00191	0.00166	1	5/10/00	6:08	M. Cauthen	8081A	310
gamma-Chlordane	ND	ug/kg	0.00191	0.00166	1	5/10/00	6:08	M. Cauthen	8081A	310

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2960 Foster Creighton Dr.
P.O. Box 40566
Nashville, TN 37204-0566
Phone 1-615-728-0177

ANALYTICAL REPORT

Laboratory Number: 00-A58011
Sample ID: 264723

Page 4

Analyte	Result	Units	Report Limit	Dwan Limit	Dil Factor	Date	Time	Analyst	Method	Batch
Azinphos, methyl	ND	mg/kg	0.108	0.033	1	5/ 5/00	13:41	M. Cauthen	8141A	306
Bolstar	ND	mg/kg	0.108	0.033	1	5/ 5/00	13:41	M. Cauthen	8141A	306
Chlorpyrifos	ND	mg/kg	0.108	0.094	1	5/ 5/00	13:41	M. Cauthen	8141A	306
Coumaphos	ND	mg/kg	0.108	0.033	1	5/ 5/00	13:41	M. Cauthen	8141A	306
Demeton-o	ND	mg/kg	0.108	0.033	1	5/ 5/00	13:41	M. Cauthen	8141A	306
Demeton-s	ND	mg/kg	0.108	0.033	1	5/ 5/00	13:41	M. Cauthen	8141A	306
Diazinon	ND	mg/kg	0.108	0.033	1	5/ 5/00	13:41	M. Cauthen	8141A	306
Dichlorvos	ND	mg/kg	0.108	0.066	1	5/ 5/00	13:41	M. Cauthen	8141A	306
Disulfoton	ND	mg/kg	0.108	0.033	1	5/ 5/00	13:41	M. Cauthen	8141A	306
Ethoprop	ND	mg/kg	0.108	0.033	1	5/ 5/00	13:41	M. Cauthen	8141A	306
Fensulfothion	ND	mg/kg	0.217	0.066	1	5/ 5/00	13:41	M. Cauthen	8141A	306
Fenthion	ND	mg/kg	0.108	0.033	1	5/ 5/00	13:41	M. Cauthen	8141A	306
Merphos	ND	mg/kg	0.108	0.066	1	5/ 5/00	13:41	M. Cauthen	8141A	306
Mevinphos	ND	mg/kg	0.217	0.067	1	5/ 5/00	13:41	M. Cauthen	8141A	306
Naled	ND	mg/kg	1.08	0.333	1	5/ 5/00	13:41	M. Cauthen	8141A	306
Methylparathion	ND	mg/kg	0.108	0.033	1	5/ 5/00	13:41	M. Cauthen	8141A	306
Phorate	ND	mg/kg	0.108	0.033	1	5/ 5/00	13:41	M. Cauthen	8141A	306
Ronnel	ND	mg/kg	0.108	0.033	1	5/ 5/00	13:41	M. Cauthen	8141A	306
Stirofos	ND	mg/kg	0.108	0.033	1	5/ 5/00	13:41	M. Cauthen	8141A	306
Tokuthion	ND	mg/kg	0.108	0.033	1	5/ 5/00	13:41	M. Cauthen	8141A	306
Trichloronate	ND	mg/kg	0.108	0.033	1	5/ 5/00	13:41	M. Cauthen	8141A	306
Dimethoate	ND	mg/kg	0.217	0.066	1	5/ 5/00	13:41	M. Cauthen	8141A	306
EPN	ND	mg/kg	0.108	0.033	1	5/ 5/00	13:41	M. Cauthen	8141A	306
Malathion	ND	mg/kg	0.108	0.033	1	5/ 5/00	13:41	M. Cauthen	8141A	306
Monocrotophos	ND	mg/kg	1.08	0.333	1	5/ 5/00	13:41	M. Cauthen	8141A	306
Ethyl parathion	ND	mg/kg	0.108	0.033	1	5/ 5/00	13:41	M. Cauthen	8141A	306
Sulfotep	ND	mg/kg	0.108	0.033	1	5/ 5/00	13:41	M. Cauthen	8141A	306
TEPP	ND	mg/kg	1.08	0.333	1	5/ 5/00	13:41	M. Cauthen	8141A	306
GENERAL CHEMISTRY PARAMETERS										
% Dry Weight	87.	%			1	5/ 2/00	8:54	J. Rudden	CLP	7225
	Comment					5/12/00		P.Lane		5306
	Comment					5/11/00		P.Lane		4749
	Comment					5/10/00		P.Lane		4077

ND = Not detected at the report limit.

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SPECIALIZED ASSAYS, INC.
2960 Foster Creighton Dr.
P.O. Box 40566
Nashville, TN 37204-0566
Phone 1-615-726-0177

ANALYTICAL REPORT

Laboratory Number: 00-A58012
Sample ID: 264724

 9A-H

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Date	Time	Analyst	Method	Batch
o-Xylene	ND	ug/kg	0.0025	0.0020	1	4/30/00	5:30	R.Ward	8260B	7224
m,p-Xylene	ND	ug/kg	0.0025	0.0020	1	4/30/00	5:30	R.Ward	8260B	7224
Trichlorofluoromethane	ND	ug/kg	0.0025	0.0020	1	4/30/00	5:30	R.Ward	8260B	7224
Hexane	ND	ug/kg	0.006	0.005	1	4/30/00	5:30	R.Ward	8260B	5098
PESTICIDE/PCB's/HERBICIDES										
2,4-D	ND	ug/kg	0.1991	0.1613	1	5/ 9/00	23:48	M. Cauthen	8151A	2328
2,4,5-T	ND	ug/kg	0.020	0.016	1	5/ 9/00	23:48	M. Cauthen	8151A	2328
2,4,5-TP (Silvex)	ND	ug/kg	0.0199	0.0161	1	5/ 9/00	23:48	M. Cauthen	8151A	2328
Dalapon	ND	ug/kg	0.3982	0.3226	1	5/ 9/00	23:48	M. Cauthen	8151A	2328
2,4-DB	ND	ug/kg	0.199	0.161	1	5/ 9/00	23:48	M. Cauthen	8151A	2328
Dicamba	ND	ug/kg	0.0199	0.0161	1	5/ 9/00	23:48	M. Cauthen	8151A	2328
Dichloroprop	ND	ug/kg	0.199	0.161	1	5/ 9/00	23:48	M. Cauthen	8151A	2328
Dinoseb	ND	ug/kg	0.0996	0.0806	1	5/ 9/00	23:48	M. Cauthen	8151A	2328
MCPA	ND	ug/kg	19.9	16.1	1	5/ 9/00	23:48	M. Cauthen	8151A	2328
MCPP	ND	ug/kg	19.9	16.1	1	5/ 9/00	23:48	M. Cauthen	8151A	2328
Pentachlorophenol	ND	ug/kg	0.0199	0.0161	1	5/ 9/00	23:48	M. Cauthen	8151A	2328
4-Nitrophenol	ND	ug/kg	0.0199	0.0010	1	5/ 9/00	23:48	M. Cauthen	8151A	2328
Aldrin	ND	ug/kg	0.00206	0.00166	1	5/10/00	8:09	M. Cauthen	8081A	310
a-BHC	ND	ug/kg	0.00206	0.00166	1	5/10/00	8:09	M. Cauthen	8081A	310
b-BHC	ND	ug/kg	0.00206	0.00166	1	5/10/00	8:09	M. Cauthen	8081A	310
d-BHC	ND	ug/kg	0.00206	0.00166	1	5/10/00	8:09	M. Cauthen	8081A	310
g-BHC, Lindane	ND	ug/kg	0.00206	0.00166	1	5/10/00	8:09	M. Cauthen	8081A	310
4,4'-DDD	ND	ug/kg	0.00411	0.00333	1	5/10/00	8:09	M. Cauthen	8081A	310
4,4'-DDE	ND	ug/kg	0.00411	0.00333	1	5/10/00	8:09	M. Cauthen	8081A	310
4,4'DDT	ND	ug/kg	0.00411	0.00333	1	5/10/00	8:09	M. Cauthen	8081A	310
Dieldrin	ND	ug/kg	0.00411	0.00333	1	5/10/00	8:09	M. Cauthen	8081A	310
Endosulfan I	ND	ug/kg	0.00206	0.00166	1	5/10/00	8:09	M. Cauthen	8081A	310
Endosulfan II	ND	ug/kg	0.00411	0.00333	1	5/10/00	8:09	M. Cauthen	8081A	310
Endosulfan sulfate	ND	ug/kg	0.00411	0.00333	1	5/10/00	8:09	M. Cauthen	8081A	310
Endrin	ND	ug/kg	0.00411	0.00333	1	5/10/00	8:09	M. Cauthen	8081A	310
Endrin aldehyde	ND	ug/kg	0.00411	0.00333	1	5/10/00	8:09	M. Cauthen	8081A	310
Endrin Ketone	ND	ug/kg	0.00411	0.00333	1	5/10/00	8:09	M. Cauthen	8081A	310
Heptachlor	ND	ug/kg	0.00206	0.00166	1	5/10/00	8:09	M. Cauthen	8081A	310
Heptachlor epoxide	ND	ug/kg	0.00206	0.00166	1	5/10/00	8:09	M. Cauthen	8081A	310
Methoxychlor	ND	ug/kg	0.02056	0.01665	1	5/10/00	8:09	M. Cauthen	8081A	310
Toxaphene	ND	ug/kg	0.2056	0.1665	1	5/10/00	8:09	M. Cauthen	8081A	310
alpha-Chlordane	ND	ug/kg	0.00206	0.00166	1	5/10/00	8:09	M. Cauthen	8081A	310
gamma-Chlordane	ND	ug/kg	0.00206	0.00166	1	5/10/00	8:09	M. Cauthen	8081A	310

COPY 1

SPECIALIZED ASSAYS, INC.
2960 Foster Creighton Dr.
P.O. Box 40566
Nashville, TN 37204-0566
Phone 1-615-726-0177

ANALYTICAL REPORT

Laboratory Number: 00-ASB012
Sample ID: 264724

Page 4

Analyte	Result	Units	Report Limit	Beam Limit	Dil Factor	Date	Time	Analyst	Method	Batch
Azinphos, methyl	ND	ug/kg	0.121	0.033	1	5/ 5/00	14:16	M. Cauthen	8141A	306
Bolstar	ND	ug/kg	0.121	0.033	1	5/ 5/00	14:16	M. Cauthen	8141A	306
Chlorpyrifos	ND	ug/kg	0.121	0.098	1	5/ 5/00	14:16	M. Cauthen	8141A	306
Coumaphos	ND	ug/kg	0.121	0.033	1	5/ 5/00	14:16	M. Cauthen	8141A	306
Demeton-o	ND	ug/kg	0.121	0.033	1	5/ 5/00	14:16	M. Cauthen	8141A	306
Demeton-s	ND	ug/kg	0.121	0.033	1	5/ 5/00	14:16	M. Cauthen	8141A	306
Diazinon	ND	ug/kg	0.121	0.033	1	5/ 5/00	14:16	M. Cauthen	8141A	306
Dichlorvos	ND	ug/kg	0.121	0.066	1	5/ 5/00	14:16	M. Cauthen	8141A	306
Disulfoton	ND	ug/kg	0.121	0.033	1	5/ 5/00	14:16	M. Cauthen	8141A	306
Ethoprop	ND	ug/kg	0.121	0.033	1	5/ 5/00	14:16	M. Cauthen	8141A	306
Fensulfothion	ND	ug/kg	0.242	0.066	1	5/ 5/00	14:16	M. Cauthen	8141A	306
Fenthion	ND	ug/kg	0.121	0.033	1	5/ 5/00	14:16	M. Cauthen	8141A	306
Merphos	ND	ug/kg	0.121	0.066	1	5/ 5/00	14:16	M. Cauthen	8141A	306
Mevinphos	ND	ug/kg	0.242	0.067	1	5/ 5/00	14:16	M. Cauthen	8141A	306
Naled	ND	ug/kg	1.21	0.333	1	5/ 5/00	14:16	M. Cauthen	8141A	306
Methylparathion	ND	ug/kg	0.121	0.033	1	5/ 5/00	14:16	M. Cauthen	8141A	306
Phorate	ND	ug/kg	0.121	0.033	1	5/ 5/00	14:16	M. Cauthen	8141A	306
Ronnel	ND	ug/kg	0.121	0.033	1	5/ 5/00	14:16	M. Cauthen	8141A	306
Stirofos	ND	ug/kg	0.121	0.033	1	5/ 5/00	14:16	M. Cauthen	8141A	306
Tokuthion	ND	ug/kg	0.121	0.033	1	5/ 5/00	14:16	M. Cauthen	8141A	306
Trichloronate	ND	ug/kg	0.121	0.033	1	5/ 5/00	14:16	M. Cauthen	8141A	306
Dimethoate	ND	ug/kg	0.242	0.066	1	5/ 5/00	14:16	M. Cauthen	8141A	306
EPN	ND	ug/kg	0.121	0.033	1	5/ 5/00	14:16	M. Cauthen	8141A	306
Malathion	ND	ug/kg	0.121	0.033	1	5/ 5/00	14:16	M. Cauthen	8141A	306
Monocrotophos	ND	ug/kg	1.21	0.333	1	5/ 5/00	14:16	M. Cauthen	8141A	306
Ethyl parathion	ND	ug/kg	0.121	0.033	1	5/ 5/00	14:16	M. Cauthen	8141A	306
Sulfotep	ND	ug/kg	0.121	0.033	1	5/ 5/00	14:16	M. Cauthen	8141A	306
TEPP	ND	ug/kg	1.21	0.333	1	5/ 5/00	14:16	M. Cauthen	8141A	306
GENERAL CHEMISTRY PARAMETERS										
% Dry Weight	Bl.	%			1	5/ 2/00	8:34	J. Rudden	CLP	7225
	Comment					5/12/00		P.Lane		5306
	Comment					5/11/00		P.Lane		4749
	Comment					5/10/00		P.Lane		4077

ND = Not detected at the report limit.

COPY 1

SPECIALIZED ASSAYS, INC.
2960 Foster Creighton Dr.
P.O. Box 40566
Nashville, TN 37204-0568
Phone 1-615-726-0177

ANALYTICAL REPORT

Laboratory Number: 00-A58013
Sample ID: 264725

Page 3 10·A·H

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Date	Time	Analyst	Method	Batch
o-Xylene	ND ✓	mg/kg	0.0035	0.0020	1	4/30/00	6:06	R.Ward	8260B	7224
m,p-Xylene	ND	mg/kg	0.0035	0.0020	1	4/30/00	6:06	R.Ward	8260B	7224
Trichlorofluoromethane	ND	mg/kg	0.0035	0.0020	1	4/30/00	6:06	R.Ward	8260B	7224
Hexane	ND	mg/kg	0.009	0.005	1	4/30/00	6:06	R.Ward	8260B	5098
PESTICIDE/PCB's/HERBICIDES										
2,4-D	ND ✓	mg/kg	0.2830	0.1613	1	5/10/00	0:18	M. Cauthen	8151A	2328
2,4,5-T	ND	mg/kg	0.028	0.016	1	5/10/00	0:18	M. Cauthen	8151A	2328
2,4,5-TP (Silvex)	ND ✓	mg/kg	0.0283	0.0161	1	5/10/00	0:18	M. Cauthen	8151A	2328
Dalapon	ND	mg/kg	0.5659	0.3226	1	5/10/00	0:18	M. Cauthen	8151A	2328
2,4-DB	ND	mg/kg	0.283	0.161	1	5/10/00	0:18	M. Cauthen	8151A	2328
Dicamba	ND	mg/kg	0.0283	0.0161	1	5/10/00	0:18	M. Cauthen	8151A	2328
Dichloroprop	ND	mg/kg	0.283	0.161	1	5/10/00	0:18	M. Cauthen	8151A	2328
Dinoseb	ND	mg/kg	0.1415	0.0806	1	5/10/00	0:18	M. Cauthen	8151A	2328
MCPA	ND	mg/kg	28.3	16.1	1	5/10/00	0:18	M. Cauthen	8151A	2328
MCPP	ND	mg/kg	28.3	16.1	1	5/10/00	0:18	M. Cauthen	8151A	2328
Pentachlorophenol	ND	mg/kg	0.0283	0.0161	1	5/10/00	0:18	M. Cauthen	8151A	2328
4-Nitrophenol	ND	mg/kg	0.0283	0.0010	1	5/10/00	0:18	M. Cauthen	8151A	2328
Aldrin	ND ✓	mg/kg	0.00292	0.00166	1	5/10/00	8:49	M. Cauthen	8081A	310
a-BHC	ND	mg/kg	0.00292	0.00166	1	5/10/00	8:49	M. Cauthen	8081A	310
b-BHC	ND	mg/kg	0.00292	0.00166	1	5/10/00	8:49	M. Cauthen	8081A	310
d-BHC	ND	mg/kg	0.00292	0.00166	1	5/10/00	8:49	M. Cauthen	8081A	310
g-BHC, Lindane	ND	mg/kg	0.00292	0.00166	1	5/10/00	8:49	M. Cauthen	8081A	310
4,4'-DDD	ND	mg/kg	0.00584	0.00333	1	5/10/00	8:49	M. Cauthen	8081A	310
4,4'-DDE	ND	mg/kg	0.00584	0.00333	1	5/10/00	8:49	M. Cauthen	8081A	310
4,4'DDT	ND	mg/kg	0.00584	0.00333	1	5/10/00	8:49	M. Cauthen	8081A	310
Dieldrin	ND	mg/kg	0.00584	0.00333	1	5/10/00	8:49	M. Cauthen	8081A	310
Endosulfan I	ND	mg/kg	0.00292	0.00166	1	5/10/00	8:49	M. Cauthen	8081A	310
Endosulfan II	ND	mg/kg	0.00584	0.00333	1	5/10/00	8:49	M. Cauthen	8081A	310
Endosulfan sulfate	ND	mg/kg	0.00584	0.00333	1	5/10/00	8:49	M. Cauthen	8081A	310
Endrin	ND	mg/kg	0.00584	0.00333	1	5/10/00	8:49	M. Cauthen	8081A	310
Endrin aldehyde	ND	mg/kg	0.00584	0.00333	1	5/10/00	8:49	M. Cauthen	8081A	310
Endrin Ketone	ND	mg/kg	0.00584	0.00333	1	5/10/00	8:49	M. Cauthen	8081A	310
Heptachlor	ND	mg/kg	0.00292	0.00166	1	5/10/00	8:49	M. Cauthen	8081A	310
Heptachlor epoxide	ND	mg/kg	0.00292	0.00166	1	5/10/00	8:49	M. Cauthen	8081A	310
Methoxychlor	ND	mg/kg	0.02921	0.01665	1	5/10/00	8:49	M. Cauthen	8081A	310
Toxaphene	ND	mg/kg	0.2921	0.1665	1	5/10/00	8:49	M. Cauthen	8081A	310
alpha-Chlordane	ND	mg/kg	0.00292	0.00166	1	5/10/00	8:49	M. Cauthen	8081A	310
gamma-Chlordane	ND	mg/kg	0.00292	0.00166	1	5/10/00	8:49	M. Cauthen	8081A	310

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SPECIALIZED ASSAYS, INC.
2960 Foster Creighton Dr.
P.O. Box 40566
Nashville, TN 37204-0566
Phone 1-615-726-0177

ANALYTICAL REPORT

Laboratory Number: 00-A58013
Sample ID: 264725

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Date	Time	Analyst	Method	Batch
Azinphos, methyl	ND	ug/kg	0.174	0.033	1	5/ 5/00	14:51	M. Cauthen	8141A	306
Bolstar	ND	ug/kg	0.174	0.033	1	5/ 5/00	14:51	M. Cauthen	8141A	306
Chlorpyrifos	ND	ug/kg	0.174	0.099	1	5/ 5/00	14:51	M. Cauthen	8141A	306
Coumaphos	ND	ug/kg	0.174	0.033	1	5/ 5/00	14:51	M. Cauthen	8141A	306
Demeton-o	ND	ug/kg	0.174	0.033	1	5/ 5/00	14:51	M. Cauthen	8141A	306
Demeton-s	ND	ug/kg	0.174	0.033	1	5/ 5/00	14:51	M. Cauthen	8141A	306
Diazinon	ND	ug/kg	0.174	0.033	1	5/ 5/00	14:51	M. Cauthen	8141A	306
Dichlorvos	ND	ug/kg	0.174	0.066	1	5/ 5/00	14:51	M. Cauthen	8141A	306
Disulfoton	ND	ug/kg	0.174	0.033	1	5/ 5/00	14:51	M. Cauthen	8141A	306
Ethoprop	ND	ug/kg	0.174	0.033	1	5/ 5/00	14:51	M. Cauthen	8141A	306
Fensulfothion	ND	ug/kg	0.347	0.066	1	5/ 5/00	14:51	M. Cauthen	8141A	306
Fenthion	ND	ug/kg	0.174	0.033	1	5/ 5/00	14:51	M. Cauthen	8141A	306
Merphos	ND	ug/kg	0.174	0.066	1	5/ 5/00	14:51	M. Cauthen	8141A	306
Mevinphos	ND	ug/kg	0.347	0.067	1	5/ 5/00	14:51	M. Cauthen	8141A	306
Naled	ND	ug/kg	1.74	0.333	1	5/ 5/00	14:51	M. Cauthen	8141A	306
Methylparathion	ND	ug/kg	0.174	0.033	1	5/ 5/00	14:51	M. Cauthen	8141A	306
Phorate	ND	ug/kg	0.174	0.033	1	5/ 5/00	14:51	M. Cauthen	8141A	306
Ronnel	ND	ug/kg	0.174	0.033	1	5/ 5/00	14:51	M. Cauthen	8141A	306
Stirofos	ND	ug/kg	0.174	0.033	1	5/ 5/00	14:51	M. Cauthen	8141A	306
Tokuthion	ND	ug/kg	0.174	0.033	1	5/ 5/00	14:51	M. Cauthen	8141A	306
Trichloronate	ND	ug/kg	0.174	0.033	1	5/ 5/00	14:51	M. Cauthen	8141A	306
Dimethoate	ND	ug/kg	0.347	0.066	1	5/ 5/00	14:51	M. Cauthen	8141A	306
EPN	ND	ug/kg	0.174	0.033	1	5/ 5/00	14:51	M. Cauthen	8141A	306
Malathion	ND	ug/kg	0.174	0.033	1	5/ 5/00	14:51	M. Cauthen	8141A	306
Monocrotophos	ND	ug/kg	1.74	0.333	1	5/ 5/00	14:51	M. Cauthen	8141A	306
Ethyl parathion	ND	ug/kg	0.174	0.033	1	5/ 5/00	14:51	M. Cauthen	8141A	306
Sulfotep	ND	ug/kg	0.174	0.033	1	5/ 5/00	14:51	M. Cauthen	8141A	306
TEPP	ND	ug/kg	1.74	0.333	1	5/ 5/00	14:51	M. Cauthen	8141A	306
GENERAL CHEMISTRY PARAMETERS										
% Dry Weight	57.	%			1	5/ 2/00	8:54	J. Rudden	CLP	7225
	Comment					5/12/00		P.Lane		5306
	Comment					5/11/00		P.Lane		4749
	Comment					5/10/00		P.Lane		4077

ND = Not detected at the report limit.

COPY 1

SPECIALIZED ASSAYS, INC.
2960 Foster Creighton Dr.
P.O. Box 40566
Nashville, TN 37204-0566
Phone 1-615-726-0177

ANALYTICAL REPORT

Laboratory Number: 00-A58073
Sample ID: 264726

Page 3 11 A-H

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Date	Time	Analyst	Method	Batch
o-Xylene	ND ✓	mg/kg	0.0028	0.0020	1	4/30/00	6:43	R.Ward	8260B	7224
m,p-Xylene	ND	mg/kg	0.0028	0.0020	1	4/30/00	6:43	R.Ward	8260B	7224
Trichlorofluoromethane	ND	mg/kg	0.0028	0.0020	1	4/30/00	6:43	R.Ward	8260B	7224
Hexane	ND	mg/kg	0.007	0.005	1	4/30/00	6:43	R.Ward	8260B	5098
PESTICIDE/PCB's/HERBICIDES										
2,4-D	ND ✓	mg/kg	0.2240	0.1613	1	5/10/00	0:49	M. Cauthen	8151A	2328
2,4,5-T	ND	mg/kg	0.022	0.016	1	5/10/00	0:49	M. Cauthen	8151A	2328
2,4,5-TP (Silvex)	ND ✓	mg/kg	0.0224	0.0161	1	5/10/00	0:49	M. Cauthen	8151A	2328
Dalapon	ND	mg/kg	0.4480	0.3226	1	5/10/00	0:49	M. Cauthen	8151A	2328
2,4-DB	ND	mg/kg	0.224	0.161	1	5/10/00	0:49	M. Cauthen	8151A	2328
Dicamba	ND	mg/kg	0.0224	0.0161	1	5/10/00	0:49	M. Cauthen	8151A	2328
Dichloroprop	ND	mg/kg	0.224	0.161	1	5/10/00	0:49	M. Cauthen	8151A	2328
Dinoseb	ND	mg/kg	0.1120	0.0806	1	5/10/00	0:49	M. Cauthen	8151A	2328
MCPA	ND	mg/kg	22.4	16.1	1	5/10/00	0:49	M. Cauthen	8151A	2328
MCPP	ND	mg/kg	22.4	16.1	1	5/10/00	0:49	M. Cauthen	8151A	2328
Pentachlorophenol	ND	mg/kg	0.0224	0.0161	1	5/10/00	0:49	M. Cauthen	8151A	2328
4-Nitrophenol	ND	mg/kg	0.0224	0.0010	1	5/10/00	0:49	M. Cauthen	8151A	2328
Aldrin	ND ✓	mg/kg	0.00231	0.00166	1	5/10/00	9:30	M. Cauthen	8081A	310
a-BHC	ND	mg/kg	0.00231	0.00166	1	5/10/00	9:30	M. Cauthen	8081A	310
b-BHC	ND	mg/kg	0.00231	0.00166	1	5/10/00	9:30	M. Cauthen	8081A	310
d-BHC	ND	mg/kg	0.00231	0.00166	1	5/10/00	9:30	M. Cauthen	8081A	310
g-BHC, Lindane	ND	mg/kg	0.00231	0.00166	1	5/10/00	9:30	M. Cauthen	8081A	310
4,4'-DDD	ND	mg/kg	0.00462	0.00333	1	5/10/00	9:30	M. Cauthen	8081A	310
4,4'-DDE	ND	mg/kg	0.00462	0.00333	1	5/10/00	9:30	M. Cauthen	8081A	310
4,4'DDT	ND	mg/kg	0.00462	0.00333	1	5/10/00	9:30	M. Cauthen	8081A	310
Dieldrin	ND	mg/kg	0.00462	0.00333	1	5/10/00	9:30	M. Cauthen	8081A	310
Endosulfan I	ND	mg/kg	0.00231	0.00166	1	5/10/00	9:30	M. Cauthen	8081A	310
Endosulfan II	ND	mg/kg	0.00462	0.00333	1	5/10/00	9:30	M. Cauthen	8081A	310
Endosulfan sulfate	ND	mg/kg	0.00462	0.00333	1	5/10/00	9:30	M. Cauthen	8081A	310
Endrin	ND	mg/kg	0.00462	0.00333	1	5/10/00	9:30	M. Cauthen	8081A	310
Endrin aldehyde	ND	mg/kg	0.00462	0.00333	1	5/10/00	9:30	M. Cauthen	8081A	310
Endrin Ketone	ND	mg/kg	0.00462	0.00333	1	5/10/00	9:30	M. Cauthen	8081A	310
Heptachlor	ND	mg/kg	0.00231	0.00166	1	5/10/00	9:30	M. Cauthen	8081A	310
Heptachlor epoxide	ND	mg/kg	0.00231	0.00166	1	5/10/00	9:30	M. Cauthen	8081A	310
Methoxychlor	ND	mg/kg	0.02312	0.01665	1	5/10/00	9:30	M. Cauthen	8081A	310
Toxaphene	ND	mg/kg	0.2312	0.1665	1	5/10/00	9:30	M. Cauthen	8081A	310
alpha-Chlordane	ND	mg/kg	0.00231	0.00166	1	5/10/00	9:30	M. Cauthen	8081A	310
gamma-Chlordane	ND	mg/kg	0.00231	0.00166	1	5/10/00	9:30	M. Cauthen	8081A	310

COPY 1

SPECIALIZED ASSAYS, INC.
2960 Foster Creighton Dr.
P.O. Box 40566
Nashville, TN 37204-0566
Phone 1-615-726-0177

ANALYTICAL REPORT

Laboratory Number: 00-A58073
Sample ID: 264726

Page 4

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Date	Time	Analyst	Method	Batch
Azinphos, methyl	ND	ug/kg	0.131	0.033	1	5/ 5/00	16:34	M. Cauthen	8141A	306
Bolstar	ND	ug/kg	0.131	0.033	1	5/ 5/00	16:34	M. Cauthen	8141A	306
Chlorpyrifos	ND	ug/kg	0.131	0.094	1	5/ 5/00	16:34	M. Cauthen	8141A	306
Coumaphos	ND	ug/kg	0.131	0.033	1	5/ 5/00	16:34	M. Cauthen	8141A	306
Demeton-o	ND	ug/kg	0.131	0.033	1	5/ 5/00	16:34	M. Cauthen	8141A	306
Demeton-s	ND	ug/kg	0.131	0.033	1	5/ 5/00	16:34	M. Cauthen	8141A	306
Diazinon	ND	ug/kg	0.131	0.033	1	5/ 5/00	16:34	M. Cauthen	8141A	306
Dichlorvos	ND	ug/kg	0.131	0.066	1	5/ 5/00	16:34	M. Cauthen	8141A	306
Disulfoton	ND	ug/kg	0.131	0.033	1	5/ 5/00	16:34	M. Cauthen	8141A	306
Ethoprop	ND	ug/kg	0.131	0.033	1	5/ 5/00	16:34	M. Cauthen	8141A	306
Fensulfothion	ND	ug/kg	0.262	0.066	1	5/ 5/00	16:34	M. Cauthen	8141A	306
Fenthion	ND	ug/kg	0.131	0.033	1	5/ 5/00	16:34	M. Cauthen	8141A	306
Merphos	ND	ug/kg	0.131	0.066	1	5/ 5/00	16:34	M. Cauthen	8141A	306
Mevinphos	ND	ug/kg	0.262	0.067	1	5/ 5/00	16:34	M. Cauthen	8141A	306
Naled	ND	ug/kg	1.31	0.333	1	5/ 5/00	16:34	M. Cauthen	8141A	306
Methylparathion	ND	ug/kg	0.131	0.033	1	5/ 5/00	16:34	M. Cauthen	8141A	306
Phorate	ND	ug/kg	0.131	0.033	1	5/ 5/00	16:34	M. Cauthen	8141A	306
Ronnel	ND	ug/kg	0.131	0.033	1	5/ 5/00	16:34	M. Cauthen	8141A	306
Stirofos	ND	ug/kg	0.131	0.033	1	5/ 5/00	16:34	M. Cauthen	8141A	306
Tokuthion	ND	ug/kg	0.131	0.033	1	5/ 5/00	16:34	M. Cauthen	8141A	306
Trichloronate	ND	ug/kg	0.131	0.033	1	5/ 5/00	16:34	M. Cauthen	8141A	306
Dimethoate	ND	ug/kg	0.262	0.066	1	5/ 5/00	16:34	M. Cauthen	8141A	306
EPN	ND	ug/kg	0.131	0.033	1	5/ 5/00	16:34	M. Cauthen	8141A	306
Malathion	ND	ug/kg	0.131	0.033	1	5/ 5/00	16:34	M. Cauthen	8141A	306
Monocrotophos	ND	ug/kg	1.31	0.333	1	5/ 5/00	16:34	M. Cauthen	8141A	306
Ethyl parathion	ND	ug/kg	0.131	0.033	1	5/ 5/00	16:34	M. Cauthen	8141A	306
Sulfotep	ND	ug/kg	0.131	0.033	1	5/ 5/00	16:34	M. Cauthen	8141A	306
TEPP	ND	ug/kg	1.31	0.333	1	5/ 5/00	16:34	M. Cauthen	8141A	306
GENERAL CHEMISTRY PARAMETERS										
% Dry Weight	72.	%			1	5/ 2/00	8:54	J. Rudden	CLP	7225
	Comment					5/12/00		P.Lane		5306
	Comment					5/11/00		P.Lane		4749
	Comment					5/10/00		P.Lane		4077

ND = Not detected at the report limit.

COPY 1

TestAmerica
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FAX TRANSMISSION NOTICE

Date: 7/3

Time:

TO: Eric W. / Roger K.

COMPANY: Commonwealth Eng.

SENDER: Ken

You should receive 2 pages, including this notice. If you do not receive all pages, please call the sender immediately.

COMMENTS:

Atrazine + Simazine ~~numbers~~ numbers

Ken.

Our FAX number is: 317-842-4286

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6964 HILLSDALE CT. / INDIANAPOLIS, IN 46250 / 317-842-4261 / FAX: 317-842-4286

TestAmerica
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PROJECT NARRATIVE

JOB NUMBER: 00.02066

SAMPLE: 264716-264726

ANALYSIS: Atrazine & Simazine

Sample Number	Sample ID	Analyte	Result	Units	Report Limit	Method	Date Run
264716	1 A-H	ATRAZINE	<0.04	mg/kg	0.04	8141A	6/23/00
264716	1 A-H	SIMAZINE	<0.04	mg/kg	0.04	8141A	6/23/00
264717	2 A-H	ATRAZINE	<0.04	mg/kg	0.04	8141A	6/23/00
264717	2 A-H	SIMAZINE	<0.04	mg/kg	0.04	8141A	6/23/00
264718	3 A-H	ATRAZINE	<0.04	mg/kg	0.04	8141A	6/23/00
264718	3 A-H	SIMAZINE	<0.04	mg/kg	0.04	8141A	6/23/00
264719	4 A-H	ATRAZINE	<0.04	mg/kg	0.04	8141A	6/23/00
264719	4 A-H	SIMAZINE	<0.04	mg/kg	0.04	8141A	6/23/00
264720	5 A-H	ATRAZINE	<0.04	mg/kg	0.04	8141A	6/23/00
264720	5 A-H	SIMAZINE	<0.04	mg/kg	0.04	8141A	6/23/00
264721	6 A-H	ATRAZINE	<0.04	mg/kg	0.04	8141A	6/23/00
264721	6 A-H	SIMAZINE	<0.04	mg/kg	0.04	8141A	6/23/00
264722	7 A-H	ATRAZINE	<0.04	mg/kg	0.04	8141A	6/23/00
264722	7 A-H	SIMAZINE	<0.04	mg/kg	0.04	8141A	6/23/00
264723	8 A-H	ATRAZINE	<0.04	mg/kg	0.04	8141A	6/23/00
264723	8 A-H	SIMAZINE	<0.04	mg/kg	0.04	8141A	6/23/00
264724	9 A-H	ATRAZINE	<0.04	mg/kg	0.04	8141A	6/23/00
264724	9 A-H	SIMAZINE	<0.04	mg/kg	0.04	8141A	6/23/00
264725	10 A-H	ATRAZINE	<0.04	mg/kg	0.04	8141A	6/23/00
264725	10 A-H	SIMAZINE	<0.04	mg/kg	0.04	8141A	6/23/00
264726	11 A-H	ATRAZINE	<0.04	mg/kg	0.04	8141A	6/23/00
264726	11 A-H	SIMAZINE	<0.04	mg/kg	0.04	8141A	6/23/00

6964 Hillsdale Court / Indianapolis, IN 46250 / 317-842-4261 / Fax: 317-842-4286 / 800-485-0204

Laboratory Data

TestAmerica
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MAY 18 2000

ANALYTICAL AND QUALITY CONTROL REPORT

Mr. Roger Kottloski
COMMONWEALTH ENGINEERS
7256 Company Drive
Indianapolis, IN 46237

05/16/2000

Job Number: 00.02066

Enclosed is the Analytical and Quality Control reports for the following samples submitted to the TestAmerica, Inc. Indianapolis division.
Project Description: C99134

Sample Number	Sample Description	Date Taken	Date Received
264716	1 A-H	04/25/2000	04/27/2000
264717	2 A-H	04/25/2000	04/27/2000
264718	3 A-H	04/25/2000	04/27/2000
264719	4 A-H	04/25/2000	04/27/2000
264720	5 A-H	04/25/2000	04/27/2000
264721	6 A-H	04/25/2000	04/27/2000
264722	7 A-H	04/25/2000	04/27/2000
264723	8 A-H	04/26/2000	04/27/2000
264724	9 A-H	04/26/2000	04/27/2000
264725	10 A-H	04/26/2000	04/27/2000
264726	11 A-H	04/26/2000	04/27/2000

The Quality Control report is generated on a batch basis. All information contained in this report is for the analytical batch(es) in which your sample(s) were analyzed.

TestAmerica, Inc. certifies that the analytical results contained herein apply only to the specific samples analyzed.

Reproduction of this analytical report is permitted only in its entirety.

Project Representative

6964 HILLSDALE CT. / INDIANAPOLIS, IN 46250 / 317-842-4261 / FAX: 317-842-4286

TestAmerica
INCORPORATED

ANALYTICAL REPORT

Mr. Roger Kottloski
COMMONWEALTH ENGINEERS
7256 Company Drive
Indianapolis, IN 46237

05/16/2000

Job Number: 00.02066

Client Project ID: C99134

Analyte	Result	Flag	Units	Reporting Limit	Date Analyzed	Analyst Initials	Prep Batch No.	Run Batch No.	Method Reference
SAMPLE NO. 264716	SAMPLE DESCRIPTION 1 A-H							DATE-TIME TAKEN 04/25/2000 15:43	
Nitrogen, Ammonia	14.		mg/kg	<3.0	05/05/2000	mme	117	249	EPA 350.1
Distillation, Ammonia	Complete			Complete	05/04/2000	sld	117		
ICP METALS NONAQUEOUS	Complete			Complete	05/01/2000	crm		1620	
Arsenic, ICP	<25.		mg/kg	<25.	05/01/2000	crm	1229	1852	SW 6010
Barium, ICP	14		mg/kg	<1.0	05/01/2000	crm	1229	1877	SW 6010
Cadmium, ICP	<0.50		mg/kg	<0.50	05/01/2000	crm	1229	1879	SW 6010
Chromium, ICP	6.8		mg/kg	<0.50	05/01/2000	crm	1229	1892	SW 6010
Iron, ICP	4,300		mg/kg	<5.0	05/01/2000	crm	1229	1855	SW 6010
Lead, ICP	<4.0		mg/kg	<4.0	05/01/2000	crm	1229	1904	SW 6010
Manganese, ICP	85		mg/kg	<0.5	05/01/2000	crm	1229	1858	SW 6010
Mercury, CVAA	<0.10		mg/kg	<0.10	05/01/2000	ldk	50	733	SW 7471
Nickel, ICP	4.4		mg/kg	<1.0	05/01/2000	crm	1229	1849	SW 6010
Selenium, ICP	<10.		mg/kg	<10.	05/01/2000	crm	1229	1845	SW 6010
Silver, ICP	<1.0		mg/kg	<1.0	05/01/2000	crm	1229	1866	SW 6010
ICP Metals Digestion-Solid	Complete			Complete	04/28/2000	ldk	1229		SW 3050
Mercury-Non Aqueous Digestion	Complete			Complete	04/28/2000	ldk	50		
LEVEL IV - ICP METALS	COMPLETE			COMPLETE	05/09/2000	crm		465	
LEVEL IV - WET CHEMISTRY	COMPLETE			COMPLETE	05/08/2000	sld		515	
LEVEL IV - MERCURY	Complete			Complete	05/01/2000	ldk		34	

TestAmerica
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05/16/2000

Job Number: 00.02066

Client Project ID: C99134

SAMPLE NO. 264716 — SAMPLE DESCRIPTION 1 A-H — DATE-TIME TAKEN 04/25/2000 15:43

Analyte	Result	Flag	Units	Reporting Limit	Date Analyzed	Analyst Initials	Prep Batch No.	Run Batch No.	Method Reference
VOLATILES - 8260 (NONAQ)									
Acetone	<10		ug/kg	<10	04/30/2000	out		1737	SW 8260B
Acrolein	<10		ug/kg	<10	04/30/2000	out		1737	SW 8260B
Acrylonitrile	<10		ug/kg	<10	04/30/2000	out		1737	SW 8260B
Benzene	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B
Bromobenzene	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B
Bromochloromethane	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B
Bromodichloromethane	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B
Bromoform	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B
Bromomethane	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B
n-Butylbenzene	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B
sec-Butylbenzene	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B
tert-Butylbenzene	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B
Carbon disulfide	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B
Carbon tetrachloride	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B
Chlorobenzene	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B
Chlorodibromomethane	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B
Chloroethane	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B
Chloroform	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B
Chloromethane	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B
2-Chlorotoluene	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B
4-Chlorotoluene	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B
2-Chloroethyl vinyl ether	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B
1,2-Dibromo-3-chloropropane	<10.		ug/kg	<10.	04/30/2000	out		1737	SW 8260B
1,2-Dibromoethane (EDB)	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B
Dibromomethane	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B

TestAmerica
INCORPORATED

ANALYTICAL REPORT

Mr. Roger Kottloski
COMMONWEALTH ENGINEERS
7256 Company Drive
Indianapolis, IN 46237

05/16/2000

Job Number: 00.02066

Client Project ID: C99134

Analyte	Result	Flag	Units	Reporting Limit	Date Analyzed	Analyst Initials	Prep Batch No.	Run Batch No.	Method Reference
SAMPLE NO. 264716	SAMPLE DESCRIPTION 1 A-H							DATE-TIME TAKEN 04/25/2000 15:43	
1,2-Dichlorobenzene	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B
1,3-Dichlorobenzene	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B
1,4-Dichlorobenzene	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B
Dichlorodifluoromethane	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B
trans-1,4-Dichloro-2-butene	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B
1,1-Dichloroethane	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B
1,2-Dichloroethane	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B
1,1-Dichloroethene	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B
cis-1,2-Dichloroethene	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B
trans-1,2-Dichloroethene	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B
1,2-Dichloropropane	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B
1,3-Dichloropropane	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B
2,2-Dichloropropane	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B
1,1-Dichloropropene	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B
cis-1,3-Dichloropropene	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B
trans-1,3-Dichloropropene	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B
Ethylbenzene	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B
Ethyl methacrylate	<10.		ug/kg	<10.	04/30/2000	out		1737	SW 8260B
2-Hexanone	<10.		ug/kg	<10.	04/30/2000	out		1737	SW 8260B
Hexachlorobutadiene	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B
Iodomethane	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B
Isopropylbenzene	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B
p-Isopropyltoluene	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B
Methylene chloride	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B
Methyl Ethyl Ketone	<10.		ug/kg	<10.	04/30/2000	out		1737	SW 8260B
4-Methyl-2-pentanone (MIBK)	<10.		ug/kg	<10.	04/30/2000	out		1737	SW 8260B

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Analyte	Result	Flag	Units	Reporting Limit	Date Analyzed	Analyst Initials	Prep Batch No.	Run Batch No.	Method Reference
SAMPLE NO. 264716	SAMPLE DESCRIPTION 1 A-H							DATE-TIME TAKEN 04/25/2000 15:43	
Naphthalene	<5.0		ug/kg	<5.0	04/30/2000	out		1737	SW 8260B
n-Propylbenzene	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B
Styrene	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B
1,1,1,2-Tetrachloroethane	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B
1,1,2,2-Tetrachloroethane	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B
Tetrachloroethene	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B
Toluene	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B
1,2,3-Trichlorobenzene	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B
1,2,4-Trichlorobenzene	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B
1,1,1-Trichloroethane	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B
1,1,2-Trichloroethane	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B
Trichloroethene	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B
Trichlorofluoromethane	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B
1,2,3-Trichloropropane	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B
1,2,4-Trimethylbenzene	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B
1,3,5-Trimethylbenzene	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B
Vinyl acetate	<10.		ug/kg	<10.	04/30/2000	out		1737	SW 8260B
Vinyl chloride	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B
Xylenes, (Total)	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B
SURR: Toluene-d8	102		%		04/30/2000	out		1737	SW 8260B
SURR: Dibromofluoromethane	134		%		04/30/2000	out		1737	SW 8260B
SURR: 4-Bromofluorobenzene	82		%		04/30/2000	out		1737	SW 8260B

TestAmerica
INCORPORATED

ANALYTICAL REPORT

Mr. Roger Kottloski
COMMONWEALTH ENGINEERS
7256 Company Drive
Indianapolis, IN 46237

05/16/2000

Job Number: 00.02066

Client Project ID: C99134

nalyte	Result	Flag	Units	Reporting Limit	Date Analyzed	Analyst Initials	Prep Batch No.	Run Batch No.	Method Reference
SAMPLE NO. 264716	SAMPLE DESCRIPTION 1 A-H								DATE-TIME TAKEN 04/25/2000 15:43
NPD PESTICIDES-NONAQUEOUS 8141	See attached								
ERBICIDES - NONAQUEOUS									
,4-D	<0.17		mg/kg	<0.17	05/09/2000	out		39	SW 8150
2,4,5-TP (Silvex)	<0.017		mg/kg	<0.017	05/09/2000	out		39	SW 8150
SURR: DCAA	46		%		05/09/2000	out		39	SW 8150
ESTICIDES - NONAQUEOUS S-8080									
ldrin	<0.0017		mg/kg	<0.0017	05/10/2000	out	496	72	SW 8080
alpha-BHC	<0.0017		mg/kg	<0.0017	05/10/2000	out	496	72	SW 8080
eta-BHC	<0.0017		mg/kg	<0.0017	05/10/2000	out	496	72	SW 8080
amma-BHC (Lindane)	<0.0017		mg/kg	<0.0017	05/10/2000	out	496	72	SW 8080
delta-BHC	<0.0017		mg/kg	<0.0017	05/10/2000	out	496	72	SW 8080
Chlordane	<0.0017		mg/kg	<0.0017	05/10/2000	out	496	72	SW 8080
,4'-DDD	<0.0033		mg/kg	<0.0033	05/10/2000	out	496	72	SW 8080
,4'-DDE	<0.0033		mg/kg	<0.0033	05/10/2000	out	496	72	SW 8080
4,4'-DDT	<0.0033		mg/kg	<0.0033	05/10/2000	out	496	72	SW 8080
Dieldrin	<0.0033		mg/kg	<0.0033	05/10/2000	out	496	72	SW 8080
ndosulfan I	<0.0017		mg/kg	<0.0017	05/10/2000	out	496	72	SW 8080
ndosulfan II	<0.0033		mg/kg	<0.0033	05/10/2000	out	496	72	SW 8080
Endosulfan Sulfate	<0.0033		mg/kg	<0.0033	05/10/2000	out	496	72	SW 8080
ndrin	<0.0033		mg/kg	<0.0033	05/10/2000	out	496	72	SW 8080
ndrin Aldehyde	<0.0033		mg/kg	<0.0033	05/10/2000	out	496	72	SW 8080
eptachlor	<0.0017		mg/kg	<0.0017	05/10/2000	out	496	72	SW 8080
Heptachlor Epoxide	<0.0017		mg/kg	<0.0017	05/10/2000	out	496	72	SW 8080
ethoxychlor	<0.017		mg/kg	<0.017	05/10/2000	out	496	72	SW 8080
oxaphene	<0.17		mg/kg	<0.17	05/10/2000	out	496	72	SW 8080
Surrogate	88		24-154%		05/10/2000	out	496	72	

TestAmerica
INCORPORATED

ANALYTICAL REPORT

Mr. Roger Kottloski
COMMONWEALTH ENGINEERS
7256 Company Drive
Indianapolis, IN 46237

05/16/2000

Job Number: 00.02066

Client Project ID: C99134

nalyte	Result	Flag	Units	Reporting Limit	Date Analyzed	Analyst Initials	Prep Batch No.	Run Batch No.	Method Reference
SAMPLE NO. 264716	SAMPLE DESCRIPTION 1 A-H						DATE-TIME TAKEN 04/25/2000 15:43		
Pesticide extraction (non-aq)	Complete			Complete	05/02/2000	out	496		SW 3540
SAMPLE NO. 264717	SAMPLE DESCRIPTION 2 A-H						DATE-TIME TAKEN 04/25/2000 13:45		
..itrogen, Ammonia	130		mg/kg	<3.0	05/05/2000	mme	117	249	EPA 350.1
Distillation, Ammonia	Complete			Complete	05/04/2000	sld	117		
CP METALS NONAQUEOUS	Complete			Complete	05/01/2000	crm		1620	
rsenic, ICP	<25.		mg/kg	<25.	05/01/2000	crm	1229	1852	SW 6010
Barium, ICP	48		mg/kg	<1.0	05/01/2000	crm	1229	1877	SW 6010
Cadmium, ICP	<0.50		mg/kg	<0.50	05/01/2000	crm	1229	1879	SW 6010
hromium, ICP	6.6		mg/kg	<0.50	05/01/2000	crm	1229	1892	SW 6010
ron, ICP	7,900		mg/kg	<5.0	05/01/2000	crm	1229	1855	SW 6010
Lead, ICP	7.0		mg/kg	<4.0	05/01/2000	crm	1229	1904	SW 6010
Manganese, ICP	210		mg/kg	<0.5	05/01/2000	crm	1229	1858	SW 6010
ercury, CVAA	<0.10		mg/kg	<0.10	05/01/2000	ldk	50	733	SW 7471
ickel, ICP	8.1		mg/kg	<1.0	05/01/2000	crm	1229	1849	SW 6010
Selenium, ICP	<10.		mg/kg	<10.	05/01/2000	crm	1229	1845	SW 6010
ilver, ICP	<1.0		mg/kg	<1.0	05/01/2000	crm	1229	1866	SW 6010
CP Metals Digestion-Solid	Complete			Complete	04/28/2000	ldk	1229		SW 3050
ercury-Non Aqueous Digestion	Complete			Complete	04/28/2000	ldk	50		
LEVEL IV - ICP METALS	COMPLETE			COMPLETE	05/09/2000	crm		465	
EVEL IV - WET CHEMISTRY	COMPLETE			COMPLETE	05/08/2000	sld		515	

TestAmerica
INCORPORATED

ANALYTICAL REPORT

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Client Project ID: C99134

nalyte	Result	Flag	Units	Reporting Limit	Date Analyzed	Analyst Initials	Prep Batch No.	Run Batch No.	Method Reference
SAMPLE NO. 264717	SAMPLE DESCRIPTION 2 A-H								DATE-TIME TAKEN 04/25/2000 13:45
EVEL IV - MERCURY	Complete			Complete	05/01/2000	ldk		34	

TestAmerica
INCORPORATED

ANALYTICAL REPORT

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05/16/2000

Job Number: 00.02066

Client Project ID: C99134

nalyte	Result	Flag	Units	Reporting Limit	Date Analyzed	Analyst Initials	Prep Batch No.	Run Batch No.	Method Reference
SAMPLE NO. 264717	SAMPLE DESCRIPTION 2 A-H							DATE-TIME TAKEN 04/25/2000 13:45	
VOLATILES - 8260 (NONAQ)									
cetone	<10		ug/kg	<10	04/30/2000	out		1737	SW 8260B
crolein	<10		ug/kg	<10	04/30/2000	out		1737	SW 8260B
Acrylonitrile	<10		ug/kg	<10	04/30/2000	out		1737	SW 8260B
enzene	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B
romobenzene	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B
Bromochloromethane	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B
Bromodichloromethane	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B
romoform	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B
romomethane	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B
n-Butylbenzene	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B
sec-Butylbenzene	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B
ert-Butylbenzene	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B
arbon disulfide	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B
Carbon tetrachloride	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B
hlorobenzene	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B
hlorodibromomethane	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B
hloroethane	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B
Chloroform	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B
hloromethane	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B
-Chlorotoluene	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B
4-Chlorotoluene	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B
2-Chloroethyl vinyl ether	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B
,2-Dibromo-3-chloropropane	<10.		ug/kg	<10.	04/30/2000	out		1737	SW 8260B
,2-Dibromoethane (EDB)	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B
Dibromomethane	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B

TestAmerica
INCORPORATED

ANALYTICAL REPORT

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05/16/2000

Job Number: 00.02066

Client Project ID: C99134

nalyte	Result	Flag	Units	Reporting Limit	Date Analyzed	Analyst Initials	Prep Batch No.	Run Batch No.	Method Reference
SAMPLE NO. 264717	SAMPLE DESCRIPTION 2 A-H							DATE-TIME TAKEN 04/25/2000 13:45	
1,2-Dichlorobenzene	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B
,3-Dichlorobenzene	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B
,4-Dichlorobenzene	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B
Dichlorodifluoromethane	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B
rans-1,4-Dichloro-2-butene	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B
,1-Dichloroethane	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B
1,2-Dichloroethane	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B
1,1-Dichloroethene	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B
is-1,2-Dichloroethene	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B
rans-1,2-Dichloroethene	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B
1,2-Dichloropropane	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B
1,3-Dichloropropane	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B
,2-Dichloropropane	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B
,1-Dichloropropene	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B
cis-1,3-Dichloropropene	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B
rans-1,3-Dichloropropene	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B
thylbenzene	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B
thyl methacrylate	<10.		ug/kg	<10.	04/30/2000	out		1737	SW 8260B
2-Hexanone	<10.		ug/kg	<10.	04/30/2000	out		1737	SW 8260B
exachlorobutadiene	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B
odomethane	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B
Isopropylbenzene	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B
p-Isopropyltoluene	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B
ethylene chloride	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B
ethyl Ethyl Ketone	<10.		ug/kg	<10.	04/30/2000	out		1737	SW 8260B
4-Methyl-2-pentanone (MIBK)	<10.		ug/kg	<10.	04/30/2000	out		1737	SW 8260B

TestAmerica
INCORPORATED

ANALYTICAL REPORT

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05/16/2000

Job Number: 00.02066

Client Project ID: C99134

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SAMPLE NO. 264717	SAMPLE DESCRIPTION 2 A-H							DATE-TIME TAKEN 04/25/2000 13:45	
Naphthalene	<5.0		ug/kg	<5.0	04/30/2000	out		1737	SW 8260B
n-Propylbenzene	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B
Styrene	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B
1,1,1,2-Tetrachloroethane	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B
1,1,2,2-Tetrachloroethane	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B
Tetrachloroethene	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B
Toluene	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B
1,2,3-Trichlorobenzene	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B
1,2,4-Trichlorobenzene	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B
1,1,1-Trichloroethane	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B
1,1,2-Trichloroethane	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B
Trichloroethene	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B
Trichlorofluoromethane	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B
1,2,3-Trichloropropane	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B
1,2,4-Trimethylbenzene	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B
1,3,5-Trimethylbenzene	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B
Vinyl acetate	<10.		ug/kg	<10.	04/30/2000	out		1737	SW 8260B
Vinyl chloride	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B
Xylenes, (Total)	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B
SURR: Toluene-d8	102		%		04/30/2000	out		1737	SW 8260B
SURR: Dibromofluoromethane	136		%		04/30/2000	out		1737	SW 8260B
SURR: 4-Bromofluorobenzene	71		%		04/30/2000	out		1737	SW 8260B

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INCORPORATED

ANALYTICAL REPORT

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05/16/2000

Job Number: 00.02066

Client Project ID: C99134

nalyte	Result	Flag	Units	Reporting Limit	Date Analyzed	Analyst Initials	Prep Batch No.	Run Batch No.	Method Reference
SAMPLE NO. 264717	SAMPLE DESCRIPTION 2 A-H								DATE-TIME TAKEN 04/25/2000 13:45
NPD PESTICIDES-NONAQUEOUS 8141	See attached								
ERBICIDES - NONAQUEOUS									
,4-D	<0.17		mg/kg	<0.17	05/09/2000	out		39	SW 8150
2,4,5-TP (Silvex)	<0.017		mg/kg	<0.017	05/09/2000	out		39	SW 8150
URR: DCAA	70		%		05/09/2000	out		39	SW 8150
ESTICIDES - NONAQUEOUS S-8080									
ldrin	<0.0017		mg/kg	<0.0017	05/10/2000	out	496	72	SW 8080
alpha-BHC	<0.0017		mg/kg	<0.0017	05/10/2000	out	496	72	SW 8080
eta-BHC	<0.0017		mg/kg	<0.0017	05/10/2000	out	496	72	SW 8080
amma-BHC (Lindane)	<0.0017		mg/kg	<0.0017	05/10/2000	out	496	72	SW 8080
delta-BHC	<0.0017		mg/kg	<0.0017	05/10/2000	out	496	72	SW 8080
Chlordane	<0.0017		mg/kg	<0.0017	05/10/2000	out	496	72	SW 8080
,4'-DDD	<0.0033		mg/kg	<0.0033	05/10/2000	out	496	72	SW 8080
,4'-DDE	<0.0033		mg/kg	<0.0033	05/10/2000	out	496	72	SW 8080
4,4'-DDT	<0.0033		mg/kg	<0.0033	05/10/2000	out	496	72	SW 8080
ieldrin	<0.0033		mg/kg	<0.0033	05/10/2000	out	496	72	SW 8080
ndosulfan I	<0.0017		mg/kg	<0.0017	05/10/2000	out	496	72	SW 8080
ndosulfan II	<0.0033		mg/kg	<0.0033	05/10/2000	out	496	72	SW 8080
Endosulfan Sulfate	<0.0033		mg/kg	<0.0033	05/10/2000	out	496	72	SW 8080
ndrin	<0.0033		mg/kg	<0.0033	05/10/2000	out	496	72	SW 8080
ndrin Aldehyde	<0.0033		mg/kg	<0.0033	05/10/2000	out	496	72	SW 8080
Heptachlor	<0.0017		mg/kg	<0.0017	05/10/2000	out	496	72	SW 8080
Heptachlor Epoxide	<0.0017		mg/kg	<0.0017	05/10/2000	out	496	72	SW 8080
ethoxychlor	<0.017		mg/kg	<0.017	05/10/2000	out	496	72	SW 8080
oxaphene	<0.17		mg/kg	<0.17	05/10/2000	out	496	72	SW 8080
Surrogate	94		24-154%		05/10/2000	out	496	72	

TestAmerica
INCORPORATED

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Job Number: 00.02066

Client Project ID: C99134

Analyte	Result	Flag	Units	Reporting Limit	Date Analyzed	Analyst Initials	Prep Batch No.	Run Batch No.	Method Reference
SAMPLE NO. 264717	SAMPLE DESCRIPTION 2 A-H							DATE-TIME TAKEN 04/25/2000 13:45	
Pesticide extraction (non-aq)	Complete			Complete	05/02/2000	out	496		SW 3540
SAMPLE NO. 264718	SAMPLE DESCRIPTION 3 A-H							DATE-TIME TAKEN 04/25/2000 12:40	
Nitrogen, Ammonia	17.		mg/kg	<3.0	05/05/2000	mme	117	249	EPA 350.1
Distillation, Ammonia	Complete			Complete	05/04/2000	sld	117		
CP METALS NONAQUEOUS	complete			Complete	05/01/2000	crm		1620	
rsenic, ICP	<25.		mg/kg	<25.	05/01/2000	crm	1229	1852	SW 6010
Barium, ICP	15		mg/kg	<1.0	05/01/2000	crm	1229	1877	SW 6010
Cadmium, ICP	<0.50		mg/kg	<0.50	05/01/2000	crm	1229	1879	SW 6010
hromium, ICP	3.2		mg/kg	<0.50	05/01/2000	crm	1229	1892	SW 6010
ron, ICP	5,600		mg/kg	<5.0	05/01/2000	crm	1229	1855	SW 6010
Lead, ICP	<4.0		mg/kg	<4.0	05/01/2000	crm	1229	1904	SW 6010
Manganese, ICP	170		mg/kg	<0.5	05/01/2000	crm	1229	1858	SW 6010
ercury, CVAA	<0.10		mg/kg	<0.10	05/01/2000	ldk	50	733	SW 7471
ickel, ICP	6.1		mg/kg	<1.0	05/01/2000	crm	1229	1849	SW 6010
Selenium, ICP	<10.		mg/kg	<10.	05/01/2000	crm	1229	1845	SW 6010
ilver, ICP	<1.0		mg/kg	<1.0	05/01/2000	crm	1229	1866	SW 6010
CP Metals Digestion-Solid	Complete			Complete	04/28/2000	ldk	1229		SW 3050
Mercury-Non Aqueous Digestion	Complete			Complete	04/28/2000	ldk	50		
LEVEL IV - ICP METALS	COMPLETE			COMPLETE	05/09/2000	crm		465	
EVEL IV - WET CHEMISTRY	COMPLETE			COMPLETE	05/08/2000	sld		515	

TestAmerica
INCORPORATED

ANALYTICAL REPORT

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05/16/2000

Job Number: 00.02066

Client Project ID: C99134

nalyte	Result	Flag	Units	Reporting Limit	Date Analyzed	Analyst Initials	Prep Batch No.	Run Batch No.	Method Reference
SAMPLE NO. 264718	SAMPLE DESCRIPTION 3 A-H								DATE-TIME TAKEN 04/25/2000 12:40
LEVEL IV - MERCURY	Complete			Complete	05/01/2000	ldk		34	

TestAmerica
INCORPORATED

ANALYTICAL REPORT

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05/16/2000

Job Number: 00.02066

Client Project ID: C99134

nalyte	Result	Flag	Units	Reporting Limit	Date Analyzed	Analyst Initials	Prep Batch No.	Run Batch No.	Method Reference
SAMPLE NO. 264718	SAMPLE DESCRIPTION 3 A-H							DATE-TIME TAKEN 04/25/2000 12:40	
VOLATILES - 8260 (NONAQ)									
cetone	<10		ug/kg	<10	04/30/2000	out		1737	SW 8260B
crolein	<10		ug/kg	<10	04/30/2000	out		1737	SW 8260B
Acrylonitrile	<10		ug/kg	<10	04/30/2000	out		1737	SW 8260B
enzene	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B
romobenzene	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B
Bromochloromethane	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B
Bromodichloromethane	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B
romoform	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B
romomethane	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B
n-Butylbenzene	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B
sec-Butylbenzene	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B
ert-Butylbenzene	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B
arbon disulfide	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B
Carbon tetrachloride	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B
hlorobenzene	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B
hlorodibromomethane	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B
hloroethane	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B
Chloroform	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B
hloromethane	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B
-Chlorotoluene	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B
4-Chlorotoluene	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B
2-Chloroethyl vinyl ether	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B
,2-Dibromo-3-chloropropane	<10.		ug/kg	<10.	04/30/2000	out		1737	SW 8260B
,2-Dibromoethane (EDB)	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B
Dibromomethane	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B

TestAmerica
INCORPORATED

ANALYTICAL REPORT

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05/16/2000

Job Number: 00.02066

Client Project ID: C99134

Analyte	Result	Flag	Units	Reporting Limit	Date Analyzed	Analyst Initials	Prep Batch No.	Run Batch No.	Method Reference
SAMPLE NO. 264718	SAMPLE DESCRIPTION 3 A-H							DATE-TIME TAKEN 04/25/2000 12:40	
1,2-Dichlorobenzene	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B
,3-Dichlorobenzene	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B
,4-Dichlorobenzene	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B
Dichlorodifluoromethane	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B
rans-1,4-Dichloro-2-butene	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B
,1-Dichloroethane	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B
,2-Dichloroethane	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B
1,1-Dichloroethene	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B
is-1,2-Dichloroethene	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B
rans-1,2-Dichloroethene	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B
1,2-Dichloropropane	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B
1,3-Dichloropropane	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B
,2-Dichloropropane	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B
,1-Dichloropropene	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B
cis-1,3-Dichloropropene	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B
rans-1,3-Dichloropropene	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B
thylbenzene	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B
thyl methacrylate	<10.		ug/kg	<10.	04/30/2000	out		1737	SW 8260B
2-Hexanone	<10.		ug/kg	<10.	04/30/2000	out		1737	SW 8260B
exachlorobutadiene	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B
odomethane	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B
Isopropylbenzene	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B
p-Isopropyltoluene	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B
ethylene chloride	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B
ethyl Ethyl Ketone	<10.		ug/kg	<10.	04/30/2000	out		1737	SW 8260B
4-Methyl-2-pentanone (MIBK)	<10.		ug/kg	<10.	04/30/2000	out		1737	SW 8260B

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ANALYTICAL REPORT

Mr. Roger Kottloski
COMMONWEALTH ENGINEERS
7256 Company Drive
Indianapolis, IN 46237

05/16/2000

Job Number: 00.02066

Client Project ID: C99134

nalyte	Result	Flag	Units	Reporting Limit	Date Analyzed	Analyst Initials	Prep Batch No.	Run Batch No.	Method Reference
SAMPLE NO. 264718	SAMPLE DESCRIPTION 3 A-H							DATE-TIME TAKEN 04/25/2000 12:40	
Naphthalene	<5.0		ug/kg	<5.0	04/30/2000	out		1737	SW 8260B
ı-Propylbenzene	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B
;tyrene	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B
1,1,1,2-Tetrachloroethane	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B
',1,2,2-Tetrachloroethane	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B
'etrachloroethene	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B
'oluene	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B
1,2,3-Trichlorobenzene	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B
.,2,4-Trichlorobenzene	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B
',1,1-Trichloroethane	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B
1,1,2-Trichloroethane	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B
Trichloroethene	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B
'richlorofluoromethane	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B
',2,3-Trichloropropane	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B
1,2,4-Trimethylbenzene	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B
1,3,5-Trimethylbenzene	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B
'inyl acetate	<10.		ug/kg	<10.	04/30/2000	out		1737	SW 8260B
'inyl chloride	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B
Xylenes, (Total)	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B
3URR: Toluene-d8	104		%		04/30/2000	out		1737	SW 8260B
3URR: Dibromofluoromethane	138		%		04/30/2000	out		1737	SW 8260B
SURR: 4-Bromofluorobenzene	78		%		04/30/2000	out		1737	SW 8260B

TestAmerica
INCORPORATED

ANALYTICAL REPORT

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COMMONWEALTH ENGINEERS
7256 Company Drive
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Analyte	Result	Flag	Units	Reporting Limit	Date Analyzed	Analyst Initials	Prep Batch No.	Run Batch No.	Method Reference
SAMPLE NO. 264718	SAMPLE DESCRIPTION 3 A-H							DATE-TIME TAKEN 04/25/2000 12:40	
NPD PESTICIDES-NONAQUEOUS 8141	See attached								
HERBICIDES - NONAQUEOUS									
2,4-D	<0.17		mg/kg	<0.17	05/09/2000	out		39	SW 8150
2,4,5-TP (Silvex)	<0.017		mg/kg	<0.017	05/09/2000	out		39	SW 8150
SURR: DCAA	62		%		05/09/2000	out		39	SW 8150
PESTICIDES - NONAQUEOUS S-8080									
Aldrin	<0.0017		mg/kg	<0.0017	05/10/2000	out	496	72	SW 8080
alpha-BHC	<0.0017		mg/kg	<0.0017	05/10/2000	out	496	72	SW 8080
beta-BHC	<0.0017		mg/kg	<0.0017	05/10/2000	out	496	72	SW 8080
gamma-BHC (Lindane)	<0.0017		mg/kg	<0.0017	05/10/2000	out	496	72	SW 8080
delta-BHC	<0.0017		mg/kg	<0.0017	05/10/2000	out	496	72	SW 8080
Chlordane	<0.0017		mg/kg	<0.0017	05/10/2000	out	496	72	SW 8080
4,4'-DDD	<0.0033		mg/kg	<0.0033	05/10/2000	out	496	72	SW 8080
4,4'-DDE	<0.0033		mg/kg	<0.0033	05/10/2000	out	496	72	SW 8080
4,4'-DDT	<0.0033		mg/kg	<0.0033	05/10/2000	out	496	72	SW 8080
Dieldrin	<0.0033		mg/kg	<0.0033	05/10/2000	out	496	72	SW 8080
Endosulfan I	<0.0017		mg/kg	<0.0017	05/10/2000	out	496	72	SW 8080
Endosulfan II	<0.0033		mg/kg	<0.0033	05/10/2000	out	496	72	SW 8080
Endosulfan Sulfate	<0.0033		mg/kg	<0.0033	05/10/2000	out	496	72	SW 8080
Endrin	<0.0033		mg/kg	<0.0033	05/10/2000	out	496	72	SW 8080
Endrin Aldehyde	<0.0033		mg/kg	<0.0033	05/10/2000	out	496	72	SW 8080
Heptachlor	<0.0017		mg/kg	<0.0017	05/10/2000	out	496	72	SW 8080
Heptachlor Epoxide	<0.0017		mg/kg	<0.0017	05/10/2000	out	496	72	SW 8080
Methoxychlor	<0.017		mg/kg	<0.017	05/10/2000	out	496	72	SW 8080
Toxaphene	<0.17		mg/kg	<0.17	05/10/2000	out	496	72	SW 8080
Surrogate	94		24-154%		05/10/2000	out	496	72	

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nalyte	Result	Flag	Units	Reporting Limit	Date Analyzed	Analyst Initials	Prep Batch No.	Run Batch No.	Method Reference
SAMPLE NO. 264718	SAMPLE DESCRIPTION 3 A-H						DATE-TIME TAKEN 04/25/2000 12:40		
Pesticide extraction (non-aq)	Complete			Complete	05/02/2000	out	496		SW 3540
SAMPLE NO. 264719	SAMPLE DESCRIPTION 4 A-H						DATE-TIME TAKEN 04/25/2000 11:35		
Nitrogen, Ammonia	32.		mg/kg	<3.0	05/05/2000	mme	117	249	EPA 350.1
Distillation, Ammonia	Complete			Complete	05/04/2000	sld	117		
ICP METALS NONAQUEOUS	Complete			Complete	05/01/2000	crm		1620	
Arsenic, ICP	<25.		mg/kg	<25.	05/01/2000	crm	1229	1852	SW 6010
Barium, ICP	32		mg/kg	<1.0	05/01/2000	crm	1229	1877	SW 6010
Cadmium, ICP	<0.50		mg/kg	<0.50	05/01/2000	crm	1229	1879	SW 6010
Chromium, ICP	6.4		mg/kg	<0.50	05/01/2000	crm	1229	1892	SW 6010
Iron, ICP	8,000	i	mg/kg	<5.0	05/01/2000	crm	1229	1855	SW 6010
Lead, ICP	5.5		mg/kg	<4.0	05/01/2000	crm	1229	1904	SW 6010
Manganese, ICP	250		mg/kg	<0.5	05/01/2000	crm	1229	1858	SW 6010
Mercury, CVAA	<0.10		mg/kg	<0.10	05/01/2000	ldk	50	733	SW 7471
Nickel, ICP	5.8		mg/kg	<1.0	05/01/2000	crm	1229	1849	SW 6010
Selenium, ICP	<10.		mg/kg	<10.	05/01/2000	crm	1229	1845	SW 6010
Silver, ICP	<1.0		mg/kg	<1.0	05/01/2000	crm	1229	1866	SW 6010
ICP Metals Digestion-Solid	Complete			Complete	04/28/2000	ldk	1229		SW 3050
Mercury-Non Aqueous Digestion	Complete			Complete	04/28/2000	ldk	50		
LEVEL IV - ICP METALS	COMPLETE			COMPLETE	05/09/2000	crm		465	
LEVEL IV - WET CHEMISTRY	COMPLETE			COMPLETE	05/08/2000	sld		515	

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nalyte	Result	Flag	Units	Reporting Limit	Date Analyzed	Analyst Initials	Prep Batch No.	Run Batch No.	Method Reference
SAMPLE NO. 264719	SAMPLE DESCRIPTION 4 A-H								DATE-TIME TAKEN 04/25/2000 11:35
LEVEL IV - MERCURY	Complete			Complete	05/01/2000	ldk		34	

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ANALYTICAL REPORT

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Analyte	Result	Flag	Units	Reporting Limit	Date Analyzed	Analyst Initials	Prep Batch No.	Run Batch No.	Method Reference
SAMPLE NO. 264719	SAMPLE DESCRIPTION 4 A-H							DATE-TIME TAKEN 04/25/2000 11:35	
VOLATILES - 8260 (NONAQ)									
Acetone	<10		ug/kg	<10	05/01/2000	out		1737	SW 8260B
Acrolein	<10		ug/kg	<10	05/01/2000	out		1737	SW 8260B
Acrylonitrile	<10		ug/kg	<10	05/01/2000	out		1737	SW 8260B
Benzene	<2.0		ug/kg	<2.0	05/01/2000	out		1737	SW 8260B
Bromobenzene	<2.0		ug/kg	<2.0	05/01/2000	out		1737	SW 8260B
Bromochloromethane	<2.0		ug/kg	<2.0	05/01/2000	out		1737	SW 8260B
Bromodichloromethane	<2.0		ug/kg	<2.0	05/01/2000	out		1737	SW 8260B
Bromoform	<2.0		ug/kg	<2.0	05/01/2000	out		1737	SW 8260B
Bromomethane	<2.0		ug/kg	<2.0	05/01/2000	out		1737	SW 8260B
n-Butylbenzene	<2.0		ug/kg	<2.0	05/01/2000	out		1737	SW 8260B
sec-Butylbenzene	<2.0		ug/kg	<2.0	05/01/2000	out		1737	SW 8260B
tert-Butylbenzene	<2.0		ug/kg	<2.0	05/01/2000	out		1737	SW 8260B
Carbon disulfide	<2.0		ug/kg	<2.0	05/01/2000	out		1737	SW 8260B
Carbon tetrachloride	<2.0		ug/kg	<2.0	05/01/2000	out		1737	SW 8260B
Chlorobenzene	<2.0		ug/kg	<2.0	05/01/2000	out		1737	SW 8260B
Chlorodibromomethane	<2.0		ug/kg	<2.0	05/01/2000	out		1737	SW 8260B
Chloroethane	<2.0		ug/kg	<2.0	05/01/2000	out		1737	SW 8260B
Chloroform	<2.0		ug/kg	<2.0	05/01/2000	out		1737	SW 8260B
Chloromethane	<2.0		ug/kg	<2.0	05/01/2000	out		1737	SW 8260B
2-Chlorotoluene	<2.0		ug/kg	<2.0	05/01/2000	out		1737	SW 8260B
4-Chlorotoluene	<2.0		ug/kg	<2.0	05/01/2000	out		1737	SW 8260B
2-Chloroethyl vinyl ether	<2.0		ug/kg	<2.0	05/01/2000	out		1737	SW 8260B
1,2-Dibromo-3-chloropropane	<10.		ug/kg	<10.	05/01/2000	out		1737	SW 8260B
1,2-Dibromoethane (EDB)	<2.0		ug/kg	<2.0	05/01/2000	out		1737	SW 8260B
Dibromomethane	<2.0		ug/kg	<2.0	05/01/2000	out		1737	SW 8260B

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Analyte	Result	Flag	Units	Reporting Limit	Date Analyzed	Analyst Initials	Prep Batch No.	Run Batch No.	Method Reference
SAMPLE NO. 264719	SAMPLE DESCRIPTION 4 A-H							DATE-TIME TAKEN 04/25/2000 11:35	
1,2-Dichlorobenzene	<2.0		ug/kg	<2.0	05/01/2000	out		1737	SW 8260B
1,3-Dichlorobenzene	<2.0		ug/kg	<2.0	05/01/2000	out		1737	SW 8260B
1,4-Dichlorobenzene	<2.0		ug/kg	<2.0	05/01/2000	out		1737	SW 8260B
Dichlorodifluoromethane	<2.0		ug/kg	<2.0	05/01/2000	out		1737	SW 8260B
trans-1,4-Dichloro-2-butene	<2.0		ug/kg	<2.0	05/01/2000	out		1737	SW 8260B
1,1-Dichloroethane	<2.0		ug/kg	<2.0	05/01/2000	out		1737	SW 8260B
1,2-Dichloroethane	<2.0		ug/kg	<2.0	05/01/2000	out		1737	SW 8260B
1,1-Dichloroethene	<2.0		ug/kg	<2.0	05/01/2000	out		1737	SW 8260B
cis-1,2-Dichloroethene	<2.0		ug/kg	<2.0	05/01/2000	out		1737	SW 8260B
trans-1,2-Dichloroethene	<2.0		ug/kg	<2.0	05/01/2000	out		1737	SW 8260B
1,2-Dichloropropane	<2.0		ug/kg	<2.0	05/01/2000	out		1737	SW 8260B
1,3-Dichloropropane	<2.0		ug/kg	<2.0	05/01/2000	out		1737	SW 8260B
2,2-Dichloropropane	<2.0		ug/kg	<2.0	05/01/2000	out		1737	SW 8260B
1,1-Dichloropropene	<2.0		ug/kg	<2.0	05/01/2000	out		1737	SW 8260B
cis-1,3-Dichloropropene	<2.0		ug/kg	<2.0	05/01/2000	out		1737	SW 8260B
trans-1,3-Dichloropropene	<2.0		ug/kg	<2.0	05/01/2000	out		1737	SW 8260B
Ethylbenzene	<2.0		ug/kg	<2.0	05/01/2000	out		1737	SW 8260B
Ethyl methacrylate	<10.		ug/kg	<10.	05/01/2000	out		1737	SW 8260B
2-Hexanone	<10.		ug/kg	<10.	05/01/2000	out		1737	SW 8260B
Hexachlorobutadiene	<2.0		ug/kg	<2.0	05/01/2000	out		1737	SW 8260B
Iodomethane	<2.0		ug/kg	<2.0	05/01/2000	out		1737	SW 8260B
Isopropylbenzene	<2.0		ug/kg	<2.0	05/01/2000	out		1737	SW 8260B
p-Isopropyltoluene	<2.0		ug/kg	<2.0	05/01/2000	out		1737	SW 8260B
Methylene chloride	<2.0		ug/kg	<2.0	05/01/2000	out		1737	SW 8260B
Methyl Ethyl Ketone	<10.		ug/kg	<10.	05/01/2000	out		1737	SW 8260B
4-Methyl-2-pentanone (MIBK)	<10.		ug/kg	<10.	05/01/2000	out		1737	SW 8260B

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SAMPLE NO. 264719	SAMPLE DESCRIPTION 4 A-H							DATE-TIME TAKEN 04/25/2000 11:35	
Naphthalene	<5.0		ug/kg	<5.0	05/01/2000	out		1737	SW 8260B
n-Propylbenzene	<2.0		ug/kg	<2.0	05/01/2000	out		1737	SW 8260B
Styrene	<2.0		ug/kg	<2.0	05/01/2000	out		1737	SW 8260B
1,1,1,2-Tetrachloroethane	<2.0		ug/kg	<2.0	05/01/2000	out		1737	SW 8260B
1,1,2,2-Tetrachloroethane	<2.0		ug/kg	<2.0	05/01/2000	out		1737	SW 8260B
Tetrachloroethene	<2.0		ug/kg	<2.0	05/01/2000	out		1737	SW 8260B
Toluene	<2.0		ug/kg	<2.0	05/01/2000	out		1737	SW 8260B
1,2,3-Trichlorobenzene	<2.0		ug/kg	<2.0	05/01/2000	out		1737	SW 8260B
1,2,4-Trichlorobenzene	<2.0		ug/kg	<2.0	05/01/2000	out		1737	SW 8260B
1,1,1-Trichloroethane	<2.0		ug/kg	<2.0	05/01/2000	out		1737	SW 8260B
1,1,2-Trichloroethane	<2.0		ug/kg	<2.0	05/01/2000	out		1737	SW 8260B
Trichloroethene	<2.0		ug/kg	<2.0	05/01/2000	out		1737	SW 8260B
Trichlorofluoromethane	<2.0		ug/kg	<2.0	05/01/2000	out		1737	SW 8260B
1,2,3-Trichloropropane	<2.0		ug/kg	<2.0	05/01/2000	out		1737	SW 8260B
1,2,4-Trimethylbenzene	<2.0		ug/kg	<2.0	05/01/2000	out		1737	SW 8260B
1,3,5-Trimethylbenzene	<2.0		ug/kg	<2.0	05/01/2000	out		1737	SW 8260B
Vinyl acetate	<10.		ug/kg	<10.	05/01/2000	out		1737	SW 8260B
Vinyl chloride	<2.0		ug/kg	<2.0	05/01/2000	out		1737	SW 8260B
Xylenes, (Total)	<2.0		ug/kg	<2.0	05/01/2000	out		1737	SW 8260B
SURR: Toluene-d8	103		%		05/01/2000	out		1737	SW 8260B
SURR: Dibromofluoromethane	136		%		05/01/2000	out		1737	SW 8260B
SURR: 4-Bromofluorobenzene	76		%		05/01/2000	out		1737	SW 8260B

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Analyte	Result	Flag	Units	Reporting Limit	Date Analyzed	Analyst Initials	Prep Batch No.	Run Batch No.	Method Reference
SAMPLE NO. 264719	SAMPLE DESCRIPTION 4 A-H								DATE-TIME TAKEN 04/25/2000 11:35
NPD PESTICIDES-NONAQUEOUS 8141	See Attached								
HERBICIDES - NONAQUEOUS									
2,4-D	<0.17		mg/kg	<0.17	05/09/2000	out		39	SW 8150
2,4,5-TP (Silvex)	<0.017		mg/kg	<0.017	05/09/2000	out		39	SW 8150
SURR: DCAA	51		%		05/09/2000	out		39	SW 8150
PESTICIDES - NONAQUEOUS S-8080									
Aldrin	<0.0017		mg/kg	<0.0017	05/10/2000	out	496	72	SW 8080
alpha-BHC	<0.0017		mg/kg	<0.0017	05/10/2000	out	496	72	SW 8080
beta-BHC	<0.0017		mg/kg	<0.0017	05/10/2000	out	496	72	SW 8080
gamma-BHC (Lindane)	<0.0017		mg/kg	<0.0017	05/10/2000	out	496	72	SW 8080
delta-BHC	<0.0017		mg/kg	<0.0017	05/10/2000	out	496	72	SW 8080
Chlordane	<0.0017		mg/kg	<0.0017	05/10/2000	out	496	72	SW 8080
4,4'-DDD	<0.0033		mg/kg	<0.0033	05/10/2000	out	496	72	SW 8080
4,4'-DDE	<0.0033		mg/kg	<0.0033	05/10/2000	out	496	72	SW 8080
4,4'-DDT	<0.0033		mg/kg	<0.0033	05/10/2000	out	496	72	SW 8080
Dieldrin	<0.0033		mg/kg	<0.0033	05/10/2000	out	496	72	SW 8080
Endosulfan I	<0.0017		mg/kg	<0.0017	05/10/2000	out	496	72	SW 8080
Endosulfan II	<0.0033		mg/kg	<0.0033	05/10/2000	out	496	72	SW 8080
Endosulfan Sulfate	<0.0033		mg/kg	<0.0033	05/10/2000	out	496	72	SW 8080
Endrin	<0.0033		mg/kg	<0.0033	05/10/2000	out	496	72	SW 8080
Endrin Aldehyde	<0.0033		mg/kg	<0.0033	05/10/2000	out	496	72	SW 8080
Heptachlor	<0.0017		mg/kg	<0.0017	05/10/2000	out	496	72	SW 8080
Heptachlor Epoxide	<0.0017		mg/kg	<0.0017	05/10/2000	out	496	72	SW 8080
Methoxychlor	<0.017		mg/kg	<0.017	05/10/2000	out	496	72	SW 8080
Toxaphene	<0.17		mg/kg	<0.17	05/10/2000	out	496	72	SW 8080
Surrogate	78		24-154%		05/10/2000	out	496	72	

TestAmerica
INCORPORATED

ANALYTICAL REPORT

Mr. Roger Kottloski
COMMONWEALTH ENGINEERS
7256 Company Drive
Indianapolis, IN 46237

05/16/2000

Job Number: 00.02066

Client Project ID: C99134

Analyte	Result	Flag	Units	Reporting Limit	Date Analyzed	Analyst Initials	Prep Batch No.	Run Batch No.	Method Reference
SAMPLE NO. 264719	SAMPLE DESCRIPTION 4 A-H						DATE-TIME TAKEN 04/25/2000 11:35		
Pesticide extraction (non-aq)	Complete			Complete	05/02/2000	out	496		SW 3540
SAMPLE NO. 264720	SAMPLE DESCRIPTION 5 A-H						DATE-TIME TAKEN 04/25/2000 10:15		
Nitrogen, Ammonia	12.		mg/kg	<3.0	05/05/2000	mme	117	249	EPA 350.1
Distillation, Ammonia	Complete			Complete	05/04/2000	sld	117		
ICP METALS NONAQUEOUS	Complete			Complete	05/04/2000	crm		1623	
Arsenic, ICP	<25.		mg/kg	<25.	05/04/2000	crm	1230	1855	SW 6010
Barium, ICP	43		mg/kg	<1.0	05/04/2000	crm	1230	1880	SW 6010
Cadmium, ICP	<0.50		mg/kg	<0.50	05/04/2000	crm	1230	1882	SW 6010
Chromium, ICP	4.6		mg/kg	<0.50	05/04/2000	crm	1230	1895	SW 6010
Iron, ICP	5,100		mg/kg	<5.0	05/04/2000	crm	1230	1858	SW 6010
Lead, ICP	<4.0		mg/kg	<4.0	05/04/2000	crm	1230	1907	SW 6010
Manganese, ICP	470		mg/kg	<0.5	05/04/2000	crm	1230	1861	SW 6010
Mercury, CVAA	<0.10		mg/kg	<0.10	05/01/2000	ldk	50	733	SW 7471
Nickel, ICP	5.2		mg/kg	<1.0	05/04/2000	crm	1230	1852	SW 6010
Selenium, ICP	<10.		mg/kg	<10.	05/04/2000	crm	1230	1848	SW 6010
Silver, ICP	<1.0		mg/kg	<1.0	05/04/2000	crm	1230	1869	SW 6010
ICP Metals Digestion-Solid	Complete			Complete	04/28/2000	ldk	1230		SW 3050
Mercury-Non Aqueous Digestion	Complete			Complete	04/28/2000	ldk	50		
LEVEL IV - ICP METALS	COMPLETE			COMPLETE	05/09/2000	crm		465	
LEVEL IV - WET CHEMISTRY	COMPLETE			COMPLETE	05/08/2000	sld		515	

TestAmerica
INCORPORATED

ANALYTICAL REPORT

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Job Number: 00.02066

Client Project ID: C99134

Analyte	Result	Flag	Units	Reporting Limit	Date Analyzed	Analyst Initials	Prep Batch No.	Run Batch No.	Method Reference
SAMPLE NO. 264720	SAMPLE DESCRIPTION 5 A-H							DATE-TIME TAKEN 04/25/2000 10:15	
LEVEL IV - MERCURY	Complete			Complete	05/01/2000	ldk		34	

TestAmerica
INCORPORATED

ANALYTICAL REPORT

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05/16/2000

Job Number: 00.02066

Client Project ID: C99134

Analyte	Result	Flag	Units	Reporting Limit	Date Analyzed	Analyst Initials	Prep Batch No.	Run Batch No.	Method Reference
SAMPLE NO. 264720	SAMPLE DESCRIPTION 5 A-H							DATE-TIME TAKEN 04/25/2000 10:15	
VOLATILES - 8260 (NONAQ)									
Acetone	<10		ug/kg	<10	04/30/2000	out		1737	SW 8260B
Acrolein	<10		ug/kg	<10	04/30/2000	out		1737	SW 8260B
Acrylonitrile	<10		ug/kg	<10	04/30/2000	out		1737	SW 8260B
Benzene	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B
Bromobenzene	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B
Bromochloromethane	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B
Bromodichloromethane	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B
Bromoform	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B
Bromomethane	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B
n-Butylbenzene	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B
sec-Butylbenzene	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B
tert-Butylbenzene	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B
Carbon disulfide	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B
Carbon tetrachloride	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B
Chlorobenzene	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B
Chlorodibromomethane	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B
Chloroethane	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B
Chloroform	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B
Chloromethane	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B
2-Chlorotoluene	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B
4-Chlorotoluene	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B
2-Chloroethyl vinyl ether	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B
1,2-Dibromo-3-chloropropane	<10.		ug/kg	<10.	04/30/2000	out		1737	SW 8260B
1,2-Dibromoethane (EDB)	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B
Dibromomethane	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B

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INCORPORATED

ANALYTICAL REPORT

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05/16/2000

Job Number: 00.02066

Client Project ID: C99134

Analyte	Result	Flag	Units	Reporting Limit	Date Analyzed	Analyst Initials	Prep Batch No.	Run Batch No.	Method Reference
SAMPLE NO. 264720	SAMPLE DESCRIPTION 5 A-H							DATE-TIME TAKEN 04/25/2000 10:15	
1,2-Dichlorobenzene	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B
1,3-Dichlorobenzene	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B
1,4-Dichlorobenzene	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B
Dichlorodifluoromethane	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B
trans-1,4-Dichloro-2-butene	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B
1,1-Dichloroethane	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B
1,2-Dichloroethane	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B
1,1-Dichloroethene	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B
cis-1,2-Dichloroethene	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B
trans-1,2-Dichloroethene	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B
1,2-Dichloropropane	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B
1,3-Dichloropropane	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B
2,2-Dichloropropane	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B
1,1-Dichloropropene	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B
cis-1,3-Dichloropropene	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B
trans-1,3-Dichloropropene	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B
Ethylbenzene	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B
Ethyl methacrylate	<10.		ug/kg	<10.	04/30/2000	out		1737	SW 8260B
2-Hexanone	<10.		ug/kg	<10.	04/30/2000	out		1737	SW 8260B
Hexachlorobutadiene	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B
Iodomethane	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B
Isopropylbenzene	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B
p-Isopropyltoluene	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B
Methylene chloride	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B
Methyl Ethyl Ketone	<10.		ug/kg	<10.	04/30/2000	out		1737	SW 8260B
4-Methyl-2-pentanone (MIBK)	<10.		ug/kg	<10.	04/30/2000	out		1737	SW 8260B

TestAmerica
INCORPORATED

ANALYTICAL REPORT

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05/16/2000

Job Number: 00.02066

Client Project ID: C99134

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SAMPLE NO. 264720	SAMPLE DESCRIPTION 5 A-H							DATE-TIME TAKEN 04/25/2000 10:15	
Naphthalene	<5.0		ug/kg	<5.0	04/30/2000	out		1737	SW 8260B
n-Propylbenzene	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B
Styrene	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B
1,1,1,2-Tetrachloroethane	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B
1,1,2,2-Tetrachloroethane	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B
Tetrachloroethene	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B
Toluene	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B
1,2,3-Trichlorobenzene	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B
1,2,4-Trichlorobenzene	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B
1,1,1-Trichloroethane	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B
1,1,2-Trichloroethane	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B
Trichloroethene	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B
Trichlorofluoromethane	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B
1,2,3-Trichloropropane	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B
1,2,4-Trimethylbenzene	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B
1,3,5-Trimethylbenzene	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B
Vinyl acetate	<10.		ug/kg	<10.	04/30/2000	out		1737	SW 8260B
Vinyl chloride	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B
Xylenes, (Total)	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B
SURR: Toluene-d8	103		%		04/30/2000	out		1737	SW 8260B
SURR: Dibromofluoromethane	138		%		04/30/2000	out		1737	SW 8260B
SURR: 4-Bromofluorobenzene	80		%		04/30/2000	out		1737	SW 8260B

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INCORPORATED

ANALYTICAL REPORT

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05/16/2000

Job Number: 00.02066

Client Project ID: C99134

Analyte	Result	Flag	Units	Reporting Limit	Date Analyzed	Analyst Initials	Prep Batch No.	Run Batch No.	Method Reference
SAMPLE NO. 264720	SAMPLE DESCRIPTION 5 A-H								DATE-TIME TAKEN 04/25/2000 10:15
NPD PESTICIDES-NONAQUEOUS 8141	See Attached								
HERBICIDES - NONAQUEOUS									
2,4-D	<0.17		mg/kg	<0.17	05/09/2000	out		39	SW 8150
2,4,5-TP (Silvex)	<0.017		mg/kg	<0.017	05/09/2000	out		39	SW 8150
SURR: DCAA	53		%		05/09/2000	out		39	SW 8150
PESTICIDES - NONAQUEOUS S-8080									
Aldrin	<0.0017		mg/kg	<0.0017	05/10/2000	out	496	72	SW 8080
alpha-BHC	<0.0017		mg/kg	<0.0017	05/10/2000	out	496	72	SW 8080
beta-BHC	<0.0017		mg/kg	<0.0017	05/10/2000	out	496	72	SW 8080
gamma-BHC (Lindane)	<0.0017		mg/kg	<0.0017	05/10/2000	out	496	72	SW 8080
delta-BHC	<0.0017		mg/kg	<0.0017	05/10/2000	out	496	72	SW 8080
Chlordane	<0.0017		mg/kg	<0.0017	05/10/2000	out	496	72	SW 8080
4,4'-DDD	<0.0033		mg/kg	<0.0033	05/10/2000	out	496	72	SW 8080
4,4'-DDE	<0.0033		mg/kg	<0.0033	05/10/2000	out	496	72	SW 8080
4,4'-DDT	<0.0033		mg/kg	<0.0033	05/10/2000	out	496	72	SW 8080
Dieldrin	<0.0033		mg/kg	<0.0033	05/10/2000	out	496	72	SW 8080
Endosulfan I	<0.0017		mg/kg	<0.0017	05/10/2000	out	496	72	SW 8080
Endosulfan II	<0.0033		mg/kg	<0.0033	05/10/2000	out	496	72	SW 8080
Endosulfan Sulfate	<0.0033		mg/kg	<0.0033	05/10/2000	out	496	72	SW 8080
Endrin	<0.0033		mg/kg	<0.0033	05/10/2000	out	496	72	SW 8080
Endrin Aldehyde	<0.0033		mg/kg	<0.0033	05/10/2000	out	496	72	SW 8080
Heptachlor	<0.0017		mg/kg	<0.0017	05/10/2000	out	496	72	SW 8080
Heptachlor Epoxide	<0.0017		mg/kg	<0.0017	05/10/2000	out	496	72	SW 8080
Methoxychlor	<0.017		mg/kg	<0.017	05/10/2000	out	496	72	SW 8080
Toxaphene	<0.17		mg/kg	<0.17	05/10/2000	out	496	72	SW 8080
Surrogate	86		24-154%		05/10/2000	out	496	72	

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INCORPORATED

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Job Number: 00.02066

Client Project ID: C99134

Analyte	Result	Flag	Units	Reporting Limit	Date Analyzed	Analyst Initials	Prep Batch No.	Run Batch No.	Method Reference
SAMPLE NO. 264720	SAMPLE DESCRIPTION 5 A-H						DATE-TIME TAKEN 04/25/2000 10:15		
Pesticide extraction (non-aq)	Complete			Complete	05/02/2000	out	496		SW 3540
SAMPLE NO. 264721	SAMPLE DESCRIPTION 6 A-H						DATE-TIME TAKEN 04/25/2000 17:10		
Nitrogen, Ammonia	22.		mg/kg	<3.0	05/05/2000	mme	117	249	EPA 350.1
Distillation, Ammonia	Complete			Complete	05/04/2000	sld	117		
ICP METALS NONAQUEOUS	Complete			Complete	05/04/2000	crm		1623	
Arsenic, ICP	<25.		mg/kg	<25.	05/04/2000	crm	1230	1855	SW 6010
Barium, ICP	14		mg/kg	<1.0	05/04/2000	crm	1230	1880	SW 6010
Cadmium, ICP	<0.50		mg/kg	<0.50	05/04/2000	crm	1230	1882	SW 6010
Chromium, ICP	3.5		mg/kg	<0.50	05/04/2000	crm	1230	1895	SW 6010
Iron, ICP	3,300		mg/kg	<5.0	05/04/2000	crm	1230	1858	SW 6010
Lead, ICP	<4.0		mg/kg	<4.0	05/04/2000	crm	1230	1907	SW 6010
Manganese, ICP	100		mg/kg	<0.5	05/04/2000	crm	1230	1861	SW 6010
Mercury, CVAA	<0.10		mg/kg	<0.10	05/01/2000	ldk	50	733	SW 7471
Nickel, ICP	2.6		mg/kg	<1.0	05/04/2000	crm	1230	1852	SW 6010
Selenium, ICP	<10.		mg/kg	<10.	05/04/2000	crm	1230	1848	SW 6010
Silver, ICP	<1.0		mg/kg	<1.0	05/04/2000	crm	1230	1869	SW 6010
ICP Metals Digestion-Solid	Complete			Complete	04/28/2000	ldk	1230		SW 3050
Mercury-Non Aqueous Digestion	Complete			Complete	04/28/2000	ldk	50		
LEVEL IV - ICP METALS	COMPLETE			COMPLETE	05/09/2000	crm		465	
LEVEL IV - WET CHEMISTRY	COMPLETE			COMPLETE	05/08/2000	sld		515	

TestAmerica
INCORPORATED

ANALYTICAL REPORT

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05/16/2000

Job Number: 00.02066

Client Project ID: C99134

Analyte	Result	Flag	Units	Reporting Limit	Date Analyzed	Analyst Initials	Prep Batch No.	Run Batch No.	Method Reference
SAMPLE NO. 264721	SAMPLE DESCRIPTION 6 A-H								DATE-TIME TAKEN 04/25/2000 17:10
LEVEL IV - MERCURY	Complete			Complete	05/01/2000	ldk		34	

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ANALYTICAL REPORT

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05/16/2000

Job Number: 00.02066

Client Project ID: C99134

Analyte	Result	Flag	Units	Reporting Limit	Date Analyzed	Analyst Initials	Prep Batch No.	Run Batch No.	Method Reference
SAMPLE NO. 264721	SAMPLE DESCRIPTION 6 A-H							DATE-TIME TAKEN 04/25/2000 17:10	
VOLATILES - 8260 (NONAQ)									
Acetone	<10		ug/kg	<10	05/01/2000	out		1737	SW 8260B
Acrolein	<10		ug/kg	<10	05/01/2000	out		1737	SW 8260B
Acrylonitrile	<10		ug/kg	<10	05/01/2000	out		1737	SW 8260B
Benzene	<2.0		ug/kg	<2.0	05/01/2000	out		1737	SW 8260B
Bromobenzene	<2.0		ug/kg	<2.0	05/01/2000	out		1737	SW 8260B
Bromochloromethane	<2.0		ug/kg	<2.0	05/01/2000	out		1737	SW 8260B
Bromodichloromethane	<2.0		ug/kg	<2.0	05/01/2000	out		1737	SW 8260B
Bromoform	<2.0		ug/kg	<2.0	05/01/2000	out		1737	SW 8260B
Bromomethane	<2.0		ug/kg	<2.0	05/01/2000	out		1737	SW 8260B
n-Butylbenzene	<2.0		ug/kg	<2.0	05/01/2000	out		1737	SW 8260B
sec-Butylbenzene	<2.0		ug/kg	<2.0	05/01/2000	out		1737	SW 8260B
tert-Butylbenzene	<2.0		ug/kg	<2.0	05/01/2000	out		1737	SW 8260B
Carbon disulfide	<2.0		ug/kg	<2.0	05/01/2000	out		1737	SW 8260B
Carbon tetrachloride	<2.0		ug/kg	<2.0	05/01/2000	out		1737	SW 8260B
Chlorobenzene	<2.0		ug/kg	<2.0	05/01/2000	out		1737	SW 8260B
Chlorodibromomethane	<2.0		ug/kg	<2.0	05/01/2000	out		1737	SW 8260B
Chloroethane	<2.0		ug/kg	<2.0	05/01/2000	out		1737	SW 8260B
Chloroform	<2.0		ug/kg	<2.0	05/01/2000	out		1737	SW 8260B
Chloromethane	<2.0		ug/kg	<2.0	05/01/2000	out		1737	SW 8260B
2-Chlorotoluene	<2.0		ug/kg	<2.0	05/01/2000	out		1737	SW 8260B
4-Chlorotoluene	<2.0		ug/kg	<2.0	05/01/2000	out		1737	SW 8260B
2-Chloroethyl vinyl ether	<2.0		ug/kg	<2.0	05/01/2000	out		1737	SW 8260B
1,2-Dibromo-3-chloropropane	<10.		ug/kg	<10.	05/01/2000	out		1737	SW 8260B
1,2-Dibromoethane (EDB)	<2.0		ug/kg	<2.0	05/01/2000	out		1737	SW 8260B
Dibromomethane	<2.0		ug/kg	<2.0	05/01/2000	out		1737	SW 8260B

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ANALYTICAL REPORT

Mr. Roger Kottloski
COMMONWEALTH ENGINEERS
7256 Company Drive
Indianapolis, IN 46237

05/16/2000

Job Number: 00.02066

Client Project ID: C99134

Analyte	Result	Flag	Units	Reporting Limit	Date Analyzed	Analyst Initials	Prep Batch No.	Run Batch No.	Method Reference
SAMPLE NO. 264721	SAMPLE DESCRIPTION 6 A-H							DATE-TIME TAKEN 04/25/2000 17:10	
1,2-Dichlorobenzene	<2.0		ug/kg	<2.0	05/01/2000	out		1737	SW 8260B
1,3-Dichlorobenzene	<2.0		ug/kg	<2.0	05/01/2000	out		1737	SW 8260B
1,4-Dichlorobenzene	<2.0		ug/kg	<2.0	05/01/2000	out		1737	SW 8260B
Dichlorodifluoromethane	<2.0		ug/kg	<2.0	05/01/2000	out		1737	SW 8260B
trans-1,4-Dichloro-2-butene	<2.0		ug/kg	<2.0	05/01/2000	out		1737	SW 8260B
1,1-Dichloroethane	<2.0		ug/kg	<2.0	05/01/2000	out		1737	SW 8260B
1,2-Dichloroethane	<2.0		ug/kg	<2.0	05/01/2000	out		1737	SW 8260B
1,1-Dichloroethene	<2.0		ug/kg	<2.0	05/01/2000	out		1737	SW 8260B
cis-1,2-Dichloroethene	<2.0		ug/kg	<2.0	05/01/2000	out		1737	SW 8260B
trans-1,2-Dichloroethene	<2.0		ug/kg	<2.0	05/01/2000	out		1737	SW 8260B
1,2-Dichloropropane	<2.0		ug/kg	<2.0	05/01/2000	out		1737	SW 8260B
1,3-Dichloropropane	<2.0		ug/kg	<2.0	05/01/2000	out		1737	SW 8260B
2,2-Dichloropropane	<2.0		ug/kg	<2.0	05/01/2000	out		1737	SW 8260B
1,1-Dichloropropene	<2.0		ug/kg	<2.0	05/01/2000	out		1737	SW 8260B
cis-1,3-Dichloropropene	<2.0		ug/kg	<2.0	05/01/2000	out		1737	SW 8260B
trans-1,3-Dichloropropene	<2.0		ug/kg	<2.0	05/01/2000	out		1737	SW 8260B
Ethylbenzene	<2.0		ug/kg	<2.0	05/01/2000	out		1737	SW 8260B
Ethyl methacrylate	<10.		ug/kg	<10.	05/01/2000	out		1737	SW 8260B
2-Hexanone	<10.		ug/kg	<10.	05/01/2000	out		1737	SW 8260B
Hexachlorobutadiene	<2.0		ug/kg	<2.0	05/01/2000	out		1737	SW 8260B
Iodomethane	<2.0		ug/kg	<2.0	05/01/2000	out		1737	SW 8260B
Isopropylbenzene	<2.0		ug/kg	<2.0	05/01/2000	out		1737	SW 8260B
p-Isopropyltoluene	<2.0		ug/kg	<2.0	05/01/2000	out		1737	SW 8260B
Methylene chloride	<2.0		ug/kg	<2.0	05/01/2000	out		1737	SW 8260B
Methyl Ethyl Ketone	<10.		ug/kg	<10.	05/01/2000	out		1737	SW 8260B
4-Methyl-2-pentanone (MIBK)	<10.		ug/kg	<10.	05/01/2000	out		1737	SW 8260B

TestAmerica
INCORPORATED

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Analyte	Result	Flag	Units	Reporting Limit	Date Analyzed	Analyst Initials	Prep Batch No.	Run Batch No.	Method Reference
SAMPLE NO. 264721	SAMPLE DESCRIPTION 6 A-H							DATE-TIME TAKEN 04/25/2000 17:10	
Naphthalene	<5.0		ug/kg	<5.0	05/01/2000	out		1737	SW 8260B
n-Propylbenzene	<2.0		ug/kg	<2.0	05/01/2000	out		1737	SW 8260B
Styrene	<2.0		ug/kg	<2.0	05/01/2000	out		1737	SW 8260B
1,1,1,2-Tetrachloroethane	<2.0		ug/kg	<2.0	05/01/2000	out		1737	SW 8260B
1,1,2,2-Tetrachloroethane	<2.0		ug/kg	<2.0	05/01/2000	out		1737	SW 8260B
Tetrachloroethene	<2.0		ug/kg	<2.0	05/01/2000	out		1737	SW 8260B
Toluene	<2.0		ug/kg	<2.0	05/01/2000	out		1737	SW 8260B
1,2,3-Trichlorobenzene	<2.0		ug/kg	<2.0	05/01/2000	out		1737	SW 8260B
1,2,4-Trichlorobenzene	<2.0		ug/kg	<2.0	05/01/2000	out		1737	SW 8260B
1,1,1-Trichloroethane	<2.0		ug/kg	<2.0	05/01/2000	out		1737	SW 8260B
1,1,2-Trichloroethane	<2.0		ug/kg	<2.0	05/01/2000	out		1737	SW 8260B
Trichloroethene	<2.0		ug/kg	<2.0	05/01/2000	out		1737	SW 8260B
Trichlorofluoromethane	<2.0		ug/kg	<2.0	05/01/2000	out		1737	SW 8260B
1,2,3-Trichloropropane	<2.0		ug/kg	<2.0	05/01/2000	out		1737	SW 8260B
1,2,4-Trimethylbenzene	<2.0		ug/kg	<2.0	05/01/2000	out		1737	SW 8260B
1,3,5-Trimethylbenzene	<2.0		ug/kg	<2.0	05/01/2000	out		1737	SW 8260B
Vinyl acetate	<10.		ug/kg	<10.	05/01/2000	out		1737	SW 8260B
Vinyl chloride	<2.0		ug/kg	<2.0	05/01/2000	out		1737	SW 8260B
Xylenes, (Total)	<2.0		ug/kg	<2.0	05/01/2000	out		1737	SW 8260B
SURR: Toluene-d8	102		%		05/01/2000	out		1737	SW 8260B
SURR: Dibromofluoromethane	139		%		05/01/2000	out		1737	SW 8260B
SURR: 4-Bromofluorobenzene	78		%		05/01/2000	out		1737	SW 8260B

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ANALYTICAL REPORT

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Client Project ID: C99134

Analyte	Result	Flag	Units	Reporting Limit	Date Analyzed	Analyst Initials	Prep Batch No.	Run Batch No.	Method Reference
SAMPLE NO. 264721	SAMPLE DESCRIPTION 6 A-H								DATE-TIME TAKEN 04/25/2000 17:10
NPD PESTICIDES-NONAQUEOUS 8141 See Attached									
HERBICIDES - NONAQUEOUS									
2,4-D	<0.17		mg/kg	<0.17	05/09/2000	out		39	SW 8150
2,4,5-TP (Silvex)	<0.017		mg/kg	<0.017	05/09/2000	out		39	SW 8150
SURR: DCAA	53		%		05/09/2000	out		39	SW 8150
PESTICIDES - NONAQUEOUS S-8080									
Aldrin	<0.0017		mg/kg	<0.0017	05/10/2000	out	496	72	SW 8080
alpha-BHC	<0.0017		mg/kg	<0.0017	05/10/2000	out	496	72	SW 8080
beta-BHC	<0.0017		mg/kg	<0.0017	05/10/2000	out	496	72	SW 8080
gamma-BHC (Lindane)	<0.0017		mg/kg	<0.0017	05/10/2000	out	496	72	SW 8080
delta-BHC	<0.0017		mg/kg	<0.0017	05/10/2000	out	496	72	SW 8080
Chlordane	<0.0017		mg/kg	<0.0017	05/10/2000	out	496	72	SW 8080
4,4'-DDD	<0.0033		mg/kg	<0.0033	05/10/2000	out	496	72	SW 8080
4,4'-DDE	<0.0033		mg/kg	<0.0033	05/10/2000	out	496	72	SW 8080
4,4'-DDT	<0.0033		mg/kg	<0.0033	05/10/2000	out	496	72	SW 8080
Dieldrin	<0.0033		mg/kg	<0.0033	05/10/2000	out	496	72	SW 8080
Endosulfan I	<0.0017		mg/kg	<0.0017	05/10/2000	out	496	72	SW 8080
Endosulfan II	<0.0033		mg/kg	<0.0033	05/10/2000	out	496	72	SW 8080
Endosulfan Sulfate	<0.0033		mg/kg	<0.0033	05/10/2000	out	496	72	SW 8080
Endrin	<0.0033		mg/kg	<0.0033	05/10/2000	out	496	72	SW 8080
Endrin Aldehyde	<0.0033		mg/kg	<0.0033	05/10/2000	out	496	72	SW 8080
Heptachlor	<0.0017		mg/kg	<0.0017	05/10/2000	out	496	72	SW 8080
Heptachlor Epoxide	<0.0017		mg/kg	<0.0017	05/10/2000	out	496	72	SW 8080
Methoxychlor	<0.017		mg/kg	<0.017	05/10/2000	out	496	72	SW 8080
Toxaphene	<0.17		mg/kg	<0.17	05/10/2000	out	496	72	SW 8080
Surrogate	79		24-154%		05/10/2000	out	496	72	

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ANALYTICAL REPORT

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05/16/2000

Job Number: 00.02066

Client Project ID: C99134

Analyte	Result	Flag	Units	Reporting Limit	Date Analyzed	Analyst Initials	Prep Batch No.	Run Batch No.	Method Reference
SAMPLE NO. 264721	SAMPLE DESCRIPTION 6 A-H							DATE-TIME TAKEN 04/25/2000 17:10	
Pesticide extraction (non-aq)	Complete			Complete	05/02/2000	out	496		SW 3540
SAMPLE NO. 264722	SAMPLE DESCRIPTION 7 A-H							DATE-TIME TAKEN 04/25/2000 18:00	
Nitrogen, Ammonia	10.		mg/kg	<3.0	05/05/2000	mme	117	249	EPA 350.1
Distillation, Ammonia	Complete			Complete	05/04/2000	sld	117		
ICP METALS NONAQUEOUS	Complete			Complete	05/04/2000	crm		1623	
Arsenic, ICP	<25.		mg/kg	<25.	05/04/2000	crm	1230	1855	SW 6010
Barium, ICP	20		mg/kg	<1.0	05/04/2000	crm	1230	1880	SW 6010
Cadmium, ICP	<0.50		mg/kg	<0.50	05/04/2000	crm	1230	1882	SW 6010
Chromium, ICP	2.9		mg/kg	<0.50	05/04/2000	crm	1230	1895	SW 6010
Iron, ICP	2,800		mg/kg	<5.0	05/04/2000	crm	1230	1858	SW 6010
Lead, ICP	<4.0		mg/kg	<4.0	05/04/2000	crm	1230	1907	SW 6010
Manganese, ICP	58		mg/kg	<0.5	05/04/2000	crm	1230	1861	SW 6010
Mercury, CVAA	<0.10		mg/kg	<0.10	05/01/2000	ldk	50	733	SW 7471
Nickel, ICP	3.1		mg/kg	<1.0	05/04/2000	crm	1230	1852	SW 6010
Selenium, ICP	<10.		mg/kg	<10.	05/04/2000	crm	1230	1848	SW 6010
Silver, ICP	<1.0		mg/kg	<1.0	05/04/2000	crm	1230	1869	SW 6010
ICP Metals Digestion-Solid	Complete			Complete	04/28/2000	ldk	1230		SW 3050
Mercury-Non Aqueous Digestion	Complete			Complete	04/28/2000	ldk	50		
LEVEL IV - ICP METALS	COMPLETE			COMPLETE	05/09/2000	crm		465	
LEVEL IV - WET CHEMISTRY	COMPLETE			COMPLETE	05/08/2000	sld		515	

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Client Project ID: C99134

nalyte	Result	Flag	Units	Reporting Limit	Date Analyzed	Analyst Initials	Prep Batch No.	Run Batch No.	Method Reference
SAMPLE NO. 264722	SAMPLE DESCRIPTION 7 A-H								DATE-TIME TAKEN 04/25/2000 18:00
LEVEL IV - MERCURY	Complete			Complete	05/01/2000	ldk		34	

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ANALYTICAL REPORT

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Client Project ID: C99134

Analyte	Result	Flag	Units	Reporting Limit	Date Analyzed	Analyst Initials	Prep Batch No.	Run Batch No.	Method Reference
SAMPLE NO. 264722	SAMPLE DESCRIPTION 7 A-H							DATE-TIME TAKEN 04/25/2000 18:00	
VOLATILES - 8260 (NONAQ)									
Acetone	<10		ug/kg	<10	04/30/2000	out		1737	SW 8260B
Acrolein	<10		ug/kg	<10	04/30/2000	out		1737	SW 8260B
Acrylonitrile	<10		ug/kg	<10	04/30/2000	out		1737	SW 8260B
Benzene	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B
Bromobenzene	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B
Bromochloromethane	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B
Bromodichloromethane	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B
Bromoform	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B
Bromomethane	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B
n-Butylbenzene	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B
sec-Butylbenzene	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B
tert-Butylbenzene	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B
Carbon disulfide	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B
Carbon tetrachloride	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B
Chlorobenzene	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B
Chlorodibromomethane	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B
Chloroethane	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B
Chloroform	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B
Chloromethane	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B
2-Chlorotoluene	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B
4-Chlorotoluene	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B
2-Chloroethyl vinyl ether	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B
1,2-Dibromo-3-chloropropane	<10.		ug/kg	<10.	04/30/2000	out		1737	SW 8260B
1,2-Dibromoethane (EDB)	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B
Dibromomethane	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B

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SAMPLE NO. 264722	SAMPLE DESCRIPTION 7 A-H							DATE-TIME TAKEN 04/25/2000 18:00	
1,2-Dichlorobenzene	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B
3-Dichlorobenzene	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B
4-Dichlorobenzene	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B
Dichlorodifluoromethane	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B
trans-1,4-Dichloro-2-butene	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B
1-Dichloroethane	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B
1,2-Dichloroethane	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B
1,1-Dichloroethene	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B
cis-1,2-Dichloroethene	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B
trans-1,2-Dichloroethene	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B
1,2-Dichloropropane	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B
1,3-Dichloropropane	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B
2,2-Dichloropropane	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B
1,1-Dichloropropene	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B
cis-1,3-Dichloropropene	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B
trans-1,3-Dichloropropene	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B
thylbenzene	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B
thyl methacrylate	<10.		ug/kg	<10.	04/30/2000	out		1737	SW 8260B
2-Hexanone	<10.		ug/kg	<10.	04/30/2000	out		1737	SW 8260B
exachlorobutadiene	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B
odomethane	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B
Isopropylbenzene	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B
p-Isopropyltoluene	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B
ethylene chloride	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B
ethyl Ethyl Ketone	<10.		ug/kg	<10.	04/30/2000	out		1737	SW 8260B
4-Methyl-2-pentanone (MIBK)	<10.		ug/kg	<10.	04/30/2000	out		1737	SW 8260B

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nalyte	Result	Flag	Units	Reporting Limit	Date Analyzed	Analyst Initials	Prep Batch No.	Run Batch No.	Method Reference
SAMPLE NO. 264722	SAMPLE DESCRIPTION 7 A-H							DATE-TIME TAKEN 04/25/2000 18:00	
Naphthalene	<5.0		ug/kg	<5.0	04/30/2000	out		1737	SW 8260B
-Propylbenzene	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B
tyrene	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B
1,1,1,2-Tetrachloroethane	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B
,1,2,2-Tetrachloroethane	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B
etrachloroethene	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B
oluene	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B
1,2,3-Trichlorobenzene	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B
,2,4-Trichlorobenzene	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B
,1,1-Trichloroethane	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B
1,1,2-Trichloroethane	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B
Trichloroethene	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B
richlorofluoromethane	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B
,2,3-Trichloropropane	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B
1,2,4-Trimethylbenzene	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B
1,3,5-Trimethylbenzene	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B
inyl acetate	<10.		ug/kg	<10.	04/30/2000	out		1737	SW 8260B
inyl chloride	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B
Xylenes, (Total)	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B
URR: Toluene-d8	105		%		04/30/2000	out		1737	SW 8260B
URR: Dibromofluoromethane	140		%		04/30/2000	out		1737	SW 8260B
URR: 4-Bromofluorobenzene	80		%		04/30/2000	out		1737	SW 8260B

TestAmerica
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Analyte	Result	Flag	Units	Reporting Limit	Date Analyzed	Analyst Initials	Prep Batch No.	Run Batch No.	Method Reference
SAMPLE NO. 264722	SAMPLE DESCRIPTION 7 A-H								DATE-TIME TAKEN 04/25/2000 18:00
NPD PESTICIDES-NONAQUEOUS 8141	See Attached								
HERBICIDES - NONAQUEOUS									
2,4-D	<0.17		mg/kg	<0.17	05/09/2000	out		39	SW 8150
2,4,5-TP (Silvex)	<0.017		mg/kg	<0.017	05/09/2000	out		39	SW 8150
SURR: DCAA	53		%		05/09/2000	out		39	SW 8150
PESTICIDES - NONAQUEOUS S-8080									
Aldrin	<0.0017		mg/kg	<0.0017	05/10/2000	out	496	72	SW 8080
alpha-BHC	<0.0017		mg/kg	<0.0017	05/10/2000	out	496	72	SW 8080
beta-BHC	<0.0017		mg/kg	<0.0017	05/10/2000	out	496	72	SW 8080
gamma-BHC (Lindane)	<0.0017		mg/kg	<0.0017	05/10/2000	out	496	72	SW 8080
delta-BHC	<0.0017		mg/kg	<0.0017	05/10/2000	out	496	72	SW 8080
Chlordane	<0.0017		mg/kg	<0.0017	05/10/2000	out	496	72	SW 8080
4,4'-DDD	<0.0033		mg/kg	<0.0033	05/10/2000	out	496	72	SW 8080
4,4'-DDE	<0.0033		mg/kg	<0.0033	05/10/2000	out	496	72	SW 8080
4,4'-DDT	<0.0033		mg/kg	<0.0033	05/10/2000	out	496	72	SW 8080
Dieldrin	<0.0033		mg/kg	<0.0033	05/10/2000	out	496	72	SW 8080
Endosulfan I	<0.0017		mg/kg	<0.0017	05/10/2000	out	496	72	SW 8080
Endosulfan II	<0.0033		mg/kg	<0.0033	05/10/2000	out	496	72	SW 8080
Endosulfan Sulfate	<0.0033		mg/kg	<0.0033	05/10/2000	out	496	72	SW 8080
Endrin	<0.0033		mg/kg	<0.0033	05/10/2000	out	496	72	SW 8080
Endrin Aldehyde	<0.0033		mg/kg	<0.0033	05/10/2000	out	496	72	SW 8080
Heptachlor	<0.0017		mg/kg	<0.0017	05/10/2000	out	496	72	SW 8080
Heptachlor Epoxide	<0.0017		mg/kg	<0.0017	05/10/2000	out	496	72	SW 8080
Methoxychlor	<0.017		mg/kg	<0.017	05/10/2000	out	496	72	SW 8080
Toxaphene	<0.17		mg/kg	<0.17	05/10/2000	out	496	72	SW 8080
Surrogate	92		24-154%		05/10/2000	out	496	72	

TestAmerica
INCORPORATED

ANALYTICAL REPORT

Mr. Roger Kottloski
COMMONWEALTH ENGINEERS
7256 Company Drive
Indianapolis, IN 46237

05/16/2000

Job Number: 00.02066

Client Project ID: C99134

Analyte	Result	Flag	Units	Reporting Limit	Date Analyzed	Analyst Initials	Prep Batch No.	Run Batch No.	Method Reference
SAMPLE NO. 264722	SAMPLE DESCRIPTION 7 A-H							DATE-TIME TAKEN 04/25/2000 18:00	
Pesticide extraction (non-aq)	Complete			Complete	05/02/2000	out	496		SW 3540
SAMPLE NO. 264723	SAMPLE DESCRIPTION 8 A-H							DATE-TIME TAKEN 04/26/2000 10:15	
Nitrogen, Ammonia	14.		mg/kg	<3.0	05/05/2000	mme	117	249	EPA 350.1
Distillation, Ammonia	Complete			Complete	05/04/2000	sld	117		
ICP METALS NONAQUEOUS	Complete			Complete	05/04/2000	crm		1623	
Arsenic, ICP	<25.		mg/kg	<25.	05/04/2000	crm	1230	1855	SW 6010
Barium, ICP	26		mg/kg	<1.0	05/04/2000	crm	1230	1880	SW 6010
Cadmium, ICP	<0.50		mg/kg	<0.50	05/04/2000	crm	1230	1882	SW 6010
Chromium, ICP	7.0		mg/kg	<0.50	05/04/2000	crm	1230	1895	SW 6010
Iron, ICP	8,200		mg/kg	<5.0	05/04/2000	crm	1230	1858	SW 6010
Lead, ICP	<4.0		mg/kg	<4.0	05/04/2000	crm	1230	1907	SW 6010
Manganese, ICP	230		mg/kg	<0.5	05/04/2000	crm	1230	1861	SW 6010
Mercury, CVAA	<0.10		mg/kg	<0.10	05/01/2000	ldk	50	733	SW 7471
Nickel, ICP	5.7		mg/kg	<1.0	05/04/2000	crm	1230	1852	SW 6010
Selenium, ICP	<10.		mg/kg	<10.	05/04/2000	crm	1230	1848	SW 6010
Silver, ICP	<1.0		mg/kg	<1.0	05/04/2000	crm	1230	1869	SW 6010
ICP Metals Digestion-Solid	Complete			Complete	04/28/2000	ldk	1230		SW 3050
Mercury-Non Aqueous Digestion	Complete			Complete	04/28/2000	ldk	50		
LEVEL IV - ICP METALS	COMPLETE			COMPLETE	05/09/2000	crm		465	
LEVEL IV - WET CHEMISTRY	COMPLETE			COMPLETE	05/08/2000	sld		515	

TestAmerica
INCORPORATED

ANALYTICAL REPORT

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Analyte	Result	Flag	Units	Reporting Limit	Date Analyzed	Analyst Initials	Prep Batch No.	Run Batch No.	Method Reference
SAMPLE NO. 264723	SAMPLE DESCRIPTION 8 A-H							DATE-TIME TAKEN 04/26/2000 10:15	
LEVEL IV - MERCURY	Complete			Complete	05/01/2000	ldk		34	

TestAmerica
INCORPORATED

ANALYTICAL REPORT

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05/16/2000

Job Number: 00.02066

Client Project ID: C99134

Analyte	Result	Flag	Units	Reporting Limit	Date Analyzed	Analyst Initials	Prep Batch No.	Run Batch No.	Method Reference
SAMPLE NO. 264723	SAMPLE DESCRIPTION 8 A-H								DATE-TIME TAKEN 04/26/2000 10:15
VOLATILES - 8260 (NONAQ)									
cetone	<10		ug/kg	<10	04/30/2000	out		1737	SW 8260B
crolein	<10		ug/kg	<10	04/30/2000	out		1737	SW 8260B
Acrylonitrile	<10		ug/kg	<10	04/30/2000	out		1737	SW 8260B
Benzene	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B
romobenzene	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B
romochloromethane	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B
Bromodichloromethane	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B
romoform	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B
romomethane	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B
n-Butylbenzene	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B
sec-Butylbenzene	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B
ert-Butylbenzene	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B
arbon disulfide	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B
Carbon tetrachloride	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B
Chlorobenzene	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B
hlorodibromomethane	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B
hloroethane	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B
Chloroform	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B
hloromethane	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B
-Chlorotoluene	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B
4-Chlorotoluene	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B
2-Chloroethyl vinyl ether	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B
,2-Dibromo-3-chloropropane	<10.		ug/kg	<10.	04/30/2000	out		1737	SW 8260B
,2-Dibromoethane (EDB)	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B
Dibromomethane	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B

TestAmerica
INCORPORATED

ANALYTICAL REPORT

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05/16/2000

Job Number: 00.02066

Client Project ID: C99134

Analyte	Result	Flag	Units	Reporting Limit	Date Analyzed	Analyst Initials	Prep Batch No.	Run Batch No.	Method Reference
SAMPLE NO. 264723	SAMPLE DESCRIPTION 8 A-H							DATE-TIME TAKEN 04/26/2000 10:15	
1,2-Dichlorobenzene	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B
1,3-Dichlorobenzene	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B
1,4-Dichlorobenzene	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B
Dichlorodifluoromethane	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B
trans-1,4-Dichloro-2-butene	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B
1,1-Dichloroethane	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B
1,2-Dichloroethane	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B
1,1-Dichloroethene	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B
cis-1,2-Dichloroethene	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B
trans-1,2-Dichloroethene	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B
1,2-Dichloropropane	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B
1,3-Dichloropropane	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B
2,2-Dichloropropane	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B
1,1-Dichloropropene	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B
cis-1,3-Dichloropropene	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B
trans-1,3-Dichloropropene	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B
Ethylbenzene	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B
Ethyl methacrylate	<10.		ug/kg	<10.	04/30/2000	out		1737	SW 8260B
2-Hexanone	<10.		ug/kg	<10.	04/30/2000	out		1737	SW 8260B
Hexachlorobutadiene	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B
Iodomethane	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B
Isopropylbenzene	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B
p-Isopropyltoluene	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B
Methylene chloride	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B
Methyl Ethyl Ketone	<10.		ug/kg	<10.	04/30/2000	out		1737	SW 8260B
4-Methyl-2-pentanone (MIBK)	<10.		ug/kg	<10.	04/30/2000	out		1737	SW 8260B

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INCORPORATED

ANALYTICAL REPORT

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05/16/2000

Job Number: 00.02066

Client Project ID: C99134

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SAMPLE NO. 264723	SAMPLE DESCRIPTION 8 A-H							DATE-TIME TAKEN 04/26/2000 10:15	
Naphthalene	<5.0		ug/kg	<5.0	04/30/2000	out		1737	SW 8260B
n-Propylbenzene	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B
Styrene	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B
1,1,1,2-Tetrachloroethane	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B
1,1,2,2-Tetrachloroethane	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B
Tetrachloroethene	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B
Toluene	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B
1,2,3-Trichlorobenzene	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B
1,2,4-Trichlorobenzene	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B
1,1,1-Trichloroethane	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B
1,1,2-Trichloroethane	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B
Trichloroethene	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B
Trichlorofluoromethane	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B
1,2,3-Trichloropropane	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B
1,2,4-Trimethylbenzene	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B
1,3,5-Trimethylbenzene	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B
Vinyl acetate	<10.		ug/kg	<10.	04/30/2000	out		1737	SW 8260B
Vinyl chloride	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B
Xylenes, (Total)	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B
SURR: Toluene-d8	105		%		04/30/2000	out		1737	SW 8260B
SURR: Dibromofluoromethane	147		%		04/30/2000	out		1737	SW 8260B
SURR: 4-Bromofluorobenzene	81		%		04/30/2000	out		1737	SW 8260B

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ANALYTICAL REPORT

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Job Number: 00.02066

Client Project ID: C99134

Analyte	Result	Flag	Units	Reporting Limit	Date Analyzed	Analyst Initials	Prep Batch No.	Run Batch No.	Method Reference
SAMPLE NO. 264723	SAMPLE DESCRIPTION 8 A-H								DATE-TIME TAKEN 04/26/2000 10:15
NPD PESTICIDES-NONAQUEOUS 8141	See Attached								
HERBICIDES - NONAQUEOUS									
2,4-D	<0.17		mg/kg	<0.17	05/09/2000	out		39	SW 8150
2,4,5-TP (Silvex)	<0.017		mg/kg	<0.017	05/09/2000	out		39	SW 8150
SURR: DCAA	65		%		05/09/2000	out		39	SW 8150
PESTICIDES - NONAQUEOUS S-8080									
Aldrin	<0.0017		mg/kg	<0.0017	05/10/2000	out	496	72	SW 8080
alpha-BHC	<0.0017		mg/kg	<0.0017	05/10/2000	out	496	72	SW 8080
beta-BHC	<0.0017		mg/kg	<0.0017	05/10/2000	out	496	72	SW 8080
gamma-BHC (Lindane)	<0.0017		mg/kg	<0.0017	05/10/2000	out	496	72	SW 8080
delta-BHC	<0.0017		mg/kg	<0.0017	05/10/2000	out	496	72	SW 8080
Chlordane	<0.0017		mg/kg	<0.0017	05/10/2000	out	496	72	SW 8080
4,4'-DDD	<0.0033		mg/kg	<0.0033	05/10/2000	out	496	72	SW 8080
4,4'-DDE	<0.0033		mg/kg	<0.0033	05/10/2000	out	496	72	SW 8080
4,4'-DDT	<0.0033		mg/kg	<0.0033	05/10/2000	out	496	72	SW 8080
Dieldrin	<0.0033		mg/kg	<0.0033	05/10/2000	out	496	72	SW 8080
Endosulfan I	<0.0017		mg/kg	<0.0017	05/10/2000	out	496	72	SW 8080
Endosulfan II	<0.0033		mg/kg	<0.0033	05/10/2000	out	496	72	SW 8080
Endosulfan Sulfate	<0.0033		mg/kg	<0.0033	05/10/2000	out	496	72	SW 8080
Endrin	<0.0033		mg/kg	<0.0033	05/10/2000	out	496	72	SW 8080
Endrin Aldehyde	<0.0033		mg/kg	<0.0033	05/10/2000	out	496	72	SW 8080
Heptachlor	<0.0017		mg/kg	<0.0017	05/10/2000	out	496	72	SW 8080
Heptachlor Epoxide	<0.0017		mg/kg	<0.0017	05/10/2000	out	496	72	SW 8080
Methoxychlor	<0.017		mg/kg	<0.017	05/10/2000	out	496	72	SW 8080
Toxaphene	<0.17		mg/kg	<0.17	05/10/2000	out	496	72	SW 8080
Surrogate	86		24-154%		05/10/2000	out	496	72	

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Client Project ID: C99134

Analyte	Result	Flag	Units	Reporting Limit	Date Analyzed	Analyst Initials	Prep Batch No.	Run Batch No.	Method Reference
SAMPLE NO. 264723	SAMPLE DESCRIPTION 8 A-H						DATE-TIME TAKEN 04/26/2000 10:15		
Pesticide extraction (non-aq)	Complete			Complete	05/02/2000	out	496		SW 3540
SAMPLE NO. 264724	SAMPLE DESCRIPTION 9 A-H						DATE-TIME TAKEN 04/26/2000 12:45		
Nitrogen, Ammonia	5.2		mg/kg	<3.0	05/05/2000	mme	117	249	EPA 350.1
Distillation, Ammonia	Complete			Complete	05/04/2000	sld	117		
ICP METALS NONAQUEOUS	Complete			Complete	05/08/2000	crm		1625	
Arsenic, ICP	<25.		mg/kg	<25.	05/04/2000	crm	1230	1855	SW 6010
Barium, ICP	21		mg/kg	<1.0	05/04/2000	crm	1230	1880	SW 6010
Cadmium, ICP	<0.50		mg/kg	<0.50	05/08/2000	crm	1230	1885	SW 6010
Chromium, ICP	10		mg/kg	<0.50	05/04/2000	crm	1230	1895	SW 6010
Iron, ICP	9,600		mg/kg	<5.0	05/04/2000	crm	1230	1858	SW 6010
Lead, ICP	<4.0		mg/kg	<4.0	05/04/2000	crm	1230	1907	SW 6010
Manganese, ICP	220		mg/kg	<0.5	05/04/2000	crm	1230	1861	SW 6010
Mercury, CVAA	<0.10		mg/kg	<0.10	05/01/2000	ldk	50	733	SW 7471
Nickel, ICP	8.1		mg/kg	<1.0	05/04/2000	crm	1230	1852	SW 6010
Selenium, ICP	<10.		mg/kg	<10.	05/04/2000	crm	1230	1848	SW 6010
Silver, ICP	<1.0		mg/kg	<1.0	05/04/2000	crm	1230	1869	SW 6010
ICP Metals Digestion-Solid	Complete			Complete	04/28/2000	ldk	1230		SW 3050
Mercury-Non Aqueous Digestion	Complete			Complete	04/28/2000	ldk	50		
LEVEL IV - ICP METALS	COMPLETE			COMPLETE	05/09/2000	crm		465	
LEVEL IV - WET CHEMISTRY	COMPLETE			COMPLETE	05/08/2000	sld		515	

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INCORPORATED

ANALYTICAL REPORT

Mr. Roger Kottloski
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05/16/2000

Job Number: 00.02066

Client Project ID: C99134

nalyte	Result	Flag	Units	Reporting Limit	Date Analyzed	Analyst Initials	Prep Batch No.	Run Batch No.	Method Reference
SAMPLE NO. 264724	SAMPLE DESCRIPTION 9 A-H								DATE-TIME TAKEN 04/26/2000 12:45
LEVEL IV - MERCURY	Complete			Complete	05/01/2000	ldk		34	

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INCORPORATED

ANALYTICAL REPORT

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05/16/2000

Job Number: 00.02066

Client Project ID: C99134

Analyte	Result	Flag	Units	Reporting Limit	Date Analyzed	Analyst Initials	Prep Batch No.	Run Batch No.	Method Reference
SAMPLE NO. 264724	SAMPLE DESCRIPTION 9 A-H							DATE-TIME TAKEN 04/26/2000 12:45	
VOLATILES - 8260 (NONAQ)									
Acetone	<10		ug/kg	<10	04/30/2000	out		1737	SW 8260B
Acrolein	<10		ug/kg	<10	04/30/2000	out		1737	SW 8260B
Acrylonitrile	<10		ug/kg	<10	04/30/2000	out		1737	SW 8260B
Benzene	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B
Bromobenzene	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B
Bromochloromethane	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B
Bromodichloromethane	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B
Bromoform	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B
Bromomethane	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B
n-Butylbenzene	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B
sec-Butylbenzene	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B
tert-Butylbenzene	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B
Carbon disulfide	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B
Carbon tetrachloride	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B
Chlorobenzene	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B
Chlorodibromomethane	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B
Chloroethane	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B
Chloroform	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B
Chloromethane	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B
2-Chlorotoluene	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B
4-Chlorotoluene	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B
2-Chloroethyl vinyl ether	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B
1,2-Dibromo-3-chloropropane	<10.		ug/kg	<10.	04/30/2000	out		1737	SW 8260B
1,2-Dibromoethane (EDB)	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B
Dibromomethane	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B

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ANALYTICAL REPORT

Mr. Roger Kottloski
COMMONWEALTH ENGINEERS
7256 Company Drive
Indianapolis, IN 46237

05/16/2000

Job Number: 00.02066

Client Project ID: C99134

Analyte	Result	Flag	Units	Reporting Limit	Date Analyzed	Analyst Initials	Prep Batch No.	Run Batch No.	Method Reference
SAMPLE NO. 264724	SAMPLE DESCRIPTION 9 A-H							DATE-TIME TAKEN 04/26/2000 12:45	
1,2-Dichlorobenzene	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B
1,3-Dichlorobenzene	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B
1,4-Dichlorobenzene	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B
Dichlorodifluoromethane	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B
trans-1,4-Dichloro-2-butene	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B
1,1-Dichloroethane	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B
1,2-Dichloroethane	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B
1,1-Dichloroethene	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B
cis-1,2-Dichloroethene	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B
trans-1,2-Dichloroethene	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B
1,2-Dichloropropane	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B
1,3-Dichloropropane	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B
2,2-Dichloropropane	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B
1,1-Dichloropropene	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B
cis-1,3-Dichloropropene	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B
trans-1,3-Dichloropropene	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B
Ethylbenzene	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B
Ethyl methacrylate	<10.		ug/kg	<10.	04/30/2000	out		1737	SW 8260B
2-Hexanone	<10.		ug/kg	<10.	04/30/2000	out		1737	SW 8260B
Hexachlorobutadiene	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B
Iodomethane	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B
Isopropylbenzene	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B
p-Isopropyltoluene	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B
Methylene chloride	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B
Methyl Ethyl Ketone	<10.		ug/kg	<10.	04/30/2000	out		1737	SW 8260B
4-Methyl-2-pentanone (MIBK)	<10.		ug/kg	<10.	04/30/2000	out		1737	SW 8260B

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Analyte	Result	Flag	Units	Reporting Limit	Date Analyzed	Analyst Initials	Prep Batch No.	Run Batch No.	Method Reference
SAMPLE NO. 264724	SAMPLE DESCRIPTION 9 A-H							DATE-TIME TAKEN 04/26/2000 12:45	
Naphthalene	<5.0		ug/kg	<5.0	04/30/2000	out		1737	SW 8260B
1-Propylbenzene	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B
Styrene	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B
1,1,1,2-Tetrachloroethane	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B
1,1,2,2-Tetrachloroethane	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B
Tetrachloroethene	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B
Toluene	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B
1,2,3-Trichlorobenzene	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B
1,2,4-Trichlorobenzene	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B
1,1,1-Trichloroethane	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B
1,1,2-Trichloroethane	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B
Trichloroethene	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B
Trichlorofluoromethane	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B
1,2,3-Trichloropropane	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B
1,2,4-Trimethylbenzene	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B
1,3,5-Trimethylbenzene	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B
Vinyl acetate	<10.		ug/kg	<10.	04/30/2000	out		1737	SW 8260B
Vinyl chloride	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B
Xylenes, (Total)	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B
SURR: Toluene-d8	107		%		04/30/2000	out		1737	SW 8260B
SURR: Dibromofluoromethane	140		%		04/30/2000	out		1737	SW 8260B
SURR: 4-Bromofluorobenzene	81		%		04/30/2000	out		1737	SW 8260B

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INCORPORATED

ANALYTICAL REPORT

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Analyte	Result	Flag	Units	Reporting Limit	Date Analyzed	Analyst Initials	Prep Batch No.	Run Batch No.	Method Reference
SAMPLE NO. 264724	SAMPLE DESCRIPTION 9 A-H								DATE-TIME TAKEN 04/26/2000 12:45
NPD PESTICIDES-NONAQUEOUS 8141	See Attached								
HERBICIDES - NONAQUEOUS									
2,4-D	<0.17		mg/kg	<0.17	05/09/2000	out		39	SW 8150
2,4,5-TP (Silvex)	<0.017		mg/kg	<0.017	05/09/2000	out		39	SW 8150
SURR: DCAA	67		%		05/09/2000	out		39	SW 8150
PESTICIDES - NONAQUEOUS S-8080									
Aldrin	<0.0017		mg/kg	<0.0017	05/10/2000	out	496	72	SW 8080
alpha-BHC	<0.0017		mg/kg	<0.0017	05/10/2000	out	496	72	SW 8080
beta-BHC	<0.0017		mg/kg	<0.0017	05/10/2000	out	496	72	SW 8080
gamma-BHC (Lindane)	<0.0017		mg/kg	<0.0017	05/10/2000	out	496	72	SW 8080
delta-BHC	<0.0017		mg/kg	<0.0017	05/10/2000	out	496	72	SW 8080
Chlordane	<0.0017		mg/kg	<0.0017	05/10/2000	out	496	72	SW 8080
4,4'-DDD	<0.0033		mg/kg	<0.0033	05/10/2000	out	496	72	SW 8080
4,4'-DDE	<0.0033		mg/kg	<0.0033	05/10/2000	out	496	72	SW 8080
4,4'-DDT	<0.0033		mg/kg	<0.0033	05/10/2000	out	496	72	SW 8080
Dieldrin	<0.0033		mg/kg	<0.0033	05/10/2000	out	496	72	SW 8080
Endosulfan I	<0.0017		mg/kg	<0.0017	05/10/2000	out	496	72	SW 8080
Endosulfan II	<0.0033		mg/kg	<0.0033	05/10/2000	out	496	72	SW 8080
Endosulfan Sulfate	<0.0033		mg/kg	<0.0033	05/10/2000	out	496	72	SW 8080
Endrin	<0.0033		mg/kg	<0.0033	05/10/2000	out	496	72	SW 8080
Endrin Aldehyde	<0.0033		mg/kg	<0.0033	05/10/2000	out	496	72	SW 8080
Heptachlor	<0.0017		mg/kg	<0.0017	05/10/2000	out	496	72	SW 8080
Heptachlor Epoxide	<0.0017		mg/kg	<0.0017	05/10/2000	out	496	72	SW 8080
Methoxychlor	<0.017		mg/kg	<0.017	05/10/2000	out	496	72	SW 8080
Toxaphene	<0.17		mg/kg	<0.17	05/10/2000	out	496	72	SW 8080
Surrogate	70		24-154%		05/10/2000	out	496	72	

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Client Project ID: C99134

Analyte	Result	Flag	Units	Reporting Limit	Date Analyzed	Analyst Initials	Prep Batch No.	Run Batch No.	Method Reference
SAMPLE NO. 264724	SAMPLE DESCRIPTION 9 A-H						DATE-TIME TAKEN 04/26/2000 12:45		
Pesticide extraction (non-aq)	Complete			Complete	05/02/2000	out	496		SW 3540
SAMPLE NO. 264725	SAMPLE DESCRIPTION 10 A-H						DATE-TIME TAKEN 04/26/2000 10:50		
Nitrogen, Ammonia	130		mg/kg	<3.0	05/05/2000	mme	117	249	EPA 350.1
Distillation, Ammonia	Complete			Complete	05/04/2000	sld	117		
ICP METALS NONAQUEOUS	Complete			Complete	05/08/2000	crm		1625	
Arsenic, ICP	<25.		mg/kg	<25.	05/04/2000	crm	1230	1855	SW 6010
Barium, ICP	51		mg/kg	<1.0	05/04/2000	crm	1230	1880	SW 6010
Cadmium, ICP	<0.50		mg/kg	<0.50	05/08/2000	crm	1230	1885	SW 6010
Chromium, ICP	5.9		mg/kg	<0.50	05/04/2000	crm	1230	1895	SW 6010
Iron, ICP	6,700		mg/kg	<5.0	05/04/2000	crm	1230	1858	SW 6010
Lead, ICP	5.6		mg/kg	<4.0	05/04/2000	crm	1230	1907	SW 6010
Manganese, ICP	170		mg/kg	<0.5	05/04/2000	crm	1230	1861	SW 6010
Mercury, CVAA	<0.10		mg/kg	<0.10	05/01/2000	ldk	50	733	SW 7471
Nickel, ICP	6.8		mg/kg	<1.0	05/04/2000	crm	1230	1852	SW 6010
Selenium, ICP	<10.		mg/kg	<10.	05/04/2000	crm	1230	1848	SW 6010
Silver, ICP	<1.0		mg/kg	<1.0	05/04/2000	crm	1230	1869	SW 6010
ICP Metals Digestion-Solid	Complete			Complete	04/28/2000	ldk	1230		SW 3050
Mercury-Non Aqueous Digestion	Complete			Complete	04/28/2000	ldk	50		
LEVEL IV - ICP METALS	COMPLETE			COMPLETE	05/09/2000	crm		465	
LEVEL IV - WET CHEMISTRY	COMPLETE			COMPLETE	05/08/2000	sld		515	

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Analyte	Result	Flag	Units	Reporting Limit	Date Analyzed	Analyst Initials	Prep Batch No.	Run Batch No.	Method Reference
SAMPLE NO. 264725	SAMPLE DESCRIPTION 10 A-H							DATE-TIME TAKEN 04/26/2000 10:50	
LEVEL IV - MERCURY	Complete			Complete	05/01/2000	ldk		34	

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Analyte	Result	Flag	Units	Reporting Limit	Date Analyzed	Analyst Initials	Prep Batch No.	Run Batch No.	Method Reference
SAMPLE NO. 264725	SAMPLE DESCRIPTION 10 A-H							DATE-TIME TAKEN 04/26/2000 10:50	
VOLATILES - 8260 (NONAQ)									
Acetone	19		ug/kg	<10	04/30/2000	out		1737	SW 8260B
Acrolein	<10		ug/kg	<10	04/30/2000	out		1737	SW 8260B
Acrylonitrile	<10		ug/kg	<10	04/30/2000	out		1737	SW 8260B
Benzene	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B
Bromobenzene	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B
Bromochloromethane	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B
Bromodichloromethane	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B
Bromoform	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B
Bromomethane	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B
n-Butylbenzene	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B
sec-Butylbenzene	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B
tert-Butylbenzene	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B
Carbon disulfide	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B
Carbon tetrachloride	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B
Chlorobenzene	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B
Chlorodibromomethane	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B
Chloroethane	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B
Chloroform	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B
Chloromethane	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B
2-Chlorotoluene	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B
4-Chlorotoluene	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B
2-Chloroethyl vinyl ether	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B
1,2-Dibromo-3-chloropropane	<10.		ug/kg	<10.	04/30/2000	out		1737	SW 8260B
1,2-Dibromoethane (EDB)	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B
Dibromomethane	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B

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nalyte	Result	Flag	Units	Reporting Limit	Date Analyzed	Analyst Initials	Prep Batch No.	Run Batch No.	Method Reference
SAMPLE NO. 264725	SAMPLE DESCRIPTION 10 A-H							DATE-TIME TAKEN 04/26/2000 10:50	
1,2-Dichlorobenzene	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B
,3-Dichlorobenzene	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B
,4-Dichlorobenzene	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B
Dichlorodifluoromethane	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B
rans-1,4-Dichloro-2-butene	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B
,1-Dichloroethane	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B
,2-Dichloroethane	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B
1,1-Dichloroethene	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B
is-1,2-Dichloroethene	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B
rans-1,2-Dichloroethene	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B
,2-Dichloropropane	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B
1,3-Dichloropropane	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B
,2-Dichloropropane	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B
,1-Dichloropropene	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B
cis-1,3-Dichloropropene	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B
trans-1,3-Dichloropropene	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B
thylbenzene	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B
thyl methacrylate	<10.		ug/kg	<10.	04/30/2000	out		1737	SW 8260B
2-Hexanone	<10.		ug/kg	<10.	04/30/2000	out		1737	SW 8260B
exachlorobutadiene	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B
odomethane	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B
sopropylbenzene	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B
p-Isopropyltoluene	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B
ethylene chloride	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B
ethyl Ethyl Ketone	<10.		ug/kg	<10.	04/30/2000	out		1737	SW 8260B
4-Methyl-2-pentanone (MIBK)	<10.		ug/kg	<10.	04/30/2000	out		1737	SW 8260B

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nalyte	Result	Flag	Units	Reporting Limit	Date Analyzed	Analyst Initials	Prep Batch No.	Run Batch No.	Method Reference
SAMPLE NO. 264725	SAMPLE DESCRIPTION 10 A-H							DATE-TIME TAKEN 04/26/2000 10:50	
Naphthalene	<5.0		ug/kg	<5.0	04/30/2000	out		1737	SW 8260B
-Propylbenzene	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B
tyrene	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B
1,1,1,2-Tetrachloroethane	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B
,1,2,2-Tetrachloroethane	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B
etrachloroethene	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B
oluene	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B
1,2,3-Trichlorobenzene	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B
,2,4-Trichlorobenzene	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B
,1,1-Trichloroethane	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B
1,1,2-Trichloroethane	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B
Trichloroethene	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B
richlorofluoromethane	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B
,2,3-Trichloropropane	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B
1,2,4-Trimethylbenzene	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B
,3,5-Trimethylbenzene	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B
inyl acetate	<10.		ug/kg	<10.	04/30/2000	out		1737	SW 8260B
inyl chloride	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B
Xylenes, (Total)	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B
URR: Toluene-d8	104		%		04/30/2000	out		1737	SW 8260B
URR: Dibromofluoromethane	140		%		04/30/2000	out		1737	SW 8260B
SURR: 4-Bromofluorobenzene	72		%		04/30/2000	out		1737	SW 8260B

TestAmerica
INCORPORATED

ANALYTICAL REPORT

Mr. Roger Kottloski
COMMONWEALTH ENGINEERS
7256 Company Drive
Indianapolis, IN 46237

05/16/2000

Job Number: 00.02066

Client Project ID: C99134

Analyte	Result	Flag	Units	Reporting Limit	Date Analyzed	Analyst Initials	Prep Batch No.	Run Batch No.	Method Reference
SAMPLE NO. 264725	SAMPLE DESCRIPTION 10 A-H								DATE-TIME TAKEN 04/26/2000 10:50
NPD PESTICIDES-NONAQUEOUS 8141	See Attached								
HERBICIDES - NONAQUEOUS									
2,4-D	<0.17		mg/kg	<0.17	05/10/2000	out		39	SW 8150
2,4,5-TP (Silvex)	<0.017		mg/kg	<0.017	05/10/2000	out		39	SW 8150
SURR: DCAA	65		%		05/10/2000	out		39	SW 8150
PESTICIDES - NONAQUEOUS S-8080									
Aldrin	<0.0017		mg/kg	<0.0017	05/10/2000	out	496	72	SW 8080
alpha-BHC	<0.0017		mg/kg	<0.0017	05/10/2000	out	496	72	SW 8080
beta-BHC	<0.0017		mg/kg	<0.0017	05/10/2000	out	496	72	SW 8080
gamma-BHC (Lindane)	<0.0017		mg/kg	<0.0017	05/10/2000	out	496	72	SW 8080
delta-BHC	<0.0017		mg/kg	<0.0017	05/10/2000	out	496	72	SW 8080
Chlordane	<0.0017		mg/kg	<0.0017	05/10/2000	out	496	72	SW 8080
4,4'-DDD	<0.0033		mg/kg	<0.0033	05/10/2000	out	496	72	SW 8080
4,4'-DDE	<0.0033		mg/kg	<0.0033	05/10/2000	out	496	72	SW 8080
4,4'-DDT	<0.0033		mg/kg	<0.0033	05/10/2000	out	496	72	SW 8080
Dieldrin	<0.0033		mg/kg	<0.0033	05/10/2000	out	496	72	SW 8080
Endosulfan I	<0.0017		mg/kg	<0.0017	05/10/2000	out	496	72	SW 8080
Endosulfan II	<0.0033		mg/kg	<0.0033	05/10/2000	out	496	72	SW 8080
Endosulfan Sulfate	<0.0033		mg/kg	<0.0033	05/10/2000	out	496	72	SW 8080
Endrin	<0.0033		mg/kg	<0.0033	05/10/2000	out	496	72	SW 8080
Endrin Aldehyde	<0.0033		mg/kg	<0.0033	05/10/2000	out	496	72	SW 8080
Heptachlor	<0.0017		mg/kg	<0.0017	05/10/2000	out	496	72	SW 8080
Heptachlor Epoxide	<0.0017		mg/kg	<0.0017	05/10/2000	out	496	72	SW 8080
Methoxychlor	<0.017		mg/kg	<0.017	05/10/2000	out	496	72	SW 8080
Toxaphene	<0.17		mg/kg	<0.17	05/10/2000	out	496	72	SW 8080
Surrogate	81		24-154%		05/10/2000	out	496	72	

TestAmerica
INCORPORATED

ANALYTICAL REPORT

Mr. Roger Kottloski
COMMONWEALTH ENGINEERS
7256 Company Drive
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05/16/2000

Job Number: 00.02066

Client Project ID: C99134

nalyte	Result	Flag	Units	Reporting Limit	Date Analyzed	Analyst Initials	Prep Batch No.	Run Batch No.	Method Reference
SAMPLE NO. 264725	SAMPLE DESCRIPTION 10 A-H							DATE-TIME TAKEN 04/26/2000 10:50	
esticide extraction (non-aq)	Complete			Complete	05/02/2000	out	496		SW 3540
SAMPLE NO. 264726	SAMPLE DESCRIPTION 11 A-H							DATE-TIME TAKEN 04/26/2000 11:50	
Nitrogen, Ammonia	96.		mg/kg	<3.0	05/05/2000	mme	117	249	EPA 350.1
Distillation, Ammonia	Complete			Complete	05/04/2000	sld	117		
CP METALS NONAQUEOUS	Complete			Complete	05/08/2000	crm		1625	
rsenic, ICP	<25.		mg/kg	<25.	05/04/2000	crm	1230	1855	SW 6010
Barium, ICP	65.		mg/kg	<1.0	05/08/2000	crm	1230	1883	SW 6010
Cadmium, ICP	<0.50		mg/kg	<0.50	05/04/2000	crm	1230	1882	SW 6010
hromium, ICP	5.5		mg/kg	<0.50	05/04/2000	crm	1230	1895	SW 6010
ron, ICP	9,300		mg/kg	<5.0	05/04/2000	crm	1230	1858	SW 6010
Lead, ICP	<4.0		mg/kg	<4.0	05/04/2000	crm	1230	1907	SW 6010
anganese, ICP	1,000		mg/kg	<0.5	05/04/2000	crm	1230	1861	SW 6010
ercury, CVAA	<0.10		mg/kg	<0.10	05/01/2000	ldk	50	733	SW 7471
Nickel, ICP	5.7		mg/kg	<1.0	05/04/2000	crm	1230	1852	SW 6010
Selenium, ICP	<10.		mg/kg	<10.	05/04/2000	crm	1230	1848	SW 6010
ilver, ICP	<1.0		mg/kg	<1.0	05/04/2000	crm	1230	1869	SW 6010
CP Metals Digestion-Solid	Complete			Complete	04/28/2000	ldk	1230		SW 3050
Mercury-Non Aqueous Digestion	Complete			Complete	04/28/2000	ldk	50		
LEVEL IV - ICP METALS	COMPLETE			COMPLETE	05/09/2000	crm		465	
EVEL IV - WET CHEMISTRY	COMPLETE			COMPLETE	05/08/2000	sld		515	

TestAmerica
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ANALYTICAL REPORT

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7256 Company Drive
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05/16/2000

Job Number: 00.02066

Client Project ID: C99134

nalyte	Result	Flag	Units	Reporting Limit	Date Analyzed	Analyst Initials	Prep Batch No.	Run Batch No.	Method Reference
SAMPLE NO. 264726	SAMPLE DESCRIPTION 11 A-H							DATE-TIME TAKEN 04/26/2000 11:50	
LEVEL IV - MERCURY	Complete			Complete	05/01/2000	ldk		34	

TestAmerica
INCORPORATED

ANALYTICAL REPORT

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05/16/2000

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Client Project ID: C99134

Analyte	Result	Flag	Units	Reporting Limit	Date Analyzed	Analyst Initials	Prep Batch No.	Run Batch No.	Method Reference
SAMPLE NO. 264726	SAMPLE DESCRIPTION 11 A-H							DATE-TIME TAKEN 04/26/2000 11:50	
VOLATILES - 8260 (NONAQ)									
cetone	<10		ug/kg	<10	04/30/2000	out		1737	SW 8260B
crolein	<10		ug/kg	<10	04/30/2000	out		1737	SW 8260B
Acrylonitrile	<10		ug/kg	<10	04/30/2000	out		1737	SW 8260B
enzene	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B
romobenzene	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B
Bromochloromethane	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B
Bromodichloromethane	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B
romoform	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B
romomethane	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B
n-Butylbenzene	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B
sec-Butylbenzene	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B
ert-Butylbenzene	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B
arbon disulfide	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B
Carbon tetrachloride	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B
Chlorobenzene	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B
hlorodibromomethane	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B
hloroethane	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B
Chloroform	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B
hloromethane	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B
-Chlorotoluene	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B
4-Chlorotoluene	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B
2-Chloroethyl vinyl ether	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B
,2-Dibromo-3-chloropropane	<10.		ug/kg	<10.	04/30/2000	out		1737	SW 8260B
,2-Dibromoethane (EDB)	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B
Dibromomethane	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B

TestAmerica
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ANALYTICAL REPORT

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7256 Company Drive
Indianapolis, IN 46237

05/16/2000

Job Number: 00.02066

Client Project ID: C99134

Analyte	Result	Flag	Units	Reporting Limit	Date Analyzed	Analyst Initials	Prep Batch No.	Run Batch No.	Method Reference
SAMPLE NO. 264726	SAMPLE DESCRIPTION 11 A-H							DATE-TIME TAKEN 04/26/2000 11:50	
1,2-Dichlorobenzene	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B
,3-Dichlorobenzene	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B
,4-Dichlorobenzene	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B
Dichlorodifluoromethane	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B
rans-1,4-Dichloro-2-butene	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B
,1-Dichloroethane	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B
,2-Dichloroethane	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B
1,1-Dichloroethene	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B
is-1,2-Dichloroethene	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B
rans-1,2-Dichloroethene	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B
1,2-Dichloropropane	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B
1,3-Dichloropropane	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B
,2-Dichloropropane	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B
,1-Dichloropropene	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B
cis-1,3-Dichloropropene	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B
rans-1,3-Dichloropropene	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B
thylbenzene	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B
thyl methacrylate	<10.		ug/kg	<10.	04/30/2000	out		1737	SW 8260B
2-Hexanone	<10.		ug/kg	<10.	04/30/2000	out		1737	SW 8260B
exachlorobutadiene	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B
odomethane	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B
Isopropylbenzene	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B
p-Isopropyltoluene	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B
ethylene chloride	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B
ethyl Ethyl Ketone	<10.		ug/kg	<10.	04/30/2000	out		1737	SW 8260B
4-Methyl-2-pentanone (MIBK)	<10.		ug/kg	<10.	04/30/2000	out		1737	SW 8260B

TestAmerica
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ANALYTICAL REPORT

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7256 Company Drive
Indianapolis, IN 46237

05/16/2000

Job Number: 00.02066

Client Project ID: C99134

Analyte	Result	Flag	Units	Reporting Limit	Date Analyzed	Analyst Initials	Prep Batch No.	Run Batch No.	Method Reference
SAMPLE NO. 264726	SAMPLE DESCRIPTION 11 A-H							DATE-TIME TAKEN 04/26/2000 11:50	
Naphthalene	<5.0		ug/kg	<5.0	04/30/2000	out		1737	SW 8260B
n-Propylbenzene	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B
Styrene	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B
1,1,1,2-Tetrachloroethane	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B
1,1,2,2-Tetrachloroethane	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B
Tetrachloroethene	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B
Toluene	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B
1,2,3-Trichlorobenzene	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B
1,2,4-Trichlorobenzene	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B
1,1,1-Trichloroethane	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B
1,1,2-Trichloroethane	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B
Trichloroethene	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B
Trichlorofluoromethane	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B
1,2,3-Trichloropropane	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B
1,2,4-Trimethylbenzene	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B
1,3,5-Trimethylbenzene	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B
Vinyl acetate	<10.		ug/kg	<10.	04/30/2000	out		1737	SW 8260B
Vinyl chloride	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B
Xylenes, (Total)	<2.0		ug/kg	<2.0	04/30/2000	out		1737	SW 8260B
SURR: Toluene-d8	103		%		04/30/2000	out		1737	SW 8260B
SURR: Dibromofluoromethane	140		%		04/30/2000	out		1737	SW 8260B
SURR: 4-Bromofluorobenzene	72		%		04/30/2000	out		1737	SW 8260B

TestAmerica
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ANALYTICAL REPORT

Mr. Roger Kottloski
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7256 Company Drive
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05/16/2000

Job Number: 00.02066

Client Project ID: C99134

nalyte	Result	Flag	Units	Reporting Limit	Date Analyzed	Analyst Initials	Prep Batch No.	Run Batch No.	Method Reference
SAMPLE NO. 264726	SAMPLE DESCRIPTION 11 A-H								DATE-TIME TAKEN 04/26/2000 11:50
NPD PESTICIDES-NONAQUEOUS 8141	See Attached								
ERBICIDES - NONAQUEOUS									
,4-D	<0.17		mg/kg	<0.17	05/10/2000	out		39	SW 8150
2,4,5-TP (Silvex)	<0.017		mg/kg	<0.017	05/10/2000	out		39	SW 8150
URR: DCAA	58		%		05/10/2000	out		39	SW 8150
ESTICIDES - NONAQUEOUS S-8080									
Aldrin	<0.0017		mg/kg	<0.0017	05/10/2000	out	496	72	SW 8080
alpha-BHC	<0.0017		mg/kg	<0.0017	05/10/2000	out	496	72	SW 8080
eta-BHC	<0.0017		mg/kg	<0.0017	05/10/2000	out	496	72	SW 8080
amma-BHC (Lindane)	<0.0017		mg/kg	<0.0017	05/10/2000	out	496	72	SW 8080
delta-BHC	<0.0017		mg/kg	<0.0017	05/10/2000	out	496	72	SW 8080
Chlordane	<0.0017		mg/kg	<0.0017	05/10/2000	out	496	72	SW 8080
,4'-DDD	<0.0033		mg/kg	<0.0033	05/10/2000	out	496	72	SW 8080
,4'-DDE	<0.0033		mg/kg	<0.0033	05/10/2000	out	496	72	SW 8080
4,4'-DDT	<0.0033		mg/kg	<0.0033	05/10/2000	out	496	72	SW 8080
ieldrin	<0.0033		mg/kg	<0.0033	05/10/2000	out	496	72	SW 8080
ndosulfan I	<0.0017		mg/kg	<0.0017	05/10/2000	out	496	72	SW 8080
Endosulfan II	<0.0033		mg/kg	<0.0033	05/10/2000	out	496	72	SW 8080
Endosulfan Sulfate	<0.0033		mg/kg	<0.0033	05/10/2000	out	496	72	SW 8080
ndrin	<0.0033		mg/kg	<0.0033	05/10/2000	out	496	72	SW 8080
ndrin Aldehyde	<0.0033		mg/kg	<0.0033	05/10/2000	out	496	72	SW 8080
Heptachlor	<0.0017		mg/kg	<0.0017	05/10/2000	out	496	72	SW 8080
Heptachlor Epoxide	<0.0017		mg/kg	<0.0017	05/10/2000	out	496	72	SW 8080
ethoxychlor	<0.017		mg/kg	<0.017	05/10/2000	out	496	72	SW 8080
oxaphene	<0.17		mg/kg	<0.17	05/10/2000	out	496	72	SW 8080
Surrogate	81		24-154%		05/10/2000	out	496	72	

TestAmerica
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ANALYTICAL REPORT

Mr. Roger Kottloski
COMMONWEALTH ENGINEERS
7256 Company Drive
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05/16/2000

Job Number: 00.02066

Client Project ID: C99134

nalyte	Result	Flag	Units	Reporting Limit	Date Analyzed	Analyst Initials	Prep Batch No.	Run Batch No.	Method Reference
SAMPLE NO. 264726	SAMPLE DESCRIPTION 11 A-H								DATE-TIME TAKEN 04/26/2000 11:50
Pesticide extraction (non-aq)	Complete			Complete	05/02/2000	out	496		SW 3540

TestAmerica
INCORPORATED

QUALITY CONTROL REPORT

Mr. Roger Kottloski
COMMONWEALTH ENGINEERS
7256 Company Drive
Indianapolis, IN 46237

05/16/2000

Job Number: 00.02066

The following samples were submitted to TestAmerica, Inc. Indianapolis Division for analysis:

Project Description: C99134

Sample Number	Sample Description	Date Taken	Date Received
264716	1 A-H	04/25/2000	04/27/2000
264717	2 A-H	04/25/2000	04/27/2000
264718	3 A-H	04/25/2000	04/27/2000
264719	4 A-H	04/25/2000	04/27/2000
264720	5 A-H	04/25/2000	04/27/2000
264721	6 A-H	04/25/2000	04/27/2000
264722	7 A-H	04/25/2000	04/27/2000
264723	8 A-H	04/26/2000	04/27/2000
264724	9 A-H	04/26/2000	04/27/2000
264725	10 A-H	04/26/2000	04/27/2000
264726	11 A-H	04/26/2000	04/27/2000

Approved by: Lorraine A. Dwyer

6964 HILLSDALE CT. / INDIANAPOLIS, IN 46250 / 317-842-4261 / FAX: 317-842-4286

TestAmerica
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QUALITY CONTROL REPORT
CONTINUING CALIBRATION VERIFICATION

Mr. Roger Kottloski
COMMONWEALTH ENGINEERS
7256 Company Drive
Indianapolis, IN 46237

05/16/2000

Job Number: 00.02066

Analyte	Prep Batch No.	Run Batch No.	CCV True Value	CCV Conc Found	CCV % Rec	Flag	Date Analyzed
Nitrogen, Ammonia		249	5.0	4.6	92		05/05/2000
Nitrogen, Ammonia		249	5.0	4.7	94		05/05/2000
Nitrogen, Ammonia		249	5.0	4.8	96		05/05/2000
Arsenic, ICP		1852	5.00	5.40	108		05/01/2000
Arsenic, ICP		1855	5.00	5.00	100		05/04/2000
Barium, ICP		1877	5.00	5.27	105		05/01/2000
Barium, ICP		1880	5.00	5.35	107		05/04/2000
Barium, ICP		1883	5.00	5.29	106		05/08/2000
Barium, ICP		1883	5.00	5.24	105		05/08/2000
Barium, ICP		1883	5.00	4.98	100		05/08/2000
Barium, ICP		1883	5.00	5.00	100		05/08/2000
Barium, ICP		1883	5.00	4.90	98		05/08/2000
Barium, ICP		1883	5.00	4.92	98		05/08/2000
Barium, ICP		1883	5.00	4.91	98		05/08/2000
Barium, ICP		1883	5.00	4.98	100		05/08/2000
Barium, ICP		1883	5.00	4.93	99		05/08/2000
Barium, ICP		1883	5.00	4.61	92		05/08/2000
Barium, ICP		1883	5.00	4.81	96		05/08/2000
Barium, ICP		1883	5.00	4.83	97		05/08/2000
Barium, ICP		1883	5.00	5.09	102		05/08/2000
Barium, ICP		1883	5.00	5.20	104		05/08/2000
Barium, ICP		1883	5.00	5.23	105		05/08/2000
Barium, ICP		1883	5.00	5.25	105		05/08/2000
Barium, ICP		1883	5.00	4.99	100		05/08/2000
Barium, ICP		1883	5.00	4.99	100		05/08/2000
Barium, ICP		1883	5.00	5.29	106		05/08/2000
Barium, ICP		1883	5.00	5.30	106		05/08/2000
Cadmium, ICP		1879	5.00	5.09	102		05/01/2000
Cadmium, ICP		1882	5.00	5.07	101		05/04/2000
Cadmium, ICP		1885	5.00	4.82	96		05/08/2000
Cadmium, ICP		1885	5.00	4.78	96		05/08/2000
Cadmium, ICP		1885	5.00	5.05	101		05/08/2000

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QUALITY CONTROL REPORT
CONTINUING CALIBRATION VERIFICATION

Mr. Roger Kottloski
COMMONWEALTH ENGINEERS
7256 Company Drive
Indianapolis, IN 46237

05/16/2000

Job Number: 00.02066

Analyte	Prep Batch No.	Run Batch No.	CCV True Value	CCV Conc Found	CCV % Rec	Flag	Date Analyzed
Cadmium, ICP		1885	5.00	5.08	102		05/08/2000
Cadmium, ICP		1885	5.00	4.97	99		05/08/2000
Cadmium, ICP		1885	5.00	4.97	99		05/08/2000
Cadmium, ICP		1885	5.00	4.98	100		05/08/2000
Cadmium, ICP		1885	5.00	5.00	100		05/08/2000
Cadmium, ICP		1885	5.00	4.96	99		05/08/2000
Cadmium, ICP		1885	5.00	4.96	99		05/08/2000
Cadmium, ICP		1885	5.00	4.99	100		05/08/2000
Cadmium, ICP		1885	5.00	4.99	100		05/08/2000
Cadmium, ICP		1885	5.00	4.70	94		05/08/2000
Cadmium, ICP		1885	5.00	4.76	95		05/08/2000
Cadmium, ICP		1885	5.00	4.72	94		05/08/2000
Cadmium, ICP		1885	5.00	4.72	94		05/08/2000
Cadmium, ICP		1885	5.00	4.92	98		05/08/2000
Cadmium, ICP		1885	5.00	4.96	99		05/08/2000
Cadmium, ICP		1885	5.00	4.72	94		05/08/2000
Cadmium, ICP		1885	5.00	4.71	94		05/08/2000
Chromium, ICP		1892	5.00	5.02	100		05/01/2000
Chromium, ICP		1895	5.00	4.92	98		05/04/2000
Iron, ICP		1855	5.00	5.32	106		05/01/2000
Iron, ICP		1858	5.00	5.05	101		05/04/2000
Lead, ICP		1904	5.00	4.86	97		05/01/2000
Lead, ICP		1904	5.00	4.86	97		05/01/2000
Lead, ICP		1907	5.00	4.79	96		05/04/2000
Manganese, ICP		1858	5.00	4.81	96		05/01/2000
Manganese, ICP		1861	5.00	4.88	98		05/04/2000
Mercury, CVAA		733	0.005	0.00502	100		05/01/2000
Mercury, CVAA		733	0.005	0.00508	102		05/01/2000
Mercury, CVAA		733	0.005	0.00509	102		05/01/2000
Nickel, ICP		1849	5.00	4.98	100		05/01/2000
Nickel, ICP		1852	5.00	4.92	98		05/04/2000
Selenium, ICP		1845	5.00	5.45	109		05/01/2000

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QUALITY CONTROL REPORT
CONTINUING CALIBRATION VERIFICATION

Mr. Roger Kottloski
COMMONWEALTH ENGINEERS
7256 Company Drive
Indianapolis, IN 46237

05/16/2000

Job Number: 00.02066

Analyte	Prep Batch No.	Run Batch No.	CCV True Value	CCV Conc Found	CCV % Rec	Flag	Date Analyzed
Selenium, ICP		1848	5.00	4.89	98		05/04/2000
Silver, ICP		1866	0.500	0.534	107		05/01/2000
Silver, ICP		1869	0.500	0.485	97		05/04/2000

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QUALITY CONTROL REPORT
BLANKS

Mr. Roger Kottloski
COMMONWEALTH ENGINEERS
7256 Company Drive
Indianapolis, IN 46237

05/16/2000

Job Number: 00.02066

Analyte	Prep Batch No.	Run Batch No.	Blank Value	Flag	Units	Reporting Limit	Date Analyzed
Nitrogen, Ammonia	117	249	<3.0		mg/kg	<3.0	05/05/2000
Arsenic, ICP	1229	1852	<25.		mg/kg	<25.	05/01/2000
Arsenic, ICP	1230	1855	<25.		mg/kg	<25.	05/04/2000
Barium, ICP	1229	1877	<1.0		mg/kg	<1.0	05/01/2000
Barium, ICP	1230	1880	<1.0		mg/kg	<1.0	05/04/2000
Cadmium, ICP	1229	1879	<0.50		mg/kg	<0.50	05/01/2000
Cadmium, ICP	1230	1882	<0.50		mg/kg	<0.50	05/04/2000
Chromium, ICP	1229	1892	<0.50		mg/kg	<0.50	05/01/2000
Chromium, ICP	1230	1895	<0.50		mg/kg	<0.50	05/04/2000
Iron, ICP	1229	1855	<5.0		mg/kg	<5.0	05/01/2000
Iron, ICP	1230	1858	<5.0		mg/kg	<5.0	05/04/2000
Lead, ICP	1229	1904	<4.0		mg/kg	<4.0	05/01/2000
Lead, ICP	1230	1907	<4.0		mg/kg	<4.0	05/04/2000
Manganese, ICP	1229	1858	<0.5		mg/kg	<0.5	05/01/2000
Manganese, ICP	1230	1861	<0.5		mg/kg	<0.5	05/04/2000
Mercury, CVAA	50	733	<0.10		mg/kg	<0.10	05/01/2000
Mercury, CVAA		733	<0.10		mg/kg	<0.10	05/01/2000
Nickel, ICP	1229	1849	<1.0		mg/kg	<1.0	05/01/2000
Nickel, ICP	1230	1852	<1.0		mg/kg	<1.0	05/04/2000
Selenium, ICP	1229	1845	<10.		mg/kg	<10.	05/01/2000
Selenium, ICP	1230	1848	<10.		mg/kg	<10.	05/04/2000
Silver, ICP	1229	1866	<1.0		mg/kg	<1.0	05/01/2000
Silver, ICP	1230	1869	<1.0		mg/kg	<1.0	05/04/2000
VOLATILES - 8260 (NONAQ)							
Acetone		1737	<10		ug/kg	<10	04/30/2000
Acrolein		1737	<10		ug/kg	<10	04/30/2000
Acrylonitrile		1737	<10		ug/kg	<10	04/30/2000
Benzene		1737	<2.0		ug/kg	<2.0	04/30/2000
Bromobenzene		1737	<2.0		ug/kg	<2.0	04/30/2000
Bromochloromethane		1737	<2.0		ug/kg	<2.0	04/30/2000
Bromodichloromethane		1737	<2.0		ug/kg	<2.0	04/30/2000
Bromoform		1737	<2.0		ug/kg	<2.0	04/30/2000
Bromomethane		1737	<2.0		ug/kg	<2.0	04/30/2000
n-Butylbenzene		1737	<2.0		ug/kg	<2.0	04/30/2000

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QUALITY CONTROL REPORT
BLANKS

Mr. Roger Kottloski
COMMONWEALTH ENGINEERS
7256 Company Drive
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05/16/2000

Job Number: 00.02066

Analyte	Prep Batch No.	Run Batch No.	Blank Value	Flag	Units	Reporting Limit	Date Analyzed
sec-Butylbenzene		1737	<2.0		ug/kg	<2.0	04/30/2000
tert-Butylbenzene		1737	<2.0		ug/kg	<2.0	04/30/2000
Carbon disulfide		1737	<2.0		ug/kg	<2.0	04/30/2000
Carbon tetrachloride		1737	<2.0		ug/kg	<2.0	04/30/2000
Chlorobenzene		1737	<2.0		ug/kg	<2.0	04/30/2000
Chlorodibromomethane		1737	<2.0		ug/kg	<2.0	04/30/2000
Chloroethane		1737	<2.0		ug/kg	<2.0	04/30/2000
Chloroform		1737	<2.0		ug/kg	<2.0	04/30/2000
Chloromethane		1737	<2.0		ug/kg	<2.0	04/30/2000
2-Chlorotoluene		1737	<2.0		ug/kg	<2.0	04/30/2000
4-Chlorotoluene		1737	<2.0		ug/kg	<2.0	04/30/2000
2-Chloroethyl vinyl ether		1737	<2.0		ug/kg	<2.0	04/30/2000
1,2-Dibromo-3-chloropropane		1737	<10.		ug/kg	<10.	04/30/2000
1,2-Dibromoethane (EDB)		1737	<2.0		ug/kg	<2.0	04/30/2000
Dibromomethane		1737	<2.0		ug/kg	<2.0	04/30/2000
1,2-Dichlorobenzene		1737	<2.0		ug/kg	<2.0	04/30/2000
1,3-Dichlorobenzene		1737	<2.0		ug/kg	<2.0	04/30/2000
1,4-Dichlorobenzene		1737	<2.0		ug/kg	<2.0	04/30/2000
Dichlorodifluoromethane		1737	<2.0		ug/kg	<2.0	04/30/2000
trans-1,4-Dichloro-2-butene		1737	<2.0		ug/kg	<2.0	04/30/2000
1,1-Dichloroethane		1737	<2.0		ug/kg	<2.0	04/30/2000
1,2-Dichloroethane		1737	<2.0		ug/kg	<2.0	04/30/2000
1,1-Dichloroethene		1737	<2.0		ug/kg	<2.0	04/30/2000
cis-1,2-Dichloroethene		1737	<2.0		ug/kg	<2.0	04/30/2000
trans-1,2-Dichloroethene		1737	<2.0		ug/kg	<2.0	04/30/2000
1,2-Dichloropropane		1737	<2.0		ug/kg	<2.0	04/30/2000
1,3-Dichloropropane		1737	<2.0		ug/kg	<2.0	04/30/2000
2,2-Dichloropropane		1737	<2.0		ug/kg	<2.0	04/30/2000
1,1-Dichloropropene		1737	<2.0		ug/kg	<2.0	04/30/2000
cis-1,3-Dichloropropene		1737	<2.0		ug/kg	<2.0	04/30/2000
trans-1,3-Dichloropropene		1737	<2.0		ug/kg	<2.0	04/30/2000
Ethylbenzene		1737	<2.0		ug/kg	<2.0	04/30/2000
Ethyl methacrylate		1737	<10.		ug/kg	<10.	04/30/2000
2-Hexanone		1737	<10.		ug/kg	<10.	04/30/2000

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QUALITY CONTROL REPORT
BLANKS

Mr. Roger Kottloski
COMMONWEALTH ENGINEERS
7256 Company Drive
Indianapolis, IN 46237

05/16/2000

Job Number: 00.02066

Analyte	Prep Batch No.	Run Batch No.	Blank Value	Flag	Units	Reporting Limit	Date Analyzed
Hexachlorobutadiene		1737	<2.0		ug/kg	<2.0	04/30/2000
Iodomethane		1737	<2.0		ug/kg	<2.0	04/30/2000
Isopropylbenzene		1737	<2.0		ug/kg	<2.0	04/30/2000
p-Isopropyltoluene		1737	<2.0		ug/kg	<2.0	04/30/2000
Methylene chloride		1737	<2.0		ug/kg	<2.0	04/30/2000
Methyl Ethyl Ketone		1737	<10.		ug/kg	<10.	04/30/2000
4-Methyl-2-pentanone (MIBK)		1737	<10.		ug/kg	<10.	04/30/2000
Naphthalene		1737	<5.0		ug/kg	<5.0	04/30/2000
n-Propylbenzene		1737	<2.0		ug/kg	<2.0	04/30/2000
Styrene		1737	<2.0		ug/kg	<2.0	04/30/2000
1,1,1,2-Tetrachloroethane		1737	<2.0		ug/kg	<2.0	04/30/2000
1,1,2,2-Tetrachloroethane		1737	<2.0		ug/kg	<2.0	04/30/2000
Tetrachloroethene		1737	<2.0		ug/kg	<2.0	04/30/2000
Toluene		1737	<2.0		ug/kg	<2.0	04/30/2000
1,2,3-Trichlorobenzene		1737	<2.0		ug/kg	<2.0	04/30/2000
1,2,4-Trichlorobenzene		1737	<2.0		ug/kg	<2.0	04/30/2000
1,1,1-Trichloroethane		1737	<2.0		ug/kg	<2.0	04/30/2000
1,1,2-Trichloroethane		1737	<2.0		ug/kg	<2.0	04/30/2000
Trichloroethene		1737	<2.0		ug/kg	<2.0	04/30/2000
Trichlorofluoromethane		1737	<2.0		ug/kg	<2.0	04/30/2000
1,2,3-Trichloropropane		1737	<2.0		ug/kg	<2.0	04/30/2000
1,2,4-Trimethylbenzene		1737	<2.0		ug/kg	<2.0	04/30/2000
1,3,5-Trimethylbenzene		1737	<2.0		ug/kg	<2.0	04/30/2000
Vinyl acetate		1737	<10.		ug/kg	<10.	04/30/2000
Vinyl chloride		1737	<2.0		ug/kg	<2.0	04/30/2000
Xylenes, (Total)		1737	<2.0		ug/kg	<2.0	04/30/2000
SURR: Toluene-d8		1737	NR		%		04/30/2000
SURR: Dibromofluoromethane		1737	NR		%		04/30/2000
SURR: 4-Bromofluorobenzene		1737	NR		%		04/30/2000
HERBICIDES - NONAQUEOUS							
2,4-D		39	<0.17		mg/kg	<0.17	05/09/2000
2,4,5-TP (Silvex)		39	<0.017		mg/kg	<0.017	05/09/2000
SURR: DCAA		39	NR		%		05/09/2000
PESTICIDES - NONAQUEOUS S-8080							

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QUALITY CONTROL REPORT
BLANKS

Mr. Roger Kottloski
COMMONWEALTH ENGINEERS
7256 Company Drive
Indianapolis, IN 46237

05/16/2000

Job Number: 00.02066

Analyte	Prep Batch No.	Run Batch No.	Blank Value	Flag	Units	Reporting Limit	Date Analyzed
Aldrin	496	72	<0.0017		mg/kg	<0.0017	05/10/2000
alpha-BHC	496	72	<0.0017		mg/kg	<0.0017	05/10/2000
beta-BHC	496	72	<0.0017		mg/kg	<0.0017	05/10/2000
gamma-BHC (Lindane)	496	72	<0.0017		mg/kg	<0.0017	05/10/2000
delta-BHC	496	72	<0.0017		mg/kg	<0.0017	05/10/2000
Chlordane	496	72	<0.0017		mg/kg	<0.0017	05/10/2000
4,4'-DDD	496	72	<0.0033		mg/kg	<0.0033	05/10/2000
4,4'-DDE	496	72	<0.0033		mg/kg	<0.0033	05/10/2000
4,4'-DDT	496	72	<0.0033		mg/kg	<0.0033	05/10/2000
Dieldrin	496	72	<0.0033		mg/kg	<0.0033	05/10/2000
Endosulfan I	496	72	<0.0017		mg/kg	<0.0017	05/10/2000
Endosulfan II	496	72	<0.0033		mg/kg	<0.0033	05/10/2000
Endosulfan Sulfate	496	72	<0.0033		mg/kg	<0.0033	05/10/2000
Endrin	496	72	<0.0033		mg/kg	<0.0033	05/10/2000
Endrin Aldehyde	496	72	<0.0033		mg/kg	<0.0033	05/10/2000
Heptachlor	496	72	<0.0017		mg/kg	<0.0017	05/10/2000
Heptachlor Epoxide	496	72	<0.0017		mg/kg	<0.0017	05/10/2000
Methoxychlor	496	72	<0.017		mg/kg	<0.017	05/10/2000
Toxaphene	496	72	<0.17		mg/kg	<0.17	05/10/2000
Surrogate	496	72	NR		24-154%		05/10/2000

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QUALITY CONTROL REPORT
LABORATORY CONTROL STANDARD

Mr. Roger Kottloski
COMMONWEALTH ENGINEERS
7256 Company Drive
Indianapolis, IN 46237

05/16/2000

Job Number: 00.02066

Analyte	Prep Batch No.	Run Batch No.	LCS True Conc	LCS Conc Found	LCS % Rec.	LCS Dup. Conc Found	LCS Dup. % Rec.	RPD	Flag	Date Analyzed
Nitrogen, Ammonia	117	249	245.0	200.	82					05/05/2000
Arsenic, ICP	1229	1852	50.0	43.6	87					05/01/2000
Arsenic, ICP	1230	1855	50.0	44.8	90					05/04/2000
Barium, ICP	1229	1877	50.0	47.9	96					05/01/2000
Barium, ICP	1230	1880	50.0	52.6	105					05/04/2000
Cadmium, ICP	1229	1879	50.0	44.1	88					05/01/2000
Cadmium, ICP	1230	1882	50.0	48.7	97					05/04/2000
Chromium, ICP	1229	1892	50.0	45.4	91					05/01/2000
Chromium, ICP	1230	1895	50.0	49.1	98					05/04/2000
Iron, ICP	1229	1855	50.0	49.2	98					05/01/2000
Iron, ICP	1230	1858	50.0	53.8	108					05/04/2000
Lead, ICP	1229	1904	50.0	41.2	82					05/01/2000
Lead, ICP	1230	1907	50.0	47.4	95					05/04/2000
Manganese, ICP	1229	1858	50.0	44.0	88					05/01/2000
Manganese, ICP	1230	1861	50.0	49.1	98					05/04/2000
Mercury, CVAA	50	733	0.005	0.00442	88					05/01/2000
Mercury, CVAA		733	0.458	0.412	90					05/01/2000
Nickel, ICP	1229	1849	50.0	43.6	87					05/01/2000
Nickel, ICP	1230	1852	50.0	49.4	99					05/04/2000
Selenium, ICP	1229	1845	50.0	56.0	112					05/01/2000
Selenium, ICP	1230	1848	50.0	45.1	90					05/04/2000
Silver, ICP	1229	1866	50.0	47.9	96					05/01/2000
Silver, ICP	1230	1869	50.0	50.0	100					05/04/2000
VOLATILES - 8260 (NONAQ)										
Benzene		1737	50.0	53.2	106					04/30/2000
Chlorobenzene		1737	50.0	55.1	110					04/30/2000
1,1-Dichloroethene		1737	50.0	55.0	110					04/30/2000
Toluene		1737	50.0	51.7	103					04/30/2000
Trichloroethene		1737	50.0	53.2	106					04/30/2000
HERBICIDES - NONAQUEOUS										
2,4-D		39	0.167	0.160	96					05/09/2000
2,4,5-TP (Silvex)		39	0.167	0.150	90					05/09/2000
SURR: DCAA		39	100	NR						05/09/2000

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QUALITY CONTROL REPORT
LABORATORY CONTROL STANDARD

Mr. Roger Kottloski
COMMONWEALTH ENGINEERS
7256 Company Drive
Indianapolis, IN 46237

05/16/2000

Job Number: 00.02066

Analyte	Prep Batch No.	Run Batch No.	LCS True Conc	LCS Conc Found	LCS % Rec.	LCS Dup. Conc Found	LCS Dup. % Rec.	RPD	Flag	Date Analyzed
PESTICIDES - NONAQUEOUS S-										
Aldrin	496	72	0.0167	0.0143	86					05/10/2000
alpha-BHC	496	72	0.0167	0.0143	86					05/10/2000
beta-BHC	496	72	0.0167	0.0153	92					05/10/2000
gamma-BHC (Lindane)	496	72	0.0167	0.0143	86					05/10/2000
delta-BHC	496	72	0.0167	0.0150	90					05/10/2000
4,4'-DDD	496	72	0.0167	0.0163	98					05/10/2000
4,4'-DDE	496	72	0.0167	0.0150	90					05/10/2000
4,4'-DDT	496	72	0.0167	0.0160	96					05/10/2000
Dieldrin	496	72	0.0167	0.0143	86					05/10/2000
Endosulfan I	496	72	0.0167	0.0150	90					05/10/2000
Endosulfan II	496	72	0.0167	0.0166	99					05/10/2000
Endosulfan Sulfate	496	72	0.0167	0.0163	98					05/10/2000
Endrin	496	72	0.0167	0.0153	92					05/10/2000
Endrin Aldehyde	496	72	0.0167	0.0163	98					05/10/2000
Heptachlor	496	72	0.0167	0.0143	86					05/10/2000
Heptachlor Epoxide	496	72	0.0167	0.0150	90					05/10/2000
Methoxychlor	496	72	0.0167	0.0190	114					05/10/2000
Surrogate	496	72	100	NR						05/10/2000

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QUALITY CONTROL REPORT
MATRIX SPIKE/MATRIX SPIKE DUPLICATE

Mr. Roger Kottloski
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7256 Company Drive
Indianapolis, IN 46237

05/16/2000

Job Number: 00.02066

Analyte	Prep Batch No.	Run Batch No.	Conc. Spike Added	Sample Result	Conc. MS Result	MS % Rec.	Conc. MSD Result	MSD % Rec.	RPD	Flag	Date Analyzed	Sample Spiked
Nitrogen, Ammonia	117	249	150	96.	299.	135	291.	130	2.7		05/05/2000	264726
Arsenic, ICP	1229	1852	50.0	<25.	53.0	106	60.6	121	13		05/01/2000	264719
Arsenic, ICP	1230	1855	50.0	<25.	37.9	76	46.4	93	20		05/04/2000	264756
Barium, ICP	1229	1877	50.0	32	82.1	100	78.3	93	4.7		05/01/2000	264719
Barium, ICP	1230	1883	50.0	53.	115	124	114	122	0.9	q	05/08/2000	264756
Cadmium, ICP	1229	1879	50.0	<0.50	42.3	85	43.7	87	3.3		05/01/2000	264719
Cadmium, ICP	1230	1882	50.0	<0.50	47.3	95	49.6	99	4.7		05/04/2000	264756
Chromium, ICP	1229	1892	50.0	6.4	50.4	88	53.7	95	6.3		05/01/2000	264719
Chromium, ICP	1230	1895	50.0	11	60.8	100	65.8	110	7.9		05/04/2000	264756
Iron, ICP	1229	1855	50.0	8,000	9,400	2,800	9,900	3,800	5.2	i	05/01/2000	264719
Iron, ICP	1230	1858	50.0	10,000	13,000	6,000	14,000	8,000	7.4	i	05/04/2000	264756
Lead, ICP	1229	1904	50.0	5.5	41.4	72	49.2	87	17		05/01/2000	264719
Lead, ICP	1230	1907	50.0	4.3	54.6	101	52.0	95	4.9		05/04/2000	264756
Manganese, ICP	1229	1858	50.0	250	305	110	320	140	4.8		05/01/2000	264719
Manganese, ICP	1230	1861	50.0	84	280	392	300	432	6.9	q	05/04/2000	264756
Mercury, CVAA	50	733	0.458	<0.10	0.439	96	0.457	100	4		05/01/2000	264756
Mercury, CVAA	50	733	0.451	<0.10	0.448	99	0.442	100	1.3		05/01/2000	264776
Nickel, ICP	1229	1849	50.0	5.8	46.7	82	52.6	94	12		05/01/2000	264719
Selenium, ICP	1229	1845	50.0	<10.	30.7	61	43.2	86	34		05/01/2000	264719
Selenium, ICP	1230	1848	50.0	<10.	46.1	92	48.7	97	5.5		05/04/2000	264756
Silver, ICP	1229	1866	50.0	<1.0	46.0	92	45.0	90	2.2		05/01/2000	264719
Silver, ICP	1230	1869	50.0	<1.0	22.8	46	23.2	46	1.7	q	05/04/2000	264756
HERBICIDES - NONAQUEOUS												264717
2,4-D		39	0.167	<0.17	0.119	71	0.114	68	4.3		05/09/2000	264717
2,4,5-TP (Silvex)		39	0.167	<0.017	0.105	63	0.104	62	1		05/09/2000	264717
PESTICIDES - NONAQUEOUS												264722
Aldrin	496	72	0.0167	<0.0017	0.0136	81	0.0126	75	7.6		05/10/2000	264722
gamma-BHC (Lindane)	496	72	0.0167	<0.0017	0.00999	60	0.00699	42	35		05/10/2000	264722

TestAmerica
INCORPORATED

QUALITY CONTROL REPORT
MATRIX SPIKE/MATRIX SPIKE DUPLICATE

Mr. Roger Kottloski
COMMONWEALTH ENGINEERS
7256 Company Drive
Indianapolis, IN 46237

05/16/2000

Job Number: 00.02066

Analyte	Prep Batch No.	Run Batch No.	Conc. Spike Added	Sample Result	Conc. MS Result	MS % Rec.	Conc. MSD Result	MSD % Rec.	RPD	Flag	Date Analyzed	Sample Spiked
4,4'-DDT	496	72	0.0167	<0.0033	0.0136	81	0.0110	66	21		05/10/2000	264722
Dieldrin	496	72	0.0167	<0.0033	0.0113	68	0.00866	52	27		05/10/2000	264722
Endrin	496	72	0.0167	<0.0033	0.0140	84	0.0143	86	2.1		05/10/2000	264722
Heptachlor	496	72	0.0167	<0.0017	0.0140	84	0.0133	80	5.1		05/10/2000	264722

KEY TO ABBREVIATIONS

<	Less than; when appearing in the result column, indicates analyte not detected at or above the Reporting Limit.
%	Percent; To convert ppm to %, divide result by 10,000. To convert % to ppm, multiply the result by 10,000.
*	Indicates the Reporting Limit is elevated due to insufficient sample volume.
mg/L	Part per million; Concentration in units of milligrams of analyte per Liter of aqueous sample.
ug/L	Part per billion; Concentration in units of micrograms of analyte per Liter of aqueous sample.
mg/kg	Part per million; Concentration in units of milligrams of analyte per kilogram of non-aqueous sample.
ug/kg	Part per billion; Concentration in units of micrograms of analyte per kilogram of non-aqueous sample.
a	Indicates the sample concentration was quantitated using a diesel fuel standard.
b	Indicates the analyte of interest was also found in the method blank.
c	Sample resembles unknown Hydrocarbon.
dw	When indicated, the result is reported on a dry weight basis. The contribution of the moisture content in the sample has been subtracted when calculating the concentration.
d1	Indicates the analyte has elevated Reporting Limit due to high concentration.
d2	Indicates the analyte has elevated Reporting Limit due to matrix.
e	Indicates the reported concentration is estimated.
g	Indicates the sample concentration was quantitated using a gasoline standard.
h	Indicates the sample was analyzed past recommended holding time.
i	Insufficient spike concentration due to high analyte concentration in the sample.
j	Indicates the reported concentration is below the Reporting Limit.
k	Indicates the sample concentration was quantitated using a kerosene standard.
l	Indicates an MS/MSD was not analyzed due to insufficient sample. An LCS / LCS Duplicate provided for precision.
m	Indicates the sample concentration was quantitated using a mineral spirits standard.
o	Indicates the sample concentration was quantitated using a motor oil standard.
p	Indicates the sample was post spiked due to sample matrix.
q	Indicates MS/MSD exceeded control limits. The associated sample may exhibit similar matrix bias. All other quality control indicators are in control.
r	Indicates the sample was received past recommended holding time.
u	Indicates the sample was received improperly preserved and/or improperly contained.
uj	Indicates the result is below the Reporting Limit and is considered estimated.
z	Indicates the BOD dilution water blank depletion was between 0.2 and 0.5 mg/L.

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PROJECT SUMMARY

Job Number: 00.02066

This project summary contains information on the contents and remarks on the sample handling, data, and quality control.

LEVEL IV DATA PACKAGE
CONTENTS

Number of pages in this package 774.

This data package will contain the following:

- ANALYTICAL AND QUALITY CONTROL REPORT COVER SHEET
- PROJECT SUMMARY
- KEY TO ABBREVIATIONS
- ANALYTICAL REPORT
- QUALITY CONTROL REPORT
- CHAIN OF CUSTODY
- INORGANIC RAW DATA SHEETS
- ORGANIC RAW DATA SHEETS

The raw data sheets will be organized in the order outlined below. Not all of the items listed below will pertain to all of the analysis requested for this job. The following list should be used as a guide.

-Inorganic Raw Data Sheets
- Conventional/Wet Chemistry Analyses
- ICP Metals Analyses
- GFAA Metals Analyses
- CVAA Mercury Analyses

-Organic Raw Data Sheets
- Volatile Analyses
- Semi-Volatile Analyses
- Pesticide/PCB Analyses
- Herbicide Analyses
- TPH/BETX Analyses

NOTE: The organic raw data will be further subdivided into the following sections. All data sheets in the subsection will be in chronological order by dates of analysis.

- Preparation and injection log data
- Initial calibration data
- Daily calibration data
- Sample Quality Control indicators
- Blank data
- Sample raw data

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REMARKS FOR JOB NUMBER 00.02066

Sample Receipt: All samples were received in good condition at a temperature of 0.4 degrees C.

Holding Times: No holding times were exceeded.

Analysis: Comments.

Analytical issues are described in the Project Narrative

Data Flags:

See attached "Key to Abbreviations".

Quality Control Indicators:

Quality control information has been summarized in the Quality Control Report.

TESTAMERICA INC.

Chain of Custody Record

☐ Asheville, NC (A) (828) 254-5169 ☐ Bartlett, IL (C) (630) 289-3100 ☐ Cedar Falls, IA (E) (319) 277-2401 ☐ Charlotte, NC (G) (704) 392-1164 ☐ Dayton, OH (I) (937) 294-6856 ☐ Lumberton, NC (K) (910) 738-6190 ☐ Nashville, TN (M) (615) 726-0177 ☐ Pontiac, MI (O) (248) 332-1940 ☐ Rockford, Il (Q) (815) 874-2171
☐ Atlanta, GA (B) (770) 368-0636 ☐ Brighton, CO (D) (303) 659-0497 ☐ Charleston, SC (F) (843) 849-6550 ☐ Columbia, SC (H) (803) 796-8989 ☐ Davenport, IA (J) (319) 323-7944 ☒ Indianapolis, IN (L) (317) 842-4261 ☐ Macon, GA (N) (912) 757-0811 ☐ Orlando, FL (P) (407) 851-2560 ☐ Watertown, WI (R) (920) 261-1660

Client: Commonwealth Engrs
Report Address: 7256 Company Dr Indianapolis, IN 46237
Attn: Roger Kotkowski
Phone No.: 317-838-1177
Fax No.: 317-337-8641

Project No.: C99134
Invoice Address: Same
Attn: "
Sampled By: "
P.O. No: N/A
Quote No.
State Samples Collected IN

TURNAROUND TIME
☒ Standard
☐ Rush (surcharges may apply)
Date Needed: May 8, 2000

Is this work being conducted for regulatory compliance monitoring? Yes___ No X
Is this work being conducted for regulatory enforcement action? Yes___ No X
Which regulations apply: RCRA___ NPDES Wastewater X UST___ Drinking Water___ Other___ None___

REQUESTED PARAMETERS

Sample ID	Date	Time	Comp (C) Grab (G)	Matrix	Lab Use	Ammonia Nitrogen	Volatile Organic Compounds	Organochlorine Pesticides	Organophosphorus Pesticides	Chlorinated Herbicides	Metals - See List	* Hold for Future TCLP Test									# and type of containers: HCl	NaOH	HNO3	H2SO4	Other	None	REMARKS
																												Lake Sediment
1A	4/25/00	3:45	C			X																						
1B	"	"		X			X																					"
1C	"	"	C							X																		"
1D	"	"	C					X	X																			"
1E	"	"	C								X																	"
1H	"	"	C									X																"

QC Deliverables: ☐ None ☐ Level 2 - Batch QC ☐ Level 3 ☐ Level 4 ☐ Other

Initial Lab Temp: OK - 5.8°C DEN
Rec'd Temp: 6.2°C

COMMENTS: Hold TCLP Samples - Do not test at this time
4 oz. glass containers ; See Attached Metals List

Relinquished By:	Date	Time	Received By:	Date	Time
Relinquished By:	4/26	4:45 PM	Received By:	4/26/00	16:45
Relinquished By:	Date	Time	Received By:	Date	Time
Relinquished By:	Date	Time	Received By:	Date	Time
Relinquished By:	Date	Time	Received By:	Date	Time

LAB USE ONLY:
Custody Seal: ☐ Yes ☐ No ☐ N/A
Bottles Supplied by TA: ☐ Yes ☐ No

000083

TESTAMERICA INC.

Page ___ of ___

Chain of Custody Record

- ☐ Asheville, NC (A) (828) 254-5169
- ☐ Atlanta, GA (B) (770) 368-0636
- ☐ Bartlett, IL (C) (630) 289-3100
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- ☐ Dayton, OH (I) (937) 294-6856
- ☐ Davenport, IA (J) (319) 323-7944
- ☐ Lumberton, NC (K) (910) 738-6190
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- ☐ Orlando, FL (P) (407) 851-2560
- ☐ Rockford, Il (Q) (815) 874-2171
- ☐ Watertown, WI (R) (920) 261-1660

Client: Commonwealth Engrs
Report Address: 7256 Company Dr
Indianapolis, IN 46237
Attn: Roger Kotlowski
Phone No.: 317-838-1177
Fax No.: 317-837-8641

Project No.: C99134
Invoice Address: Same
Attn: "
Sampled By: "
P.O. No: N/A
Quote No.
State Samples Collected IN

TURNAROUND TIME
☒ Standard
☐ Rush (surcharges may apply)

Date Needed: May 8, 2000

REQUESTED PARAMETERS

Is this work being conducted for regulatory compliance monitoring? Yes___ No X

Is this work being conducted for regulatory enforcement action? Yes___ No X

Which regulations apply:
RCRA___ NPDES Wastewater X
UST___ Drinking Water___
Other___ None___

Sample ID	Date	Time	Comp (C) Grab (G)	Matrix	Lab Use	Ammonia Nitrogen	Volatile Organic Compounds	Organochlorine Pesticides	Organophosphorus Pesticides	Chlorinated Herbicides	Metals - See List	* Hold for Future TCLP Test	# and type of containers: HCl	NaOH	HNO_3	H_2SO_4	Other	None	REMARKS
2 A	4/25	1:45 PM	C			X													Lake Sediment
2 B	"	"		X			X												
2 C	"	"	C							X									
2 D	"	"	C					X	X										
2 E	"	"	C								X								
2 H	"	"	C																

QC Deliverables: ☐ None ☐ Level 2 - Batch QC ☐ Level 3 ☐ Level 4 ☐ Other

Init Lab Temp: 0.4°C Rec Lab Temp

COMMENTS: Hold TCLP Samples - Do not test at this time
4 oz glass containers ; See Attached Metals List

Relinquished By:	Date	Time	Received By:	Date	Time
[signature]	4/26	4:45	[signature]	4/26/00	16:45

LAB USE ONLY:
Custody Seal: ☐ Yes ☐ No ☐ N/A
Bottles Supplied by TA: ☐ Yes ☐ No

000084

Chain of Custody Record

TESTAMERICA INC.

Page ___ of ___

- ☐ Asheville, NC (A) (828) 254-5169
- ☐ Atlanta, GA (B) (770) 368-0636
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- ☐ Charlotte, NC (G) (704) 392-1164
- ☐ Columbia, SC (H) (803) 796-8989
- ☐ Dayton, OH (I) (937) 294-6856
- ☐ Davenport, IA (J) (319) 323-7944
- ☐ Lumberton, NC (K) (910) 738-6190
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- ☐ Orlando, FL (P) (407) 851-2560
- ☐ Rockford, Il (Q) (815) 874-2171
- ☐ Watertown, WI (R) (920) 261-1660

Client: Commonwealth Engrs
Report Address: 7256 Company Dr
Indianapolis, IN 46237
Attn: Roger Kotthowski
Phone No.: 317-838-1177
Fax No.: 317-887-8641

Project No.: C99134
Invoice Address: Same
Attn: "
Sampled By: "
P.O. No: N/A
Quote No.
State Samples Collected IN

TURNAROUND TIME
☒ Standard
☐ Rush (surcharges may apply)

Date Needed: May 8, 2000

REQUESTED PARAMETERS

Is this work being conducted for regulatory compliance monitoring? Yes___ No X

Is this work being conducted for regulatory enforcement action? Yes___ No X

Which regulations apply:
RCRA___ NPDES Wastewater X
UST___ Drinking Water___
Other___ None___

Sample ID	Date	Time	Comp (C) Grab (G)	Matrix	Lab Use	Ammonia Nitrogen	Volatile Organic Compounds	Organochlorine Pesticides	Organophosphorus Pesticides	Chlorinated Herbicides	Metals - See List	* Hold for Future TCLP Test	# and type of containers: HCl	NaOH	HNO_3	H_2SO_4	Other	None	REMARKS
3 A	4/25	12:40	C			X													Lake Sediment
3 B	"	"		X			X												
3 C	"	"	C							X									
3 D	"	"	C					X	X										
3 E	"	"	C								X								
3 H	"	"	C									X							

QC Deliverables: ☐ None ☐ Level 2 - Batch QC ☐ Level 3 ☐ Level 4 ☐ Other

Init Lab Temp: 0.4°C
Rec Lab Temp

COMMENTS: Hold TCLP Samples - Do not test at this time
4 oz. glass containers ; See Attached Metals List

Relinquished By: [signature]	Date 4/26, 4:45	Time	Received By: [signature]	Date 4/26/00, 16:45	Time
Relinquished By:	Date	Time	Received By:	Date	Time
Relinquished By:	Date	Time	Received By:	Date	Time
Relinquished By:	Date	Time	Received By:	Date	Time

LAB USE ONLY:
Custody Seal: ☐ Yes ☐ No ☐ N/A
Bottles Supplied by TA: ☐ Yes ☐ No

000085

TESTAMERICA INC.

Page ___ of ___

Chain of Custody Record

- ☐ Asheville, NC (A) (828) 254-5169
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- ☐ Lumberton, NC (K) (910) 738-6190
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- ☐ Orlando, FL (P) (407) 851-2560
- ☐ Rockford, Il (Q) (815) 874-2171
- ☐ Watertown, WI (R) (920) 261-1660

Client: Commonwealth Engrs
Project No.: C99134
Report Address: 7256 Company Dr
Indianapolis, IN 46237
Invoice Address: Same
Attn: Roger Kotthowski
Attn: "
Phone No.: 317-888-1177
Sampled By: "
Fax No.: 317-887-8641
P.O. No: N/A
Quote No.
State Samples Collected IN

TURNAROUND TIME
☒ Standard
☐ Rush (surcharges may apply)

Date Needed: May 8, 2000

REQUESTED PARAMETERS

Is this work being conducted for regulatory compliance monitoring? Yes___ No X

Is this work being conducted for regulatory enforcement action? Yes___ No X

Which regulations apply:
RCRA___ NPDES Wastewater X
UST___ Drinking Water___
Other___ None___

Sample ID	Date	Time	Comp (C) Grab (G)	Matrix	Lab Use	Ammonia Nitrogen	Volatile Organic Compounds	Organochlorine Pesticides	Organophosphorus Pesticides	Chlorinated Herbicides	Metals - See List	* Hold for Future TCLP Test	# and type of containers: HCl	NaOH	HNO_3	H_2SO_4	Other	None	REMARKS
4A	4/25	11:35AM	C			X													Lake Sediment
4B	"	"		X			X												
4C	"	"	C							X									
4D	"	"	C					X	X										
4E	"	"	C								X								
4F	"	"	C									X							

QC Deliverables: ☐ None ☐ Level 2 - Batch QC ☐ Level 3 ☐ Level 4 ☐ Other

Init Lab Temp: 0.4°C
Rec Lab Temp:

COMMENTS: Hold TCLP Samples - Do not test at this time
4 oz. glass containers ; See Attached Metals List

Relinquished By:	Date	Time	Received By:	Date	Time
[signature]	4/26	4:45	[signature]	4/26/00	16:45

LAB USE ONLY:
Custody Seal: ☐ Yes ☐ No ☐ N/A
Bottles Supplied by TA: ☐ Yes ☐ No

000086

Chain of Custody Record

TESTAMERICA INC.

Page ___ of ___

- ☐ Asheville, NC (A) (828) 254-5169
- ☐ Atlanta, GA (B) (770) 368-0636
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- ☐ Dayton, OH (I) (937) 294-6856
- ☐ Davenport, IA (J) (319) 323-7944
- ☐ Lumberton, NC (K) (910) 738-6190
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- ☐ Rockford, Il (Q) (815) 874-2171
- ☐ Watertown, WI (R) (920) 261-1660

Client: Commonwealth Engrs
Report Address: 7256 Company Dr
Indianapolis, IN 46237
Attn: Roger Kotthowski
Phone No.: 317-888-1177
Fax No.: 317-887-8641

Project No.: C99134
Invoice Address: Same
Attn: "
Sampled By: "
P.O. No: N/A
Quote No.
State Samples Collected IN

TURNAROUND TIME
☒ Standard
☐ Rush (surcharges may apply)
Date Needed: May 8, 2000

REQUESTED PARAMETERS

Is this work being conducted for regulatory compliance monitoring? Yes___ No X

Is this work being conducted for regulatory enforcement action? Yes___ No X

Which regulations apply:
RCRA___ NPDES Wastewater X
UST___ Drinking Water___
Other___ None___

Sample ID	Date	Time	Comp (C) Grab (G)	Matrix	Lab Use	Ammonia Nitrogen	Volatile Organic Compounds	Organochlorine Pesticides	Organophosphorus Pesticides	Chlorinated Herbicides	Metals - See List	* Hold for Future TCLP Test			# and type of containers: HCl	NaOH	HNO_3	H_2SO_4	Other	None	REMARKS
5 A	4/25	10:45 AM	C			X															Lake Sediment
5 B	"	"		X			X														
5 C	"	"	C							X											
5 D	"	"	C					X	X												
5 E	"	"	C								X										
5 H	"	"	C									X									

QC Deliverables: ☐ None ☐ Level 2 - Batch QC ☐ Level 3 ☐ Level 4 ☐ Other

Init Lab Temp: 0.4°C
Rec Lab Temp:

COMMENTS: Hold TCLP Samples - Do not test at this time
4 oz glass containers ; See Attached Metals List

Relinquished By: [signature]	Date 4/26 4:45	Time	Received By: [signature]	4/26/00 16:45	Time
Relinquished By:	Date	Time	Received By:	Date	Time
Relinquished By:	Date	Time	Received By:	Date	Time
Relinquished By:	Date	Time	Received By:	Date	Time

LAB USE ONLY:
Custody Seal: ☐ Yes ☐ No ☐ N/A
Bottles Supplied by TA: ☐ Yes ☐ No

000087

Chain of Custody Record

TESTAMERICA INC.

- ☐ Asheville, NC (A) (828) 254-5169
- ☐ Atlanta, GA (B) (770) 368-0636
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- ☐ Brighton, CO (D) (303) 659-0497
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- ☐ Charlotte, NC (G) (704) 392-1164
- ☐ Columbia, SC (H) (803) 796-8989
- ☐ Dayton, OH (I) (937) 294-6856
- ☐ Davenport, IA (J) (319) 323-7944
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- ☐ Orlando, FL (P) (407) 851-2560
- ☐ Rockford, Il (Q) (815) 874-2171
- ☐ Watertown, WI (R) (920) 261-1660

Client: Commonwealth Engrs

Report Address: 7256 Company Dr Indianapolis, IN 46237

Attn: Roger Kotthowski

Phone No.: 317-888-1177

Fax No.: 317-887-8641

Project No.: C99134

Invoice Address: Same

Attn: "

Sampled By: "

P.O. No: N/A

Quote No.

State Samples Collected: IN

TURNAROUND TIME

☒ Standard

☐ Rush (surcharges may apply)

Date Needed: May 8, 2000

REQUESTED PARAMETERS

Is this work being conducted for regulatory compliance monitoring? Yes___ No X

Is this work being conducted for regulatory enforcement action? Yes___ No X

Which regulations apply: RCRA___ NPDES Wastewater X UST___ Drinking Water___ Other___ None___

Sample ID	Date	Time	Comp (C) Grab (G)	Matrix	Lab Use	Ammonia Nitrogen	Volatile Organic Compounds	Organochlorine Pesticides	Organophosphorus Pesticides	Chlorinated Herbicides	Metals - See List	* Hold for Future TCLP Test					HCl	NaOH	HNO_3	H_2SO_4	Other	None	REMARKS
																							Lake Sediment
6 A	4/25	5:10PM	C			X																	
6 B	"	"		X			X																
6 C	"	"	C							X													
6 D	"	"	C					X	X														
6 E	"	"	C								X												
6 H	"	"	C									X											

QC Deliverables: ☐ None ☐ Level 2 - Batch QC ☐ Level 3 ☐ Level 4 ☐ Other

Init Lab Temp

Rec Lab Temp: 0.4°C

COMMENTS: Hold TCLP Samples - Do not test at this time
4 oz glass containers ; See Attached Metals List

Relinquished By:	Date	Time	Received By:	Date	Time
[signature]	4/26	4:45	[signature]	4/26/00	16:45

LAB USE ONLY:

Custody Seal: ☐ Yes ☐ No ☐ N/A

Bottles Supplied by TA: ☐ Yes ☐ No

000088

Chain of Custody Record

TESTAMERICA INC.

Page ___ of ___

- ☐ Asheville, NC (A) (828) 254-5169
- ☐ Atlanta, GA (B) (770) 368-0636
- ☐ Bartlett, IL (C) (630) 289-3100
- ☐ Brighton, CO (D) (303) 659-0497
- ☐ Cedar Falls, IA (E) (319) 277-2401
- ☐ Charleston, SC (F) (843) 849-6550
- ☐ Charlotte, NC (G) (704) 392-1164
- ☐ Columbia, SC (H) (803) 796-8989
- ☐ Dayton, OH (I) (937) 294-6856
- ☐ Davenport, IA (J) (319) 323-7944
- ☐ Lumberton, NC (K) (910) 738-6190
- ☒ Indianapolis, IN (L) (317) 842-4261
- ☐ Nashville, TN (M) (615) 726-0177
- ☐ Macon, GA (N) (912) 757-0811
- ☐ Pontiac, MI (O) (248) 332-1940
- ☐ Orlando, FL (P) (407) 851-2560
- ☐ Rockford, Il (Q) (815) 874-2171
- ☐ Watertown, WI (R) (920) 261-1660

Client: Commonwealth Engrs
Report Address: 7256 Company Dr
Indianapolis, IN 46237
Attn: Roger Kotlowski
Phone No.: 317-888-1177
Fax No.: 317-887-8641

Project No.: C99134
Invoice Address: Same
Attn: "
Sampled By: "
P.O. No: N/A
Quote No.
State Samples Collected IN

TURNAROUND TIME
☒ Standard
☐ Rush (surcharges may apply)
Date Needed: May 8, 2000

REQUESTED PARAMETERS

Is this work being conducted for regulatory compliance monitoring? Yes___ No X

Is this work being conducted for regulatory enforcement action? Yes___ No X

Which regulations apply:
RCRA___ NPDES Wastewater X
UST___ Drinking Water___
Other___ None___

Sample ID	Date	Time	Comp (C) Grab (G)	Matrix	Lab Use	Ammonia Nitrogen	Volatile Organic Compounds	Organochlorine Pesticides	Organophosphorus Pesticides	Chlorinated Herbicides	Metals - See List	* Hold for Future TCLP Test	# and type of containers: HCl	NaOH	HNO_3	H_2SO_4	Other	None	REMARKS
7A	4/25	6:00pm	C			X													Lake Sediment
7B	"	"		X			X												
7C	"	"	C							X									
7D	"	"	C					X	X										
7E	"	"	C								X								
7H	"	"	C									X							

QC Deliverables: ☐ None ☐ Level 2 - Batch QC ☐ Level 3 ☐ Level 4 ☐ Other

Init Lab Temp: 0.4°C Rec Lab Temp

COMMENTS: Hold TCLP Samples - Do not test at this time
4 oz glass containers; See Attached Metals List

Relinquished By:	Date	Time	Received By:	Date	Time
[signature]	4/26, 4:45		[signature]	4/26/00	16:45

LAB USE ONLY:
Custody Seal: ☐ Yes ☐ No ☐ N/A
Bottles Supplied by TA: ☐ Yes ☐ No

680089

Chain of Custody Record

TESTAMERICA INC.

Page ___ of ___

- ☐ Asheville, NC (A) (828) 254-5169
- ☐ Atlanta, GA (B) (770) 368-0636
- ☐ Bartlett, IL (C) (630) 289-3100
- ☐ Brighton, CO (D) (303) 659-0497
- ☐ Cedar Falls, IA (E) (319) 277-2401
- ☐ Charleston, SC (F) (843) 849-6550
- ☐ Charlotte, NC (G) (704) 392-1164
- ☐ Columbia, SC (H) (803) 796-8989
- ☐ Dayton, OH (I) (937) 294-6856
- ☐ Davenport, IA (J) (319) 323-7944
- ☐ Lumberton, NC (K) (910) 738-6190
- ☒ Indianapolis, IN (L) (317) 842-4261
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- ☐ Pontiac, MI (O) (248) 332-1940
- ☐ Orlando, FL (P) (407) 851-2560
- ☐ Rockford, Il (Q) (815) 874-2171
- ☐ Watertown, WI (R) (920) 261-1660

Client: Commonwealth Engrs
Report Address: 7256 Company Dr
Indianapolis, IN 46237
Attn: Roger Kotthowski
Phone No.: 317-838-1177
Fax No.: 317-837-8641

Project No.: C99134
Invoice Address: Same
Attn: "
Sampled By: "
P.O. No: N/A
Quote No.
State Samples Collected IN

TURNAROUND TIME
☒ Standard
☐ Rush (surcharges may apply)

Date Needed: May 8, 2000

REQUESTED PARAMETERS

Is this work being conducted for regulatory compliance monitoring? Yes___ No X

Is this work being conducted for regulatory enforcement action? Yes___ No X

Which regulations apply:
RCRA___ NPDES Wastewater X
UST___ Drinking Water___
Other___ None___

Sample ID	Date	Time	Comp (C) Grab (G)	Matrix	Lab Use	Ammonia Nitrogen	Volatile Organic Compounds	Organochlorine Pesticides	Organophosphorus Pesticides	Chlorinated Herbicides	Metals - See List	* Hold for Future TCLP Test	# and type of containers: HCl	NaOH	HNO_3	H_2SO_4	Other	None	REMARKS
8 A	4/26	10:15 AM	C			X													Lake Sediment
8 B	"	"		Y			X												
8 C	"	"	C							X									
8 D	"	"	C					X	X										
8 E	"	"	C								X								
8 H	"	"	C									X							

QC Deliverables: ☐ None ☐ Level 2 - Batch QC ☐ Level 3 ☐ Level 4 ☐ Other

Init Lab Temp: 6.8 °C Rec Lab Temp

COMMENTS: Hold TCLP Samples - Do not test at this time
4 oz. glass containers ; See Attached Metals List

Relinquished By:	Date	Time	Received By:	Date	Time
[signature]	4/26	4:45	[signature]	4/26/00	16:45

LAB USE ONLY:
Custody Seal: ☐ Yes ☐ No ☐ N/A
Bottles Supplied by TA: ☐ Yes ☐ No

000000

Chain of Custody Record

TESTAMERICA INC.

Page ___ of ___

- ☐ Asheville, NC (A) (828) 254-5169
- ☐ Atlanta, GA (B) (770) 368-0636
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- ☐ Columbia, SC (H) (803) 796-8989
- ☐ Dayton, OH (I) (937) 294-6856
- ☐ Davenport, IA (J) (319) 323-7944
- ☐ Lumberton, NC (K) (910) 738-6190
- ☒ Indianapolis, IN (L) (317) 842-4261
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- ☐ Orlando, FL (P) (407) 851-2560
- ☐ Rockford, Il (Q) (815) 874-2171
- ☐ Watertown, WI (R) (920) 261-1660

Client: Commonwealth Engrs
Project No.: C99134
Report Address: 7256 Company Dr
Invoice Address: Same
Indianapolis, IN 46237
Attn: Roger Kotthowski
Attn: "
Phone No.: 317-838-1177
Sampled By: "
Fax No.: 317-887-8641
P.O. No: N/A
Quote No.
State Samples Collected IN

TURNAROUND TIME
☒ Standard
☐ Rush (surcharges may apply)
Date Needed: May 8, 2000

REQUESTED PARAMETERS

Is this work being conducted for regulatory compliance monitoring? Yes___ No X

Is this work being conducted for regulatory enforcement action? Yes___ No X

Which regulations apply:
RCRA___ NPDES Wastewater X
UST___ Drinking Water___
Other___ None___

Sample ID	Date	Time	Comp (C) Grab (G)	Matrix	Lab Use	Ammonia Nitrogen	Volatile Organic Compounds	Organochlorine Pesticides	Organophosphorus Pesticides	Chlorinated Herbicides	Metals - See List	* Hold for Future TCLP Test	# and type of containers: HCl	NaOH	HNO_3	H_2SO_4	Other	None	REMARKS
9 A	4/26	12:45 PM	C			X													Lake Sediment
9 B	"	"		X			X												
9 C	"	"	C							X									
9 D	"	"	C					X	X										
9 E	"	"	C								X	X							
9 H	"	"	C									X							

QC Deliverables: ☐ None ☐ Level 2 - Batch QC ☐ Level 3 ☐ Level 4 ☐ Other

Init Lab Temp: 68 C
Rec Lab Temp:

COMMENTS: Hold TCLP Samples - Do not test at this time
4 oz. glass containers ; See Attached Metals List

Relinquished By:	Date	Time	Received By:	Date	Time
[signature]	4/26	4:45	[signature]	4/26/00	4:45

LAB USE ONLY:
Custody Seal: ☐ Yes ☐ No ☐ N/A
Bottles Supplied by TA: ☐ Yes ☐ No

000091

Chain of Custody Record

TESTAMERICA INC.

Page ___ of ___

- ☐ Asheville, NC (A) (828) 254-5169
- ☐ Atlanta, GA (B) (770) 368-0636
- ☐ Bartlett, IL (C) (630) 289-3100
- ☐ Brighton, CO (D) (303) 659-0497
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- ☐ Dayton, OH (I) (937) 294-6856
- ☐ Davenport, IA (J) (319) 323-7944
- ☐ Lumberton, NC (K) (910) 738-6190
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- ☐ Nashville, TN (M) (615) 726-0177
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- ☐ Orlando, FL (P) (407) 851-2560
- ☐ Rockford, Il (Q) (815) 874-2171
- ☐ Watertown, WI (R) (920) 261-1660

Client: Commonwealth Engrs
Project No.: C99134
Report Address: 7256 Company Dr
Indianapolis, IN 46237
Invoice Address: Same
Attn: Roger Kotlowski
Attn: "
Phone No.: 317-838-1177
Sampled By: "
Fax No.: 317-887-8641
P.O. No: N/A
Quote No.
State Samples Collected IN

TURNAROUND TIME
☒ Standard
☐ Rush (surcharges may apply)
Date Needed: May 8, 2000

REQUESTED PARAMETERS

Is this work being conducted for regulatory compliance monitoring? Yes___ No X

Is this work being conducted for regulatory enforcement action? Yes___ No X

Which regulations apply:
RCRA___ NPDES Wastewater X
UST___ Drinking Water___
Other___ None___

Sample ID	Date	Time	Comp (C) Grab (G)	Matrix	Lab Use	Ammonia Nitrogen	Volatile Organic Compounds	Organochlorine Pesticides	Organophosphorus Pesticides	Chlorinated Herbicides	Metals - See List	* Hold for Future TCLP Test	# and type of containers: HCl	NaOH	HNO_3	H_2SO_4	Other	None	REMARKS
10 A	4/26	10:50 AM	C			X													Lake Sediment
10 B	"	"		X			X												
10 C	"	"	C							X									
10 D	"	"	C					X	X										
10 E	"	"	C								X								
10 H	"	"	C									X							

QC Deliverables: ☐ None ☐ Level 2 - Batch QC ☐ Level 3 ☐ Level 4 ☐ Other

Init Lab Temp: 68°C Rec Lab Temp

COMMENTS: Hold TCLP Samples - Do not test at this time
4 oz. glass containers ; See Attached Metals List

Relinquished By:	Date	Time	Received By:	Date	Time
[signature]	4/26	4:45	[signature]	4/26/00	16:45

LAB USE ONLY:
Custody Seal: ☐ Yes ☐ No ☐ N/A
Bottles Supplied by TA: ☐ Yes ☐ No

000092

Chain of Custody Record

TESTAMERICA INC.

Page ___ of ___

- ☐ Asheville, NC (A) (828) 254-5169
- ☐ Atlanta, GA (B) (770) 368-0636
- ☐ Bartlett, IL (C) (630) 289-3100
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- ☐ Columbia, SC (H) (803) 796-8989
- ☐ Dayton, OH (I) (937) 294-6856
- ☐ Davenport, IA (J) (319) 323-7944
- ☐ Lumberton, NC (K) (910) 738-6190
- ☒ Indianapolis, IN (L) (317) 842-4261
- ☐ Nashville, TN (M) (615) 726-0177
- ☐ Macon, GA (N) (912) 757-0811
- ☐ Pontiac, MI (O) (248) 332-1940
- ☐ Orlando, FL (P) (407) 851-2560
- ☐ Rockford, Il (Q) (815) 874-2171
- ☐ Watertown, WI (R) (920) 261-1660

Client: Commonwealth Engrs
Report Address: 7256 Company Dr
Indianapolis, IN 46237
Attn: Roger Kottlowski
Phone No.: 317-838-1177
Fax No.: 317-887-8641

Project No.: C99134
Invoice Address: Same
Attn: "
Sampled By: "
P.O. No: N/A
Quote No.
State Samples Collected IN

TURNAROUND TIME
☒ Standard
☐ Rush (surcharges may apply)

Date Needed: May 8, 2000

REQUESTED PARAMETERS

Is this work being conducted for regulatory compliance monitoring? Yes___ No X

Is this work being conducted for regulatory enforcement action? Yes___ No X

Which regulations apply:
RCRA___ NPDES Wastewater X
UST___ Drinking Water___
Other___ None___

Sample ID	Date	Time	Comp (C) Grab (G)	Matrix	Lab Use	Ammonia Nitrogen	Volatile Organic Compounds	Organochlorine Pesticides	Organophosphorus Pesticides	Chlorinated Herbicides	Metals - See List	* Hold for Future TCLP Test	# and type of containers: HCl	NaOH	HNO_3	H_2SO_4	Other	None	REMARKS
11 A	4/26	11:50 AM	C			X													Lake Sediment
11 B	"	"		X			X												
11 C	"	"	C							X									
11 D	"	"	C					X	X										
11 E	"	"	C								X								
11 H	"	"	C									X							

QC Deliverables: ☐ None ☐ Level 2 - Batch QC ☐ Level 3 ☐ Level 4 ☐ Other

Init Lab Temp: 6.8°C Rec Lab Temp

COMMENTS: Hold TCLP Samples - Do not test at this time
4 oz. glass containers ; See Attached Metals List

Relinquished By:	Date	Time	Received By:	Date	Time
[signature]	4/26	4:45	[signature]	4/26/00	16:45

LAB USE ONLY:
Custody Seal: ☐ Yes ☐ No ☐ N/A
Bottles Supplied by TA: ☐ Yes ☐ No

000093

Special Analytical

Test America Job 00.02066

TestAmerica
INCORPORATED

CASE NARRATIVE
5/15/00

Client: Testamerica, Inc. (8570)
Attn: Ron Barnett
6964 Hillsdale
Indianapolis, IN 46250
1-317-842-4261

Client Project: 0.02066
Laboratory Project: 189955
Date Received: 4/28/00

Matrix: Soil
Number of samples : 11
Date Collected : 4/25/00

Sample Receipt Notes: The samples were received in good condition and properly preserved. The analysis was performed within the method required holding times.

QC Notes:
VOLATILE ORGANICS by SW846/8260B BATCH-356
All QC calibrations were within the method required QC limits. The method blank for this batch had no reported detections for analyte compounds. All Surrogate recoveries were within required QC limits. The sample used for MS/MSD was Sample ID: 264716 of this delivery group. The MS/MSD spiked compounds were within the required QC limit. The %RPD for the MS/MSD spiked compounds was within the required QC limit. The Control spiked compounds was within historical QC limits. QC was accepted for this batch.

General:
Sample quantitation was done using relative response factors for all compounds with a 15% or less RSD and for the calibration curves whose compounds exceeded the 15% RSD quantitation was done using linear regression. Curves have been supplied for the linear regression.

PESTICIDES by SW846/8081A BATCH-310
All QC calibrations were within method required QC limits. The method prep blank for this batch had no reported detections for analyte compounds. Surrogate recoveries were within required QC limits on both Channel A and B for Tetrachloro-m-xylene. Surrogate recoveries for Decachlorobiphenyl were outside the required limit of 15-130% on both Channel A and B for several samples and QC samples of this batch biased high. The sample used for MS/MSD was Sample ID: 264722 of this delivery group. The MS/MSD spiked compounds were within the required QC limit. The %RPD for the MS/MSD spiked compounds was within required QC limit. The Control spiked compounds were within the required laboratory historical QC limits. QC was accepted for this batch.

ORGANOPHOSPHORUS PESTICIDES by SW846/8141A BATCH-306
All QC calibrations were within method required QC limits. The method prep blank for this batch had no reported detections for analyte compounds. Surrogate recoveries were within required QC limits. The sample used for MS/MSD was Sample ID: 264716 of this delivery group. The MS/MSD spiked compounds were within the required QC limit. The %RPD for the MS/MSD spiked compounds was within required QC limit. The Control spiked compounds were within the required laboratory historical QC limits. QC was accepted for this batch.

TestAmerica
INCORPORATED

HERBICIDES by SW846/8151A BATCH-2328
All QC calibrations were within method required QC limits. The method prep blank for this batch had no reported detections for analyte compounds. Surrogate recoveries were within required QC limits on both Channel A and B. The sample used for MS/MSD was Sample ID: 264720 of this delivery group. The MS had two out of ten spiked compounds outside the required QC limit biased low. The MSD had three out of ten spiked compounds outside the required limit biased low. The %RPD had two out of ten spiked compounds outside the required QC limit. The Control spiked compounds were within the required laboratory historical QC limits, except Dalapon and Dinoseb. There was no reported detection for Dalapon and Dinosed in this batch. QC was accepted for this batch.

Moisture by CLP Batch-7225
The results have been corrected for Dry Weight.

If you have any questions as you review this package, please call me at 1-800-765-0980.

Thanks

Glenn L. Norton
Technical Services
Testamerica, INC.

TESTAMERICA INC.

Chain of Custody Record

- ☐ Asheville, NC (A) (828) 254-5169
- ☐ Atlanta, GA (B) (770) 368-0636
- ☐ Bartlett, IL (C) (630) 289-3100
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- ☐ Charleston, SC (F) (843) 849-6550
- ☐ Charlotte, NC (G) (704) 392-1164
- ☐ Columbia, SC (H) (803) 796-8989
- ☐ Dayton, OH (I) (937) 294-6856
- ☐ Davenport, IA (J) (319) 323-7944
- ☐ Lumberton, NC (K) (910) 738-6190
- ☐ Indianapolis, IN (L) (317) 842-4261
- ☐ Nashville, TN (M) (615) 726-0177
- ☐ Macon, GA (N) (912) 757-0811
- ☐ Pontiac, MI (O) (248) 332-1940
- ☐ Orlando, FL (P) (407) 851-2560
- ☐ Rockford, Il (Q) (815) 874-2171
- ☐ Watertown, WI (R) (920) 261-1660

Client: Test America IN

Project No.: 0.02066

Report Address:

Invoice Address:

Attn: Ken Busch

Attn:

Phone No.:

Sampled By:

Fax No.:

P.O. No:

Quote No.

State Samples Collected IN

TURNAROUND TIME

- ☐ Standard
- ☐ Rush (surcharges may apply)

Date Needed: 5/8

REQUESTED PARAMETERS

8081, 8141, 8151, 8260 (see attached list)

Is this work being conducted for regulatory compliance monitoring? Yes___ No___

Is this work being conducted for regulatory enforcement action? Yes___ No___

Which regulations apply:
RCRA___ NPDESWastewater___
UST___ Drinking Water___
Other___ None___

Sample ID	Date	Time	Comp (C) Grab (G)	Matrix	Lab Use	8081	8141	8151	8260							# and type of containers: HCl	NaOH	HNO_3	H_2SO_4	Other	None	REMARKS
244726	4/26	1150		SO	~~56014~~ 56013	X	X															

QC Deliverables: ☐ None ☐ Level 2 Batch QC ☐ Level 3 ☒ Level 4 ☐ Other

Init Lab Temp | Rec Lab Temp

COMMENTS:

Relinquished By:	Date	Time	Received By:	Date	Time
Relinquished By:	Date	Time	Received By:	Date	Time
Relinquished By:	Date	Time	Received By:	Date	Time
Relinquished By:	Date	Time	Received By: [signature]	4-28-10	900

LAB USE ONLY:

Custody Seal: ☐ Yes ☐ No ☐ N/A

Bottles Supplied by TA: ☐ Yes ☐ No

000098

004

COOLER RECEIPT FORM

Client: Testamerica BC# 189955

Cooler Received On: 4.28.00 And Opened On: 4.28.00 By: Craig Cothron

(Signature)

1. Temperature of Cooler when opened 7.0 DEGREES CELSIUS
2. Were custody seals on outside of cooler and intact?.....NO
   a. If yes,what kind and where: TAPE
   b. Were the signature and date correct?.....N/A
3. Were custody seals on containers intact?.....YES
4. Were custody papers inside cooler?.....YES
5. Were custody papers properly filled out (ink,signed,etc)?.....YES
6. Did you sign the custody papers in the appropriate place?.....YES
7. What kind of packing material was used? Bubblewrap Peanuts Other None
8. Was sufficient ice used (if appropriate)?.....YES
9. Did all bottles arrive in good condition(unbroken)?.....YES
10. Were all bottle labels complete (#,date,signed,pres,etc)?.....YES
11. Did all bottle labels and tags agree with custody papers?.....YES
12. Were correct bottles used for the analysis requested?.....YES
13. If present, was any observable VOA headspace present?.....NO
14. If present, were VOA vials checked for absence of air bubbles and noted if found?.....YES
15. Was sufficient amount of sample sent in each bottle?.....YES
16. Were correct preservatives used?.....YES
17. Corrective action taken, if necessary:
    a. Name of person contacted: SEE ATTACHED FOR RESOLUTION IF NEEDED
    b. Date:_____

SECTION 6: ANALYTICAL PROCEDURES

Parameter	Lab Method	Practical Reporting Limit
Ammonia Nitrogen	350.3	3 mg/kg
Volatile Organic Compounds	8260	5 mg/kg except as otherwise noted below
Organochlorine Pesticides	8081	1.7 µg/kg except as otherwise noted below
Organophosphorus Pesticides	8141	33 µg/kg except as otherwise noted below
Chlorinated Herbicides	8151	17 µg/kg except as otherwise noted below
Total Arsenic	6010B	5.0 mg/kg
Total Barium	6010 B	1.0 mg/kg
Total Cadmium	6010 B	0.5 mg/kg
Total Chromium	6010B	0.5 mg/kg
Total Lead	6010B	4.0 mg/kg
Total Manganese	6010B	0.5 mg/kg
Total Mercury	7471A	0.10 mg/kg
Total Nickel	6010B	1.0 mg/kg
Total Selenium	6010B	1.0 mg/kg
Total Silver	6010B	1.0 mg/kg
Total Iron	6010B	5.0 mg/kg

VOC

- meta- & para-xylene – Practical Reporting Limit = 10 mg/kg
- acetone – Practical Reporting Limit = 100 mg/kg
- 2-butanone – Practical Reporting Limit = 10 mg/kg
- 4-methyl-2 pentanone – Practical Reporting Limit = 10 mg/kg
- acrolein – Practical Reporting Limit = 250 mg/kg
- acrylonitrile – Practical Reporting Limit = 250 mg/kg
- 2-hexanone – Practical Reporting Limit = 10 mg/kg
- vinyl acetate – Practical Reporting Limit = 10 mg/kg
- iodomethane – Practical Reporting Limit = 10 mg/kg
- 1,4-dioxane – Practical Reporting Limit = 50 mg/kg
- 1,2-dichloropropene – Practical Reporting Limit = 50 mg/kg

  t-1,4,-dichloro-2-butene – Practical Reporting Limit = 100 mg/kg
- ethyl methacrylate – Practical Reporting Limit = 100 mg/kg
- hexane – Practical Reporting Limit = 10 mg/kg
- bromomethane - Practical Reporting Limit = 10 mg/kg
- chloro ethane - Practical Reporting Limit = 10 mg/kg

Pesticides

- fensulfothion - Practical Reporting Limit = 66 mg/kg
- dieldrin – Practical Reporting Limit = 3.3 µg/kg
- 4,4'-DDE – Practical Reporting Limit = 3.3 µg/kg
- endrin – Practical Reporting Limit = 3.3 µg/kg
- 4,4' - DDD– Practical Reporting Limit = 3.3 µg/kg
- endosulfan sulfate – Practical Reporting Limit = 3.3 µg/kg
- 4,4' – DDT – Practical Reporting Limit = 3.3 µg/kg
- endrine ketone – Practical Reporting Limit = 3.3 µg/kg
- methoxychlor – Practical Reporting Limit = 17 µg/kg
- toxaphene – Practical Reporting Limit = 170 µg/kg
- endrin aldehyde – Practical Reporting Limit = 3.3 µg/kg
- dimethoate - Practical Reporting Limit = 66 mg/kg

Herbicides

- MCPP – Practical Reporting Limit = 1670 µg/kg
- MCPA – Practical Reporting Limit = 1670 µg/kg
- 2,4 - D - Practical Reporting Limit = 167 mg/kg
- 2,4 - DB - Practical Reporting Limit = 167 mg/kg
- Dalapan - Practical Reporting Limit = 333 mg/kg
- Dichloroprop - Practical Reporting Limit = 167 mg/kg
- Dinoseb - Practical Reporting Limit = 83 mg/kg
- Pentachlorophenol - Practical Reporting Limit = 33 mg/kg

Note: Samples for TCLP metals will also be collected and forwarded to the laboratory as contingency parameters. These will not be immediately analyzed.

VOLATILE ORGANICS by SW846/8260B

SUMMARY DATA

TESTAMERICA, INC
2960 FOSTER CREIGHTON DRIVE
NASHVILLE, TN 37204
1-800-765-0980

METHYLENE CHLORIDE:
ACETONE:
HEXANE:
DIETHYL ETHER:
1,1,2-TRICHLOROTRIFLUOROETHANE (freon):
METHANOL:
ACETONITRILE:
SILICA GEL:
TOLUENE:
SODIUM CHLORIDE:
PENTANE:
FLORISIL:
SODIUM HYDROXIDE:
SULFURIC ACID:
SODIUM SULFATE(anhydrous):
HYDROCHLORIC ACID:
EDTA:
BORON TRIFLUORIDE/METHANOL(BF-3):
SODIUM SULFATE (aqueous):
POTASSIUM HYDROXIDE(37%):
SULFURIC ACID(25%):
HEXANE/ACETONE MIX (70:30):

SURROGATE:

SPIKE:

LCS:

Oil and Grease Water Bath Temperature:

Soxhlet Extraction Start Time:———— Finish Time:————

pH adjustment: NaOH addition:———— Sulfuric Acid addition:————

Secondary verification of Samples, Spike, Surrogate, LCS and extraction date by:

SPECIALIZED ASSAYS, INC.
2960 Foster Creighton Dr.
P.O. Box 40566
Nashville, TN 37204-0566
Phone 1-615-726-0177

Sample Identification

BLANK

Matrix: Soil
% Dry Weight: 100
Units: UG/KG
Dilution Factor: 1
Analysis Method: SW8260B
Delivery Group: 189933
Instrument: HP-10

Lab Sample ID: BLANK
Date Sampled: 4/25/00
Date Received: 4/28/00
Analysis Date: 4/30/00
Analysis Time: 0:00
Sample QC Group: 7224

FORM I

CAS NUMBER	ANALYTE	CONCENTRATION	FLAG
71-43-2	Benzene	2.0	U
67-64-1	Acetone	10.0	U
107-02-8	Acrolein	10.0	U
107-13-1	Acrylonitrile	10.0	U
108-86-1	Bromobenzene	2.0	U
74-97-5	Bromochloromethane	2.0	U
75-25-2	Bromoform	2.0	U
74-83-9	Bromomethane	2.0	U
78-93-3	2-Butanone	10.0	U
104-51-8	n-Butylbenzene	2.0	U
135-98-8	sec-Butylbenzene	2.0	U
98-06-6	t-Butylbenzene	2.0	U
75-15-0	Carbon disulfide	2.0	U
56-23-5	Carbon tetrachloride	2.0	U
108-90-7	Chlorobenzene	2.0	U
75-00-3	Chloroethane	2.0	U
110-75-8	2-Chloroethylvinylether	2.0	U
67-66-3	Chloroform	2.0	U
74-87-3	Chloromethane	2.0	U
95-49-8	2-Chlorotoluene	2.0	U
106-43-4	4-Chlorotoluene	2.0	U
96-12-8	1,2-Dibromo-3-chloropropane	10.0	U
124-48-1	Dibromochloromethane	2.0	U
106-93-4	1,2-Dibromoethane	2.0	U
74-95-3	Dibromomethane	2.0	U
110-57-6	1,4-Dichloro-2-butene	2.0	U
95-50-1	1,2-Dichlorobenzene	2.0	U
541-73-1	1,3-Dichlorobenzene	2.0	U
106-46-7	1,4-Dichlorobenzene	2.0	U
75-71-8	Dichlorodifluoromethane	2.0	U
75-34-3	1,1-Dichloroethane	2.0	U
107-06-2	1,2-Dichloroethane	2.0	U
75-35-4	1,1-Dichloroethene	2.0	U
156-59-2	cis-1,2-Dichloroethene	2.0	U
156-60-5	trans-1,2-Dichloroethene	2.0	U
78-87-5	1,2-Dichloropropane	2.0	U
142-28-9	1,3-Dichloropropane	2.0	U
594-20-7	2,2-Dichloropropane	2.0	U
563-58-6	1,1-Dichloropropene	2.0	U

SPECIALIZED ASSAYS, INC.
2960 Foster Creighton Dr.
P.O. Box 40566
Nashville, TN 37204-0566
Phone 1-615-726-0177

Sample Identification

BLANK

Matrix: Soil
% Dry Weight: 100
Units: UG/KG

Lab Sample ID: BLANK
Date Sampled: 4/25/00
Date Received: 4/28/00

FORM I

CAS NUMBER	ANALYTE	CONCENTRATION	FLAG
10061-01-5	cis-1,3-Dichloropropene	2.0	U
10061-02-6	trans-1,3-Dichloropropene	2.0	U
100-41-4	Ethylbenzene	2.0	U
87-68-3	Hexachlorobutadiene	2.0	U
591-78-6	2-Hexanone	10.0	U
74-88-4	Iodomethane	2.0	U
98-82-8	Isopropylbenzene	2.0	U
99-87-6	4-Isopropyltoluene	2.0	U
108-10-1	4-Methyl-2-pentanone	10.0	U
75-09-2	Methylene chloride	2.0	U
91-20-3	Naphthalene	5.0	U
103-65-1	n-Propylbenzene	2.0	U
100-42-5	Styrene	2.0	U
630-20-6	1,1,1,2-Tetrachloroethane	2.0	U
79-34-5	1,1,2,2-Tetrachloroethane	2.0	U
127-18-4	Tetrachloroethene	2.0	U
108-88-3	Toluene	2.0	U
87-61-6	1,2,3-Trichlorobenzene	2.0	U
120-82-1	1,2,4-Trichlorobenzene	2.0	U
71-55-6	1,1,1-Trichloroethane	2.0	U
79-00-5	1,1,2-Trichloroethane	2.0	U
79-01-6	Trichloroethene	2.0	U
96-18-4	1,2,3-Trichloropropane	2.0	U
95-63-6	1,2,4-Trimethylbenzene	2.0	U
108-67-8	1,3,5-Trimethylbenzene	2.0	U
108-05-4	Vinyl acetate	10.0	U
75-01-4	Vinyl chloride	2.0	U
75-27-4	Bromodichloromethane	2.0	U
6615	o-Xylene	2.0	U
1330-20-7	m,p-Xylene	2.0	U
75-69-4	Trichlorofluoromethane	2.0	U

SPECIALIZED ASSAYS, INC.
2960 Foster Creighton Dr.
P.O. Box 40566
Nashville, TN 37204-0566
Phone 1-615-726-0177

Sample Identification

264716

Matrix: Soil
% Dry Weight: 87.
Units: ug/kg dry weight
Dilution Factor: 1.
Analysis Method: SW8260B
Delivery Group: 189955
Instrument: HP-10

Lab Sample ID: 00-A58004
Date Sampled: 4/25/00
Date Received: 4/28/00
Analysis Date: 4/30/00
Analysis Time: 0:37
Sample QC Group: 7224

FORM I

CAS NUMBER	ANALYTE	CONCENTRATION	FLAG
67-64-1	Acetone	11.5	U
107-02-8	Acrolein	11.5	U
107-13-1	Acrylonitrile	11.5	U
71-43-2	Benzene	2.3	U
108-86-1	Bromobenzene	2.3	U
74-97-5	Bromochloromethane	2.3	U
75-25-2	Bromoform	2.3	U
74-83-9	Bromomethane	2.3	U
78-93-3	2-Butanone	11.5	U
104-51-8	n-Butylbenzene	2.3	U
135-98-8	sec-Butylbenzene	2.3	U
98-06-6	t-Butylbenzene	2.3	U
75-15-0	Carbon disulfide	2.3	U
56-23-5	Carbon tetrachloride	2.3	U
108-90-7	Chlorobenzene	2.3	U
75-00-3	Chloroethane	2.3	U
110-75-8	2-Chloroethylvinylether	2.3	U
67-66-3	Chloroform	2.3	U
74-87-3	Chloromethane	2.3	U
95-49-8	2-Chlorotoluene	2.3	U
106-43-4	4-Chlorotoluene	2.3	U
96-12-8	1,2-Dibromo-3-chloropropane	11.5	U
124-48-1	Dibromochloromethane	2.3	U
106-93-4	1,2-Dibromoethane	2.3	U
74-95-3	Dibromomethane	2.3	U
110-57-6	1,4-Dichloro-2-butene	2.3	U
95-50-1	1,2-Dichlorobenzene	2.3	U
541-73-1	1,3-Dichlorobenzene	2.3	U
106-46-7	1,4-Dichlorobenzene	2.3	U
75-71-8	Dichlorodifluoromethane	2.3	U
75-34-3	1,1-Dichloroethane	2.3	U
107-06-2	1,2-Dichloroethane	2.3	U
75-35-4	1,1-Dichloroethene	2.3	U
156-59-2	cis-1,2-Dichloroethene	2.3	U
156-60-5	trans-1,2-Dichloroethene	2.3	U
78-87-5	1,2-Dichloropropane	2.3	U
142-28-9	1,3-Dichloropropane	2.3	U
594-20-7	2,2-Dichloropropane	2.3	U
563-58-6	1,1-Dichloropropene	2.3	U

SPECIALIZED ASSAYS, INC.
2960 Foster Creighton Dr.
P.O. Box 40566
Nashville, TN 37204-0566
Phone 1-615-726-0177

Sample Identification

264716

Matrix: Soil
% Dry Weight: 87.
Units: ug/kg dry weight

Lab Sample ID: 00-A58004
Date Sampled: 4/25/00
Date Received: 4/28/00

FORM I

CAS NUMBER	ANALYTE	CONCENTRATION	FLAG
10061-01-5	cis-1,3-Dichloropropene	2.3	U
10061-02-6	trans-1,3-Dichloropropene	2.3	U
123-91-1	1,4-Dioxane	11.5	U
100-41-4	Ethylbenzene	2.3	U
97-63-2	Ethyl methacrylate	5.7	U
87-68-3	Hexachlorobutadiene	2.3	U
591-78-6	2-Hexanone	11.5	U
74-88-4	Iodomethane	2.3	U
98-82-8	Isopropylbenzene	2.3	U
99-87-6	4-Isopropyltoluene	2.3	U
108-10-1	4-Methyl-2-pentanone	11.5	U
75-09-2	Methylene chloride	5.7	U
91-20-3	Naphthalene	5.7	U
103-65-1	n-Propylbenzene	2.3	U
100-42-5	Styrene	2.3	U
630-20-6	1,1,1,2-Tetrachloroethane	2.3	U
79-34-5	1,1,2,2-Tetrachloroethane	2.3	U
127-18-4	Tetrachloroethene	2.3	U
108-88-3	Toluene	2.3	U
87-61-6	1,2,3-Trichlorobenzene	2.3	U
120-82-1	1,2,4-Trichlorobenzene	2.3	U
71-55-6	1,1,1-Trichloroethane	2.3	U
79-00-5	1,1,2-Trichloroethane	2.3	U
79-01-6	Trichloroethene	2.3	U
96-18-4	1,2,3-Trichloropropane	2.3	U
95-63-6	1,2,4-Trimethylbenzene	2.3	U
108-67-8	1,3,5-Trimethylbenzene	2.3	U
108-05-4	Vinyl acetate	11.5	U
75-01-4	Vinyl chloride	2.3	U
75-27-4	Bromodichloromethane	2.3	U
6615	o-Xylene	2.3	U
1330-20-7	m,p-Xylene	2.3	U
75-69-4	Trichlorofluoromethane	2.3	U
5998	Hexane	5.7	U

COPY 1

SPECIALIZED ASSAYS, INC.
2960 Foster Creighton Dr.
P.O. Box 40566
Nashville, TN 37204-0566
Phone 1-615-726-0177

Sample Identification

264717

Matrix: Soil
% Dry Weight: 57.
Units: ug/kg dry weight
Dilution Factor: 1.
Analysis Method: SW8260B
Delivery Group: 189955
Instrument: HP-10

Lab Sample ID: 00-A58005
Date Sampled: 4/25/00
Date Received: 4/28/00
Analysis Date: 4/30/00
Analysis Time: 1:13
Sample QC Group: 7224

FORM I

CAS NUMBER	ANALYTE	CONCENTRATION	FLAG
67-64-1	Acetone	17.5	U
107-02-8	Acrolein	17.5	U
107-13-1	Acrylonitrile	17.5	U
71-43-2	Benzene	3.5	U
108-86-1	Bromobenzene	3.5	U
74-97-5	Bromochloromethane	3.5	U
75-25-2	Bromoform	3.5	U
74-83-9	Bromomethane	3.5	U
78-93-3	2-Butanone	17.5	U
104-51-8	n-Butylbenzene	3.5	U
135-98-8	sec-Butylbenzene	3.5	U
98-06-6	t-Butylbenzene	3.5	U
75-15-0	Carbon disulfide	3.5	U
56-23-5	Carbon tetrachloride	3.5	U
108-90-7	Chlorobenzene	3.5	U
75-00-3	Chloroethane	3.5	U
110-75-8	2-Chloroethylvinylether	3.5	U
67-66-3	Chloroform	3.5	U
74-87-3	Chloromethane	3.5	U
95-49-8	2-Chlorotoluene	3.5	U
106-43-4	4-Chlorotoluene	3.5	U
96-12-8	1,2-Dibromo-3-chloropropane	17.5	U
124-48-1	Dibromochloromethane	3.5	U
106-93-4	1,2-Dibromoethane	3.5	U
74-95-3	Dibromomethane	3.5	U
110-57-6	1,4-Dichloro-2-butene	3.5	U
95-50-1	1,2-Dichlorobenzene	3.5	U
541-73-1	1,3-Dichlorobenzene	3.5	U
106-46-7	1,4-Dichlorobenzene	3.5	U
75-71-8	Dichlorodifluoromethane	3.5	U
75-34-3	1,1-Dichloroethane	3.5	U
107-06-2	1,2-Dichloroethane	3.5	U
75-35-4	1,1-Dichloroethene	3.5	U
156-59-2	cis-1,2-Dichloroethene	3.5	U
156-60-5	trans-1,2-Dichloroethene	3.5	U
78-87-5	1,2-Dichloropropane	3.5	U
142-28-9	1,3-Dichloropropane	3.5	U
594-20-7	2,2-Dichloropropane	3.5	U
563-58-6	1,1-Dichloropropene	3.5	U

SPECIALIZED ASSAYS, INC.
2960 Foster Creighton Dr.
P.O. Box 40566
Nashville, TN 37204-0566
Phone 1-615-726-0177

Sample Identification

264717

Matrix: Soil
% Dry Weight: 57.
Units: ug/kg dry weight

Lab Sample ID: 00-A58005
Date Sampled: 4/25/00
Date Received: 4/28/00

FORM I

CAS NUMBER	ANALYTE	CONCENTRATION	FLAG
10061-01-5	cis-1,3-Dichloropropene	3.5	U
10061-02-6	trans-1,3-Dichloropropene	3.5	U
123-91-1	1,4-Dioxane	17.5	U
100-41-4	Ethylbenzene	3.5	U
97-63-2	Ethyl methacrylate	8.8	U
87-68-3	Hexachlorobutadiene	3.5	U
591-78-6	2-Hexanone	17.5	U
74-88-4	Iodomethane	3.5	U
98-82-8	Isopropylbenzene	3.5	U
99-87-6	4-Isopropyltoluene	3.5	U
108-10-1	4-Methyl-2-pentanone	17.5	U
75-09-2	Methylene chloride	8.8	U
91-20-3	Naphthalene	8.8	U
103-65-1	n-Propylbenzene	3.5	U
100-42-5	Styrene	3.5	U
630-20-6	1,1,1,2-Tetrachloroethane	3.5	U
79-34-5	1,1,2,2-Tetrachloroethane	3.5	U
127-18-4	Tetrachloroethene	3.5	U
108-88-3	Toluene	3.5	U
87-61-6	1,2,3-Trichlorobenzene	3.5	U
120-82-1	1,2,4-Trichlorobenzene	3.5	U
71-55-6	1,1,1-Trichloroethane	3.5	U
79-00-5	1,1,2-Trichloroethane	3.5	U
79-01-6	Trichloroethene	3.5	U
96-18-4	1,2,3-Trichloropropane	3.5	U
95-63-6	1,2,4-Trimethylbenzene	3.5	U
108-67-8	1,3,5-Trimethylbenzene	3.5	U
108-05-4	Vinyl acetate	17.5	U
75-01-4	Vinyl chloride	3.5	U
75-27-4	Bromodichloromethane	3.5	U
6615	o-Xylene	3.5	U
1330-20-7	m,p-Xylene	3.5	U
75-69-4	Trichlorofluoromethane	3.5	U
5998	Hexane	8.8	U

COPY 1

SPECIALIZED ASSAYS, INC.
2960 Foster Creighton Dr.
P.O. Box 40566
Nashville, TN 37204-0566
Phone 1-615-726-0177

Sample Identification

264718

Matrix: Soil
% Dry Weight: 84.
Units: ug/kg dry weight
Dilution Factor: 1.
Analysis Method: SW8260B
Delivery Group: 189955
Instrument: HP-10

Lab Sample ID: 00-A58006
Date Sampled: 4/25/00
Date Received: 4/28/00
Analysis Date: 4/30/00
Analysis Time: 1:50
Sample QC Group: 7224

FORM I

CAS NUMBER	ANALYTE	CONCENTRATION	FLAG
67-64-1	Acetone	11.9	U
107-02-8	Acrolein	11.9	U
107-13-1	Acrylonitrile	11.9	U
71-43-2	Benzene	2.4	U
108-86-1	Bromobenzene	2.4	U
74-97-5	Bromochloromethane	2.4	U
75-25-2	Bromoform	2.4	U
74-83-9	Bromomethane	2.4	U
78-93-3	2-Butanone	11.9	U
104-51-8	n-Butylbenzene	2.4	U
135-98-8	sec-Butylbenzene	2.4	U
98-06-6	t-Butylbenzene	2.4	U
75-15-0	Carbon disulfide	2.4	U
56-23-5	Carbon tetrachloride	2.4	U
108-90-7	Chlorobenzene	2.4	U
75-00-3	Chloroethane	2.4	U
110-75-8	2-Chloroethylvinylether	2.4	U
67-66-3	Chloroform	2.4	U
74-87-3	Chloromethane	2.4	U
95-49-8	2-Chlorotoluene	2.4	U
106-43-4	4-Chlorotoluene	2.4	U
96-12-8	1,2-Dibromo-3-chloropropane	11.9	U
124-48-1	Dibromochloromethane	2.4	U
106-93-4	1,2-Dibromoethane	2.4	U
74-95-3	Dibromomethane	2.4	U
110-57-6	1,4-Dichloro-2-butene	2.4	U
95-50-1	1,2-Dichlorobenzene	2.4	U
541-73-1	1,3-Dichlorobenzene	2.4	U
106-46-7	1,4-Dichlorobenzene	2.4	U
75-71-8	Dichlorodifluoromethane	2.4	U
75-34-3	1,1-Dichloroethane	2.4	U
107-06-2	1,2-Dichloroethane	2.4	U
75-35-4	1,1-Dichloroethene	2.4	U
156-59-2	cis-1,2-Dichloroethene	2.4	U
156-60-5	trans-1,2-Dichloroethene	2.4	U
78-87-5	1,2-Dichloropropane	2.4	U
142-28-9	1,3-Dichloropropane	2.4	U
594-20-7	2,2-Dichloropropane	2.4	U
563-58-6	1,1-Dichloropropene	2.4	U

SPECIALIZED ASSAYS, INC.
2960 Foster Creighton Dr.
P.O. Box 40566
Nashville, TN 37204-0566
Phone 1-615-726-0177

Sample Identification

264718

Matrix: Soil
% Dry Weight: 84.
Units: ug/kg dry weight

Lab Sample ID: 00-A58006
Date Sampled: 4/25/00
Date Received: 4/28/00

FORM I

CAS NUMBER	ANALYTE	CONCENTRATION	FLAG
10061-01-5	cis-1,3-Dichloropropene	2.4	U
10061-02-6	trans-1,3-Dichloropropene	2.4	U
123-91-1	1,4-Dioxane	11.9	U
100-41-4	Ethylbenzene	2.4	U
97-63-2	Ethyl methacrylate	6.0	U
87-68-3	Hexachlorobutadiene	2.4	U
591-78-6	2-Hexanone	11.9	U
74-88-4	Iodomethane	2.4	U
98-82-8	Isopropylbenzene	2.4	U
99-87-6	4-Isopropyltoluene	2.4	U
108-10-1	4-Methyl-2-pentanone	11.9	U
75-09-2	Methylene chloride	6.0	U
91-20-3	Naphthalene	6.0	U
103-65-1	n-Propylbenzene	2.4	U
100-42-5	Styrene	2.4	U
630-20-6	1,1,1,2-Tetrachloroethane	2.4	U
79-34-5	1,1,2,2-Tetrachloroethane	2.4	U
127-18-4	Tetrachloroethene	2.4	U
108-88-3	Toluene	2.4	U
87-61-6	1,2,3-Trichlorobenzene	2.4	U
120-82-1	1,2,4-Trichlorobenzene	2.4	U
71-55-6	1,1,1-Trichloroethane	2.4	U
79-00-5	1,1,2-Trichloroethane	2.4	U
79-01-6	Trichloroethene	2.4	U
96-18-4	1,2,3-Trichloropropane	2.4	U
95-63-6	1,2,4-Trimethylbenzene	2.4	U
108-67-8	1,3,5-Trimethylbenzene	2.4	U
108-05-4	Vinyl acetate	11.9	U
75-01-4	Vinyl chloride	2.4	U
75-27-4	Bromodichloromethane	2.4	U
6615	o-Xylene	2.4	U
1330-20-7	m,p-Xylene	2.4	U
75-69-4	Trichlorofluoromethane	2.4	U
5998	Hexane	6.0	U

COPY 1

SPECIALIZED ASSAYS, INC.
2960 Foster Creighton Dr.
P.O. Box 40566
Nashville, TN 37204-0566
Phone 1-615-726-0177

Sample Identification

264719

Matrix: Soil
% Dry Weight: 81.
Units: ug/kg dry weight
Dilution Factor: 1.
Analysis Method: SW8260B
Delivery Group: 189933
Instrument: HP-10

Lab Sample ID: 00-A58007
Date Sampled: 4/23/00
Date Received: 4/28/00
Analysis Date: 5/ 1/00
Analysis Time: 13:51
Sample QC Group: 7224

FORM I

CAS NUMBER	ANALYTE	CONCENTRATION	FLAG
67-64-1	Acetone	12.3	U
107-02-8	Acrolein	12.3	U
107-13-1	Acrylonitrile	12.3	U
71-43-2	Benzene	2.5	U
108-86-1	Bromobenzene	2.5	U
74-97-5	Bromochloromethane	2.5	U
75-25-2	Bromoform	2.5	U
74-83-9	Bromomethane	2.5	U
78-93-3	2-Butanone	12.3	U
104-51-8	n-Butylbenzene	2.5	U
135-98-8	sec-Butylbenzene	2.5	U
98-06-6	t-Butylbenzene	2.5	U
75-15-0	Carbon disulfide	2.5	U
56-23-5	Carbon tetrachloride	2.5	U
108-90-7	Chlorobenzene	2.5	U
75-00-3	Chloroethane	2.5	U
110-75-8	2-Chloroethylvinylether	2.5	U
67-66-3	Chloroform	2.5	U
74-87-3	Chloromethane	2.5	U
95-49-8	2-Chlorotoluene	2.5	U
106-43-4	4-Chlorotoluene	2.5	U
96-12-8	1,2-Dibromo-3-chloropropane	12.3	U
124-48-1	Dibromochloromethane	2.5	U
106-93-4	1,2-Dibromoethane	2.5	U
74-95-3	Dibromomethane	2.5	U
110-57-6	1,4-Dichloro-2-butene	2.5	U
95-50-1	1,2-Dichlorobenzene	2.5	U
541-73-1	1,3-Dichlorobenzene	2.5	U
106-46-7	1,4-Dichlorobenzene	2.5	U
75-71-8	Dichlorodifluoromethane	2.5	U
75-34-3	1,1-Dichloroethane	2.5	U
107-06-2	1,2-Dichloroethane	2.5	U
75-35-4	1,1-Dichloroethene	2.5	U
156-59-2	cis-1,2-Dichloroethene	2.5	U
156-60-5	trans-1,2-Dichloroethene	2.5	U
78-87-5	1,2-Dichloropropane	2.5	U
142-28-9	1,3-Dichloropropane	2.5	U
594-20-7	2,2-Dichloropropane	2.5	U
563-58-6	1,1-Dichloropropene	2.5	U

SPECIALIZED ASSAYS, INC.
2960 Foster Creighton Dr.
P.O. Box 40566
Nashville, TN 37204-0566
Phone 1-615-726-0177

Sample Identification

264719

Matrix: Soil
% Dry Weight: 81.
Units: ug/kg dry weight

Lab Sample ID: 00-A58007
Date Sampled: 4/25/00
Date Received: 4/28/00

FORM I

CAS NUMBER	ANALYTE	CONCENTRATION	FLAG
10061-01-5	cis-1,3-Dichloropropene	2.5	U
10061-02-6	trans-1,3-Dichloropropene	2.5	U
123-91-1	1,4-Dioxane	12.3	U
100-41-4	Ethylbenzene	2.5	U
97-63-2	Ethyl methacrylate	6.2	U
87-68-3	Hexachlorobutadiene	2.5	U
591-78-6	2-Hexanone	12.3	U
74-88-4	Iodomethane	2.5	U
98-82-8	Isopropylbenzene	2.5	U
99-87-6	4-Isopropyltoluene	2.5	U
108-10-1	4-Methyl-2-pentanone	12.3	U
75-09-2	Methylene chloride	6.2	U
91-20-3	Naphthalene	6.2	U
103-65-1	n-Propylbenzene	2.5	U
100-42-5	Styrene	2.5	U
630-20-6	1,1,1,2-Tetrachloroethane	2.5	U
79-34-5	1,1,2,2-Tetrachloroethane	2.5	U
127-18-4	Tetrachloroethene	2.5	U
108-88-3	Toluene	2.5	U
87-61-6	1,2,3-Trichlorobenzene	2.5	U
120-82-1	1,2,4-Trichlorobenzene	2.5	U
71-55-6	1,1,1-Trichloroethane	2.5	U
79-00-5	1,1,2-Trichloroethane	2.5	U
79-01-6	Trichloroethene	2.5	U
96-18-4	1,2,3-Trichloropropane	2.5	U
95-63-6	1,2,4-Trimethylbenzene	2.5	U
108-67-8	1,3,5-Trimethylbenzene	2.5	U
108-05-4	Vinyl acetate	12.3	U
75-01-4	Vinyl chloride	2.5	U
75-27-4	Bromodichloromethane	2.5	U
6615	o-Xylene	2.5	U
1330-20-7	m,p-Xylene	2.5	U
75-69-4	Trichlorofluoromethane	2.5	U
5998	Hexane	6.2	U

COPY 1

SPECIALIZED ASSAYS, INC.
2960 Foster Creighton Dr.
P.O. Box 40566
Nashville, TN 37204-0566
Phone 1-615-726-0177

Sample Identification

264720

Matrix: Soil
% Dry Weight: 84.
Units: ug/kg dry weight
Dilution Factor: 1.
Analysis Method: SW8260B
Delivery Group: 187933
Instrument: HP-10

Lab Sample ID: 00-A58008
Date Sampled: 4/25/00
Date Received: 4/28/00
Analysis Date: 4/30/00
Analysis Time: 3:03
Sample QC Group: 7224

FORM I

CAS NUMBER	ANALYTE	CONCENTRATION	FLAG
67-64-1	Acetone	11.9	U
107-02-8	Acrolein	11.9	U
107-13-1	Acrylonitrile	11.9	U
71-43-2	Benzene	2.4	U
108-86-1	Bromobenzene	2.4	U
74-97-5	Bromochloromethane	2.4	U
75-25-2	Bromoform	2.4	U
74-83-9	Bromomethane	2.4	U
78-93-3	2-Butanone	11.9	U
104-51-8	n-Butylbenzene	2.4	U
135-98-8	sec-Butylbenzene	2.4	U
98-06-6	t-Butylbenzene	2.4	U
75-15-0	Carbon disulfide	2.4	U
56-23-5	Carbon tetrachloride	2.4	U
108-90-7	Chlorobenzene	2.4	U
75-00-3	Chloroethane	2.4	U
110-75-8	2-Chloroethylvinylether	2.4	U
67-66-3	Chloroform	2.4	U
74-87-3	Chloromethane	2.4	U
95-49-8	2-Chlorotoluene	2.4	U
106-43-4	4-Chlorotoluene	2.4	U
96-12-8	1,2-Dibromo-3-chloropropane	11.9	U
124-48-1	Dibromochloromethane	2.4	U
106-93-4	1,2-Dibromoethane	2.4	U
74-95-3	Dibromomethane	2.4	U
110-57-6	1,4-Dichloro-2-butene	2.4	U
95-50-1	1,2-Dichlorobenzene	2.4	U
541-73-1	1,3-Dichlorobenzene	2.4	U
106-46-7	1,4-Dichlorobenzene	2.4	U
75-71-8	Dichlorodifluoromethane	2.4	U
75-34-3	1,1-Dichloroethane	2.4	U
107-06-2	1,2-Dichloroethane	2.4	U
75-35-4	1,1-Dichloroethene	2.4	U
156-59-2	cis-1,2-Dichloroethene	2.4	U
156-60-5	trans-1,2-Dichloroethene	2.4	U
78-87-5	1,2-Dichloropropane	2.4	U
142-28-9	1,3-Dichloropropane	2.4	U
594-20-7	2,2-Dichloropropane	2.4	U
563-58-6	1,1-Dichloropropene	2.4	U

SPECIALIZED ASSAYS, INC.
2960 Foster Creighton Dr.
P.O. Box 40566
Nashville, TN 37204-0566
Phone 1-615-726-0177

Sample Identification

264720

Matrix: Soil
% Dry Weight: 84.
Units: ug/kg dry weight

Lab Sample ID: 00-A58008
Date Sampled: 4/25/00
Date Received: 4/28/00

FORM I

CAS NUMBER	ANALYTE	CONCENTRATION	FLAG
10061-01-5	cis-1,3-Dichloropropene	2.4	U
10061-02-6	trans-1,3-Dichloropropene	2.4	U
123-91-1	1,4-Dioxane	11.9	U
100-41-4	Ethylbenzene	2.4	U
97-63-2	Ethyl methacrylate	6.0	U
87-68-3	Hexachlorobutadiene	2.4	U
591-78-6	2-Hexanone	11.9	U
74-88-4	Iodomethane	2.4	U
98-82-8	Isopropylbenzene	2.4	U
99-87-6	4-Isopropyltoluene	2.4	U
108-10-1	4-Methyl-2-pentanone	11.9	U
75-09-2	Methylene chloride	6.0	U
91-20-3	Naphthalene	6.0	U
103-65-1	n-Propylbenzene	2.4	U
100-42-5	Styrene	2.4	U
630-20-6	1,1,1,2-Tetrachloroethane	2.4	U
79-34-5	1,1,2,2-Tetrachloroethane	2.4	U
127-18-4	Tetrachloroethene	2.4	U
108-88-3	Toluene	2.4	U
87-61-6	1,2,3-Trichlorobenzene	2.4	U
120-82-1	1,2,4-Trichlorobenzene	2.4	U
71-55-6	1,1,1-Trichloroethane	2.4	U
79-00-5	1,1,2-Trichloroethane	2.4	U
79-01-6	Trichloroethene	2.4	U
96-18-4	1,2,3-Trichloropropane	2.4	U
95-63-6	1,2,4-Trimethylbenzene	2.4	U
108-67-8	1,3,5-Trimethylbenzene	2.4	U
108-05-4	Vinyl acetate	11.9	U
75-01-4	Vinyl chloride	2.4	U
75-27-4	Bromodichloromethane	2.4	U
6615	o-Xylene	2.4	U
1330-20-7	m,p-Xylene	2.4	U
75-69-4	Trichlorofluoromethane	2.4	U
5998	Hexane	6.0	U

SPECIALIZED ASSAYS, INC.
2960 Foster Creighton Dr.
P.O. Box 40566
Nashville, TN 37204-0566
Phone 1-615-726-0177

Sample Identification

264721

Matrix: Soil
% Dry Weight: 84.
Units: ug/kg dry weight
Dilution Factor: 1.
Analysis Method: SW8260B
Delivery Group: 187933
Instrument: HP-10

Lab Sample ID: 00-A58009
Date Sampled: 4/25/00
Date Received: 4/28/00
Analysis Date: 5/ 1/00
Analysis Time: 13:04
Sample QC Group: 7224

FORM I

CAS NUMBER	ANALYTE	CONCENTRATION	FLAG
67-64-1	Acetone	11.9	U
107-02-8	Acrolein	11.9	U
107-13-1	Acrylonitrile	11.9	U
71-43-2	Benzene	2.4	U
108-86-1	Bromobenzene	2.4	U
74-97-5	Bromochloromethane	2.4	U
75-25-2	Bromoform	2.4	U
74-83-9	Bromomethane	2.4	U
78-93-3	2-Butanone	11.9	U
104-51-8	n-Butylbenzene	2.4	U
135-98-8	sec-Butylbenzene	2.4	U
98-06-6	t-Butylbenzene	2.4	U
75-15-0	Carbon disulfide	2.4	U
56-23-5	Carbon tetrachloride	2.4	U
108-90-7	Chlorobenzene	2.4	U
75-00-3	Chloroethane	2.4	U
110-75-8	2-Chloroethylvinylether	2.4	U
67-66-3	Chloroform	2.4	U
74-87-3	Chloromethane	2.4	U
95-49-8	2-Chlorotoluene	2.4	U
106-43-4	4-Chlorotoluene	2.4	U
96-12-8	1,2-Dibromo-3-chloropropane	11.9	U
124-48-1	Dibromochloromethane	2.4	U
106-93-4	1,2-Dibromoethane	2.4	U
74-95-3	Dibromomethane	2.4	U
110-57-6	1,4-Dichloro-2-butene	2.4	U
95-50-1	1,2-Dichlorobenzene	2.4	U
541-73-1	1,3-Dichlorobenzene	2.4	U
106-46-7	1,4-Dichlorobenzene	2.4	U
75-71-8	Dichlorodifluoromethane	2.4	U
75-34-3	1,1-Dichloroethane	2.4	U
107-06-2	1,2-Dichloroethane	2.4	U
75-35-4	1,1-Dichloroethene	2.4	U
156-59-2	cis-1,2-Dichloroethene	2.4	U
156-60-5	trans-1,2-Dichloroethene	2.4	U
78-87-5	1,2-Dichloropropane	2.4	U
142-28-9	1,3-Dichloropropane	2.4	U
594-20-7	2,2-Dichloropropane	2.4	U
563-58-6	1,1-Dichloropropene	2.4	U

COPY 1

SPECIALIZED ASSAYS, INC.
2960 Foster Creighton Dr.
P.O. Box 40566
Nashville, TN 37204-0566
Phone 1-615-726-0177

Sample Identification

264721

Matrix: Soil
% Dry Weight: 84.
Units: ug/kg dry weight

Lab Sample ID: 00-A58009
Date Sampled: 4/25/00
Date Received: 4/28/00

FORM I

CAS NUMBER	ANALYTE	CONCENTRATION	FLAG
10061-01-5	cis-1,3-Dichloropropene	2.4	U
10061-02-6	trans-1,3-Dichloropropene	2.4	U
123-91-1	1,4-Dioxane	11.9	U
100-41-4	Ethylbenzene	2.4	U
97-63-2	Ethyl methacrylate	6.0	U
87-68-3	Hexachlorobutadiene	2.4	U
591-78-6	2-Hexanone	11.9	U
74-88-4	Iodomethane	2.4	U
98-82-8	Isopropylbenzene	2.4	U
99-87-6	4-Isopropyltoluene	2.4	U
108-10-1	4-Methyl-2-pentanone	11.9	U
75-09-2	Methylene chloride	6.0	U
91-20-3	Naphthalene	6.0	U
103-65-1	n-Propylbenzene	2.4	U
100-42-5	Styrene	2.4	U
630-20-6	1,1,1,2-Tetrachloroethane	2.4	U
79-34-5	1,1,2,2-Tetrachloroethane	2.4	U
127-18-4	Tetrachloroethene	2.4	U
108-88-3	Toluene	2.4	U
87-61-6	1,2,3-Trichlorobenzene	2.4	U
120-82-1	1,2,4-Trichlorobenzene	2.4	U
71-55-6	1,1,1-Trichloroethane	2.4	U
79-00-5	1,1,2-Trichloroethane	2.4	U
79-01-6	Trichloroethene	2.4	U
96-18-4	1,2,3-Trichloropropane	2.4	U
95-63-6	1,2,4-Trimethylbenzene	2.4	U
108-67-8	1,3,5-Trimethylbenzene	2.4	U
108-05-4	Vinyl acetate	11.9	U
75-01-4	Vinyl chloride	2.4	U
75-27-4	Bromodichloromethane	2.4	U
6615	o-Xylene	2.4	U
1330-20-7	m,p-Xylene	2.4	U
75-69-4	Trichlorofluoromethane	2.4	U
5998	Hexane	6.0	U

COPY 1

SPECIALIZED ASSAYS, INC.
2960 Foster Creighton Dr.
P.O. Box 40566
Nashville, TN 37204-0566
Phone 1-615-726-0177

Sample Identification

264722

Matrix: Soil
% Dry Weight: 86.
Units: ug/kg dry weight
Dilution Factor: 1.
Analysis Method: SW8260B
Delivery Group: 189755
Instrument: HP-10

Lab Sample ID: 00-A58010
Date Sampled: 4/25/00
Date Received: 4/28/00
Analysis Date: 4/30/00
Analysis Time: 4:16
Sample QC Group: 7224

FORM I

CAS NUMBER	ANALYTE	CONCENTRATION	FLAG
67-64-1	Acetone	11.6	U
107-02-8	Acrolein	11.6	U
107-13-1	Acrylonitrile	11.6	U
71-43-2	Benzene	2.3	U
108-86-1	Bromobenzene	2.3	U
74-97-5	Bromochloromethane	2.3	U
75-25-2	Bromoform	2.3	U
74-83-9	Bromomethane	2.3	U
78-93-3	2-Butanone	11.6	U
104-51-8	n-Butylbenzene	2.3	U
135-98-8	sec-Butylbenzene	2.3	U
98-06-6	t-Butylbenzene	2.3	U
75-15-0	Carbon disulfide	2.3	U
56-23-5	Carbon tetrachloride	2.3	U
108-90-7	Chlorobenzene	2.3	U
75-00-3	Chloroethane	2.3	U
110-75-8	2-Chloroethylvinylether	2.3	U
67-66-3	Chloroform	2.3	U
74-87-3	Chloromethane	2.3	U
95-49-8	2-Chlorotoluene	2.3	U
106-43-4	4-Chlorotoluene	2.3	U
96-12-8	1,2-Dibromo-3-chloropropane	11.6	U
124-48-1	Dibromochloromethane	2.3	U
106-93-4	1,2-Dibromoethane	2.3	U
74-95-3	Dibromomethane	2.3	U
110-57-6	1,4-Dichloro-2-butene	2.3	U
95-50-1	1,2-Dichlorobenzene	2.3	U
541-73-1	1,3-Dichlorobenzene	2.3	U
106-46-7	1,4-Dichlorobenzene	2.3	U
75-71-8	Dichlorodifluoromethane	2.3	U
75-34-3	1,1-Dichloroethane	2.3	U
107-06-2	1,2-Dichloroethane	2.3	U
75-35-4	1,1-Dichloroethene	2.3	U
156-59-2	cis-1,2-Dichloroethene	2.3	U
156-60-5	trans-1,2-Dichloroethene	2.3	U
78-87-5	1,2-Dichloropropane	2.3	U
142-28-9	1,3-Dichloropropane	2.3	U
594-20-7	2,2-Dichloropropane	2.3	U
563-58-6	1,1-Dichloropropene	2.3	U

SPECIALIZED ASSAYS, INC.
2960 Foster Creighton Dr.
P.O. Box 40566
Nashville, TN 37204-0566
Phone 1-615-726-0177

Sample Identification

264722

Matrix: Soil
% Dry Weight: 86.
Units: ug/kg dry weight

Lab Sample ID: 00-A58010
Date Sampled: 4/25/00
Date Received: 4/28/00

FORM I

CAS NUMBER	ANALYTE	CONCENTRATION	FLAG
10061-01-5	cis-1,3-Dichloropropene	2.3	U
10061-02-6	trans-1,3-Dichloropropene	2.3	U
123-91-1	1,4-Dioxane	11.6	U
100-41-4	Ethylbenzene	2.3	U
97-63-2	Ethyl methacrylate	5.8	U
87-68-3	Hexachlorobutadiene	2.3	U
591-78-6	2-Hexanone	11.6	U
74-88-4	Iodomethane	2.3	U
98-82-8	Isopropylbenzene	2.3	U
99-87-6	4-Isopropyltoluene	2.3	U
108-10-1	4-Methyl-2-pentanone	11.6	U
75-09-2	Methylene chloride	5.8	U
91-20-3	Naphthalene	5.8	U
103-65-1	n-Propylbenzene	2.3	U
100-42-5	Styrene	2.3	U
630-20-6	1,1,1,2-Tetrachloroethane	2.3	U
79-34-5	1,1,2,2-Tetrachloroethane	2.3	U
127-18-4	Tetrachloroethene	2.3	U
108-88-3	Toluene	2.3	U
87-61-6	1,2,3-Trichlorobenzene	2.3	U
120-82-1	1,2,4-Trichlorobenzene	2.3	U
71-55-6	1,1,1-Trichloroethane	2.3	U
79-00-5	1,1,2-Trichloroethane	2.3	U
79-01-6	Trichloroethene	2.3	U
96-18-4	1,2,3-Trichloropropane	2.3	U
95-63-6	1,2,4-Trimethylbenzene	2.3	U
108-67-8	1,3,5-Trimethylbenzene	2.3	U
108-05-4	Vinyl acetate	11.6	U
75-01-4	Vinyl chloride	2.3	U
75-27-4	Bromodichloromethane	2.3	U
6615	o-Xylene	2.3	U
1330-20-7	m,p-Xylene	2.3	U
75-69-4	Trichlorofluoromethane	2.3	U
5998	Hexane	5.8	U

SPECIALIZED ASSAYS, INC.
2960 Foster Creighton Dr.
P.O. Box 40566
Nashville, TN 37204-0566
Phone 1-615-726-0177

Sample Identification

264723

Matrix: Soil
% Dry Weight: 67.
Units: ug/kg dry weight
Dilution Factor: 1.
Analysis Method: SW8260B
Delivery Group: 189753
Instrument: HP-10

Lab Sample ID: 00-A58011
Date Sampled: 4/25/00
Date Received: 4/28/00
Analysis Date: 4/30/00
Analysis Time: 4:53
Sample QC Group: 7224

FORM I

CAS NUMBER	ANALYTE	CONCENTRATION	FLAG
67-64-1	Acetone	11.5	U
107-02-8	Acrolein	11.5	U
107-13-1	Acrylonitrile	11.5	U
71-43-2	Benzene	2.3	U
108-86-1	Bromobenzene	2.3	U
74-97-5	Bromochloromethane	2.3	U
75-25-2	Bromoform	2.3	U
74-83-9	Bromomethane	2.3	U
78-93-3	2-Butanone	11.5	U
104-51-8	n-Butylbenzene	2.3	U
135-98-8	sec-Butylbenzene	2.3	U
98-06-6	t-Butylbenzene	2.3	U
75-15-0	Carbon disulfide	2.3	U
56-23-5	Carbon tetrachloride	2.3	U
108-90-7	Chlorobenzene	2.3	U
75-00-3	Chloroethane	2.3	U
110-75-8	2-Chloroethylvinylether	2.3	U
67-66-3	Chloroform	2.3	U
74-87-3	Chloromethane	2.3	U
95-49-8	2-Chlorotoluene	2.3	U
106-43-4	4-Chlorotoluene	2.3	U
96-12-8	1,2-Dibromo-3-chloropropane	11.5	U
124-48-1	Dibromochloromethane	2.3	U
106-93-4	1,2-Dibromoethane	2.3	U
74-95-3	Dibromomethane	2.3	U
110-57-6	1,4-Dichloro-2-butene	2.3	U
95-50-1	1,2-Dichlorobenzene	2.3	U
541-73-1	1,3-Dichlorobenzene	2.3	U
106-46-7	1,4-Dichlorobenzene	2.3	U
75-71-8	Dichlorodifluoromethane	2.3	U
75-34-3	1,1-Dichloroethane	2.3	U
107-06-2	1,2-Dichloroethane	2.3	U
75-35-4	1,1-Dichloroethene	2.3	U
156-59-2	cis-1,2-Dichloroethene	2.3	U
156-60-5	trans-1,2-Dichloroethene	2.3	U
78-87-5	1,2-Dichloropropane	2.3	U
142-28-9	1,3-Dichloropropane	2.3	U
594-20-7	2,2-Dichloropropane	2.3	U
563-58-6	1,1-Dichloropropene	2.3	U

SPECIALIZED ASSAYS, INC.
2960 Foster Creighton Dr.
P.O. Box 40566
Nashville, TN 37204-0566
Phone 1-615-726-0177

Sample Identification

264723

Matrix: Soil
% Dry Weight: 87.
Units: ug/kg dry weight

Lab Sample ID: 00-A58011
Date Sampled: 4/25/00
Date Received: 4/28/00

FORM I

CAS NUMBER	ANALYTE	CONCENTRATION	FLAG
10061-01-5	cis-1,3-Dichloropropene	2.3	U
10061-02-6	trans-1,3-Dichloropropene	2.3	U
123-91-1	1,4-Dioxane	11.5	U
100-41-4	Ethylbenzene	2.3	U
97-63-2	Ethyl methacrylate	5.7	U
87-68-3	Hexachlorobutadiene	2.3	U
591-78-6	2-Hexanone	11.5	U
74-88-4	Iodomethane	2.3	U
98-82-8	Isopropylbenzene	2.3	U
99-87-6	4-Isopropyltoluene	2.3	U
108-10-1	4-Methyl-2-pentanone	11.5	U
75-09-2	Methylene chloride	5.7	U
91-20-3	Naphthalene	5.7	U
103-65-1	n-Propylbenzene	2.3	U
100-42-5	Styrene	2.3	U
630-20-6	1,1,1,2-Tetrachloroethane	2.3	U
79-34-5	1,1,2,2-Tetrachloroethane	2.3	U
127-18-4	Tetrachloroethene	2.3	U
108-88-3	Toluene	2.3	U
87-61-6	1,2,3-Trichlorobenzene	2.3	U
120-82-1	1,2,4-Trichlorobenzene	2.3	U
71-55-6	1,1,1-Trichloroethane	2.3	U
79-00-5	1,1,2-Trichloroethane	2.3	U
79-01-6	Trichloroethene	2.3	U
96-18-4	1,2,3-Trichloropropane	2.3	U
95-63-6	1,2,4-Trimethylbenzene	2.3	U
108-67-8	1,3,5-Trimethylbenzene	2.3	U
108-05-4	Vinyl acetate	11.5	U
75-01-4	Vinyl chloride	2.3	U
75-27-4	Bromodichloromethane	2.3	U
6615	o-Xylene	2.3	U
1330-20-7	m,p-Xylene	2.3	U
75-69-4	Trichlorofluoromethane	2.3	U
5998	Hexane	5.7	U

COPY 1

SPECIALIZED ASSAYS, INC.
2960 Foster Creighton Dr.
P.O. Box 40566
Nashville, TN 37204-0566
Phone 1-615-726-0177

Sample Identification

264724

Matrix: Soil
% Dry Weight: 81.
Units: ug/kg dry weight

Lab Sample ID: 00-A58012
Date Sampled: 4/25/00
Date Received: 4/28/00

FORM I

CAS NUMBER	ANALYTE	CONCENTRATION	FLAG
10061-01-5	cis-1,3-Dichloropropene	2.5	U
10061-02-6	trans-1,3-Dichloropropene	2.5	U
123-91-1	1,4-Dioxane	12.3	U
100-41-4	Ethylbenzene	2.5	U
97-63-2	Ethyl methacrylate	6.2	U
87-68-3	Hexachlorobutadiene	2.5	U
591-78-6	2-Hexanone	12.3	U
74-88-4	Iodomethane	2.5	U
98-82-8	Isopropylbenzene	2.5	U
99-87-6	4-Isopropyltoluene	2.5	U
108-10-1	4-Methyl-2-pentanone	12.3	U
75-09-2	Methylene chloride	6.2	U
91-20-3	Naphthalene	6.2	U
103-65-1	n-Propylbenzene	2.5	U
100-42-5	Styrene	2.5	U
630-20-6	1,1,1,2-Tetrachloroethane	2.5	U
79-34-5	1,1,2,2-Tetrachloroethane	2.5	U
127-18-4	Tetrachloroethene	2.5	U
108-88-3	Toluene	2.5	U
87-61-6	1,2,3-Trichlorobenzene	2.5	U
120-82-1	1,2,4-Trichlorobenzene	2.5	U
71-55-6	1,1,1-Trichloroethane	2.5	U
79-00-5	1,1,2-Trichloroethane	2.5	U
79-01-6	Trichloroethene	2.5	U
96-18-4	1,2,3-Trichloropropane	2.5	U
95-63-6	1,2,4-Trimethylbenzene	2.5	U
108-67-8	1,3,5-Trimethylbenzene	2.5	U
108-05-4	Vinyl acetate	12.3	U
75-01-4	Vinyl chloride	2.5	U
75-27-4	Bromodichloromethane	2.5	U
6615	o-Xylene	2.5	U
1330-20-7	m,p-Xylene	2.5	U
75-69-4	Trichlorofluoromethane	2.5	U
5998	Hexane	6.2	U

SPECIALIZED ASSAYS, INC.
2960 Foster Creighton Dr.
P.O. Box 40566
Nashville, TN 37204-0566
Phone 1-615-726-0177

Sample Identification

264725

Matrix: Soil
% Dry Weight: 57.
Units: ug/kg dry weight
Dilution Factor: 1.
Analysis Method: SW8260B
Delivery Group: 187755
Instrument: HP-10

Lab Sample ID: 00-A58013
Date Sampled: 4/25/00
Date Received: 4/28/00
Analysis Date: 4/30/00
Analysis Time: 6:06
Sample QC Group: 7224

FORM I

CAS NUMBER	ANALYTE	CONCENTRATION	FLAG
67-64-1	Acetone	18.9	
107-02-8	Acrolein	17.5	U
107-13-1	Acrylonitrile	17.5	U
71-43-2	Benzene	3.5	U
108-86-1	Bromobenzene	3.5	U
74-97-5	Bromochloromethane	3.5	U
75-25-2	Bromoform	3.5	U
74-83-9	Bromomethane	3.5	U
78-93-3	2-Butanone	17.5	U
104-51-8	n-Butylbenzene	3.5	U
135-98-8	sec-Butylbenzene	3.5	U
98-06-6	t-Butylbenzene	3.5	U
75-15-0	Carbon disulfide	3.5	U
56-23-5	Carbon tetrachloride	3.5	U
108-90-7	Chlorobenzene	3.5	U
75-00-3	Chloroethane	3.5	U
110-75-8	2-Chloroethylvinylether	3.5	U
67-66-3	Chloroform	3.5	U
74-87-3	Chloromethane	3.5	U
95-49-8	2-Chlorotoluene	3.5	U
106-43-4	4-Chlorotoluene	3.5	U
96-12-8	1,2-Dibromo-3-chloropropane	17.5	U
124-48-1	Dibromochloromethane	3.5	U
106-93-4	1,2-Dibromoethane	3.5	U
74-95-3	Dibromomethane	3.5	U
110-57-6	1,4-Dichloro-2-butene	3.5	U
95-50-1	1,2-Dichlorobenzene	3.5	U
541-73-1	1,3-Dichlorobenzene	3.5	U
106-46-7	1,4-Dichlorobenzene	3.5	U
75-71-8	Dichlorodifluoromethane	3.5	U
75-34-3	1,1-Dichloroethane	3.5	U
107-06-2	1,2-Dichloroethane	3.5	U
75-35-4	1,1-Dichloroethene	3.5	U
156-59-2	cis-1,2-Dichloroethene	3.5	U
156-60-3	trans-1,2-Dichloroethene	3.5	U
78-87-5	1,2-Dichloropropane	3.5	U
142-28-9	1,3-Dichloropropane	3.5	U
594-20-7	2,2-Dichloropropane	3.5	U
563-58-6	1,1-Dichloropropene	3.5	U

SPECIALIZED ASSAYS, INC.
2960 Foster Creighton Dr.
P.O. Box 40566
Nashville, TN 37204-0566
Phone 1-615-726-0177

Sample Identification

264725

Matrix: Soil
% Dry Weight: 57.
Units: ug/kg dry weight

Lab Sample ID: 00-A58013
Date Sampled: 4/25/00
Date Received: 4/28/00

FORM I

CAS NUMBER	ANALYTE	CONCENTRATION	FLAG
10061-01-5	cis-1,3-Dichloropropene	3.5	U
10061-02-6	trans-1,3-Dichloropropene	3.5	U
123-91-1	1,4-Dioxane	17.5	U
100-41-4	Ethylbenzene	3.5	U
97-63-2	Ethyl methacrylate	8.8	U
87-68-3	Hexachlorobutadiene	3.5	U
591-78-6	2-Hexanone	17.5	U
74-88-4	Iodomethane	3.5	U
98-82-8	Isopropylbenzene	3.5	U
99-87-6	4-Isopropyltoluene	3.5	U
108-10-1	4-Methyl-2-pentanone	17.5	U
75-09-2	Methylene chloride	8.8	U
91-20-3	Naphthalene	8.8	U
103-65-1	n-Propylbenzene	3.5	U
100-42-5	Styrene	3.5	U
630-20-6	1,1,1,2-Tetrachloroethane	3.5	U
79-34-5	1,1,2,2-Tetrachloroethane	3.5	U
127-18-4	Tetrachloroethene	3.5	U
108-88-3	Toluene	3.5	U
87-61-6	1,2,3-Trichlorobenzene	3.5	U
120-82-1	1,2,4-Trichlorobenzene	3.5	U
71-55-6	1,1,1-Trichloroethane	3.5	U
79-00-5	1,1,2-Trichloroethane	3.5	U
79-01-6	Trichloroethene	3.5	U
96-18-4	1,2,3-Trichloropropane	3.5	U
95-63-6	1,2,4-Trimethylbenzene	3.5	U
108-67-8	1,3,5-Trimethylbenzene	3.5	U
108-05-4	Vinyl acetate	17.5	U
75-01-4	Vinyl chloride	3.5	U
75-27-4	Bromodichloromethane	3.5	U
6615	o-Xylene	3.5	U
1330-20-7	m,p-Xylene	3.5	U
75-69-4	Trichlorofluoromethane	3.5	U
5998	Hexane	8.8	U

COPY 1

SPECIALIZED ASSAYS, INC.
2960 Foster Creighton Dr.
P.O. Box 40566
Nashville, TN 37204-0566
Phone 1-615-726-0177

Sample Identification

264726

Matrix: Soil
% Dry Weight: 72.
Units: ug/kg dry weight
Dilution Factor: 1.
Analysis Method: SW8260B
Delivery Group: 187955
Instrument: HP-10

Lab Sample ID: 00-A58073
Date Sampled: 4/25/00
Date Received: 4/28/00
Analysis Date: 4/30/00
Analysis Time: 6:43
Sample QC Group: 7224

FORM I

CAS NUMBER	ANALYTE	CONCENTRATION	FLAG
67-64-1	Acetone	13.9	U
107-02-8	Acrolein	13.9	U
107-13-1	Acrylonitrile	13.9	U
71-43-2	Benzene	2.8	U
108-86-1	Bromobenzene	2.8	U
74-97-5	Bromochloromethane	2.8	U
75-25-2	Bromoform	2.8	U
74-83-9	Bromomethane	2.8	U
78-93-3	2-Butanone	13.9	U
104-51-8	n-Butylbenzene	2.8	U
135-98-8	sec-Butylbenzene	2.8	U
98-06-6	t-Butylbenzene	2.8	U
75-15-0	Carbon disulfide	2.8	U
56-23-5	Carbon tetrachloride	2.8	U
108-90-7	Chlorobenzene	2.8	U
75-00-3	Chloroethane	2.8	U
110-75-8	2-Chloroethylvinylether	2.8	U
67-66-3	Chloroform	2.8	U
74-87-3	Chloromethane	2.8	U
95-49-8	2-Chlorotoluene	2.8	U
106-43-4	4-Chlorotoluene	2.8	U
96-12-8	1,2-Dibromo-3-chloropropane	13.9	U
124-48-1	Dibromochloromethane	2.8	U
106-93-4	1,2-Dibromoethane	2.8	U
74-95-3	Dibromomethane	2.8	U
110-57-6	1,4-Dichloro-2-butene	2.8	U
95-50-1	1,2-Dichlorobenzene	2.8	U
541-73-1	1,3-Dichlorobenzene	2.8	U
106-46-7	1,4-Dichlorobenzene	2.8	U
75-71-8	Dichlorodifluoromethane	2.8	U
75-34-3	1,1-Dichloroethane	2.8	U
107-06-2	1,2-Dichloroethane	2.8	U
75-35-4	1,1-Dichloroethene	2.8	U
156-59-2	cis-1,2-Dichloroethene	2.8	U
156-60-5	trans-1,2-Dichloroethene	2.8	U
78-87-5	1,2-Dichloropropane	2.8	U
142-28-9	1,3-Dichloropropane	2.8	U
594-20-7	2,2-Dichloropropane	2.8	U
563-58-6	1,1-Dichloropropene	2.8	U

SPECIALIZED ASSAYS, INC.
2960 Foster Creighton Dr.
P.O. Box 40566
Nashville, TN 37204-0566
Phone 1-615-726-0177

Sample Identification

264726

Matrix: Soil
% Dry Weight: 72.
Units: ug/kg dry weight

Lab Sample ID: 00-A58073
Date Sampled: 4/25/00
Date Received: 4/28/00

FORM I

CAS NUMBER	ANALYTE	CONCENTRATION	FLAG
10061-01-5	cis-1,3-Dichloropropene	2.8	U
10061-02-6	trans-1,3-Dichloropropene	2.8	U
123-91-1	1,4-Dioxane	13.9	U
100-41-4	Ethylbenzene	2.8	U
97-63-2	Ethyl methacrylate	6.9	U
87-68-3	Hexachlorobutadiene	2.8	U
591-78-6	2-Hexanone	13.9	U
74-88-4	Iodomethane	2.8	U
98-82-8	Isopropylbenzene	2.8	U
99-87-6	4-Isopropyltoluene	2.8	U
108-10-1	4-Methyl-2-pentanone	13.9	U
75-09-2	Methylene chloride	6.9	U
91-20-3	Naphthalene	6.9	U
103-65-1	n-Propylbenzene	2.8	U
100-42-5	Styrene	2.8	U
630-20-6	1,1,1,2-Tetrachloroethane	2.8	U
79-34-5	1,1,2,2-Tetrachloroethane	2.8	U
127-18-4	Tetrachloroethene	2.8	U
108-88-3	Toluene	2.8	U
87-61-6	1,2,3-Trichlorobenzene	2.8	U
120-82-1	1,2,4-Trichlorobenzene	2.8	U
71-55-6	1,1,1-Trichloroethane	2.8	U
79-00-5	1,1,2-Trichloroethane	2.8	U
79-01-6	Trichloroethene	2.8	U
96-18-4	1,2,3-Trichloropropane	2.8	U
95-63-6	1,2,4-Trimethylbenzene	2.8	U
108-67-8	1,3,5-Trimethylbenzene	2.8	U
108-05-4	Vinyl acetate	13.9	U
75-01-4	Vinyl chloride	2.8	U
75-27-4	Bromodichloromethane	2.8	U
6615	o-Xylene	2.8	U
1330-20-7	m,p-Xylene	2.8	U
75-69-4	Trichlorofluoromethane	2.8	U
5998	Hexane	6.9	U

2B

SOIL VOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Lab Name: TESTAMERICA Contract: _____

Lab Code: TA Case No.: _____ SAS No.: _____ SDG No.: 189955

Level: (low/med) LOW

	EPA SAMPLE NO.	SMC1 #	SMC2 #	SMC3 #	TOT OUT
01	VBLK02	110	104	86	0
02	264716	115	103	82	0
03	264717	108	102	71	0
04	264718	117	104	78	0
05	264720	121	103	81	0
06	264722	119	105	80	0
07	264723	127	105	81	0
08	264724	120	107	81	0
09	264725	117	104	72	0
10	264726	115	103	72	0
11	CONTROL	101	103	99	0
12	VBLK03	106	103	89	0
13	264719	113	103	76	0
14	264721	117	102	78	0
15	264716MS	116	107	100	0
16	264716MSD	118	108	101	0

QC LIMITS

SMC1	=	1,2-Dichloroethane-d4	(48-160)
SMC2	=	Toluene-d8	(79-119)
SMC3	=	Bromofluorobenzene	(69-122)

Column to be used to flag recovery values

* Values outside of contract required QC limits

D System Monitoring Compound diluted out

3B
SOIL VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TESTAMERICA Contract:

Lab Code: TA Case No.: SAS No.: SDG No.: 189955

Matrix Spike - EPA Sample No. 264716 Level: (low/med) LOW

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC #	QC LIMITS REC.
1,1-Dichloroethene	50	0.0	55	110	55 - 136
Benzene	50	0.0	50	100	59 - 126
Trichloroethene	50	0.0	49	98	12 - 176
Toluene	50	0.0	48	96	49 - 124
Chlorobenzene	50	0.0	47	94	45 - 128

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
1,1-Dichloroethene	50	56	112	2	28	55 - 136
Benzene	50	50	100	0	26	59 - 126
Trichloroethene	50	49	98	0	43	12 - 176
Toluene	50	49	98	2	29	49 - 124
Chlorobenzene	50	46	92	2	34	45 - 128

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 0 out of 5 outside limits

Spike Recovery: 0 out of 10 outside limits

COMMENTS:

SPECIALIZED ASSAYS, INC.
2960 Foster Creighton Dr.
P.O. Box 40566
Nashville, TN 37204-0566
Phone 1-615-726-0177

FORM 3Ba

VOLATILE LABORATORY CONTROL RECOVERY

Lab: Specialized Assays, Inc. Project:

SDG: 189955 QC Group: 7224

Compound	Known Value	Conc	% Rec	QC Limits
Acetone	250	295	118	15-175
Acrolein	250	480	192	-
Acrylonitrile	250	305	122	57-143
Benzene	50	53	106	74-129
Bromobenzene	50	58	116	74-126
Bromochloromethane	50	50	101	64-137
Bromoform	50	55	110	64-136
Bromomethane	50	52	103	59-136
2-Butanone	250	299	120	26-168
n-Butylbenzene	50	58	116	57-135
sec-Butylbenzene	50	56	112	72-130
t-Butylbenzene	50	56	112	76-129
Carbon disulfide	50	64	127	65-136
Carbon tetrachloride	50	54	108	70-134
Chlorobenzene	50	55	110	73-132
Chloroethane	50	57	114	59-144
2-Chloroethylvinylether	250	273	109	41-163
Chloroform	50	58	115	71-129
Chloromethane	50	55	110	47-146
2-Chlorotoluene	50	57	114	73-127
4-Chlorotoluene	50	58	116	69-127
1,2-Dibromo-3-chloropropane	50	47	94	56-144
Dibromochloromethane	50	62	125	74-131
1,2-Dibromoethane	50	57	114	72-131
Dibromomethane	50	53	106	65-133
1,4-Dichloro-2-butene	50	52	104	53-139
1,2-Dichlorobenzene	50	58	116	70-127
1,3-Dichlorobenzene	50	59	117	64-128
1,4-Dichlorobenzene	50	58	116	62-129
Dichlorodifluoromethane	50	57	114	55-142
1,1-Dichloroethane	50	58	115	68-134
1,2-Dichloroethane	50	59	119	62-135
1,1-Dichloroethene	50	55	110	69-133
cis-1,2-Dichloroethene	50	58	116	67-134
trans-1,2-Dichloroethene	50	57	114	63-135
1,2-Dichloropropane	50	55	109	76-128
1,3-Dichloropropane	50	57	114	69-130
2,2-Dichloropropane	50	58	115	62-134
1,1-Dichloropropene	50	56	113	68-135
cis-1,3-Dichloropropene	50	56	111	69-131
trans-1,3-Dichloropropene	50	58	116	67-130
Ethylbenzene	50	54	108	70-135
Hexachlorobutadiene	50	53	106	52-140
2-Hexanone	250	280	112	46-146

SPECIALIZED ASSAYS, INC.
2960 Foster Creighton Dr.
P.O. Box 40566
Nashville, TN 37204-0566
Phone 1-615-726-0177

FORM 3Ba

VOLATILE LABORATORY CONTROL RECOVERY

Lab: Specialized Assays, Inc. Project:

Iodomethane	250	237	95	46-146
Isopropylbenzene	50	56	113	74-129
4-Isopropyltoluene	50	57	114	67-129
4-Methyl-2-pentanone	250	286	114	50-147
Methylene chloride	50	52	103	51-142
Naphthalene	50	50	100	59-141
n-Propylbenzene	50	57	114	70-131
Styrene	50	58	117	72-130
1,1,1,2-Tetrachloroethane	50	60	119	77-135
1,1,2,2-Tetrachloroethane	50	59	118	64-139
Tetrachloroethene	50	51	103	66-135
Toluene	50	52	103	72-125
1,2,3-Trichlorobenzene	50	54	107	50-137
1,2,4-Trichlorobenzene	50	56	113	41-140
1,1,1-Trichloroethane	50	56	112	68-137
1,1,2-Trichloroethane	50	57	114	68-131
Trichloroethene	50	53	106	70-128
1,2,3-Trichloropropane	50	58	116	61-138
1,2,4-Trimethylbenzene	50	58	116	68-126
1,3,5-Trimethylbenzene	50	58	116	71-128
Vinyl acetate	250	319	127	58-138
Vinyl chloride	50	61	122	61-142
Bromodichloromethane	50	57	115	75-130
o-Xylene	50	56	112	64-137
m,p-Xylene	100	109	109	62-137
Trichlorofluoromethane	50	57	114	64-139

Concentration Units: ug/kg

Recoveries: 0 out of 70 outside QC limits.

4A
VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VBLK02

Lab Name: TESTAMERICA Contract:

Lab Code: TA Case No.: SAS No.: SDG No.: 189955

Lab File ID: VB0429B.D Lab Sample ID: VB0429B

Date Analyzed: 04/30/00 Time Analyzed: 00:00

GC Column: DB-VRX ID: 0.25 (mm) Heated Purge: (Y/N) Y

Instrument ID: HP-10

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	264716	58004	58004.D	00:37
02	264717	58005	58005.D	01:13
03	264718	58006	58006.D	01:50
04	264720	58008	58008.D	03:03
05	264722	58010	58010.D	04:16
06	264723	58011	58011.D	04:53
07	264724	58012	58012.D	05:30
08	264725	58013	58013.D	06:06
09	264726	58073	58073.D	06:43

COMMENTS:

4A

VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VBLK03

Lab Name: TESTAMERICA Contract:

Lab Code: TA Case No.: SAS No.: SDG No.: 189955

Lab File ID: VB0501.D Lab Sample ID: VB0501

Date Analyzed: 05/01/00 Time Analyzed: 12:37

GC Column: DB-VRX ID: 0.25 (mm) Heated Purge: (Y/N) Y

Instrument ID: HP-10

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	CONTROL	LCS0501	LCS0501.D	10:47
02	264719	58007B	58007B.D	13:51
03	264721	58009B	58009B.D	15:04
04	264716MS	58004M1	58004M1.D	16:54
05	264716MSD	58004M2	58004M2.D	17:31

COMMENTS:

5A

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name : TESTAMERICA Contract: _____

Project No.: 189955 Site: _____ Location: _____ Group: _____

Lab File ID: BFB0220 BFB Injection Date: 2/20/00

Instrument ID: HP-10 BFB Injection Time: 11:38

GC Column: DB-VRX ID: 0.25 (mm) Heated Purge: (Y/N) Y

m/e	ION ABUNDANCE CRITERIA	%RELATIVE ABUNDANCE
50	8.0 - 40.0% of mass 95	19.9
75	30.0 - 66.0% of mass 95	46.1
95	Base peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	6.3
173	Less than 2.0% of mass 174	(0.0)1
174	50.0 - 120.0% of mass 95	77.5
175	4.0 - 9.0% of mass 174	(7.5)1
176	93.0 - 101.0% of mass 174	(96.1)1
177	5.0 - 9.0% of mass 176	(6.5)2

1-Value is % mass 174 2-Value is % mass 176

This check applies to the following SAMPLES, MS, MSD, BLANKS and STANDARDS:

	SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	AVSTD005	A0050219	A0050219.D	2/20/00	12:37
02	AVSTD010	A0100219	A0100219	2/20/00	13:13
03	AVSTD020	A0200219	A0200219	2/20/00	13;50
04	AVSTD050	A0500219	A0500219	2/20/00	14:27
05	AVSTD100	A1000219	A1000219	2/20/00	15:04
06	AVSTD200	A2000219	A2000219	2/20/00	15:41

5A

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: TESTAMERICA Contract: _____

Lab Code: TA Case No.: _____ SAS No.: _____ SDG No.: 189955

Lab File ID: BFB0412.D BFB Injection Date: 04/12/00

Instrument ID: HP-10 BFB Injection Time: 16:06

GC Column: DB-VRX ID: 0.25 (mm) Heated Purge: (Y/N) Y

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	8.0 - 40.0% of mass 95	19.7
75	30.0 - 66.0% of mass 95	46.7
95	Base peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	6.7
173	Less than 2.0% of mass 174	0.0 (0.0)1
174	50.0 - 120.0% of mass 95	71.2
175	4.0 - 9.0% of mass 174	5.3 (7.5)1
176	93.0 - 101.0% of mass 174	69.1 (97.2)1
177	5.0 - 9.0% of mass 176	4.6 (6.6)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	VSTD002	S0020412	S0020412.D	04/12/00	18:04
02	VSTD010	S0100412	S0100412.D	04/12/00	19:17
03	VSTD020	S0200412	S0200412.D	04/12/00	19:54
04	VSTD050	S0500412	S0500412.D	04/12/00	20:31
05	VSTD100	S1000412	S1000412.D	04/12/00	21:07
06	VSTD200	S2000412	S2000412.D	04/12/00	21:44

5A

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: TESTAMERICA Contract: _____

Lab Code: TA Case No.: _____ SAS No.: _____ SDG No.: 189955

Lab File ID: BFB0429B.D BFB Injection Date: 04/29/00

Instrument ID: HP-10 BFB Injection Time: 21:34

GC Column: DB-VRX ID: 0.25 (mm) Heated Purge: (Y/N) Y

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	8.0 - 40.0% of mass 95	21.9
75	30.0 - 66.0% of mass 95	50.0
95	Base peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	6.5
173	Less than 2.0% of mass 174	0.0 (0.0)1
174	50.0 - 120.0% of mass 95	69.4
175	4.0 - 9.0% of mass 174	4.7 (6.8)1
176	93.0 - 101.0% of mass 174	67.9 (97.8)1
177	5.0 - 9.0% of mass 176	4.7 (7.0)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	VSTD050	VS0429B	VS0429B.D	04/29/00	22:10
02	VBLK02	VB0429B	VB0429B.D	04/30/00	00:00
03	264716	58004	58004.D	04/30/00	00:37
04	264717	58005	58005.D	04/30/00	01:13
05	264718	58006	58006.D	04/30/00	01:50
06	264720	58008	58008.D	04/30/00	03:03
07	264722	58010	58010.D	04/30/00	04:16
08	264723	58011	58011.D	04/30/00	04:53
09	264724	58012	58012.D	04/30/00	05:30
10	264725	58013	58013.D	04/30/00	06:06
11	264726	58073	58073.D	04/30/00	06:43

5A

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: TESTAMERICA Contract: _____

Lab Code: TA Case No.: _____ SAS No.: _____ SDG No.: 189955

Lab File ID: BFB0501.D BFB Injection Date: 05/01/00

Instrument ID: HP-10 BFB Injection Time: 09:10

GC Column: DB-VRX ID: 0.25 (mm) Heated Purge: (Y/N) Y

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	8.0 - 40.0% of mass 95	21.0
75	30.0 - 66.0% of mass 95	49.1
95	Base peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	7.0
173	Less than 2.0% of mass 174	0.0 (0.0)1
174	50.0 - 120.0% of mass 95	69.8
175	4.0 - 9.0% of mass 174	5.3 (7.5)1
176	93.0 - 101.0% of mass 174	69.0 (98.8)1
177	5.0 - 9.0% of mass 176	4.4 (6.4)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	VSTD050	VS0501	VS0501.D	05/01/00	09:44
02	CONTROL	LCS0501	LCS0501.D	05/01/00	10:47
03	VBLK03	VB0501	VB0501.D	05/01/00	12:37
04	264719	58007B	58007B.D	05/01/00	13:51
05	264721	58009B	58009B.D	05/01/00	15:04
06	264716MS	58004M1	58004M1.D	05/01/00	16:54
07	264716MSD	58004M2	58004M2.D	05/01/00	17:31

8A

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: TESTAMERICA Contract:

Lab Code: TA Case No.: SAS No.: SDG No.: 189955

Lab File ID (Standard): VS0429B.D Date Analyzed: 04/29/00

Instrument ID: HP-10 Time Analyzed: 22:10

GC Column: DB-VRX ID: 0.25 (mm) Heated Purge (Y/N): Y

		IS1 AREA #	RT #	IS2 AREA #	RT #	IS3 AREA #	RT #
	12 HOUR STD	276330	11.85	472424	13.14	134092	17.82
	UPPER LIMIT	552660	12.35	944848	13.64	268184	18.32
	LOWER LIMIT	138165	11.35	236212	12.64	67046	17.32
	EPA SAMPLE NO.						
01	VBLK02	273115	11.85	464096	13.13	119862	17.82
02	264716	267946	11.85	455486	13.14	119016	17.82
03	264717	252190	11.85	429342	13.14	102096	17.82
04	264718	261540	11.85	441048	13.14	112706	17.83
05	264720	256821	11.85	442749	13.14	113602	17.82
06	264722	249540	11.85	429569	13.14	112400	17.82
07	264723	239117	11.85	423874	13.14	112768	17.82
08	264724	238379	11.85	411018	13.14	108795	17.82
09	264725	234021	11.85	396765	13.13	98574	17.82
10	264726	234862	11.84	403962	13.13	102699	17.82

IS1 = Pentafluorobenzene
IS2 = 1,4-Difluorobenzene
IS3 = Chlorobenzene-d5
IS4 = Ethylbenzene-d10

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column to be used to flag values outside QC limit with an asterisk.
* Values outside of contract required QC limits

8A

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: TESTAMERICA Contract:

Lab Code: TA Case No.: SAS No.: SDG No.: 189955

Lab File ID (Standard): VS0429B.D Date Analyzed: 04/29/00

Instrument ID: HP-10 Time Analyzed: 22:10

GC Column: DB-VRX ID: 0.25 (mm) Heated Purge (Y/N): N

		IS4 AREA #	RT #	AREA #	RT #	AREA #	RT #
	12 HOUR STD	700387	18.02				
	UPPER LIMIT	1400774	17.52				
	LOWER LIMIT	350194	18.52				
	EPA SAMPLE NO.						
01	VBLK02	646407	18.02				
02	264716	632761	18.02				
03	264717	565421	18.02				
04	264718	617885	18.02				
05	264720	619515	18.02				
06	264722	615726	18.02				
07	264723	600593	18.02				
08	264724	590914	18.02				
09	264725	547223	18.02				
10	264726	570603	18.02				

IS1 = Pentafluorobenzene
IS2 = 1,4-Difluorobenzene
IS3 = Chlorobenzene-d5
IS4 = Ethylbenzene-d10

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column to be used to flag values outside QC limit with an asterisk.
* Values outside of contract required QC limits

8A

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: TESTAMERICA Contract:

Lab Code: TA Case No.: SAS No.: SDG No.: 189955

Lab File ID (Standard): VS0501.D Date Analyzed: 05/01/00

Instrument ID: HP-10 Time Analyzed: 09:44

GC Column: DB-VRX ID: 0.25 (mm) Heated Purge (Y/N): Y

		IS1 AREA #	RT #	IS2 AREA #	RT #	IS3 AREA #	RT #
	12 HOUR STD	347413	11.86	589666	13.15	156779	17.83
	UPPER LIMIT	694826	12.36	1179332	13.65	313558	18.33
	LOWER LIMIT	173707	11.36	294833	12.65	78390	17.33
	EPA SAMPLE NO.						
01	CONTROL	338718	11.86	578183	13.14	154254	17.83
02	VBLK03	310706	11.86	527431	13.15	134516	17.83
03	264719	282469	11.86	471822	13.15	116994	17.84
04	264721	268620	11.86	459684	13.16	114594	17.84
05	264716MS	272307	11.86	491295	13.15	139681	17.84
06	264716MSD	271172	11.87	487975	13.16	143248	17.84

IS1 = Pentafluorobenzene
IS2 = 1,4-Difluorobenzene
IS3 = Chlorobenzene-d5
IS4 = Ethylbenzene-d10

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column to be used to flag values outside QC limit with an asterisk.
* Values outside of contract required QC limits

8A

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: TESTAMERICA Contract:

Lab Code: TA Case No.: SAS No.: SDG No.: 189955

Lab File ID (Standard): VS0501.D Date Analyzed: 05/01/00

Instrument ID: HP-10 Time Analyzed: 09:44

GC Column: DB-VRX ID: 0.25 (mm) Heated Purge (Y/N): N

		IS4 AREA #	RT #	AREA #	RT #	AREA #	RT #
	12 HOUR STD	814104	18.03				
	UPPER LIMIT	1628208	17.53				
	LOWER LIMIT	407052	18.53				
	EPA SAMPLE NO.						
01	CONTROL	803957	18.03				
02	VBLK03	726042	18.04				
03	264719	634662	18.04				
04	264721	628698	18.04				
05	264716MS	712602	18.04				
06	264716MSD	710392	18.04				

IS1 = Pentafluorobenzene
IS2 = 1,4-Difluorobenzene
IS3 = Chlorobenzene-d5
IS4 = Ethylbenzene-d10

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column to be used to flag values outside QC limit with an asterisk.
* Values outside of contract required QC limits

VOLATILE ORGANICS by SW846/8260B

RAW DATA

TESTAMERICA, INC
2960 FOSTER CREIGHTON DRIVE
NASHVILLE, TN 37204
1-800-765-0980

SPECIALIZED ASSAYS, INC.
2960 Foster Creighton Dr.
P.O. Box 40566
Nashville, TN 37204-0566
Phone 1-615-726-0177

Sample Identification

264716

Matrix: Soil
% Dry Weight: 87.
Units: ug/kg dry weight
Dilution Factor: 1.
Analysis Method: SW8260B
Delivery Group: 189955
Instrument: HP-10

Lab Sample ID: 00-A58004
Date Sampled: 4/25/00
Date Received: 4/28/00
Analysis Date: 4/30/00
Analysis Time: 0:37
Sample QC Group: 7224

FORM I

CAS NUMBER	ANALYTE	CONCENTRATION	FLAG
67-64-1	Acetone	11.5	U
107-02-8	Acrolein	11.5	U
107-13-1	Acrylonitrile	11.5	U
71-43-2	Benzene	2.3	U
108-86-1	Bromobenzene	2.3	U
74-97-5	Bromochloromethane	2.3	U
75-25-2	Bromoform	2.3	U
74-83-9	Bromomethane	2.3	U
78-93-3	2-Butanone	11.5	U
104-51-8	n-Butylbenzene	2.3	U
135-98-8	sec-Butylbenzene	2.3	U
98-06-6	t-Butylbenzene	2.3	U
75-15-0	Carbon disulfide	2.3	U
56-23-5	Carbon tetrachloride	2.3	U
108-90-7	Chlorobenzene	2.3	U
75-00-3	Chloroethane	2.3	U
110-75-8	2-Chloroethylvinylether	2.3	U
67-66-3	Chloroform	2.3	U
74-87-3	Chloromethane	2.3	U
95-49-8	2-Chlorotoluene	2.3	U
106-43-4	4-Chlorotoluene	2.3	U
96-12-8	1,2-Dibromo-3-chloropropane	11.5	U
124-48-1	Dibromochloromethane	2.3	U
106-93-4	1,2-Dibromoethane	2.3	U
74-95-3	Dibromomethane	2.3	U
110-57-6	1,4-Dichloro-2-butene	2.3	U
95-50-1	1,2-Dichlorobenzene	2.3	U
541-73-1	1,3-Dichlorobenzene	2.3	U
106-46-7	1,4-Dichlorobenzene	2.3	U
75-71-8	Dichlorodifluoromethane	2.3	U
75-34-3	1,1-Dichloroethane	2.3	U
107-06-2	1,2-Dichloroethane	2.3	U
75-35-4	1,1-Dichloroethene	2.3	U
156-59-2	cis-1,2-Dichloroethene	2.3	U
156-60-5	trans-1,2-Dichloroethene	2.3	U
78-87-5	1,2-Dichloropropane	2.3	U
142-28-9	1,3-Dichloropropane	2.3	U
594-20-7	2,2-Dichloropropane	2.3	U
563-58-6	1,1-Dichloropropene	2.3	U

COPY 1

SPECIALIZED ASSAYS, INC.
2960 Foster Creighton Dr.
P.O. Box 40566
Nashville, TN 37204-0566
Phone 1-615-726-0177

Sample Identification

264716

Matrix: Soil
% Dry Weight: 87.
Units: ug/kg dry weight

Lab Sample ID: 00-A58004
Date Sampled: 4/25/00
Date Received: 4/28/00

FORM I

CAS NUMBER	ANALYTE	CONCENTRATION	FLAG
10061-01-5	cis-1,3-Dichloropropene	2.3	U
10061-02-6	trans-1,3-Dichloropropene	2.3	U
123-91-1	1,4-Dioxane	11.5	U
100-41-4	Ethylbenzene	2.3	U
97-63-2	Ethyl methacrylate	5.7	U
87-68-3	Hexachlorobutadiene	2.3	U
591-78-6	2-Hexanone	11.5	U
74-88-4	Iodomethane	2.3	U
98-82-8	Isopropylbenzene	2.3	U
99-87-6	4-Isopropyltoluene	2.3	U
108-10-1	4-Methyl-2-pentanone	11.5	U
75-09-2	Methylene chloride	5.7	U
91-20-3	Naphthalene	5.7	U
103-65-1	n-Propylbenzene	2.3	U
100-42-5	Styrene	2.3	U
630-20-6	1,1,1,2-Tetrachloroethane	2.3	U
79-34-5	1,1,2,2-Tetrachloroethane	2.3	U
127-18-4	Tetrachloroethene	2.3	U
108-88-3	Toluene	2.3	U
87-61-6	1,2,3-Trichlorobenzene	2.3	U
120-82-1	1,2,4-Trichlorobenzene	2.3	U
71-55-6	1,1,1-Trichloroethane	2.3	U
79-00-5	1,1,2-Trichloroethane	2.3	U
79-01-6	Trichloroethene	2.3	U
96-18-4	1,2,3-Trichloropropane	2.3	U
95-63-6	1,2,4-Trimethylbenzene	2.3	U
108-67-8	1,3,5-Trimethylbenzene	2.3	U
108-05-4	Vinyl acetate	11.5	U
75-01-4	Vinyl chloride	2.3	U
75-27-4	Bromodichloromethane	2.3	U
6615	o-Xylene	2.3	U
1330-20-7	m,p-Xylene	2.3	U
75-69-4	Trichlorofluoromethane	2.3	U
5998	Hexane	5.7	U

Quantitation Report (QT Reviewed)

051

Data File : C:\HPCHEM\1\DATA\042400\58004.D
Acq On : 30 Apr 2000 12:37 am
Sample : 1
Misc : soil
MS Integration Params: rteint.p
Quant Time: May 12 8:31 19100

Vial: 23
Operator:
Inst : HP-10
Multiplr: 1.00

Quant Results File: S041200.RES

Quant Method : C:\HPCHEM\1\METHODS\S041200.M (RTE Integrator)
Title : 8260 volatile organics
Last Update : Fri May 12 08:15:05 2000
Response via : Initial Calibration
DataAcq Meth : S041200

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Pentafluorobenzene	11.85	168	267946	30.00 ug/L	-0.09
31) 1,4-Difluorobenzene	13.14	114	455486	30.00 ug/L	-0.08
49) Chlorobenzene-d5	17.82	119	119016	30.00 ug/L	-0.06
63) 1,4-Dichlorobenzene-d4	21.44	152	157295	30.00 ug/L	-0.05
64) Ethylbenzene-d10	18.02	98	632761	30.00 ug/L	-0.06
System Monitoring Compounds					
26) 1,2-Dichloroethane-d4	11.90	65	195016	34.61 ug/L	0.00
Spiked Amount 30.000			Recovery = 115.37%		
27) Dibromofluoromethane	11.19	111	163163	40.16 ug/L	-0.09
Spiked Amount 30.000			Recovery = 133.87%		
44) Toluene-d8	15.77	98	509580	30.75 ug/L	-0.07
Spiked Amount 30.000			Recovery = 102.50%		
66) Bromofluorobenzene	19.55	95	166158	24.49 ug/L	-0.05
Spiked Amount 30.000			Recovery = 81.63%		

Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration
58004.D S041200.M Fri May 12 08:32:02 2000

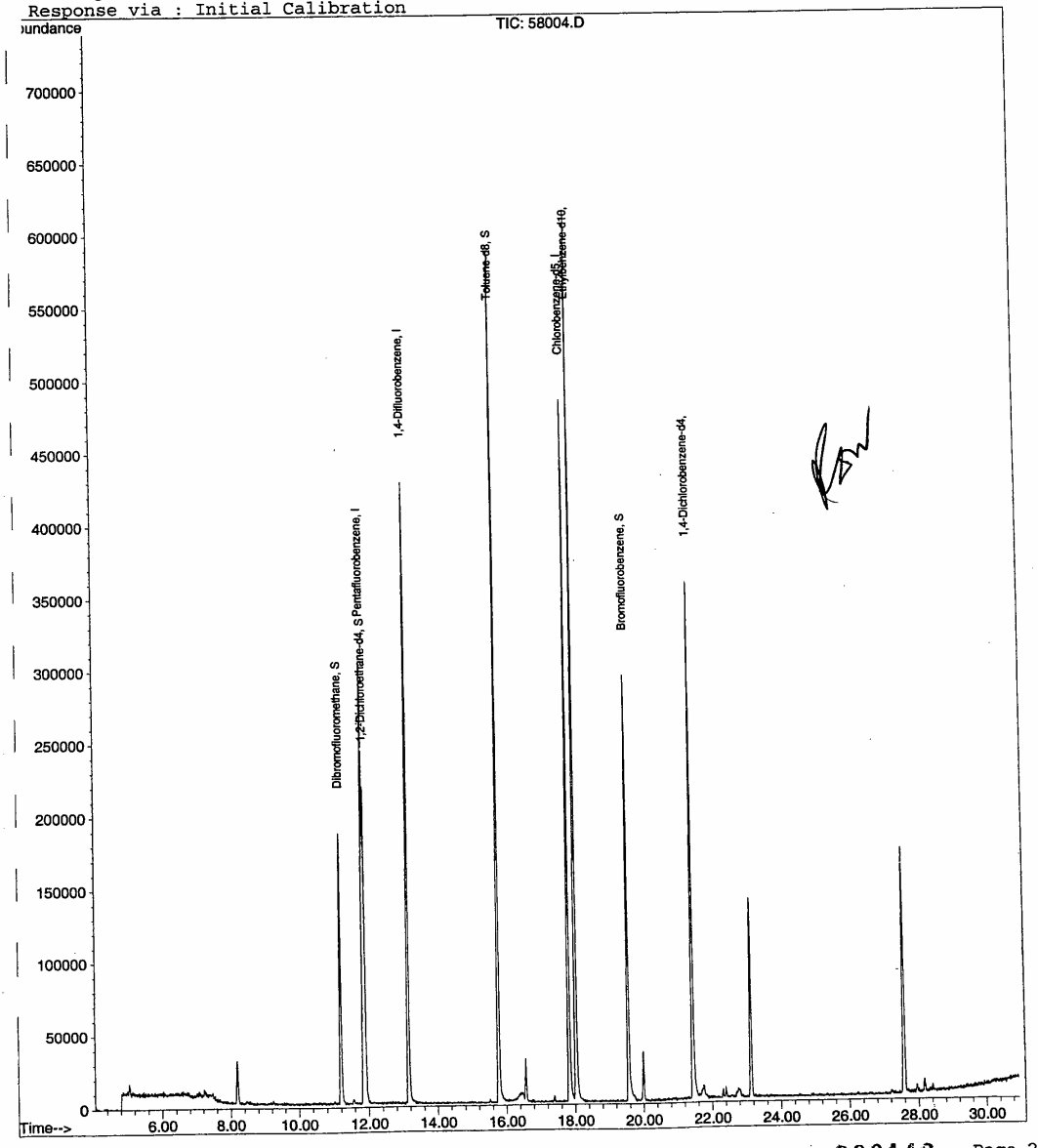
Quantitation Report

Data File : C:\HPCHEM\1\DATA\042400\58004.D
Acq On : 30 Apr 2000 12:37 am
Sample : 1
Misc : soil
MS Integration Params: rteint.p
Quant Time: May 12 8:31 19100

Vial: 23
Operator:
Inst : HP-10
Multiplr: 1.00

Quant Results File: S041200.RES

Method : C:\HPCHEM\1\METHODS\S041200.M (RTE Integrator)
Title : 8260 volatile organics
Last Update : Fri May 12 08:15:05 2000
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

053

Data File : C:\HPCHEM\1\DATA\TEMP\58004.D
Acq On : 30 Apr 2000 12:37 am
Sample : 1
Misc : soil
MS Integration Params: rteint.p
Quant Time: May 12 9:47 19100

Vial: 23
Operator:
Inst : HP-10
Multiplr: 1.00

Quant Results File: APS0219.RES

Quant Method : C:\HPCHEM\1\METHODS\APS0219.M (RTE Integrator)
Title : APPIX IX MIX
Last Update : Tue Mar 21 17:13:42 2000
Response via : Initial Calibration
DataAcq Meth : S041200

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Pentafluorobenzene	11.85	99	160313	30.00 ug/L	-0.06
18) 1,4-Difluorobenzene	13.13	63	107622	30.00 ug/L	-0.06
27) Chlorobenzene-d5	17.82	119	119016	30.00 ug/L	-0.05
29) 1,4-Dichlorobenzene-d4	21.44	152	157295	30.00 ug/L	-0.05
30) Ethylbenzene-d10	18.02	98	632761	30.00 ug/L	-0.05
System Monitoring Compounds					
16) 1,2-Dichloroethane-d4	11.90	65	195016	36.72 ug/L	-0.05
Spiked Amount 30.000			Recovery =	122.40%	
17) Dibromofluoromethane	11.19	111	163163	31.03 ug/L	-0.06
Spiked Amount 30.000			Recovery =	103.43%	
21) Toluene-d8	15.77	98	509580	27.76 ug/L	-0.05
Spiked Amount 30.000			Recovery =	92.53%	
31) Bromofluorobenzene	19.55	95	166158	25.94 ug/L	-0.04
Spiked Amount 30.000			Recovery =	86.47%	

arget Compounds Qvalue

(#) = qualifier out of range (m) = manual integration
58004.D APS0219.M Fri May 12 09:51:01 2000

Quantitation Report

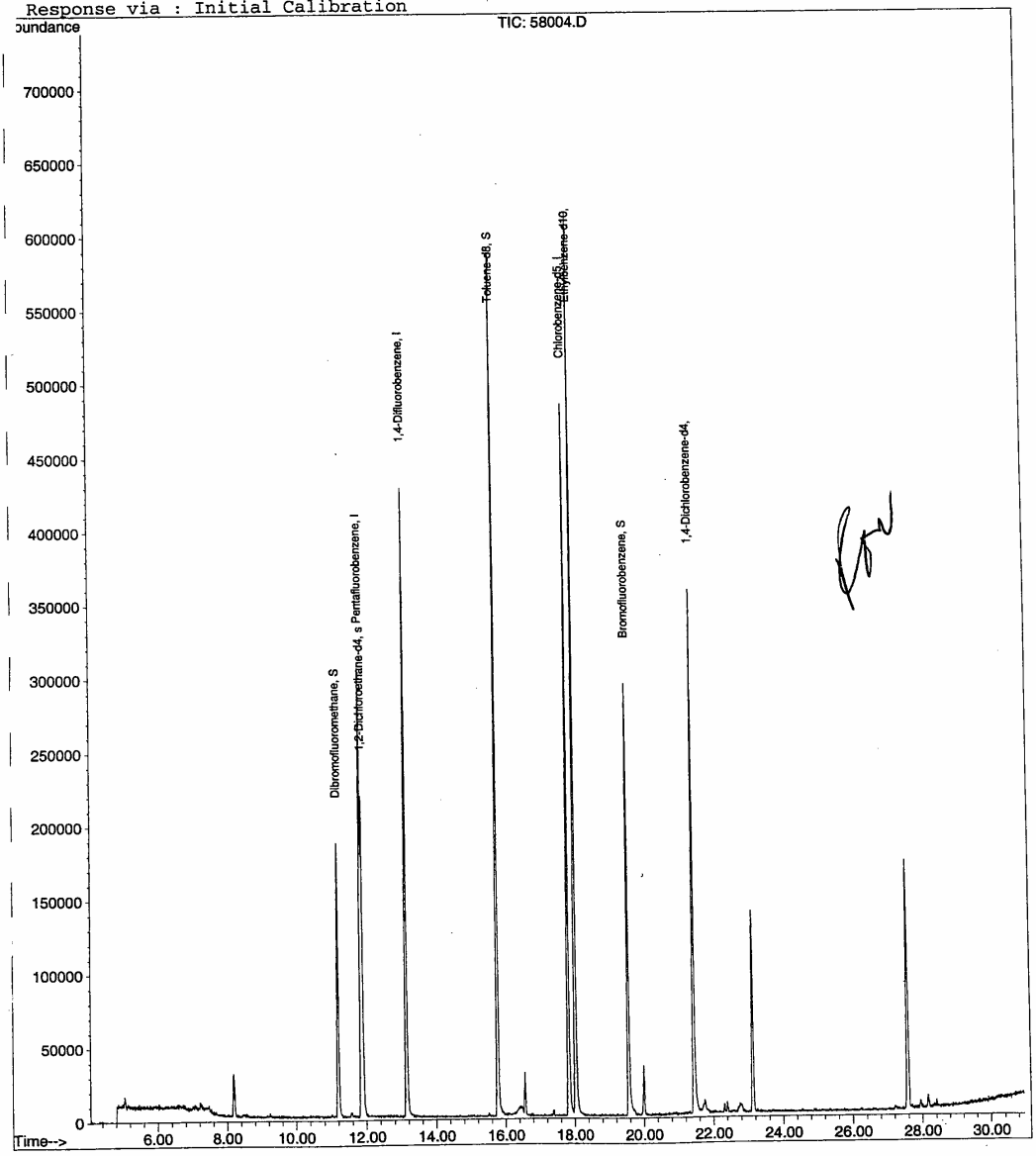
054

Data File : C:\HPCHEM\1\DATA\TEMP\58004.D
Acq On : 30 Apr 2000 12:37 am
Sample : 1
Misc : soil
MS Integration Params: rteint.p
Quant Time: May 12 9:47 19100

Vial: 23
Operator:
Inst : HP-10
Multiplr: 1.00

Quant Results File: APS0219.RES

Method : C:\HPCHEM\1\METHODS\APS0219.M (RTE Integrator)
Title : APPIX IX MIX
Last Update : Tue Mar 21 17:13:42 2000
Response via : Initial Calibration



SPECIALIZED ASSAYS, INC.
2960 Foster Creighton Dr.
P.O. Box 40566
Nashville, TN 37204-0566
Phone 1-615-726-0177

Sample Identification

264717

Matrix: Soil
% Dry Weight: 57.
Units: ug/kg dry weight
Dilution Factor: 1.
Analysis Method: SW8260B
Delivery Group: 189955
Instrument: HP-10

Lab Sample ID: 00-A58005
Date Sampled: 4/25/00
Date Received: 4/28/00
Analysis Date: 4/30/00
Analysis Time: 1:13
Sample QC Group: 7224

FORM I

CAS NUMBER	ANALYTE	CONCENTRATION	FLAG
67-64-1	Acetone	17.5	U
107-02-8	Acrolein	17.5	U
107-13-1	Acrylonitrile	17.5	U
71-43-2	Benzene	3.5	U
108-86-1	Bromobenzene	3.5	U
74-97-5	Bromochloromethane	3.5	U
75-25-2	Bromoform	3.5	U
74-83-9	Bromomethane	3.5	U
78-93-3	2-Butanone	17.5	U
104-51-8	n-Butylbenzene	3.5	U
135-98-8	sec-Butylbenzene	3.5	U
98-06-6	t-Butylbenzene	3.5	U
75-15-0	Carbon disulfide	3.5	U
56-23-5	Carbon tetrachloride	3.5	U
108-90-7	Chlorobenzene	3.5	U
75-00-3	Chloroethane	3.5	U
110-75-8	2-Chloroethylvinylether	3.5	U
67-66-3	Chloroform	3.5	U
74-87-3	Chloromethane	3.5	U
95-49-8	2-Chlorotoluene	3.5	U
106-43-4	4-Chlorotoluene	3.5	U
96-12-8	1,2-Dibromo-3-chloropropane	17.5	U
124-48-1	Dibromochloromethane	3.5	U
106-93-4	1,2-Dibromoethane	3.5	U
74-95-3	Dibromomethane	3.5	U
110-57-6	1,4-Dichloro-2-butene	3.5	U
95-50-1	1,2-Dichlorobenzene	3.5	U
541-73-1	1,3-Dichlorobenzene	3.5	U
106-46-7	1,4-Dichlorobenzene	3.5	U
75-71-8	Dichlorodifluoromethane	3.5	U
75-34-3	1,1-Dichloroethane	3.5	U
107-06-2	1,2-Dichloroethane	3.5	U
75-35-4	1,1-Dichloroethene	3.5	U
156-59-2	cis-1,2-Dichloroethene	3.5	U
156-60-5	trans-1,2-Dichloroethene	3.5	U
78-87-5	1,2-Dichloropropane	3.5	U
142-28-9	1,3-Dichloropropane	3.5	U
594-20-7	2,2-Dichloropropane	3.5	U
563-58-6	1,1-Dichloropropene	3.5	U

COPY 1

SPECIALIZED ASSAYS, INC.
2960 Foster Creighton Dr.
P.O. Box 40566
Nashville, TN 37204-0566
Phone 1-615-726-0177

Sample Identification

264717

Matrix: Soil
% Dry Weight: 57.
Units: ug/kg dry weight

Lab Sample ID: 00-A58005
Date Sampled: 4/25/00
Date Received: 4/28/00

FORM I

CAS NUMBER	ANALYTE	CONCENTRATION	FLAG
10061-01-5	cis-1,3-Dichloropropene	3.5	U
10061-02-6	trans-1,3-Dichloropropene	3.5	U
123-91-1	1,4-Dioxane	17.5	U
100-41-4	Ethylbenzene	3.5	U
97-63-2	Ethyl methacrylate	8.8	U
87-68-3	Hexachlorobutadiene	3.5	U
591-78-6	2-Hexanone	17.5	U
74-88-4	Iodomethane	3.5	U
98-82-8	Isopropylbenzene	3.5	U
99-87-6	4-Isopropyltoluene	3.5	U
108-10-1	4-Methyl-2-pentanone	17.5	U
75-09-2	Methylene chloride	8.8	U
91-20-3	Naphthalene	8.8	U
103-65-1	n-Propylbenzene	3.5	U
100-42-5	Styrene	3.5	U
630-20-6	1,1,1,2-Tetrachloroethane	3.5	U
79-34-5	1,1,2,2-Tetrachloroethane	3.5	U
127-18-4	Tetrachloroethene	3.5	U
108-88-3	Toluene	3.5	U
87-61-6	1,2,3-Trichlorobenzene	3.5	U
120-82-1	1,2,4-Trichlorobenzene	3.5	U
71-55-6	1,1,1-Trichloroethane	3.5	U
79-00-5	1,1,2-Trichloroethane	3.5	U
79-01-6	Trichloroethene	3.5	U
96-18-4	1,2,3-Trichloropropane	3.5	U
95-63-6	1,2,4-Trimethylbenzene	3.5	U
108-67-8	1,3,5-Trimethylbenzene	3.5	U
108-05-4	Vinyl acetate	17.5	U
75-01-4	Vinyl chloride	3.5	U
75-27-4	Bromodichloromethane	3.5	U
6615	o-Xylene	3.5	U
1330-20-7	m,p-Xylene	3.5	U
75-69-4	Trichlorofluoromethane	3.5	U
5998	Hexane	8.8	U

COPY 1

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\042400\58005.D
Acq On : 30 Apr 2000 1:13 am
Sample : 1
Misc : soil
MS Integration Params: rteint.p
Quant Time: May 12 8:33 19100

Vial: 24
Operator:
Inst : HP-10
Multiplr: 1.00

Quant Results File: S041200.RES

Quant Method : C:\HPCHEM\1\METHODS\S041200.M (RTE Integrator)
Title : 8260 volatile organics
Last Update : Fri May 12 08:15:05 2000
Response via : Initial Calibration
DataAcq Meth : S041200

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	11.85	168	252190	30.00	ug/L	-0.09
31) 1,4-Difluorobenzene	13.14	114	429342	30.00	ug/L	-0.08
49) Chlorobenzene-d5	17.82	119	102096	30.00	ug/L	-0.06
63) 1,4-Dichlorobenzene-d4	21.43	152	110491	30.00	ug/L	-0.06
64) Ethylbenzene-d10	18.02	98	565421	30.00	ug/L	-0.06
System Monitoring Compounds						
26) 1,2-Dichloroethane-d4	11.89	65	172497	32.37	ug/L	0.00
Spiked Amount 30.000			Recovery = 107.90%			
27) Dibromofluoromethane	11.19	111	155676	40.75	ug/L	-0.09
Spiked Amount 30.000			Recovery = 135.83%			
44) Toluene-d8	15.77	98	478468	30.61	ug/L	-0.07
Spiked Amount 30.000			Recovery = 102.03%			
66) Bromofluorobenzene	19.56	95	130670	21.18	ug/L	-0.05
Spiked Amount 30.000			Recovery = 70.60%			

Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration
58005.D S041200.M Fri May 12 08:33:40 2000

Quantitation Report

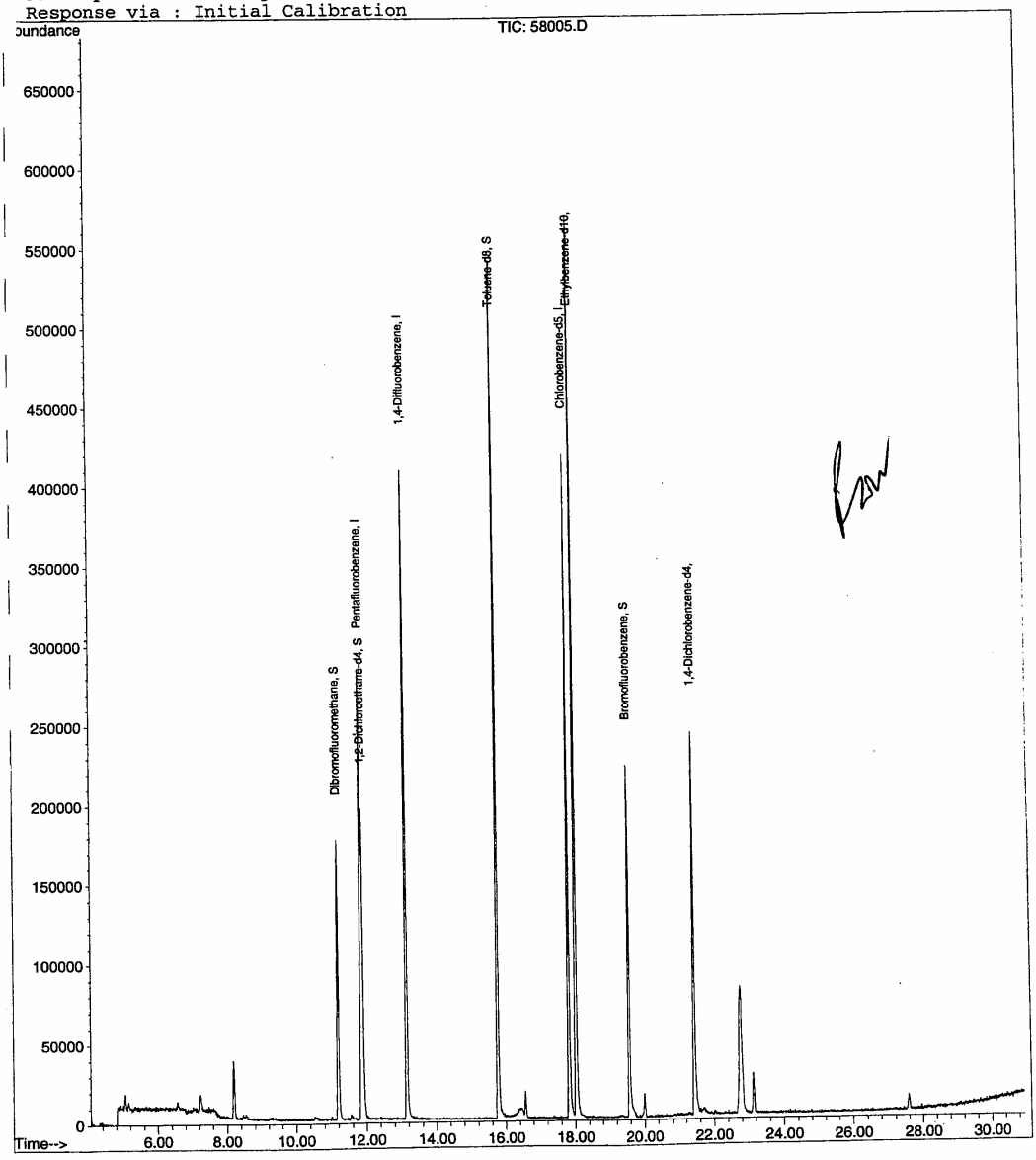
058

Data File : C:\HPCHEM\1\DATA\042400\58005.D
Acq On : 30 Apr 2000 1:13 am
Sample : 1
Misc : soil
MS Integration Params: rteint.p
Quant Time: May 12 8:33 19100

Vial: 24
Operator:
Inst : HP-10
Multiplr: 1.00

Quant Results File: S041200.RES

Method : C:\HPCHEM\1\METHODS\S041200.M (RTE Integrator)
Title : 8260 volatile organics
Last Update : Fri May 12 08:15:05 2000
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\TEMP\58005.D
Acq On : 30 Apr 2000 1:13 am
Sample : 1
Misc : soil
MS Integration Params: rteint.p
Quant Time: May 12 9:48 19100

Vial: 24
Operator:
Inst : HP-10
Multiplr: 1.00

Quant Results File: APS0219.RES

Quant Method : C:\HPCHEM\1\METHODS\APS0219.M (RTE Integrator)
Title : APPIX IX MIX
Last Update : Tue Mar 21 17:13:42 2000
Response via : Initial Calibration
DataAcq Meth : S041200

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Pentafluorobenzene	11.85	99	152212	30.00 ug/L	-0.05
18) 1,4-Difluorobenzene	13.14	63	102705	30.00 ug/L	-0.05
27) Chlorobenzene-d5	17.82	119	102096	30.00 ug/L	-0.05
29) 1,4-Dichlorobenzene-d4	21.43	152	110491	30.00 ug/L	-0.05
30) Ethylbenzene-d10	18.02	98	565421	30.00 ug/L	-0.05
System Monitoring Compounds					
16) 1,2-Dichloroethane-d4	11.89	65	172497	34.21 ug/L	-0.06
Spiked Amount 30.000			Recovery =	114.03%	
17) Dibromofluoromethane	11.19	111	155676	31.18 ug/L	-0.06
Spiked Amount 30.000			Recovery =	103.93%	
21) Toluene-d8	15.77	98	478468	27.31 ug/L	-0.05
Spiked Amount 30.000			Recovery =	91.03%	
31) Bromofluorobenzene	19.56	95	130670	22.83 ug/L	-0.03
Spiked Amount 30.000			Recovery =	76.10%	

Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration
58005.D APS0219.M Fri May 12 09:48:39 2000

Quantitation Report

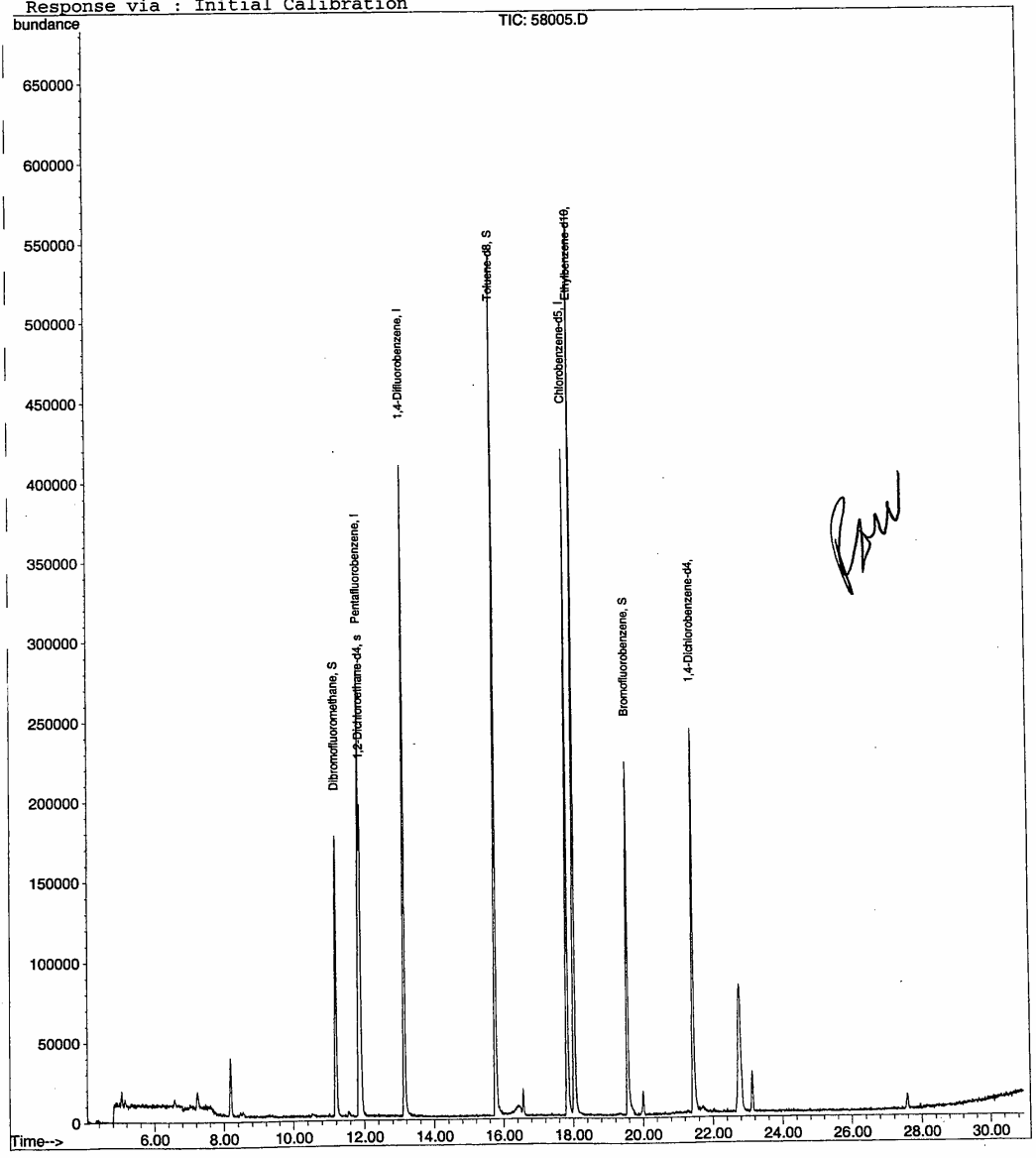
060

Data File : C:\HPCHEM\1\DATA\TEMP\58005.D
Acq On : 30 Apr 2000 1:13 am
Sample : 1
Misc : soil
MS Integration Params: rteint.p
Quant Time: May 12 9:48 19100

Vial: 24
Operator:
Inst : HP-10
Multiplr: 1.00

Quant Results File: APS0219.RES

Method : C:\HPCHEM\1\METHODS\APS0219.M (RTE Integrator)
Title : APPIX IX MIX
Last Update : Tue Mar 21 17:13:42 2000
Response via : Initial Calibration



SPECIALIZED ASSAYS, INC.
2960 Foster Creighton Dr.
P.O. Box 40566
Nashville, TN 37204-0566
Phone 1-615-726-0177

Sample Identification

264718

Matrix: Soil
% Dry Weight: 84.
Units: ug/kg dry weight
Dilution Factor: 1.
Analysis Method: SW8260B
Delivery Group: 189955
Instrument: HP-10

Lab Sample ID: 00-A58006
Date Sampled: 4/25/00
Date Received: 4/28/00
Analysis Date: 4/30/00
Analysis Time: 1:50
Sample QC Group: 7224

FORM I

CAS NUMBER	ANALYTE	CONCENTRATION	FLAG
67-64-1	Acetone	11.9	U
107-02-8	Acrolein	11.9	U
107-13-1	Acrylonitrile	11.9	U
71-43-2	Benzene	2.4	U
108-86-1	Bromobenzene	2.4	U
74-97-5	Bromochloromethane	2.4	U
75-25-2	Bromoform	2.4	U
74-83-9	Bromomethane	2.4	U
78-93-3	2-Butanone	11.9	U
104-51-8	n-Butylbenzene	2.4	U
135-98-8	sec-Butylbenzene	2.4	U
98-06-6	t-Butylbenzene	2.4	U
75-15-0	Carbon disulfide	2.4	U
56-23-5	Carbon tetrachloride	2.4	U
108-90-7	Chlorobenzene	2.4	U
75-00-3	Chloroethane	2.4	U
110-75-8	2-Chloroethylvinylether	2.4	U
67-66-3	Chloroform	2.4	U
74-87-3	Chloromethane	2.4	U
95-49-8	2-Chlorotoluene	2.4	U
106-43-4	4-Chlorotoluene	2.4	U
96-12-8	1,2-Dibromo-3-chloropropane	11.9	U
124-48-1	Dibromochloromethane	2.4	U
106-93-4	1,2-Dibromoethane	2.4	U
74-95-3	Dibromomethane	2.4	U
110-57-6	1,4-Dichloro-2-butene	2.4	U
95-50-1	1,2-Dichlorobenzene	2.4	U
541-73-1	1,3-Dichlorobenzene	2.4	U
106-46-7	1,4-Dichlorobenzene	2.4	U
75-71-8	Dichlorodifluoromethane	2.4	U
75-34-3	1,1-Dichloroethane	2.4	U
107-06-2	1,2-Dichloroethane	2.4	U
75-35-4	1,1-Dichloroethene	2.4	U
156-59-2	cis-1,2-Dichloroethene	2.4	U
156-60-5	trans-1,2-Dichloroethene	2.4	U
78-87-5	1,2-Dichloropropane	2.4	U
142-28-9	1,3-Dichloropropane	2.4	U
594-20-7	2,2-Dichloropropane	2.4	U
563-58-6	1,1-Dichloropropene	2.4	U

SPECIALIZED ASSAYS, INC.
2960 Foster Creighton Dr.
P.O. Box 40566
Nashville, TN 37204-0566
Phone 1-615-726-0177

Sample Identification

264718

Matrix: Soil
% Dry Weight: 84.
Units: ug/kg dry weight

Lab Sample ID: 00-A58006
Date Sampled: 4/25/00
Date Received: 4/28/00

FORM I

CAS NUMBER	ANALYTE	CONCENTRATION	FLAG
10061-01-5	cis-1,3-Dichloropropene	2.4	U
10061-02-6	trans-1,3-Dichloropropene	2.4	U
123-91-1	1,4-Dioxane	11.9	U
100-41-4	Ethylbenzene	2.4	U
97-63-2	Ethyl methacrylate	6.0	U
87-68-3	Hexachlorobutadiene	2.4	U
591-78-6	2-Hexanone	11.9	U
74-88-4	Iodomethane	2.4	U
98-82-8	Isopropylbenzene	2.4	U
99-87-6	4-Isopropyltoluene	2.4	U
108-10-1	4-Methyl-2-pentanone	11.9	U
75-09-2	Methylene chloride	6.0	U
91-20-3	Naphthalene	6.0	U
103-65-1	n-Propylbenzene	2.4	U
100-42-5	Styrene	2.4	U
630-20-6	1,1,1,2-Tetrachloroethane	2.4	U
79-34-5	1,1,2,2-Tetrachloroethane	2.4	U
127-18-4	Tetrachloroethene	2.4	U
108-88-3	Toluene	2.4	U
87-61-6	1,2,3-Trichlorobenzene	2.4	U
120-82-1	1,2,4-Trichlorobenzene	2.4	U
71-55-6	1,1,1-Trichloroethane	2.4	U
79-00-5	1,1,2-Trichloroethane	2.4	U
79-01-6	Trichloroethene	2.4	U
96-18-4	1,2,3-Trichloropropane	2.4	U
95-63-6	1,2,4-Trimethylbenzene	2.4	U
108-67-8	1,3,5-Trimethylbenzene	2.4	U
108-05-4	Vinyl acetate	11.9	U
75-01-4	Vinyl chloride	2.4	U
75-27-4	Bromodichloromethane	2.4	U
6615	o-Xylene	2.4	U
1330-20-7	m,p-Xylene	2.4	U
75-69-4	Trichlorofluoromethane	2.4	U
5998	Hexane	6.0	U

Quantitation Report (QT Reviewed)

063

Data File : C:\HPCHEM\1\DATA\042400\58006.D
Acq On : 30 Apr 2000 1:50 am
Sample : 1
Misc : soil
MS Integration Params: rteint.p
Quant Time: May 12 8:39 19100

Vial: 25
Operator:
Inst : HP-10
Multiplr: 1.00

Quant Results File: S041200.RES

Quant Method : C:\HPCHEM\1\METHODS\S041200.M (RTE Integrator)
Title : 8260 volatile organics
Last Update : Fri May 12 08:15:05 2000
Response via : Initial Calibration
DataAcq Meth : S041200

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	11.85	168	261540	30.00	ug/L	-0.08
31) 1,4-Difluorobenzene	13.14	114	441048	30.00	ug/L	-0.08
49) Chlorobenzene-d5	17.83	119	112706	30.00	ug/L	-0.05
63) 1,4-Dichlorobenzene-d4	21.44	152	146094	30.00	ug/L	-0.05
64) Ethylbenzene-d10	18.02	98	617885	30.00	ug/L	-0.06
System Monitoring Compounds						
26) 1,2-Dichloroethane-d4	11.90	65	193402	35.20	ug/L	0.00
Spiked Amount 30.000			Recovery =	117.33%		
27) Dibromofluoromethane	11.19	111	163876	41.41	ug/L	-0.09
Spiked Amount 30.000			Recovery =	138.03%		
44) Toluene-d8	15.77	98	499518	31.17	ug/L	-0.07
Spiked Amount 30.000			Recovery =	103.90%		
66) Bromofluorobenzene	19.55	95	156090	23.45	ug/L	-0.05
Spiked Amount 30.000			Recovery =	78.17%		

Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration
58006.D S041200.M Fri May 12 08:39:51 2000

000157

Quantitation Report

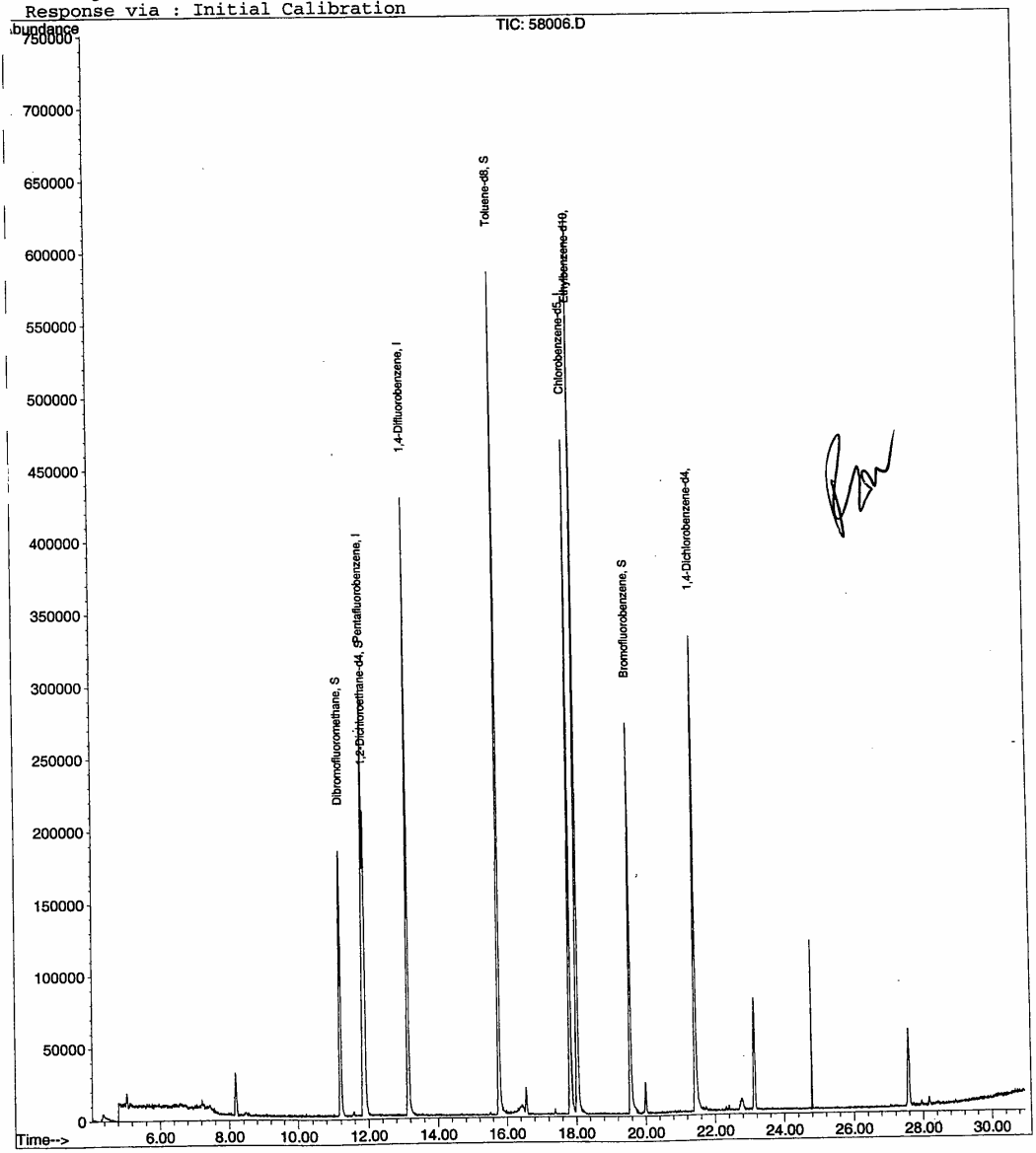
064

Data File : C:\HPCHEM\1\DATA\042400\58006.D
Acq On : 30 Apr 2000 1:50 am
Sample : 1
Misc : soil
MS Integration Params: rteint.p
Quant Time: May 12 8:39 19100

Vial: 25
Operator:
Inst : HP-10
Multiplr: 1.00

Quant Results File: S041200.RES

Method : C:\HPCHEM\1\METHODS\S041200.M (RTE Integrator)
Title : 8260 volatile organics
Last Update : Fri May 12 08:15:05 2000
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

065

Data File : C:\HPCHEM\1\DATA\TEMP\58006.D
Acq On : 30 Apr 2000 1:50 am
Sample : 1
Misc : soil
MS Integration Params: rteint.p
Quant Time: May 12 9:49 19100

Vial: 25
Operator:
Inst : HP-10
Multiplr: 1.00

Quant Results File: APS0219.RES

Quant Method : C:\HPCHEM\1\METHODS\APS0219.M (RTE Integrator)
Title : APPIX IX MIX
Last Update : Tue Mar 21 17:13:42 2000
Response via : Initial Calibration
DataAcq Meth : S041200

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	11.85	99	158924	30.00	ug/L	-0.06
18) 1,4-Difluorobenzene	13.13	63	106467	30.00	ug/L	-0.06
27) Chlorobenzene-d5	17.83	119	112706	30.00	ug/L	-0.04
29) 1,4-Dichlorobenzene-d4	21.44	152	146094	30.00	ug/L	-0.05
30) Ethylbenzene-d10	18.02	98	617885	30.00	ug/L	-0.05
System Monitoring Compounds						
16) 1,2-Dichloroethane-d4	11.90	65	193402	36.73	ug/L	-0.05
Spiked Amount 30.000			Recovery = 122.43%			
17) Dibromofluoromethane	11.19	111	163876	31.44	ug/L	-0.06
Spiked Amount 30.000			Recovery = 104.80%			
21) Toluene-d8	15.77	98	499518	27.51	ug/L	-0.05
Spiked Amount 30.000			Recovery = 91.70%			
31) Bromofluorobenzene	19.55	95	156090	24.96	ug/L	-0.04
Spiked Amount 30.000			Recovery = 83.20%			

Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration
58006.D APS0219.M Fri May 12 09:49:15 2000

Quantitation Report

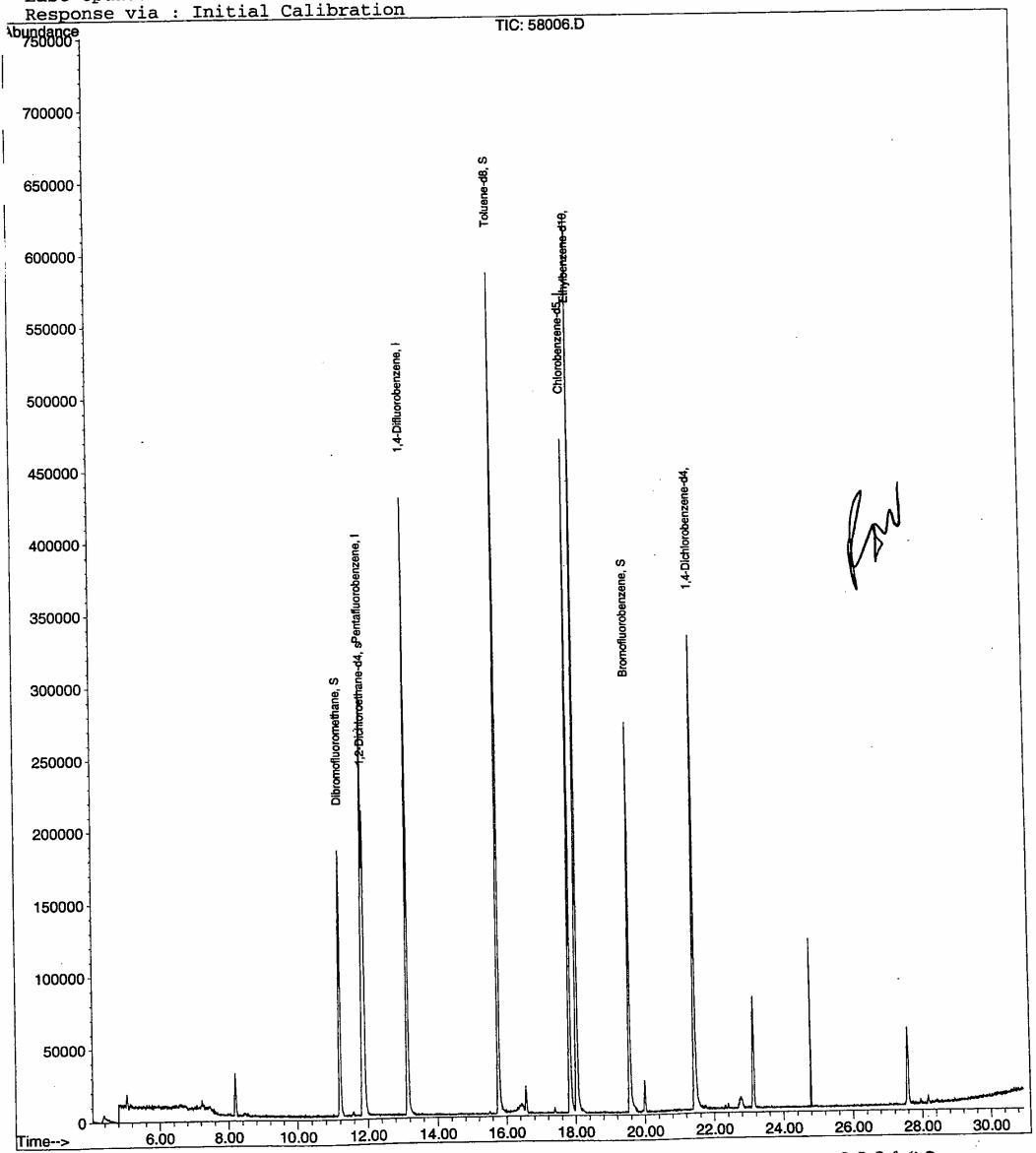
066

Data File : C:\HPCHEM\1\DATA\TEMP\58006.D
Acq On : 30 Apr 2000 1:50 am
Sample : 1
Misc : soil
MS Integration Params: rteint.p
Quant Time: May 12 9:49 19100

Vial: 25
Operator:
Inst : HP-10
Multiplr: 1.00

Quant Results File: APS0219.RES

Method : C:\HPCHEM\1\METHODS\APS0219.M (RTE Integrator)
Title : APPIX IX MIX
Last Update : Tue Mar 21 17:13:42 2000
Response via : Initial Calibration



SPECIALIZED ASSAYS, INC.
2960 Foster Creighton Dr.
P.O. Box 40566
Nashville, TN 37204-0566
Phone 1-615-726-0177

Sample Identification

264719

Matrix: Soil
% Dry Weight: 81.
Units: ug/kg dry weight
Dilution Factor: 1.
Analysis Method: SW8260B
Delivery Group: 189955
Instrument: HP-10

Lab Sample ID: 00-A58007
Date Sampled: 4/25/00
Date Received: 4/28/00
Analysis Date: 5/ 1/00
Analysis Time: 13:51
Sample QC Group: 7224

FORM I

CAS NUMBER	ANALYTE	CONCENTRATION	FLAG
67-64-1	Acetone	12.3	U
107-02-8	Acrolein	12.3	U
107-13-1	Acrylonitrile	12.3	U
71-43-2	Benzene	2.5	U
108-86-1	Bromobenzene	2.5	U
74-97-5	Bromochloromethane	2.5	U
75-25-2	Bromoform	2.5	U
74-83-9	Bromomethane	2.5	U
78-93-3	2-Butanone	12.3	U
104-51-8	n-Butylbenzene	2.5	U
135-98-8	sec-Butylbenzene	2.5	U
98-06-6	t-Butylbenzene	2.5	U
75-15-0	Carbon disulfide	2.5	U
56-23-5	Carbon tetrachloride	2.5	U
108-90-7	Chlorobenzene	2.5	U
75-00-3	Chloroethane	2.5	U
110-75-8	2-Chloroethylvinylether	2.5	U
67-66-3	Chloroform	2.5	U
74-87-3	Chloromethane	2.5	U
95-49-8	2-Chlorotoluene	2.5	U
106-43-4	4-Chlorotoluene	2.5	U
96-12-8	1,2-Dibromo-3-chloropropane	12.3	U
124-48-1	Dibromochloromethane	2.5	U
106-93-4	1,2-Dibromoethane	2.5	U
74-95-3	Dibromomethane	2.5	U
110-57-6	1,4-Dichloro-2-butene	2.5	U
95-50-1	1,2-Dichlorobenzene	2.5	U
541-73-1	1,3-Dichlorobenzene	2.5	U
106-46-7	1,4-Dichlorobenzene	2.5	U
75-71-8	Dichlorodifluoromethane	2.5	U
75-34-3	1,1-Dichloroethane	2.5	U
107-06-2	1,2-Dichloroethane	2.5	U
75-35-4	1,1-Dichloroethene	2.5	U
156-59-2	cis-1,2-Dichloroethene	2.5	U
156-60-5	trans-1,2-Dichloroethene	2.5	U
78-87-5	1,2-Dichloropropane	2.5	U
142-28-9	1,3-Dichloropropane	2.5	U
594-20-7	2,2-Dichloropropane	2.5	U
563-58-6	1,1-Dichloropropene	2.5	U

COPY 1

SPECIALIZED ASSAYS, INC.
2960 Foster Creighton Dr.
P.O. Box 40566
Nashville, TN 37204-0566
Phone 1-615-726-0177

Sample Identification

264719

Matrix: Soil
% Dry Weight: 81.
Units: ug/kg dry weight

Lab Sample ID: 00-A58007
Date Sampled: 4/25/00
Date Received: 4/28/00

FORM I

CAS NUMBER	ANALYTE	CONCENTRATION	FLAG
10061-01-5	cis-1,3-Dichloropropene	2.5	U
10061-02-6	trans-1,3-Dichloropropene	2.5	U
123-91-1	1,4-Dioxane	12.3	U
100-41-4	Ethylbenzene	2.5	U
97-63-2	Ethyl methacrylate	6.2	U
87-68-3	Hexachlorobutadiene	2.5	U
591-78-6	2-Hexanone	12.3	U
74-88-4	Iodomethane	2.5	U
98-82-8	Isopropylbenzene	2.5	U
99-87-6	4-Isopropyltoluene	2.5	U
108-10-1	4-Methyl-2-pentanone	12.3	U
75-09-2	Methylene chloride	6.2	U
91-20-3	Naphthalene	6.2	U
103-65-1	n-Propylbenzene	2.5	U
100-42-5	Styrene	2.5	U
630-20-6	1,1,1,2-Tetrachloroethane	2.5	U
79-34-5	1,1,2,2-Tetrachloroethane	2.5	U
127-18-4	Tetrachloroethene	2.5	U
108-88-3	Toluene	2.5	U
87-61-6	1,2,3-Trichlorobenzene	2.5	U
120-82-1	1,2,4-Trichlorobenzene	2.5	U
71-55-6	1,1,1-Trichloroethane	2.5	U
79-00-5	1,1,2-Trichloroethane	2.5	U
79-01-6	Trichloroethene	2.5	U
96-18-4	1,2,3-Trichloropropane	2.5	U
95-63-6	1,2,4-Trimethylbenzene	2.5	U
108-67-8	1,3,5-Trimethylbenzene	2.5	U
108-05-4	Vinyl acetate	12.3	U
75-01-4	Vinyl chloride	2.5	U
75-27-4	Bromodichloromethane	2.5	U
6615	o-Xylene	2.5	U
1330-20-7	m,p-Xylene	2.5	U
75-69-4	Trichlorofluoromethane	2.5	U
5998	Hexane	6.2	U

COPY 1

Quantitation Report (QT Reviewed)

069

Data File : C:\HPCHEM\1\DATA\050100\58007B.D
Acq On : 1 May 2000 1:51 pm
Sample : 1
Misc : soil
MS Integration Params: rteint.p
Quant Time: May 12 8:42 19100

Vial: 7
Operator:
Inst : HP-10
Multiplr: 1.00

Quant Results File: S041200.RES

Quant Method : C:\HPCHEM\1\METHODS\S041200.M (RTE Integrator)
Title : 8260 volatile organics
Last Update : Fri May 12 08:15:05 2000
Response via : Initial Calibration
DataAcq Meth : S041200

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	11.86	168	282469	30.00	ug/L	-0.07
31) 1,4-Difluorobenzene	13.15	114	471822	30.00	ug/L	-0.07
49) Chlorobenzene-d5	17.84	119	116994	30.00	ug/L	-0.04
63) 1,4-Dichlorobenzene-d4	21.45	152	125462	30.00	ug/L	-0.04
64) Ethylbenzene-d10	18.04	98	634662	30.00	ug/L	-0.04
System Monitoring Compounds						
26) 1,2-Dichloroethane-d4	11.91	65	202281	34.01	ug/L	0.02
Spiked Amount 30.000			Recovery = 113.37%			
27) Dibromofluoromethane	11.21	111	174043	40.67	ug/L	-0.07
Spiked Amount 30.000			Recovery = 135.57%			
44) Toluene-d8	15.78	98	528491	30.79	ug/L	-0.05
Spiked Amount 30.000			Recovery = 102.63%			
66) Bromofluorobenzene	19.57	95	156924	22.88	ug/L	-0.04
Spiked Amount 30.000			Recovery = 76.27%			

Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration
58007B.D S041200.M Fri May 12 08:42:13 2000

Quantitation Report

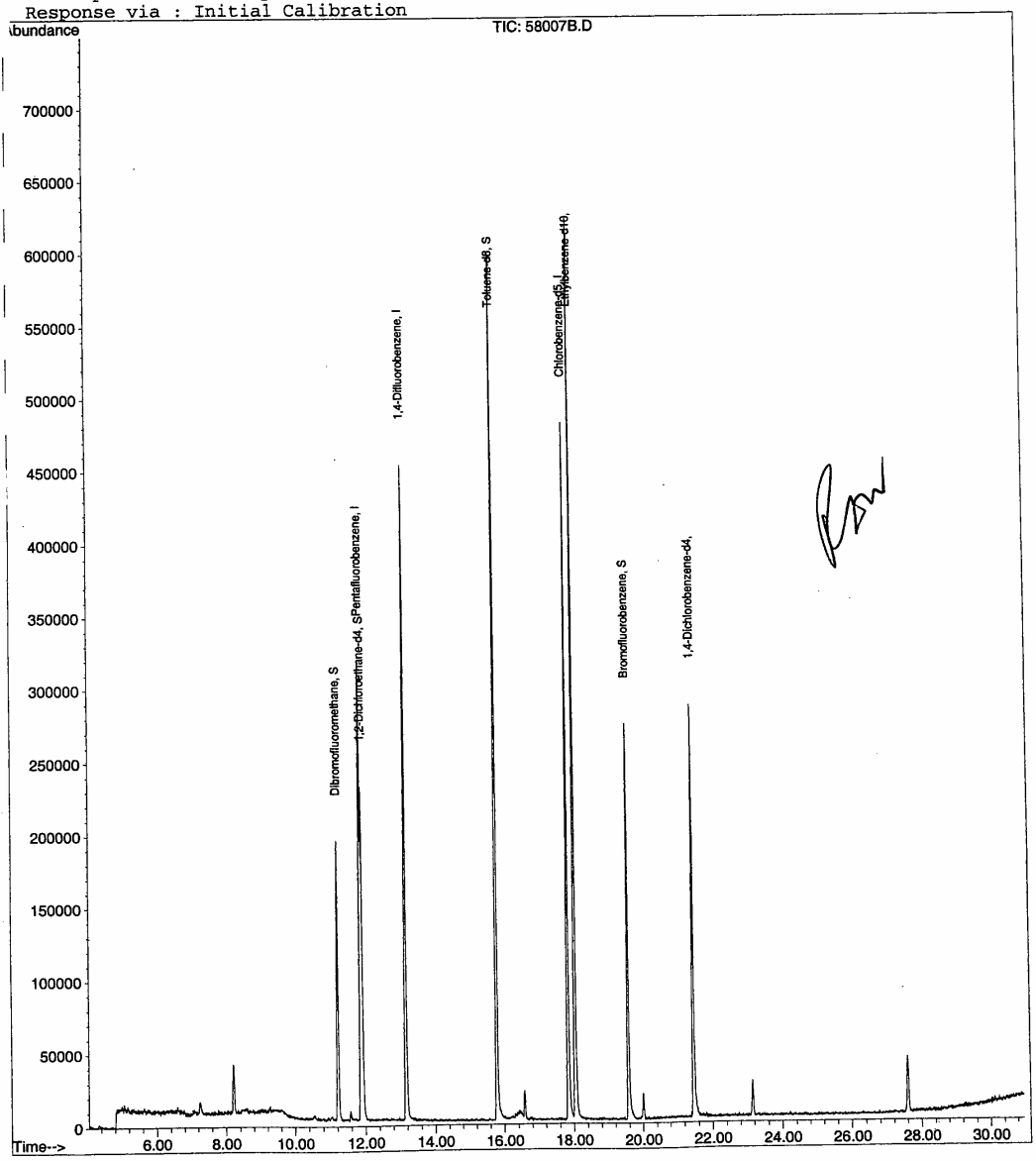
070

Data File : C:\HPCHEM\1\DATA\050100\58007B.D
Acq On : 1 May 2000 1:51 pm
Sample : 1
Misc : soil
MS Integration Params: rteint.p
Quant Time: May 12 8:42 19100

Vial: 7
Operator:
Inst : HP-10
Multiplr: 1.00

Quant Results File: S041200.RES

Method : C:\HPCHEM\1\METHODS\S041200.M (RTE Integrator)
Title : 8260 volatile organics
Last Update : Fri May 12 08:15:05 2000
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\TEMP\58007B.D
Acq On : 1 May 2000 1:51 pm
Sample : 1
Misc : soil
MS Integration Params: rteint.p
Quant Time: May 12 10:21 19100

Vial: 7
Operator:
Inst : HP-10
Multiplr: 1.00

Quant Results File: APS0219.RES

Quant Method : C:\HPCHEM\1\METHODS\APS0219.M (RTE Integrator)
Title : APPIX IX MIX
Last Update : Tue Mar 21 17:13:42 2000
Response via : Initial Calibration
DataAcq Meth : S041200

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	11.86	99	165998	30.00	ug/L	-0.04
18) 1,4-Difluorobenzene	13.16	63	110696	30.00	ug/L	-0.03
27) Chlorobenzene-d5	17.84	119	116994	30.00	ug/L	-0.03
29) 1,4-Dichlorobenzene-d4	21.45	152	125462	30.00	ug/L	-0.03
30) Ethylbenzene-d10	18.04	98	634662	30.00	ug/L	-0.03
System Monitoring Compounds						
16) 1,2-Dichloroethane-d4	11.91	65	202281	36.78	ug/L	-0.04
Spiked Amount 30.000			Recovery =	122.60%		
17) Dibromofluoromethane	11.21	111	174043	31.96	ug/L	-0.04
Spiked Amount 30.000			Recovery =	106.53%		
21) Toluene-d8	15.78	98	528491	27.99	ug/L	-0.04
Spiked Amount 30.000			Recovery =	93.30%		
31) Bromofluorobenzene	19.57	95	156924	24.43	ug/L	-0.02
Spiked Amount 30.000			Recovery =	81.43%		

Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration
58007B.D APS0219.M Fri May 12 10:22:07 2000

Quantitation Report

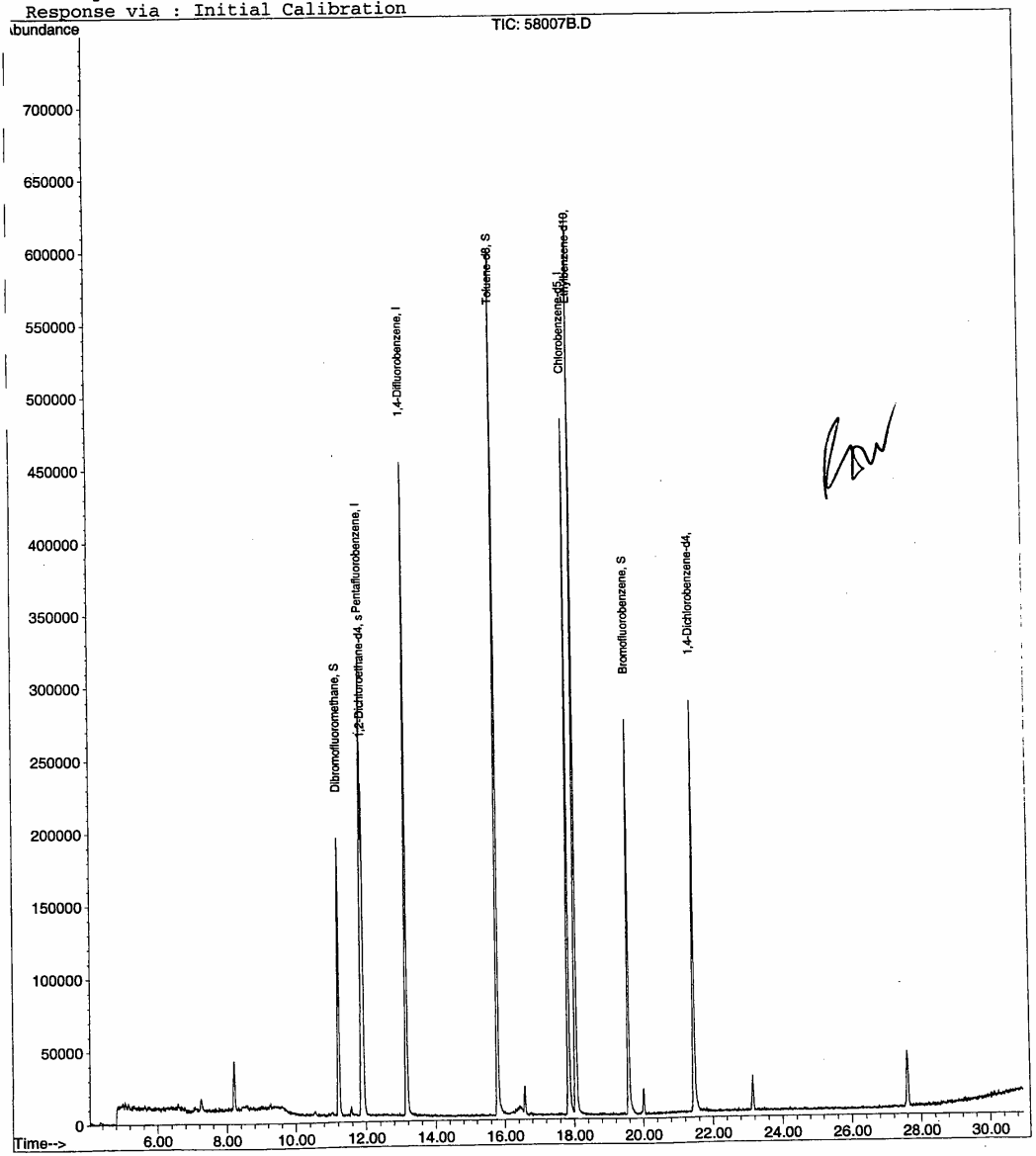
072

Data File : C:\HPCHEM\1\DATA\TEMP\58007B.D
Acq On : 1 May 2000 1:51 pm
Sample : 1
Misc : soil
MS Integration Params: rteint.p
Quant Time: May 12 10:21 19100

Vial: 7
Operator:
Inst : HP-10
Multiplr: 1.00

Quant Results File: APS0219.RES

Method : C:\HPCHEM\1\METHODS\APS0219.M (RTE Integrator)
Title : APPIX IX MIX
Last Update : Tue Mar 21 17:13:42 2000
Response via : Initial Calibration



SPECIALIZED ASSAYS, INC.
2960 Foster Creighton Dr.
P.O. Box 40566
Nashville, TN 37204-0566
Phone 1-615-726-0177

Sample Identification

264720

Matrix: Soil
% Dry Weight: 84.
Units: ug/kg dry weight
Dilution Factor: 1.
Analysis Method: SW8260B
Delivery Group: 189935
Instrument: HP-10

Lab Sample ID: 00-A58008
Date Sampled: 4/25/00
Date Received: 4/28/00
Analysis Date: 4/30/00
Analysis Time: 3:03
Sample QC Group: 7224

FORM I

CAS NUMBER	ANALYTE	CONCENTRATION	FLAG
67-64-1	Acetone	11.9	U
107-02-8	Acrolein	11.9	U
107-13-1	Acrylonitrile	11.9	U
71-43-2	Benzene	2.4	U
108-86-1	Bromobenzene	2.4	U
74-97-5	Bromochloromethane	2.4	U
75-25-2	Bromoform	2.4	U
74-83-9	Bromomethane	2.4	U
78-93-3	2-Butanone	11.9	U
104-51-8	n-Butylbenzene	2.4	U
135-98-8	sec-Butylbenzene	2.4	U
98-06-6	t-Butylbenzene	2.4	U
75-15-0	Carbon disulfide	2.4	U
56-23-5	Carbon tetrachloride	2.4	U
108-90-7	Chlorobenzene	2.4	U
75-00-3	Chloroethane	2.4	U
110-75-8	2-Chloroethylvinylether	2.4	U
67-66-3	Chloroform	2.4	U
74-87-3	Chloromethane	2.4	U
95-49-8	2-Chlorotoluene	2.4	U
106-43-4	4-Chlorotoluene	2.4	U
96-12-8	1,2-Dibromo-3-chloropropane	11.9	U
124-48-1	Dibromochloromethane	2.4	U
106-93-4	1,2-Dibromoethane	2.4	U
74-95-3	Dibromomethane	2.4	U
110-57-6	1,4-Dichloro-2-butene	2.4	U
95-50-1	1,2-Dichlorobenzene	2.4	U
541-73-1	1,3-Dichlorobenzene	2.4	U
106-46-7	1,4-Dichlorobenzene	2.4	U
75-71-8	Dichlorodifluoromethane	2.4	U
75-34-3	1,1-Dichloroethane	2.4	U
107-06-2	1,2-Dichloroethane	2.4	U
75-35-4	1,1-Dichloroethene	2.4	U
156-59-2	cis-1,2-Dichloroethene	2.4	U
156-60-5	trans-1,2-Dichloroethene	2.4	U
78-87-5	1,2-Dichloropropane	2.4	U
142-28-9	1,3-Dichloropropane	2.4	U
594-20-7	2,2-Dichloropropane	2.4	U
563-58-6	1,1-Dichloropropene	2.4	U

COPY 1

SPECIALIZED ASSAYS, INC.
2960 Foster Creighton Dr.
P.O. Box 40566
Nashville, TN 37204-0566
Phone 1-615-726-0177

Sample Identification

264720

Matrix: Soil
% Dry Weight: 84.
Units: ug/kg dry weight

Lab Sample ID: 00-A58008
Date Sampled: 4/25/00
Date Received: 4/28/00

FORM I

CAS NUMBER	ANALYTE	CONCENTRATION	FLAG
10061-01-5	cis-1,3-Dichloropropene	2.4	U
10061-02-6	trans-1,3-Dichloropropene	2.4	U
123-91-1	1,4-Dioxane	11.9	U
100-41-4	Ethylbenzene	2.4	U
97-63-2	Ethyl methacrylate	6.0	U
87-68-3	Hexachlorobutadiene	2.4	U
591-78-6	2-Hexanone	11.9	U
74-88-4	Iodomethane	2.4	U
98-82-8	Isopropylbenzene	2.4	U
99-87-6	4-Isopropyltoluene	2.4	U
108-10-1	4-Methyl-2-pentanone	11.9	U
75-09-2	Methylene chloride	6.0	U
91-20-3	Naphthalene	6.0	U
103-65-1	n-Propylbenzene	2.4	U
100-42-5	Styrene	2.4	U
630-20-6	1,1,1,2-Tetrachloroethane	2.4	U
79-34-5	1,1,2,2-Tetrachloroethane	2.4	U
127-18-4	Tetrachloroethene	2.4	U
108-88-3	Toluene	2.4	U
87-61-6	1,2,3-Trichlorobenzene	2.4	U
120-82-1	1,2,4-Trichlorobenzene	2.4	U
71-55-6	1,1,1-Trichloroethane	2.4	U
79-00-5	1,1,2-Trichloroethane	2.4	U
79-01-6	Trichloroethene	2.4	U
96-18-4	1,2,3-Trichloropropane	2.4	U
95-63-6	1,2,4-Trimethylbenzene	2.4	U
108-67-8	1,3,5-Trimethylbenzene	2.4	U
108-05-4	Vinyl acetate	11.9	U
75-01-4	Vinyl chloride	2.4	U
75-27-4	Bromodichloromethane	2.4	U
6615	o-Xylene	2.4	U
1330-20-7	m,p-Xylene	2.4	U
75-69-4	Trichlorofluoromethane	2.4	U
5998	Hexane	6.0	U

COPY 1

Quantitation Report (QT Reviewed)

075

Data File : C:\HPCHEM\1\DATA\042400\58008.D
Acq On : 30 Apr 2000 3:03 am
Sample : 1
Misc : soil
MS Integration Params: rteint.p
Quant Time: May 12 8:43 19100

Vial: 27
Operator:
Inst : HP-10
Multiplr: 1.00

Quant Results File: S041200.RES

Quant Method : C:\HPCHEM\1\METHODS\S041200.M (RTE Integrator)
Title : 8260 volatile organics
Last Update : Fri May 12 08:15:05 2000
Response via : Initial Calibration
DataAcq Meth : S041200

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Pentafluorobenzene	11.85	168	256821	30.00 ug/L	-0.08
31) 1,4-Difluorobenzene	13.14	114	442749	30.00 ug/L	-0.08
49) Chlorobenzene-d5	17.82	119	113602	30.00 ug/L	-0.06
63) 1,4-Dichlorobenzene-d4	21.44	152	146007	30.00 ug/L	-0.05
64) Ethylbenzene-d10	18.02	98	619515	30.00 ug/L	-0.06
System Monitoring Compounds					
26) 1,2-Dichloroethane-d4	11.90	65	195565	36.33 ug/L	0.00
Spiked Amount 30.000			Recovery	= 121.10%	
27) Dibromofluoromethane	11.19	111	160815	41.38 ug/L	-0.09
Spiked Amount 30.000			Recovery	= 137.93%	
44) Toluene-d8	15.77	98	496540	30.83 ug/L	-0.07
Spiked Amount 30.000			Recovery	= 102.77%	
66) Bromofluorobenzene	19.55	95	160646	24.15 ug/L	-0.05
Spiked Amount 30.000			Recovery	= 80.50%	

Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration
58008.D S041200.M Fri May 12 08:43:19 2000

000169

Quantitation Report

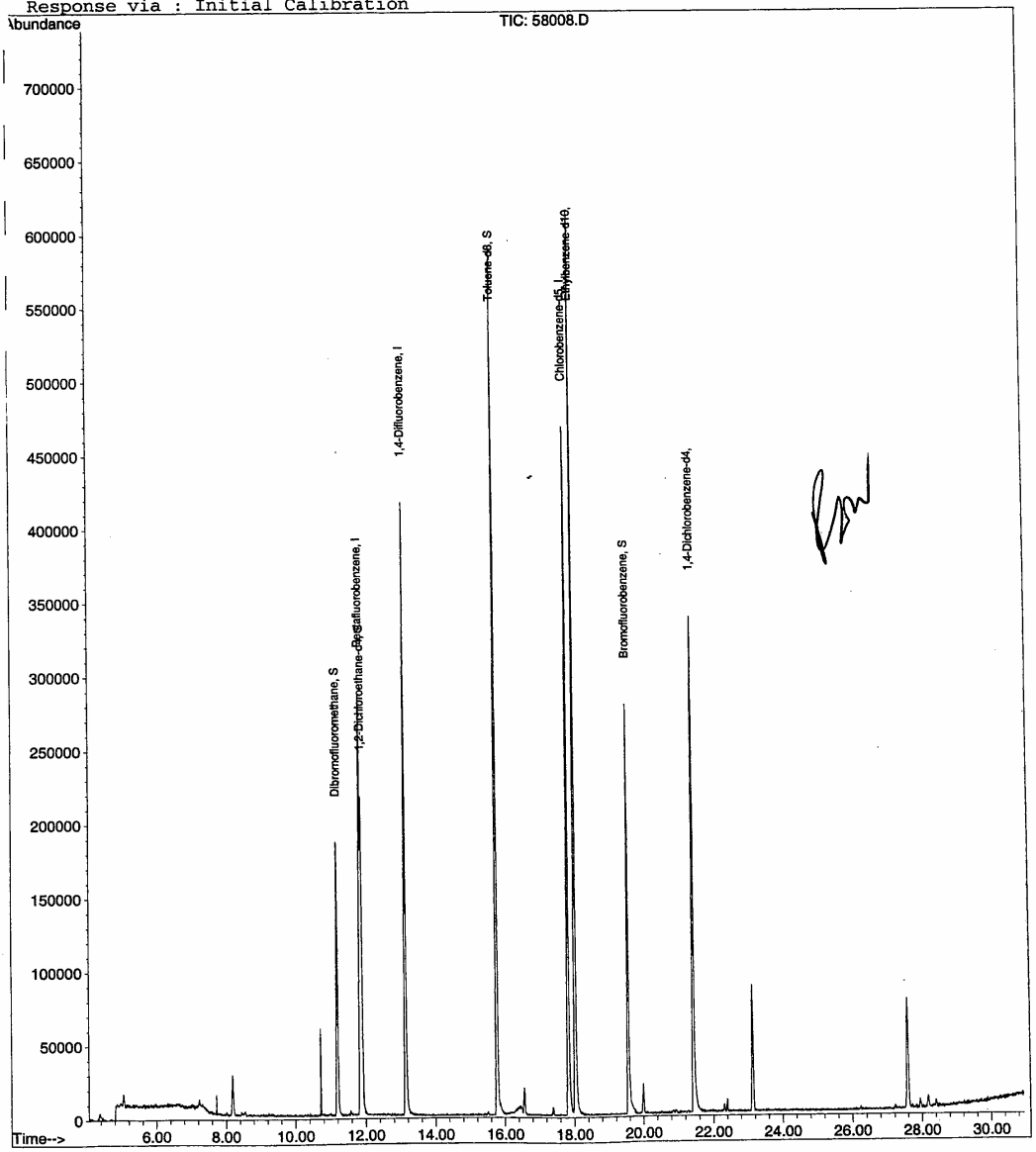
076

Data File : C:\HPCHEM\1\DATA\042400\58008.D
Acq On : 30 Apr 2000 3:03 am
Sample : 1
Misc : soil
MS Integration Params: rteint.p
Quant Time: May 12 8:43 19100

Vial: 27
Operator:
Inst : HP-10
Multiplr: 1.00

Quant Results File: S041200.RES

Method : C:\HPCHEM\1\METHODS\S041200.M (RTE Integrator)
Title : 8260 volatile organics
Last Update : Fri May 12 08:15:05 2000
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

077

Data File : C:\HPCHEM\1\DATA\TEMP\58008.D
Acq On : 30 Apr 2000 3:03 am
Sample : 1
Misc : soil
MS Integration Params: rteint.p
Quant Time: May 12 9:51 19100

Vial: 27
Operator:
Inst : HP-10
Multiplr: 1.00

Quant Results File: APS0219.RES

Quant Method : C:\HPCHEM\1\METHODS\APS0219.M (RTE Integrator)
Title : APPIX IX MIX
Last Update : Tue Mar 21 17:13:42 2000
Response via : Initial Calibration
DataAcq Meth : S041200

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	11.84	99	153259	30.00	ug/L	-0.06
18) 1,4-Difluorobenzene	13.14	63	104460	30.00	ug/L	-0.05
27) Chlorobenzene-d5	17.82	119	113602	30.00	ug/L	-0.05
29) 1,4-Dichlorobenzene-d4	21.44	152	146007	30.00	ug/L	-0.05
30) Ethylbenzene-d10	18.02	98	619515	30.00	ug/L	-0.05
System Monitoring Compounds						
16) 1,2-Dichloroethane-d4	11.90	65	195565	38.52	ug/L	-0.05
Spiked Amount 30.000			Recovery = 128.40%			
17) Dibromofluoromethane	11.19	111	160815	31.99	ug/L	-0.06
Spiked Amount 30.000			Recovery = 106.63%			
21) Toluene-d8	15.77	98	496540	27.87	ug/L	-0.05
Spiked Amount 30.000			Recovery = 92.90%			
31) Bromofluorobenzene	19.55	95	160646	25.62	ug/L	-0.04
Spiked Amount 30.000			Recovery = 85.40%			

Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration
58008.D APS0219.M Fri May 12 09:52:06 2000

000171

Quantitation Report

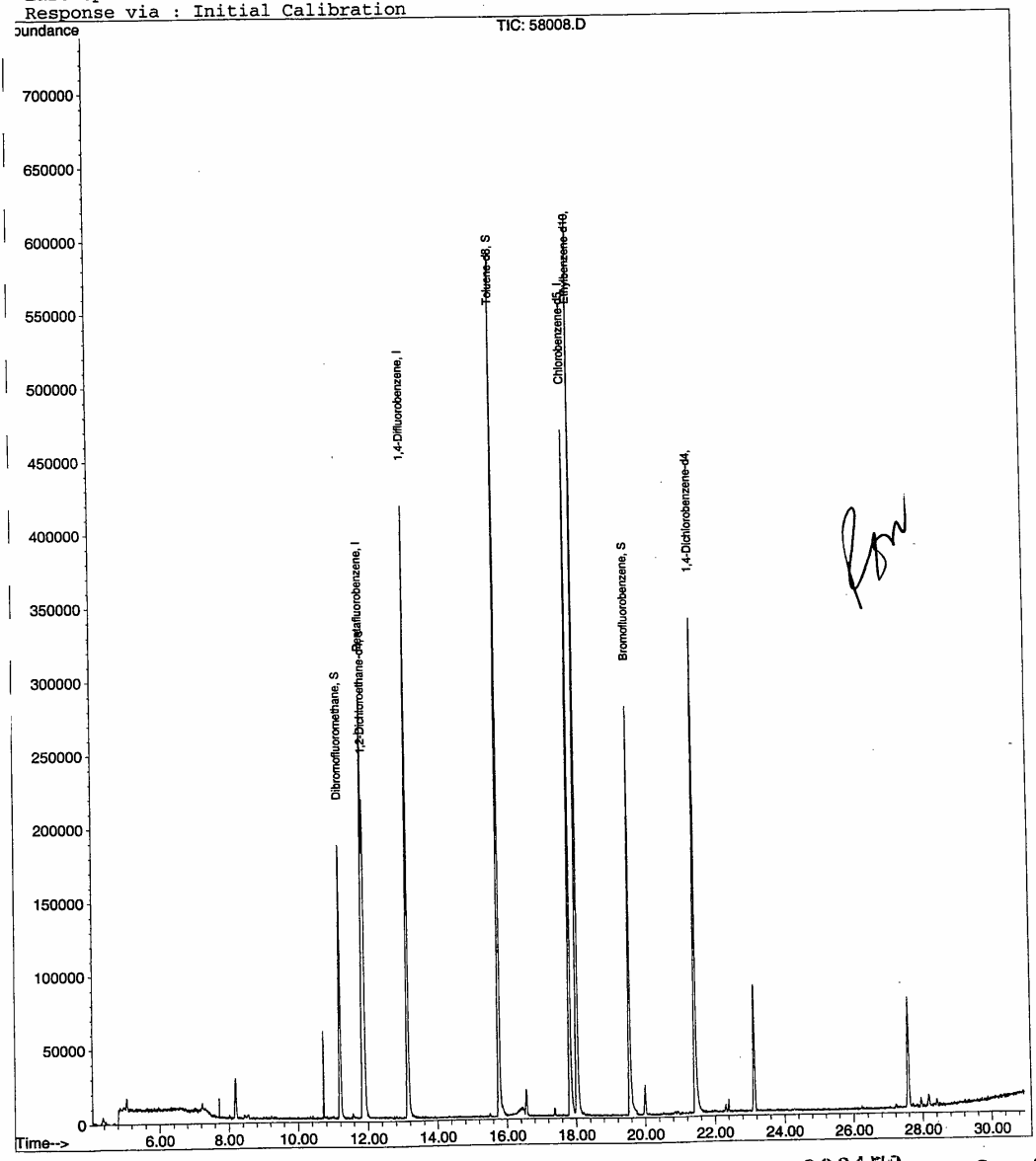
078

Data File : C:\HPCHEM\1\DATA\TEMP\58008.D
Acq On : 30 Apr 2000 3:03 am
Sample : 1
Misc : soil
MS Integration Params: rteint.p
Quant Time: May 12 9:51 19100

Vial: 27
Operator:
Inst : HP-10
Multiplr: 1.00

Quant Results File: APS0219.RES

Method : C:\HPCHEM\1\METHODS\APS0219.M (RTE Integrator)
Title : APPIX IX MIX
Last Update : Tue Mar 21 17:13:42 2000
Response via : Initial Calibration



SPECIALIZED ASSAYS, INC.
2960 Foster Creighton Dr.
P.O. Box 40566
Nashville, TN 37204-0566
Phone 1-615-726-0177

Sample Identification

264721

Matrix: Soil
% Dry Weight: 84.
Units: ug/kg dry weight
Dilution Factor: 1.
Analysis Method: SW8260B
Delivery Group: 187955
Instrument: HP-10

Lab Sample ID: 00-A58009
Date Sampled: 4/25/00
Date Received: 4/28/00
Analysis Date: 5/ 1/00
Analysis Time: 15:04
Sample GC Group: 7224

FORM I

CAS NUMBER	ANALYTE	CONCENTRATION	FLAG
67-64-1	Acetone	11.9	U
107-02-8	Acrolein	11.9	U
107-13-1	Acrylonitrile	11.9	U
71-43-2	Benzene	2.4	U
108-86-1	Bromobenzene	2.4	U
74-97-5	Bromochloromethane	2.4	U
75-25-2	Bromoform	2.4	U
74-83-9	Bromomethane	2.4	U
78-93-3	2-Butanone	11.9	U
104-51-8	n-Butylbenzene	2.4	U
135-98-8	sec-Butylbenzene	2.4	U
98-06-6	t-Butylbenzene	2.4	U
75-15-0	Carbon disulfide	2.4	U
56-23-5	Carbon tetrachloride	2.4	U
108-90-7	Chlorobenzene	2.4	U
75-00-3	Chloroethane	2.4	U
110-75-8	2-Chloroethylvinylether	2.4	U
67-66-3	Chloroform	2.4	U
74-87-3	Chloromethane	2.4	U
95-49-8	2-Chlorotoluene	2.4	U
106-43-4	4-Chlorotoluene	2.4	U
96-12-8	1,2-Dibromo-3-chloropropane	11.9	U
124-48-1	Dibromochloromethane	2.4	U
106-93-4	1,2-Dibromoethane	2.4	U
74-95-3	Dibromomethane	2.4	U
110-57-6	1,4-Dichloro-2-butene	2.4	U
95-50-1	1,2-Dichlorobenzene	2.4	U
541-73-1	1,3-Dichlorobenzene	2.4	U
106-46-7	1,4-Dichlorobenzene	2.4	U
75-71-8	Dichlorodifluoromethane	2.4	U
75-34-3	1,1-Dichloroethane	2.4	U
107-06-2	1,2-Dichloroethane	2.4	U
75-35-4	1,1-Dichloroethene	2.4	U
156-59-2	cis-1,2-Dichloroethene	2.4	U
156-60-5	trans-1,2-Dichloroethene	2.4	U
78-87-5	1,2-Dichloropropane	2.4	U
142-28-9	1,3-Dichloropropane	2.4	U
594-20-7	2,2-Dichloropropane	2.4	U
563-58-6	1,1-Dichloropropene	2.4	U

COPY 1

SPECIALIZED ASSAYS, INC.
2960 Foster Creighton Dr.
P.O. Box 40566
Nashville, TN 37204-0566
Phone 1-615-726-0177

Sample Identification

264721

Matrix: Soil
% Dry Weight: 84.
Units: ug/kg dry weight

Lab Sample ID: 00-A58009
Date Sampled: 4/25/00
Date Received: 4/28/00

FORM I

CAS NUMBER	ANALYTE	CONCENTRATION	FLAG
10061-01-5	cis-1,3-Dichloropropene	2.4	U
10061-02-6	trans-1,3-Dichloropropene	2.4	U
123-91-1	1,4-Dioxane	11.9	U
100-41-4	Ethylbenzene	2.4	U
97-63-2	Ethyl methacrylate	6.0	U
87-68-3	Hexachlorobutadiene	2.4	U
591-78-6	2-Hexanone	11.9	U
74-88-4	Iodomethane	2.4	U
98-82-8	Isopropylbenzene	2.4	U
99-87-6	4-Isopropyltoluene	2.4	U
108-10-1	4-Methyl-2-pentanone	11.9	U
75-09-2	Methylene chloride	6.0	U
91-20-3	Naphthalene	6.0	U
103-65-1	n-Propylbenzene	2.4	U
100-42-5	Styrene	2.4	U
630-20-6	1,1,1,2-Tetrachloroethane	2.4	U
79-34-5	1,1,2,2-Tetrachloroethane	2.4	U
127-18-4	Tetrachloroethene	2.4	U
108-88-3	Toluene	2.4	U
87-61-6	1,2,3-Trichlorobenzene	2.4	U
120-82-1	1,2,4-Trichlorobenzene	2.4	U
71-55-6	1,1,1-Trichloroethane	2.4	U
79-00-5	1,1,2-Trichloroethane	2.4	U
79-01-6	Trichloroethene	2.4	U
96-18-4	1,2,3-Trichloropropane	2.4	U
95-63-6	1,2,4-Trimethylbenzene	2.4	U
108-67-8	1,3,5-Trimethylbenzene	2.4	U
108-05-4	Vinyl acetate	11.9	U
75-01-4	Vinyl chloride	2.4	U
75-27-4	Bromodichloromethane	2.4	U
6615	o-Xylene	2.4	U
1330-20-7	m,p-Xylene	2.4	U
75-69-4	Trichlorofluoromethane	2.4	U
5998	Hexane	6.0	U

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\050100\58009B.D
Acq On : 1 May 2000 3:04 pm
Sample : 1
Misc : soil
MS Integration Params: rteint.p
Quant Time: May 12 8:44 19100

Vial: 9
Operator:
Inst : HP-10
Multiplr: 1.00

Quant Results File: S041200.RES

Quant Method : C:\HPCHEM\1\METHODS\S041200.M (RTE Integrator)
Title : 8260 volatile organics
Last Update : Fri May 12 08:15:05 2000
Response via : Initial Calibration
DataAcq Meth : S041200

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	11.86	168	268620	30.00	ug/L	-0.07
31) 1,4-Difluorobenzene	13.16	114	459684	30.00	ug/L	-0.06
49) Chlorobenzene-d5	17.84	119	114594	30.00	ug/L	-0.04
63) 1,4-Dichlorobenzene-d4	21.45	152	138456	30.00	ug/L	-0.04
64) Ethylbenzene-d10	18.04	98	628698	30.00	ug/L	-0.05
System Monitoring Compounds						
26) 1,2-Dichloroethane-d4	11.91	65	197556	35.00	ug/L	0.02
Spiked Amount 30.000			Recovery =	116.67%		
27) Dibromofluoromethane	11.21	111	169053	41.61	ug/L	-0.07
Spiked Amount 30.000			Recovery =	138.70%		
44) Toluene-d8	15.78	98	512257	30.61	ug/L	-0.05
Spiked Amount 30.000			Recovery =	102.03%		
66) Bromofluorobenzene	19.57	95	159330	23.53	ug/L	-0.04
Spiked Amount 30.000			Recovery =	78.43%		

Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration
58009B.D S041200.M Fri May 12 08:44:20 2000

Quantitation Report

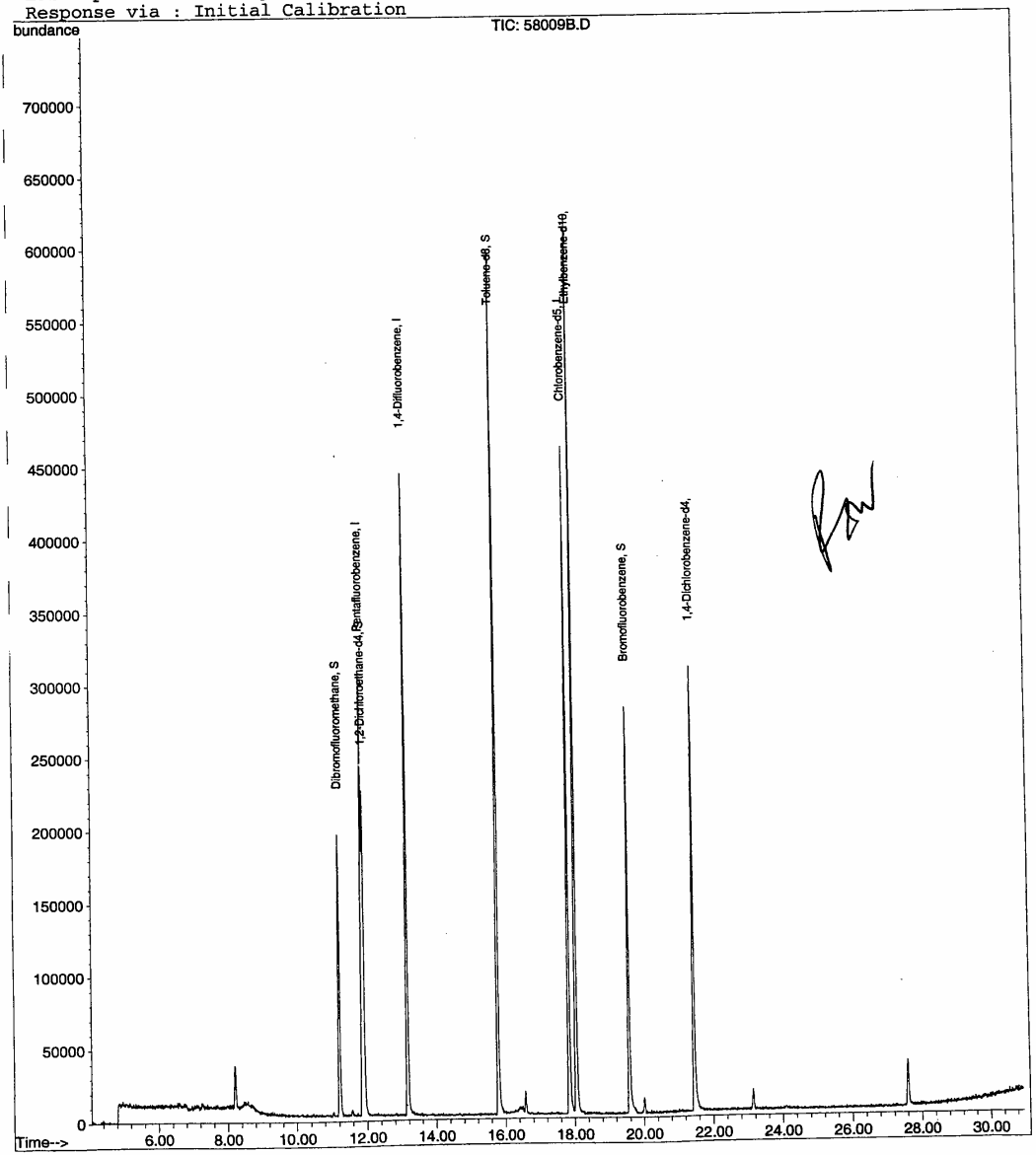
082

Data File : C:\HPCHEM\1\DATA\050100\58009B.D
Acq On : 1 May 2000 3:04 pm
Sample : 1
Misc : soil
MS Integration Params: rteint.p
Quant Time: May 12 8:44 19100

Vial: 9
Operator:
Inst : HP-10
Multiplr: 1.00

Quant Results File: S041200.RES

Method : C:\HPCHEM\1\METHODS\S041200.M (RTE Integrator)
Title : 8260 volatile organics
Last Update : Fri May 12 08:15:05 2000
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

083

Data File : C:\HPCHEM\1\DATA\TEMP\58009B.D
Acq On : 1 May 2000 3:04 pm
Sample : 1
Misc : soil
MS Integration Params: rteint.p
Quant Time: May 12 9:53 19100

Vial: 9
Operator:
Inst : HP-10
Multiplr: 1.00

Quant Results File: APS0219.RES

Quant Method : C:\HPCHEM\1\METHODS\APS0219.M (RTE Integrator)
Title : APPIX IX MIX
Last Update : Tue Mar 21 17:13:42 2000
Response via : Initial Calibration
DataAcq Meth : S041200

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	11.87	99	159387	30.00	ug/L	-0.03
18) 1,4-Difluorobenzene	13.15	63	111040	30.00	ug/L	-0.04
27) Chlorobenzene-d5	17.84	119	114594	30.00	ug/L	-0.03
29) 1,4-Dichlorobenzene-d4	21.45	152	138456	30.00	ug/L	-0.03
30) Ethylbenzene-d10	18.04	98	628698	30.00	ug/L	-0.04
System Monitoring Compounds						
16) 1,2-Dichloroethane-d4	11.91	65	197556	37.41	ug/L	-0.04
Spiked Amount 30.000			Recovery = 124.70%			
17) Dibromofluoromethane	11.21	111	169053	32.33	ug/L	-0.04
Spiked Amount 30.000			Recovery = 107.77%			
21) Toluene-d8	15.78	98	512257	27.05	ug/L	-0.04
Spiked Amount 30.000			Recovery = 90.17%			
31) Bromofluorobenzene	19.57	95	159330	25.04	ug/L	-0.02
Spiked Amount 30.000			Recovery = 83.47%			

Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration
58009B.D APS0219.M Fri May 12 09:53:49 2000

000177

Quantitation Report

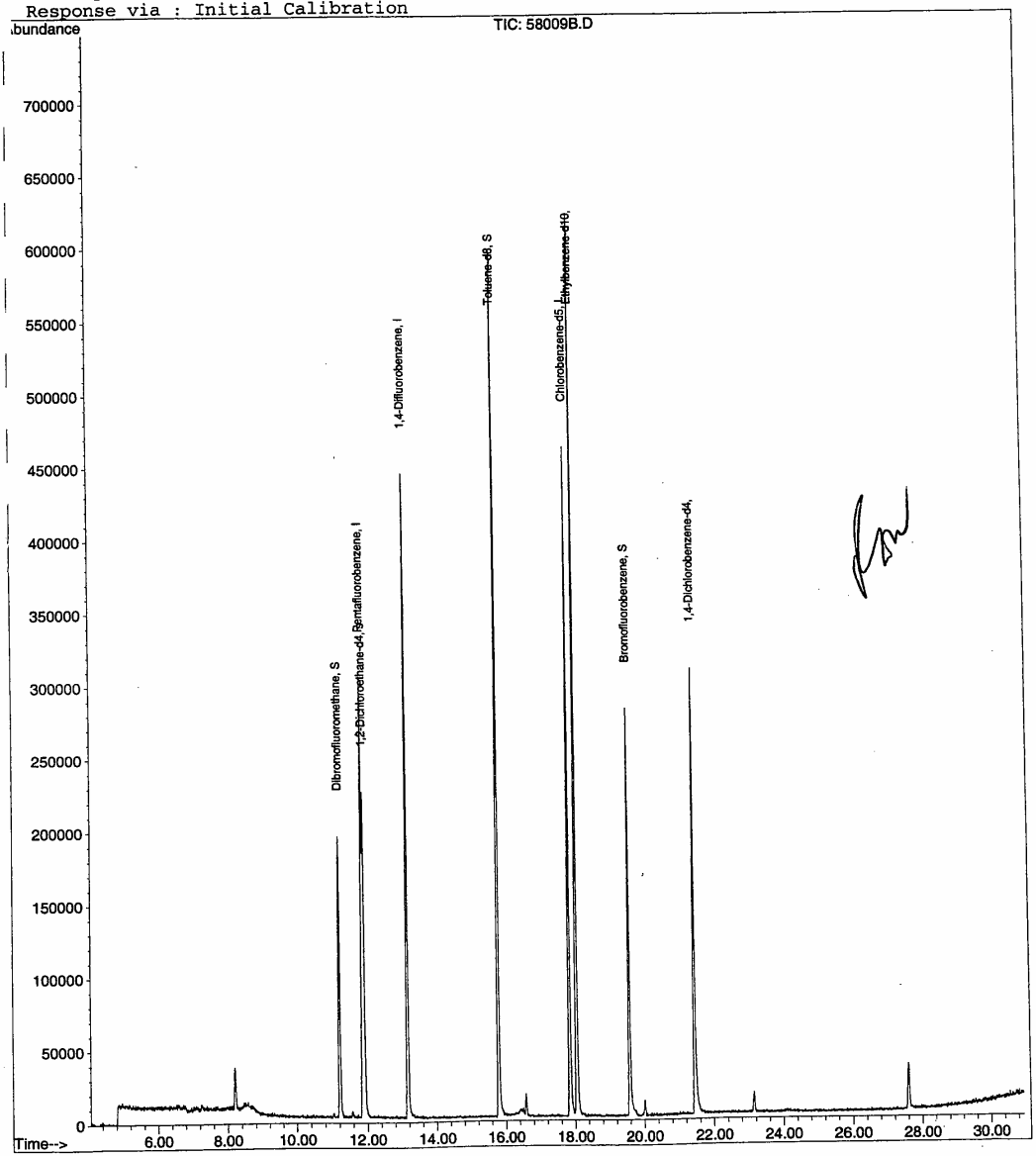
084

Data File : C:\HPCHEM\1\DATA\TEMP\58009B.D
Acq On : 1 May 2000 3:04 pm
Sample : 1
Misc : soil
MS Integration Params: rteint.p
Quant Time: May 12 9:53 19100

Vial: 9
Operator:
Inst : HP-10
Multiplr: 1.00

Quant Results File: APS0219.RES

Method : C:\HPCHEM\1\METHODS\APS0219.M (RTE Integrator)
Title : APPIX IX MIX
Last Update : Tue Mar 21 17:13:42 2000
Response via : Initial Calibration



SPECIALIZED ASSAYS, INC.
2960 Foster Creighton Dr.
P.O. Box 40566
Nashville, TN 37204-0566
Phone 1-615-726-0177

Sample Identification

264722

Matrix: Soil
% Dry Weight: 86.
Units: ug/kg dry weight
Dilution Factor: 1.
Analysis Method: SW8260B
Delivery Group: 189955
Instrument: HP-10

Lab Sample ID: 00-A58010
Date Sampled: 4/25/00
Date Received: 4/28/00
Analysis Date: 4/30/00
Analysis Time: 4:16
Sample QC Group: 7224

FORM I

CAS NUMBER	ANALYTE	CONCENTRATION	FLAG
67-64-1	Acetone	11.6	U
107-02-8	Acrolein	11.6	U
107-13-1	Acrylonitrile	11.6	U
71-43-2	Benzene	2.3	U
108-86-1	Bromobenzene	2.3	U
74-97-5	Bromochloromethane	2.3	U
75-25-2	Bromoform	2.3	U
74-83-9	Bromomethane	2.3	U
78-93-3	2-Butanone	11.6	U
104-51-8	n-Butylbenzene	2.3	U
135-98-8	sec-Butylbenzene	2.3	U
98-06-6	t-Butylbenzene	2.3	U
75-15-0	Carbon disulfide	2.3	U
56-23-5	Carbon tetrachloride	2.3	U
108-90-7	Chlorobenzene	2.3	U
75-00-3	Chloroethane	2.3	U
110-75-8	2-Chloroethylvinylether	2.3	U
67-66-3	Chloroform	2.3	U
74-87-3	Chloromethane	2.3	U
95-49-8	2-Chlorotoluene	2.3	U
106-43-4	4-Chlorotoluene	2.3	U
96-12-8	1,2-Dibromo-3-chloropropane	11.6	U
124-48-1	Dibromochloromethane	2.3	U
106-93-4	1,2-Dibromoethane	2.3	U
74-95-3	Dibromomethane	2.3	U
110-57-6	1,4-Dichloro-2-butene	2.3	U
95-50-1	1,2-Dichlorobenzene	2.3	U
541-73-1	1,3-Dichlorobenzene	2.3	U
106-46-7	1,4-Dichlorobenzene	2.3	U
75-71-8	Dichlorodifluoromethane	2.3	U
75-34-3	1,1-Dichloroethane	2.3	U
107-06-2	1,2-Dichloroethane	2.3	U
75-35-4	1,1-Dichloroethene	2.3	U
156-59-2	cis-1,2-Dichloroethene	2.3	U
156-60-5	trans-1,2-Dichloroethene	2.3	U
78-87-5	1,2-Dichloropropane	2.3	U
142-28-9	1,3-Dichloropropane	2.3	U
594-20-7	2,2-Dichloropropane	2.3	U
563-58-6	1,1-Dichloropropene	2.3	U

COPY 1

SPECIALIZED ASSAYS, INC.
2960 Foster Creighton Dr.
P.O. Box 40566
Nashville, TN 37204-0566
Phone 1-615-726-0177

Sample Identification

264722

Matrix: Soil
% Dry Weight: 86.
Units: ug/kg dry weight

Lab Sample ID: 00-A58010
Date Sampled: 4/25/00
Date Received: 4/28/00

FORM I

CAS NUMBER	ANALYTE	CONCENTRATION	FLAG
10061-01-5	cis-1,3-Dichloropropene	2.3	U
10061-02-6	trans-1,3-Dichloropropene	2.3	U
123-91-1	1,4-Dioxane	11.6	U
100-41-4	Ethylbenzene	2.3	U
97-63-2	Ethyl methacrylate	5.8	U
87-68-3	Hexachlorobutadiene	2.3	U
591-78-6	2-Hexanone	11.6	U
74-88-4	Iodomethane	2.3	U
98-82-8	Isopropylbenzene	2.3	U
99-87-6	4-Isopropyltoluene	2.3	U
108-10-1	4-Methyl-2-pentanone	11.6	U
75-09-2	Methylene chloride	5.8	U
91-20-3	Naphthalene	5.8	U
103-65-1	n-Propylbenzene	2.3	U
100-42-5	Styrene	2.3	U
630-20-6	1,1,1,2-Tetrachloroethane	2.3	U
79-34-5	1,1,2,2-Tetrachloroethane	2.3	U
127-18-4	Tetrachloroethene	2.3	U
108-88-3	Toluene	2.3	U
87-61-6	1,2,3-Trichlorobenzene	2.3	U
120-82-1	1,2,4-Trichlorobenzene	2.3	U
71-55-6	1,1,1-Trichloroethane	2.3	U
79-00-5	1,1,2-Trichloroethane	2.3	U
79-01-6	Trichloroethene	2.3	U
96-18-4	1,2,3-Trichloropropane	2.3	U
95-63-6	1,2,4-Trimethylbenzene	2.3	U
108-67-8	1,3,5-Trimethylbenzene	2.3	U
108-05-4	Vinyl acetate	11.6	U
75-01-4	Vinyl chloride	2.3	U
75-27-4	Bromodichloromethane	2.3	U
6615	o-Xylene	2.3	U
1330-20-7	m,p-Xylene	2.3	U
75-69-4	Trichlorofluoromethane	2.3	U
5998	Hexane	5.8	U

COPY 1

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\042400\58010.D
Acq On : 30 Apr 2000 4:16 am
Sample : 1
Misc : soil
MS Integration Params: rteint.p
Quant Time: May 12 8:45 19100

Vial: 29
Operator:
Inst : HP-10
Multiplr: 1.00

Quant Results File: S041200.RES

Quant Method : C:\HPCHEM\1\METHODS\S041200.M (RTE Integrator)
Title : 8260 volatile organics
Last Update : Fri May 12 08:15:05 2000
Response via : Initial Calibration
DataAcq Meth : S041200

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Pentafluorobenzene	11.85	168	249540	30.00 ug/L	-0.08
31) 1,4-Difluorobenzene	13.14	114	429569	30.00 ug/L	-0.08
49) Chlorobenzene-d5	17.82	119	112400	30.00 ug/L	-0.06
63) 1,4-Dichlorobenzene-d4	21.43	152	148804	30.00 ug/L	-0.06
64) Ethylbenzene-d10	18.02	98	615726	30.00 ug/L	-0.06
System Monitoring Compounds					
26) 1,2-Dichloroethane-d4	11.90	65	187077	35.73 ug/L	0.00
Spiked Amount 30.000			Recovery	= 119.10%	
27) Dibromofluoromethane	11.19	111	158500	42.02 ug/L	-0.09
Spiked Amount 30.000			Recovery	= 140.07%	
44) Toluene-d8	15.77	98	492525	31.61 ug/L	-0.07
Spiked Amount 30.000			Recovery	= 105.37%	
66) Bromofluorobenzene	19.55	95	158336	23.92 ug/L	-0.06
Spiked Amount 30.000			Recovery	= 79.73%	

Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration
58010.D S041200.M Fri May 12 08:45:24 2000

Quantitation Report

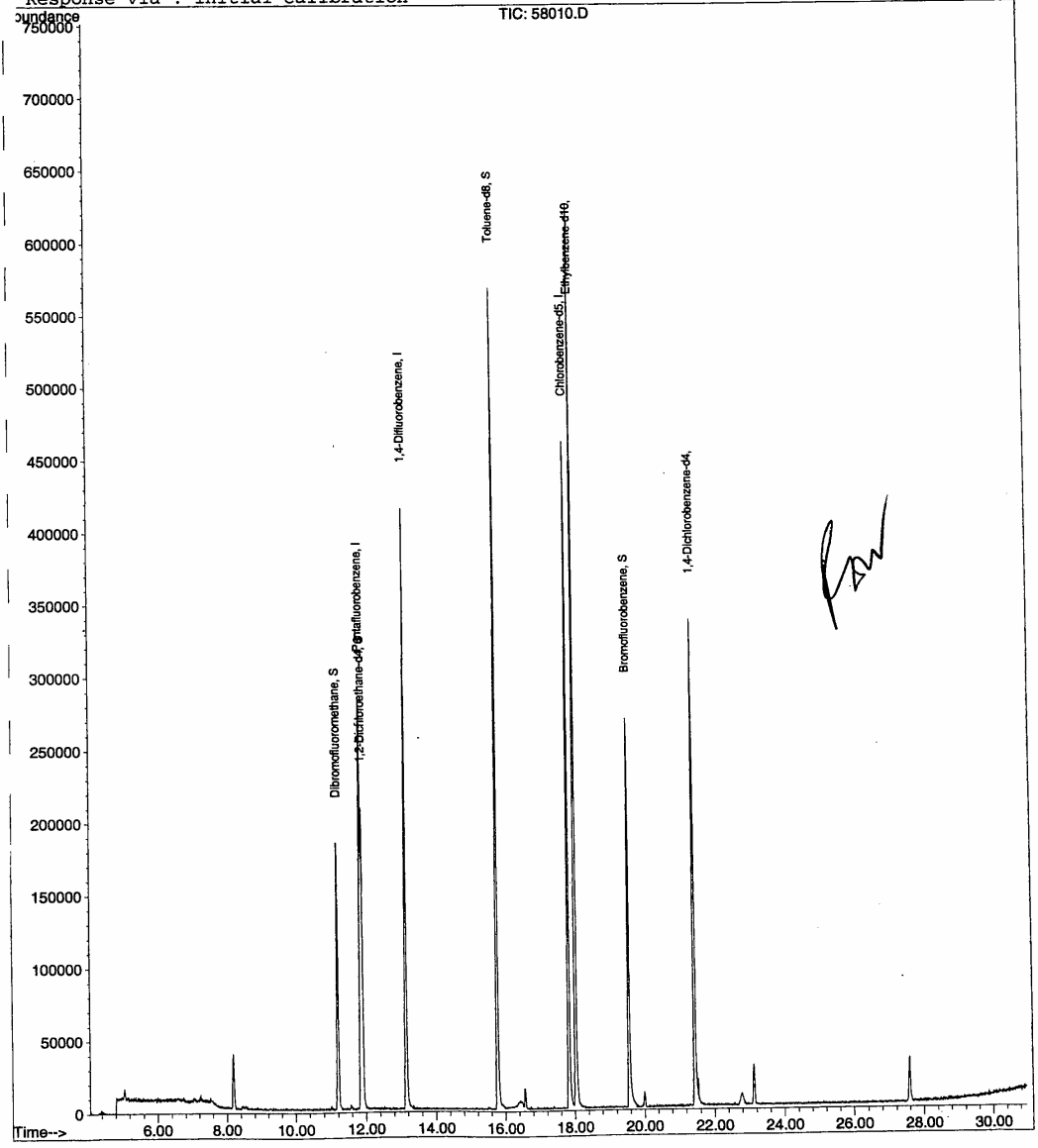
088

Data File : C:\HPCHEM\1\DATA\042400\58010.D
Acq On : 30 Apr 2000 4:16 am
Sample : 1
Misc : soil
MS Integration Params: rteint.p
Quant Time: May 12 8:45 19100

Vial: 29
Operator:
Inst : HP-10
Multiplr: 1.00

Quant Results File: S041200.RES

Method : C:\HPCHEM\1\METHODS\S041200.M (RTE Integrator)
Title : 8260 volatile organics
Last Update : Fri May 12 08:15:05 2000
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

089

Data File : C:\HPCHEM\1\DATA\TEMP\58010.D
Acq On : 30 Apr 2000 4:16 am
Sample : 1
Misc : soil
MS Integration Params: rteint.p
Quant Time: May 12 9:54 19100

Vial: 29
Operator:
Inst : HP-10
Multiplr: 1.00

Quant Results File: APS0219.RES

Quant Method : C:\HPCHEM\1\METHODS\APS0219.M (RTE Integrator)
Title : APPIX IX MIX
Last Update : Tue Mar 21 17:13:42 2000
Response via : Initial Calibration
DataAcq Meth : S041200

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Pentafluorobenzene	11.85	99	153408	30.00 ug/L	-0.06
18) 1,4-Difluorobenzene	13.13	63	103974	30.00 ug/L	-0.06
27) Chlorobenzene-d5	17.82	119	112400	30.00 ug/L	-0.05
29) 1,4-Dichlorobenzene-d4	21.43	152	148804	30.00 ug/L	-0.05
30) Ethylbenzene-d10	18.02	98	615726	30.00 ug/L	-0.05
System Monitoring Compounds					
16) 1,2-Dichloroethane-d4	11.90	65	187077	36.81 ug/L	-0.05
Spiked Amount 30.000			Recovery = 122.70%		
17) Dibromofluoromethane	11.19	111	158500	31.50 ug/L	-0.06
Spiked Amount 30.000			Recovery = 105.00%		
21) Toluene-d8	15.77	98	492525	27.77 ug/L	-0.05
Spiked Amount 30.000			Recovery = 92.57%		
31) Bromofluorobenzene	19.55	95	158336	25.40 ug/L	-0.04
Spiked Amount 30.000			Recovery = 84.67%		

Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration
58010.D APS0219.M Fri May 12 09:54:20 2000

000183

Quantitation Report

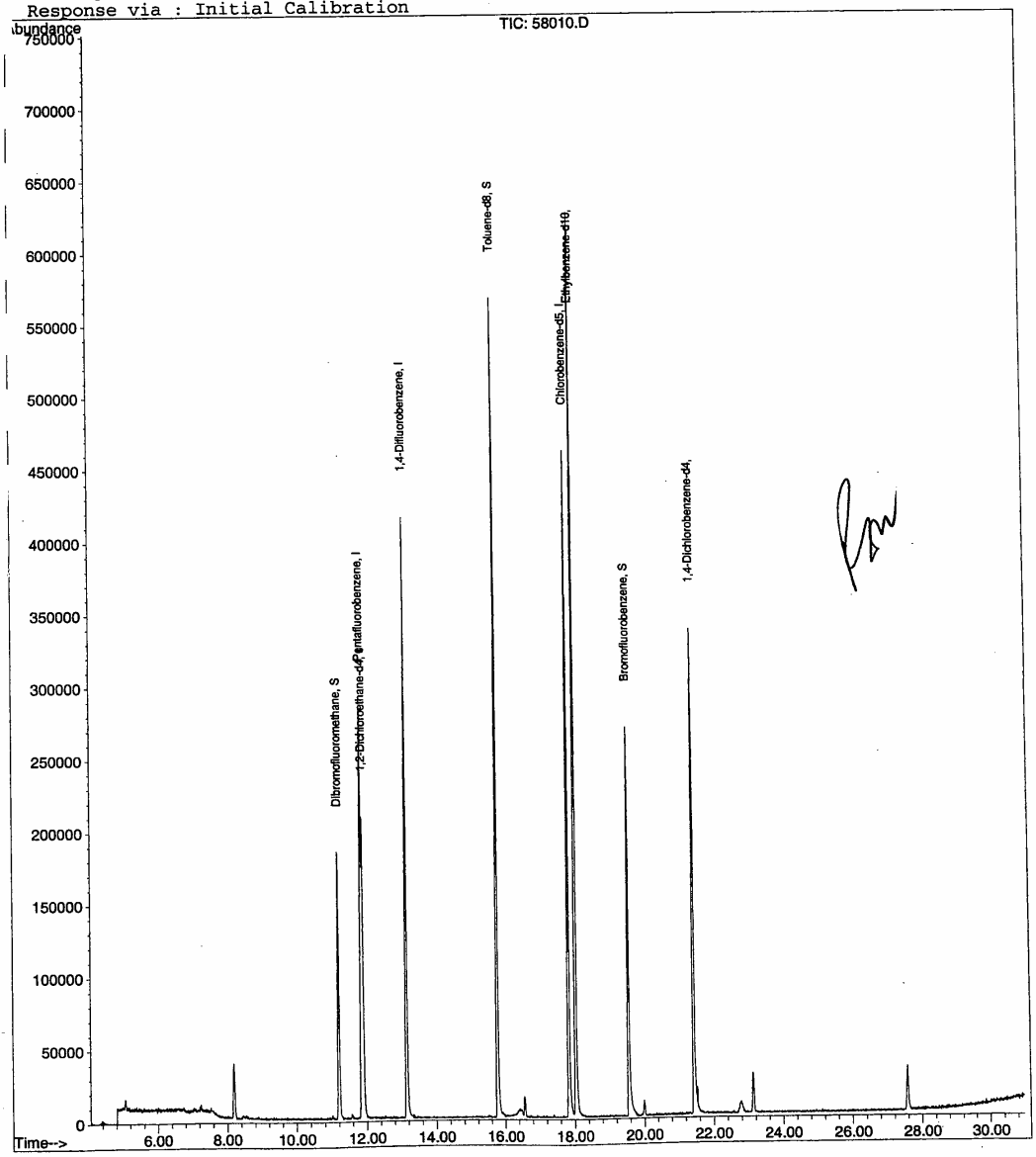
090

Data File : C:\HPCHEM\1\DATA\TEMP\58010.D
Acq On : 30 Apr 2000 4:16 am
Sample : 1
Misc : soil
MS Integration Params: rteint.p
Quant Time: May 12 9:54 19100

Vial: 29
Operator:
Inst : HP-10
Multiplr: 1.00

Quant Results File: APS0219.RES

Method : C:\HPCHEM\1\METHODS\APS0219.M (RTE Integrator)
Title : APPIX IX MIX
Last Update : Tue Mar 21 17:13:42 2000
Response via : Initial Calibration



SPECIALIZED ASSAYS, INC.
2960 Foster Creighton Dr.
P.O. Box 40566
Nashville, TN 37204-0566
Phone 1-615-726-0177

Sample Identification

264723

Matrix: Soil
% Dry Weight: 87.
Units: ug/kg dry weight
Dilution Factor: 1.
Analysis Method: SW8260B
Delivery Group: 189955
Instrument: HP-10

Lab Sample ID: 00-A58011
Date Sampled: 4/25/00
Date Received: 4/28/00
Analysis Date: 4/30/00
Analysis Time: 4:53
Sample QC Group: 7224

FORM I

CAS NUMBER	ANALYTE	CONCENTRATION	FLAG
67-64-1	Acetone	11.5	U
107-02-8	Acrolein	11.5	U
107-13-1	Acrylonitrile	11.5	U
71-43-2	Benzene	2.3	U
108-86-1	Bromobenzene	2.3	U
74-97-5	Bromochloromethane	2.3	U
75-25-2	Bromoform	2.3	U
74-83-9	Bromomethane	2.3	U
78-93-3	2-Butanone	11.5	U
104-51-8	n-Butylbenzene	2.3	U
135-98-8	sec-Butylbenzene	2.3	U
98-06-6	t-Butylbenzene	2.3	U
75-15-0	Carbon disulfide	2.3	U
56-23-5	Carbon tetrachloride	2.3	U
108-90-7	Chlorobenzene	2.3	U
75-00-3	Chloroethane	2.3	U
110-75-8	2-Chloroethylvinylether	2.3	U
67-66-3	Chloroform	2.3	U
74-87-3	Chloromethane	2.3	U
95-49-8	2-Chlorotoluene	2.3	U
106-43-4	4-Chlorotoluene	2.3	U
96-12-8	1,2-Dibromo-3-chloropropane	11.5	U
124-48-1	Dibromochloromethane	2.3	U
106-93-4	1,2-Dibromoethane	2.3	U
74-95-3	Dibromomethane	2.3	U
110-57-6	1,4-Dichloro-2-butene	2.3	U
95-50-1	1,2-Dichlorobenzene	2.3	U
541-73-1	1,3-Dichlorobenzene	2.3	U
106-46-7	1,4-Dichlorobenzene	2.3	U
75-71-8	Dichlorodifluoromethane	2.3	U
75-34-3	1,1-Dichloroethane	2.3	U
107-06-2	1,2-Dichloroethane	2.3	U
75-35-4	1,1-Dichloroethene	2.3	U
156-59-2	cis-1,2-Dichloroethene	2.3	U
156-60-5	trans-1,2-Dichloroethene	2.3	U
78-87-5	1,2-Dichloropropane	2.3	U
142-28-9	1,3-Dichloropropane	2.3	U
594-20-7	2,2-Dichloropropane	2.3	U
563-58-6	1,1-Dichloropropene	2.3	U

COPY 1

SPECIALIZED ASSAYS, INC.
2960 Foster Creighton Dr.
P.O. Box 40566
Nashville, TN 37204-0566
Phone 1-615-726-0177

Sample Identification

264723

Matrix: Soil
% Dry Weight: 87.
Units: ug/kg dry weight

Lab Sample ID: 00-A58011
Date Sampled: 4/25/00
Date Received: 4/28/00

FORM I

CAS NUMBER	ANALYTE	CONCENTRATION	FLAG
10061-01-5	cis-1,3-Dichloropropene	2.3	U
10061-02-6	trans-1,3-Dichloropropene	2.3	U
123-91-1	1,4-Dioxane	11.5	U
100-41-4	Ethylbenzene	2.3	U
97-63-2	Ethyl methacrylate	5.7	U
87-68-3	Hexachlorobutadiene	2.3	U
591-78-6	2-Hexanone	11.5	U
74-88-4	Iodomethane	2.3	U
98-82-8	Isopropylbenzene	2.3	U
99-87-6	4-Isopropyltoluene	2.3	U
108-10-1	4-Methyl-2-pentanone	11.5	U
75-09-2	Methylene chloride	5.7	U
91-20-3	Naphthalene	5.7	U
103-65-1	n-Propylbenzene	2.3	U
100-42-5	Styrene	2.3	U
630-20-6	1,1,1,2-Tetrachloroethane	2.3	U
79-34-5	1,1,2,2-Tetrachloroethane	2.3	U
127-18-4	Tetrachloroethene	2.3	U
108-88-3	Toluene	2.3	U
87-61-6	1,2,3-Trichlorobenzene	2.3	U
120-82-1	1,2,4-Trichlorobenzene	2.3	U
71-55-6	1,1,1-Trichloroethane	2.3	U
79-00-5	1,1,2-Trichloroethane	2.3	U
79-01-6	Trichloroethene	2.3	U
96-18-4	1,2,3-Trichloropropane	2.3	U
95-63-6	1,2,4-Trimethylbenzene	2.3	U
108-67-8	1,3,5-Trimethylbenzene	2.3	U
108-05-4	Vinyl acetate	11.5	U
75-01-4	Vinyl chloride	2.3	U
75-27-4	Bromodichloromethane	2.3	U
6615	o-Xylene	2.3	U
1330-20-7	m,p-Xylene	2.3	U
75-69-4	Trichlorofluoromethane	2.3	U
5998	Hexane	5.7	U

COPY 1

Quantitation Report (QT Reviewed)

093

Data File : C:\HPCHEM\1\DATA\042400\58011.D Vial: 30
Acq On : 30 Apr 2000 4:53 am Operator:
Sample : 1 Inst : HP-10
Misc : soil Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: May 12 8:47 19100 Quant Results File: S041200.RES

Quant Method : C:\HPCHEM\1\METHODS\S041200.M (RTE Integrator)
Title : 8260 volatile organics
Last Update : Fri May 12 08:15:05 2000
Response via : Initial Calibration
DataAcq Meth : S041200

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Pentafluorobenzene	11.85	168	239117	30.00 ug/L	-0.09
31) 1,4-Difluorobenzene	13.14	114	423874	30.00 ug/L	-0.08
49) Chlorobenzene-d5	17.82	119	112768	30.00 ug/L	-0.06
63) 1,4-Dichlorobenzene-d4	21.43	152	150637	30.00 ug/L	-0.06
64) Ethylbenzene-d10	18.02	98	600593	30.00 ug/L	-0.06
System Monitoring Compounds					
26) 1,2-Dichloroethane-d4	11.90	65	190839	38.20 ug/L	0.00
Spiked Amount 30.000			Recovery =	127.33%	
27) Dibromofluoromethane	11.19	111	158969	44.13 ug/L	-0.09
Spiked Amount 30.000			Recovery =	147.10%	
44) Toluene-d8	15.77	98	485902	31.60 ug/L	-0.07
Spiked Amount 30.000			Recovery =	105.33%	
66) Bromofluorobenzene	19.55	95	157195	24.40 ug/L	-0.05
Spiked Amount 30.000			Recovery =	81.33%	

Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration
58011.D S041200.M Fri May 12 08:47:18 2000

000187

Quantitation Report

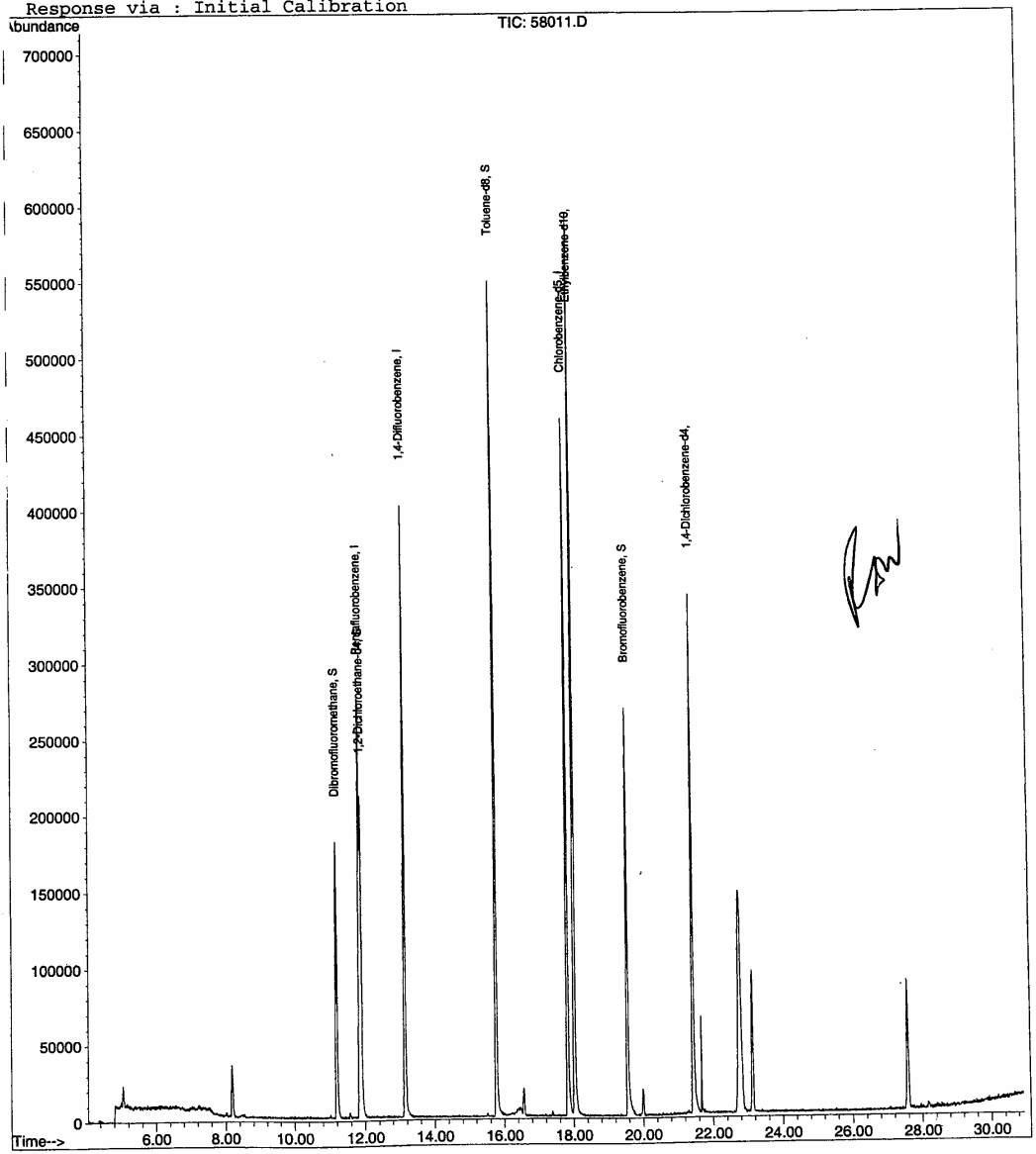
094

Data File : C:\HPCHEM\1\DATA\042400\58011.D
Acq On : 30 Apr 2000 4:53 am
Sample : 1
Misc : soil
MS Integration Params: rteint.p
Quant Time: May 12 8:47 19100

Vial: 30
Operator:
Inst : HP-10
Multiplr: 1.00

Quant Results File: S041200.RES

Method : C:\HPCHEM\1\METHODS\S041200.M (RTE Integrator)
Title : 8260 volatile organics
Last Update : Fri May 12 08:15:05 2000
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

095

Data File : C:\HPCHEM\1\DATA\TEMP\58011.D
Acq On : 30 Apr 2000 4:53 am
Sample : 1
Misc : soil
MS Integration Params: rteint.p
Quant Time: May 12 9:54 19100

Vial: 30
Operator:
Inst : HP-10
Multiplr: 1.00

Quant Results File: APS0219.RES

Quant Method : C:\HPCHEM\1\METHODS\APS0219.M (RTE Integrator)
Title : APPIX IX MIX
Last Update : Tue Mar 21 17:13:42 2000
Response via : Initial Calibration
DataAcq Meth : S041200

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	11.85	99	147273	30.00	ug/L	-0.06
18) 1,4-Difluorobenzene	13.13	63	101108	30.00	ug/L	-0.05
27) Chlorobenzene-d5	17.82	119	112768	30.00	ug/L	-0.05
29) 1,4-Dichlorobenzene-d4	21.43	152	150637	30.00	ug/L	-0.05
30) Ethylbenzene-d10	18.02	98	600593	30.00	ug/L	-0.05
System Monitoring Compounds						
16) 1,2-Dichloroethane-d4	11.90	65	190839	39.12	ug/L	-0.05
Spiked Amount 30.000			Recovery = 130.40%			
17) Dibromofluoromethane	11.19	111	158969	32.91	ug/L	-0.06
Spiked Amount 30.000			Recovery = 109.70%			
21) Toluene-d8	15.77	98	485902	28.17	ug/L	-0.05
Spiked Amount 30.000			Recovery = 93.90%			
31) Bromofluorobenzene	19.55	95	157195	25.86	ug/L	-0.04
Spiked Amount 30.000			Recovery = 86.20%			

Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration
58011.D APS0219.M Fri May 12 09:54:55 2000

000189

Quantitation Report

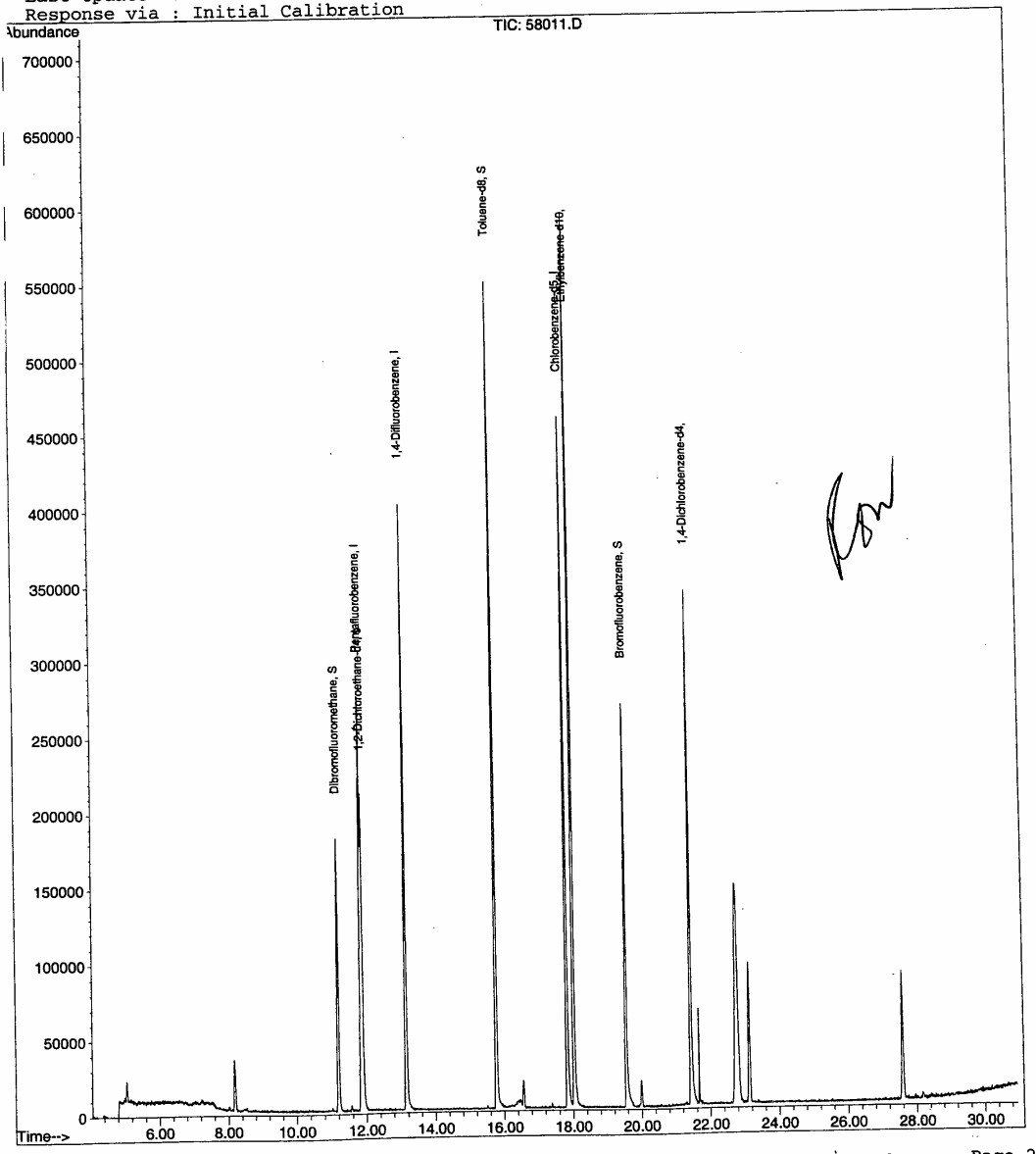
096

Data File : C:\HPCHEM\1\DATA\TEMP\58011.D
Acq On : 30 Apr 2000 4:53 am
Sample : 1
Misc : soil
MS Integration Params: rteint.p
Quant Time: May 12 9:54 19100

Vial: 30
Operator:
Inst : HP-10
Multiplr: 1.00

Quant Results File: APS0219.RES

Method : C:\HPCHEM\1\METHODS\APS0219.M (RTE Integrator)
Title : APPIX IX MIX
Last Update : Tue Mar 21 17:13:42 2000
Response via : Initial Calibration



SPECIALIZED ASSAYS, INC.
2960 Foster Creighton Dr.
P.O. Box 40566
Nashville, TN 37204-0566
Phone 1-615-726-0177

Sample Identification

264724

Matrix: Soil
% Dry Weight: 81.
Units: ug/kg dry weight
Dilution Factor: 1.
Analysis Method: SW8260B
Delivery Group: 189755
Instrument: HP-10

Lab Sample ID: 00-A58012
Date Sampled: 4/25/00
Date Received: 4/28/00
Analysis Date: 4/30/00
Analysis Time: 5:30
Sample QC Group: 7224

FORM I

CAS NUMBER	ANALYTE	CONCENTRATION	FLAG
67-64-1	Acetone	12.3	U
107-02-8	Acrolein	12.3	U
107-13-1	Acrylonitrile	12.3	U
71-43-2	Benzene	2.5	U
108-86-1	Bromobenzene	2.5	U
74-97-5	Bromochloromethane	2.5	U
75-25-2	Bromoform	2.5	U
74-83-9	Bromomethane	2.5	U
78-93-3	2-Butanone	12.3	U
104-51-8	n-Butylbenzene	2.5	U
135-98-8	sec-Butylbenzene	2.5	U
98-06-6	t-Butylbenzene	2.5	U
75-15-0	Carbon disulfide	2.5	U
56-23-5	Carbon tetrachloride	2.5	U
108-90-7	Chlorobenzene	2.5	U
75-00-3	Chloroethane	2.5	U
110-75-8	2-Chloroethylvinylether	2.5	U
67-66-3	Chloroform	2.5	U
74-87-3	Chloromethane	2.5	U
95-49-8	2-Chlorotoluene	2.5	U
106-43-4	4-Chlorotoluene	2.5	U
96-12-8	1,2-Dibromo-3-chloropropane	12.3	U
124-48-1	Dibromochloromethane	2.5	U
106-93-4	1,2-Dibromoethane	2.5	U
74-95-3	Dibromomethane	2.5	U
110-57-6	1,4-Dichloro-2-butene	2.5	U
95-50-1	1,2-Dichlorobenzene	2.5	U
541-73-1	1,3-Dichlorobenzene	2.5	U
106-46-7	1,4-Dichlorobenzene	2.5	U
75-71-8	Dichlorodifluoromethane	2.5	U
75-34-3	1,1-Dichloroethane	2.5	U
107-06-2	1,2-Dichloroethane	2.5	U
75-35-4	1,1-Dichloroethene	2.5	U
156-59-2	cis-1,2-Dichloroethene	2.5	U
156-60-5	trans-1,2-Dichloroethene	2.5	U
78-87-5	1,2-Dichloropropane	2.5	U
142-28-9	1,3-Dichloropropane	2.5	U
594-20-7	2,2-Dichloropropane	2.5	U
563-58-6	1,1-Dichloropropene	2.5	U

COPY 1

SPECIALIZED ASSAYS, INC.
2960 Foster Creighton Dr.
P.O. Box 40566
Nashville, TN 37204-0566
Phone 1-615-726-0177

Sample Identification

264724

Matrix: Soil
% Dry Weight: 81.
Units: ug/kg dry weight

Lab Sample ID: 00-A58012
Date Sampled: 4/25/00
Date Received: 4/28/00

FORM I

CAS NUMBER	ANALYTE	CONCENTRATION	FLAG
10061-01-5	cis-1,3-Dichloropropene	2.5	U
10061-02-6	trans-1,3-Dichloropropene	2.5	U
123-91-1	1,4-Dioxane	12.3	U
100-41-4	Ethylbenzene	2.5	U
97-63-2	Ethyl methacrylate	6.2	U
87-68-3	Hexachlorobutadiene	2.5	U
591-78-6	2-Hexanone	12.3	U
74-88-4	Iodomethane	2.5	U
98-82-8	Isopropylbenzene	2.5	U
99-87-6	4-Isopropyltoluene	2.5	U
108-10-1	4-Methyl-2-pentanone	12.3	U
75-09-2	Methylene chloride	6.2	U
91-20-3	Naphthalene	6.2	U
103-65-1	n-Propylbenzene	2.5	U
100-42-5	Styrene	2.5	U
630-20-6	1,1,1,2-Tetrachloroethane	2.5	U
79-34-5	1,1,2,2-Tetrachloroethane	2.5	U
127-18-4	Tetrachloroethene	2.5	U
108-88-3	Toluene	2.5	U
87-61-6	1,2,3-Trichlorobenzene	2.5	U
120-82-1	1,2,4-Trichlorobenzene	2.5	U
71-55-6	1,1,1-Trichloroethane	2.5	U
79-00-5	1,1,2-Trichloroethane	2.5	U
79-01-6	Trichloroethene	2.5	U
96-18-4	1,2,3-Trichloropropane	2.5	U
95-63-6	1,2,4-Trimethylbenzene	2.5	U
108-67-8	1,3,5-Trimethylbenzene	2.5	U
108-05-4	Vinyl acetate	12.3	U
75-01-4	Vinyl chloride	2.5	U
75-27-4	Bromodichloromethane	2.5	U
6615	o-Xylene	2.5	U
1330-20-7	m,p-Xylene	2.5	U
75-69-4	Trichlorofluoromethane	2.5	U
5998	Hexane	6.2	U

COPY 1

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\042400\58012.D
Acq On : 30 Apr 2000 5:30 am
Sample : 1
Misc : soil
MS Integration Params: rteint.p
Quant Time: May 12 8:48 19100

Vial: 31
Operator:
Inst : HP-10
Multiplr: 1.00

Quant Results File: S041200.RES

Quant Method : C:\HPCHEM\1\METHODS\S041200.M (RTE Integrator)
Title : 8260 volatile organics
Last Update : Fri May 12 08:15:05 2000
Response via : Initial Calibration
DataAcq Meth : S041200

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Pentafluorobenzene	11.85	168	238379	30.00 ug/L	-0.09
31) 1,4-Difluorobenzene	13.14	114	411018	30.00 ug/L	-0.08
49) Chlorobenzene-d5	17.82	119	108795	30.00 ug/L	-0.06
63) 1,4-Dichlorobenzene-d4	21.43	152	150977	30.00 ug/L	-0.06
64) Ethylbenzene-d10	18.02	98	590914	30.00 ug/L	-0.06
System Monitoring Compounds					
26) 1,2-Dichloroethane-d4	11.89	65	180602	36.13 ug/L	0.00
Spiked Amount 30.000			Recovery =	120.43%	
27) Dibromofluoromethane	11.18	111	151561	42.07 ug/L	-0.10
Spiked Amount 30.000			Recovery =	140.23%	
44) Toluene-d8	15.76	98	476082	31.97 ug/L	-0.07
Spiked Amount 30.000			Recovery =	106.57%	
66) Bromofluorobenzene	19.55	95	154605	24.39 ug/L	-0.06
Spiked Amount 30.000			Recovery =	81.30%	

Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration
58012.D S041200.M Fri May 12 08:48:13 2000

Quantitation Report

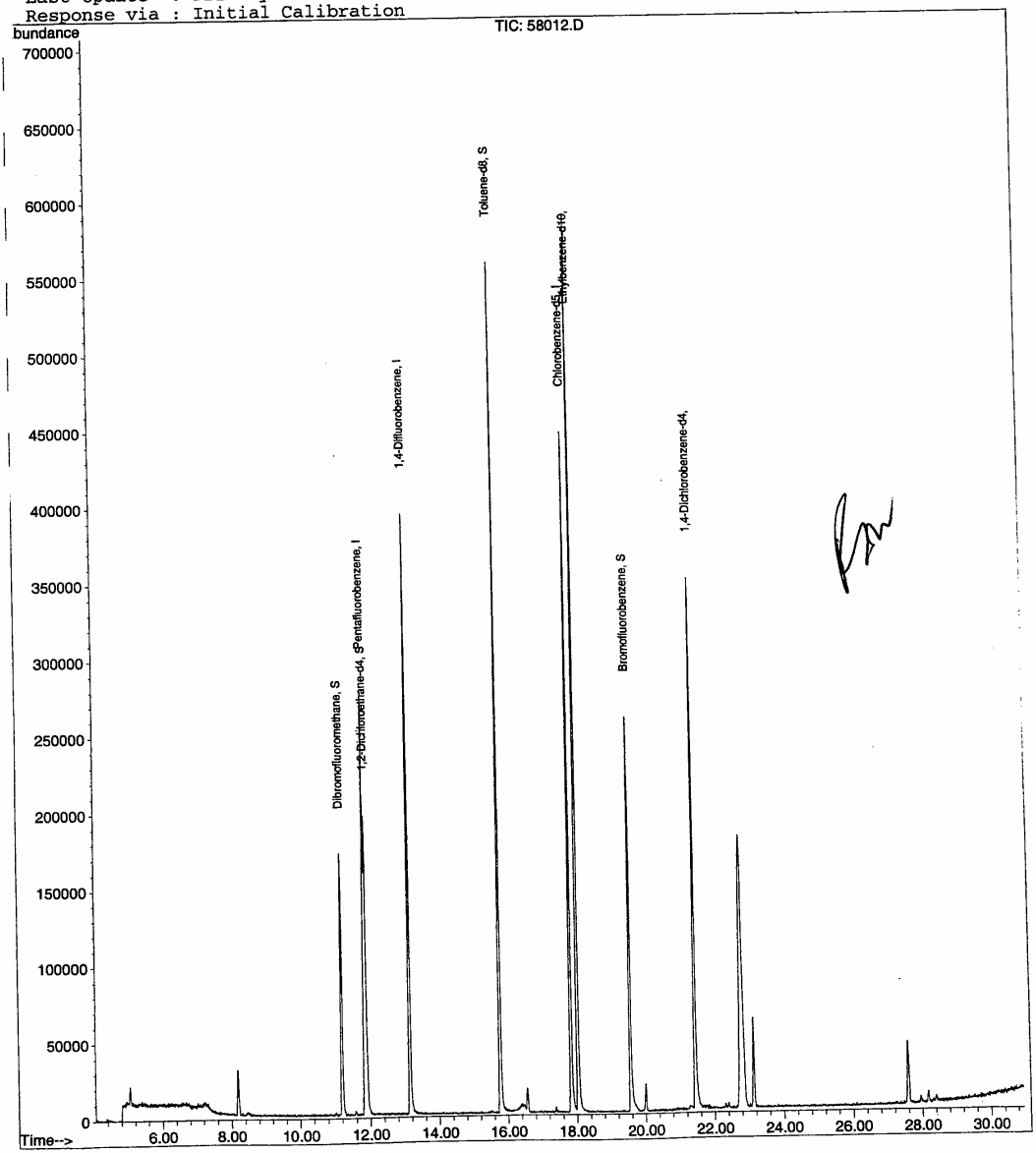
100

Data File : C:\HPCHEM\1\DATA\042400\58012.D
Acq On : 30 Apr 2000 5:30 am
Sample : 1
Misc : soil
MS Integration Params: rteint.p
Quant Time: May 12 8:48 19100

Vial: 31
Operator:
Inst : HP-10
Multiplr: 1.00

Quant Results File: S041200.RES

Method : C:\HPCHEM\1\METHODS\S041200.M (RTE Integrator)
Title : 8260 volatile organics
Last Update : Fri May 12 08:15:05 2000
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\TEMP\58012.D
Acq On : 30 Apr 2000 5:30 am
Sample : 1
Misc : soil
MS Integration Params: rteint.p
Quant Time: May 12 9:55 19100

Vial: 31
Operator:
Inst : HP-10
Multiplr: 1.00

Quant Results File: APS0219.RES

Quant Method : C:\HPCHEM\1\METHODS\APS0219.M (RTE Integrator)
Title : APPIX IX MIX
Last Update : Tue Mar 21 17:13:42 2000
Response via : Initial Calibration
DataAcq Meth : S041200

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	11.85	99	142639	30.00	ug/L	-0.06
18) 1,4-Difluorobenzene	13.13	63	97725	30.00	ug/L	-0.05
27) Chlorobenzene-d5	17.82	119	108795	30.00	ug/L	-0.05
29) 1,4-Dichlorobenzene-d4	21.43	152	150977	30.00	ug/L	-0.05
30) Ethylbenzene-d10	18.02	98	590914	30.00	ug/L	-0.05
System Monitoring Compounds						
16) 1,2-Dichloroethane-d4	11.89	65	180602	38.22	ug/L	-0.06
Spiked Amount 30.000			Recovery =	127.40%		
17) Dibromofluoromethane	11.18	111	151561	32.39	ug/L	-0.07
Spiked Amount 30.000			Recovery =	107.97%		
21) Toluene-d8	15.76	98	476082	28.56	ug/L	-0.06
Spiked Amount 30.000			Recovery =	95.20%		
31) Bromofluorobenzene	19.55	95	154605	25.85	ug/L	-0.04
Spiked Amount 30.000			Recovery =	86.17%		

Target Compounds Qvalue

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

Quantitation Report

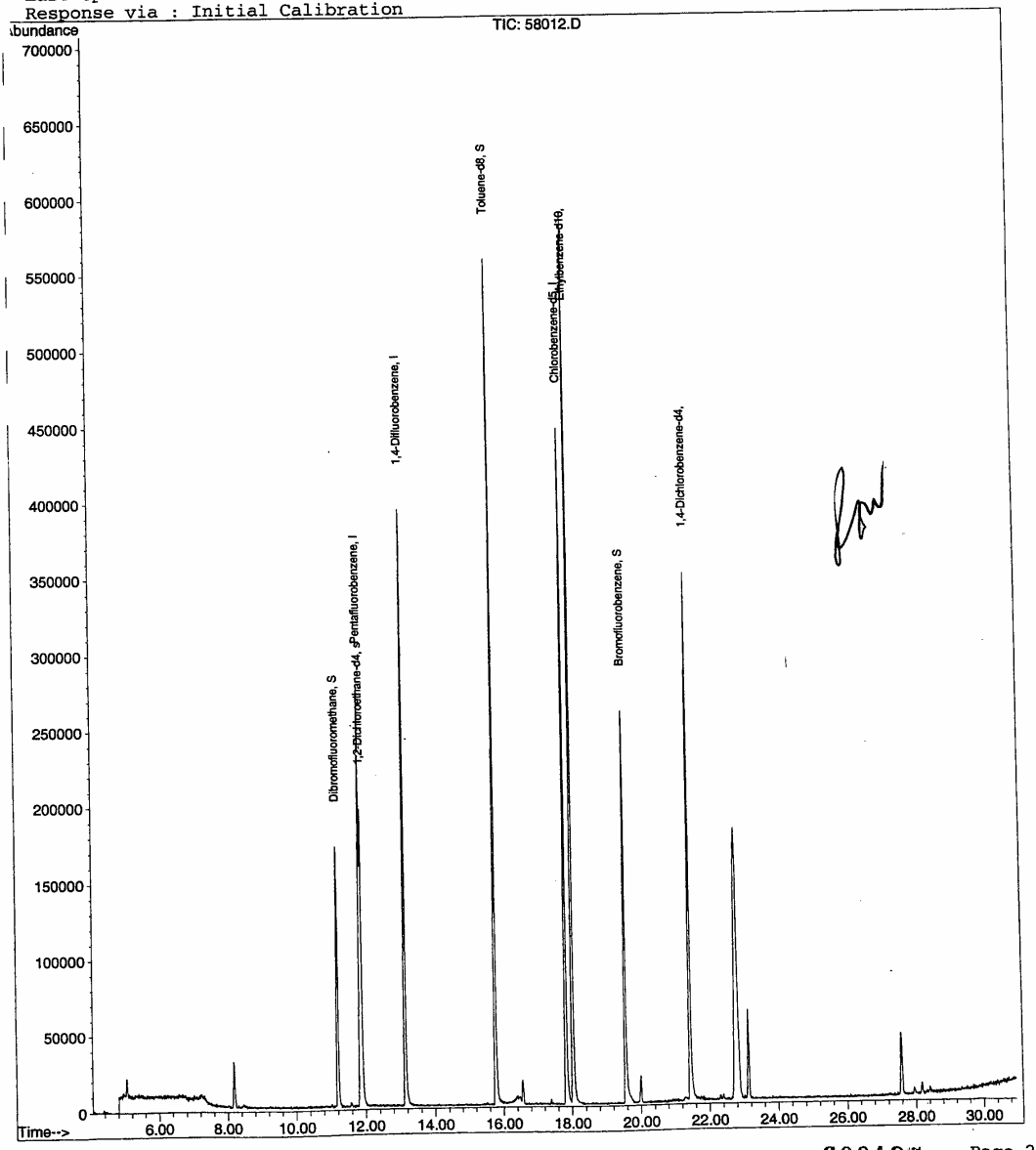
102

Data File : C:\HPCHEM\1\DATA\TEMP\58012.D
Acq On : 30 Apr 2000 5:30 am
Sample : 1
Misc : soil
MS Integration Params: rteint.p
Quant Time: May 12 9:55 19100

Vial: 31
Operator:
Inst : HP-10
Multiplr: 1.00

Quant Results File: APS0219.RES

Method : C:\HPCHEM\1\METHODS\APS0219.M (RTE Integrator)
Title : APPIX IX MIX
Last Update : Tue Mar 21 17:13:42 2000
Response via : Initial Calibration



SPECIALIZED ASSAYS, INC.
2960 Foster Creighton Dr.
P.O. Box 40566
Nashville, TN 37204-0566
Phone 1-615-726-0177

Sample Identification

264725

Matrix: Soil
% Dry Weight: 57.
Units: ug/kg dry weight
Dilution Factor: 1.
Analysis Method: SW8260B
Delivery Group: 189955
Instrument: HP-10

Lab Sample ID: 00-A58013
Date Sampled: 4/25/00
Date Received: 4/28/00
Analysis Date: 4/30/00
Analysis Time: 6:06
Sample QC Group: 7224

FORM I

CAS NUMBER	ANALYTE	CONCENTRATION	FLAG
67-64-1	Acetone	18.9	
107-02-8	Acrolein	17.5	U
107-13-1	Acrylonitrile	17.5	U
71-43-2	Benzene	3.5	U
108-86-1	Bromobenzene	3.5	U
74-97-5	Bromochloromethane	3.5	U
75-25-2	Bromoform	3.5	U
74-83-9	Bromomethane	3.5	U
78-93-3	2-Butanone	17.5	U
104-51-8	n-Butylbenzene	3.5	U
135-98-8	sec-Butylbenzene	3.5	U
98-06-6	t-Butylbenzene	3.5	U
75-15-0	Carbon disulfide	3.5	U
56-23-5	Carbon tetrachloride	3.5	U
108-90-7	Chlorobenzene	3.5	U
75-00-3	Chloroethane	3.5	U
110-75-8	2-Chloroethylvinylether	3.5	U
67-66-3	Chloroform	3.5	U
74-87-3	Chloromethane	3.5	U
95-49-8	2-Chlorotoluene	3.5	U
106-43-4	4-Chlorotoluene	3.5	U
96-12-8	1,2-Dibromo-3-chloropropane	17.5	U
124-48-1	Dibromochloromethane	3.5	U
106-93-4	1,2-Dibromoethane	3.5	U
74-95-3	Dibromomethane	3.5	U
110-57-6	1,4-Dichloro-2-butene	3.5	U
95-50-1	1,2-Dichlorobenzene	3.5	U
541-73-1	1,3-Dichlorobenzene	3.5	U
106-46-7	1,4-Dichlorobenzene	3.5	U
75-71-8	Dichlorodifluoromethane	3.5	U
75-34-3	1,1-Dichloroethane	3.5	U
107-06-2	1,2-Dichloroethane	3.5	U
75-35-4	1,1-Dichloroethene	3.5	U
156-59-2	cis-1,2-Dichloroethene	3.5	U
156-60-5	trans-1,2-Dichloroethene	3.5	U
78-87-5	1,2-Dichloropropane	3.5	U
142-28-9	1,3-Dichloropropane	3.5	U
594-20-7	2,2-Dichloropropane	3.5	U
563-58-6	1,1-Dichloropropene	3.5	U

COPY 1

SPECIALIZED ASSAYS, INC.
2960 Foster Creighton Dr.
P.O. Box 40566
Nashville, TN 37204-0566
Phone 1-615-726-0177

Sample Identification

264725

Matrix: Soil
% Dry Weight: 57.
Units: ug/kg dry weight

Lab Sample ID: 00-A58013
Date Sampled: 4/25/00
Date Received: 4/28/00

FORM I

CAS NUMBER	ANALYTE	CONCENTRATION	FLAG
10061-01-5	cis-1,3-Dichloropropene	3.5	U
10061-02-6	trans-1,3-Dichloropropene	3.5	U
123-91-1	1,4-Dioxane	17.5	U
100-41-4	Ethylbenzene	3.5	U
97-63-2	Ethyl methacrylate	8.8	U
87-68-3	Hexachlorobutadiene	3.5	U
591-78-6	2-Hexanone	17.5	U
74-88-4	Iodomethane	3.5	U
98-82-8	Isopropylbenzene	3.5	U
99-87-6	4-Isopropyltoluene	3.5	U
108-10-1	4-Methyl-2-pentanone	17.5	U
75-09-2	Methylene chloride	8.8	U
91-20-3	Naphthalene	8.8	U
103-65-1	n-Propylbenzene	3.5	U
100-42-5	Styrene	3.5	U
630-20-6	1,1,1,2-Tetrachloroethane	3.5	U
79-34-5	1,1,2,2-Tetrachloroethane	3.5	U
127-18-4	Tetrachloroethene	3.5	U
108-88-3	Toluene	3.5	U
87-61-6	1,2,3-Trichlorobenzene	3.5	U
120-82-1	1,2,4-Trichlorobenzene	3.5	U
71-55-6	1,1,1-Trichloroethane	3.5	U
79-00-5	1,1,2-Trichloroethane	3.5	U
79-01-6	Trichloroethene	3.5	U
96-18-4	1,2,3-Trichloropropane	3.5	U
95-63-6	1,2,4-Trimethylbenzene	3.5	U
108-67-8	1,3,5-Trimethylbenzene	3.5	U
108-05-4	Vinyl acetate	17.5	U
75-01-4	Vinyl chloride	3.5	U
75-27-4	Bromodichloromethane	3.5	U
6615	o-Xylene	3.5	U
1330-20-7	m,p-Xylene	3.5	U
75-69-4	Trichlorofluoromethane	3.5	U
5998	Hexane	8.8	U

COPY 1

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\042400\58013.D
Acq On : 30 Apr 2000 6:06 am
Sample : 1
Misc : soil
MS Integration Params: rteint.p
Quant Time: May 12 8:49 19100

Vial: 32
Operator:
Inst : HP-10
Multiplr: 1.00

Quant Results File: S041200.RES

Quant Method : C:\HPCHEM\1\METHODS\S041200.M (RTE Integrator)
Title : 8260 volatile organics
Last Update : Fri May 12 08:15:05 2000
Response via : Initial Calibration
DataAcq Meth : S041200

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Pentafluorobenzene	11.85	168	234021	30.00 ug/L	-0.09
31) 1,4-Difluorobenzene	13.13	114	396765	30.00 ug/L	-0.09
49) Chlorobenzene-d5	17.82	119	98574	30.00 ug/L	-0.06
63) 1,4-Dichlorobenzene-d4	21.43	152	117274	30.00 ug/L	-0.06
64) Ethylbenzene-d10	18.02	98	547223	30.00 ug/L	-0.06
System Monitoring Compounds					
26) 1,2-Dichloroethane-d4	11.89	65	172007	34.98 ug/L	0.00
Spiked Amount 30.000			Recovery =	116.60%	
27) Dibromofluoromethane	11.19	111	148334	41.93 ug/L	-0.09
Spiked Amount 30.000			Recovery =	139.77%	
44) Toluene-d8	15.76	98	448076	31.07 ug/L	-0.07
Spiked Amount 30.000			Recovery =	103.57%	
66) Bromofluorobenzene	19.55	95	129378	21.74 ug/L	-0.05
Spiked Amount 30.000			Recovery =	72.47%	
Target Compounds					Qvalue
9) Acetone	7.22	43	24075m	10.83 ug/L	

(#) = qualifier out of range (m) = manual integration
58013.D S041200.M Fri May 12 08:50:06 2000

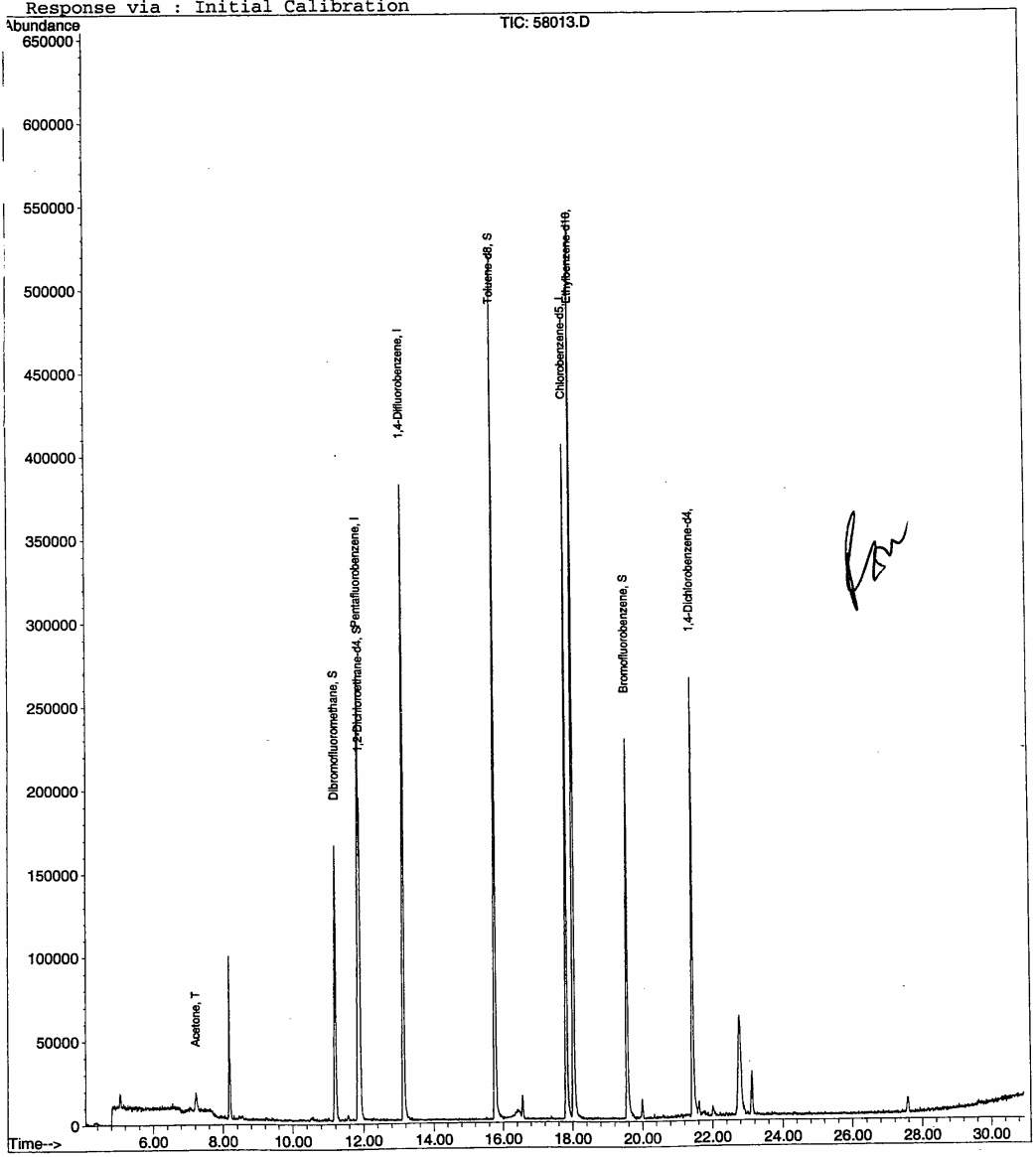
Quantitation Report

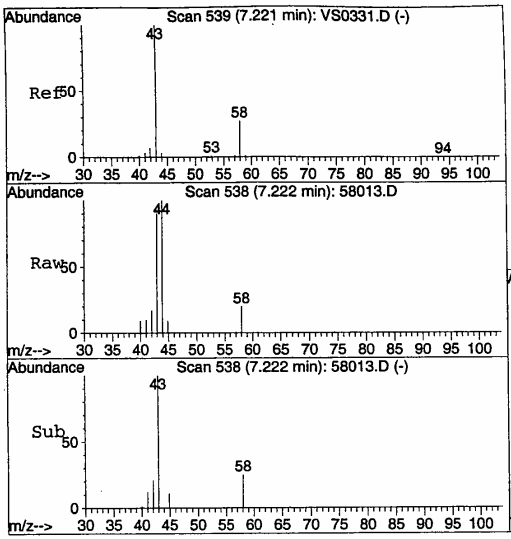
Data File : C:\HPCHEM\1\DATA\042400\58013.D
Acq On : 30 Apr 2000 6:06 am
Sample : 1
Misc : soil
MS Integration Params: rteint.p
Quant Time: May 12 8:49 19100

Vial: 32
Operator:
Inst : HP-10
Multiplr: 1.00

Quant Results File: S041200.RES

Method : C:\HPCHEM\1\METHODS\S041200.M (RTE Integrator)
Title : 8260 volatile organics
Last Update : Fri May 12 08:15:05 2000
Response via : Initial Calibration

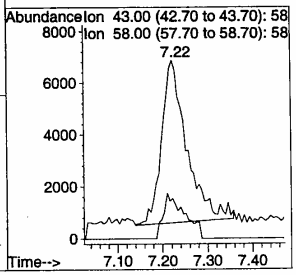




#9
Acetone
Concen: 10.83 ug/L m
RT: 7.22 min Scan# 538
Delta R.T. -0.11 min
Lab File: 58013.D
Acq: 30 Apr 2000 6:06 am

Tgt Ion: 43 Resp: 24075

Ion	Ratio	Lower	Upper
43	100		
58	23.4	23.8	35.8#



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\TEMP\58013.D
Acq On : 30 Apr 2000 6:06 am
Sample : 1
Misc : soil
MS Integration Params: rteint.p
Quant Time: May 12 9:55 19100

Vial: 32
Operator:
Inst : HP-10
Multiplr: 1.00

Quant Results File: APS0219.RES

Quant Method : C:\HPCHEM\1\METHODS\APS0219.M (RTE Integrator)
Title : APPIX IX MIX
Last Update : Tue Mar 21 17:13:42 2000
Response via : Initial Calibration
DataAcq Meth : S041200

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Pentafluorobenzene	11.85	99	144199	30.00 ug/L	-0.06
18) 1,4-Difluorobenzene	13.13	63	94991	30.00 ug/L	-0.06
27) Chlorobenzene-d5	17.82	119	98574	30.00 ug/L	-0.05
29) 1,4-Dichlorobenzene-d4	21.43	152	117274	30.00 ug/L	-0.05
30) Ethylbenzene-d10	18.02	98	547223	30.00 ug/L	-0.05
System Monitoring Compounds					
16) 1,2-Dichloroethane-d4	11.89	65	172007	36.01 ug/L	-0.06
Spiked Amount 30.000			Recovery =	120.03%	
17) Dibromofluoromethane	11.19	111	148334	31.36 ug/L	-0.06
Spiked Amount 30.000			Recovery =	104.53%	
21) Toluene-d8	15.76	98	448076	27.65 ug/L	-0.06
Spiked Amount 30.000			Recovery =	92.17%	
31) Bromofluorobenzene	19.55	95	129378	23.36 ug/L	-0.04
Spiked Amount 30.000			Recovery =	77.87%	

Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration
58013.D APS0219.M Fri May 12 09:56:00 2000

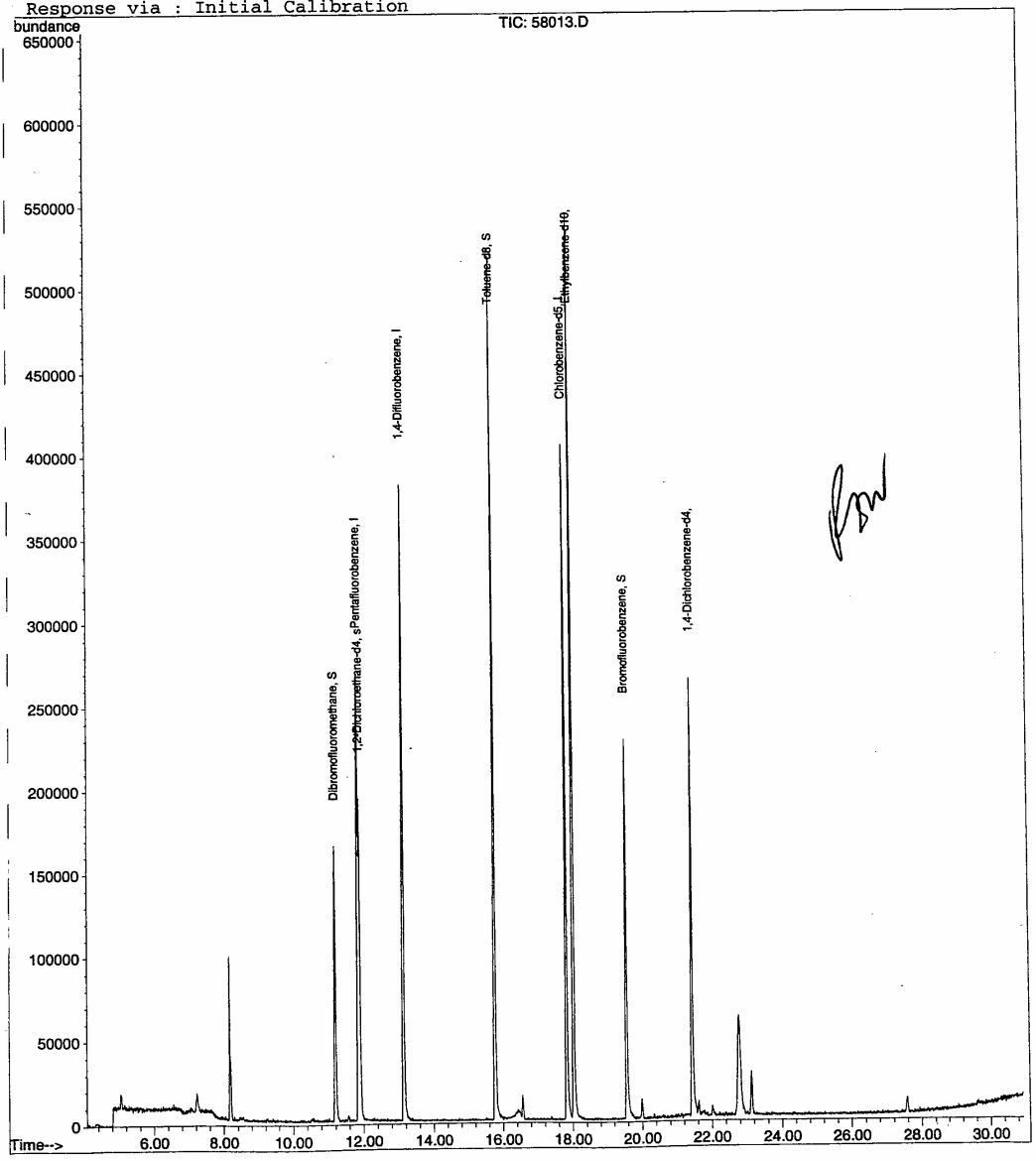
Quantitation Report

Data File : C:\HPCHEM\1\DATA\TEMP\58013.D
Acq On : 30 Apr 2000 6:06 am
Sample : 1
Misc : soil
MS Integration Params: rteint.p
Quant Time: May 12 9:55 19100

Vial: 32
Operator:
Inst : HP-10
Multiplr: 1.00

Quant Results File: APS0219.RES

Method : C:\HPCHEM\1\METHODS\APS0219.M (RTE Integrator)
Title : APPIX IX MIX
Last Update : Tue Mar 21 17:13:42 2000
Response via : Initial Calibration



SPECIALIZED ASSAYS, INC.
2960 Foster Creighton Dr.
P.O. Box 40566
Nashville, TN 37204-0566
Phone 1-615-726-0177

Sample Identification

264726

Matrix: Soil
% Dry Weight: 72.
Units: ug/kg dry weight
Dilution Factor: 1.
Analysis Method: SW8260B
Delivery Group: 189955
Instrument: HP-10

Lab Sample ID: 00-A58073
Date Sampled: 4/25/00
Date Received: 4/28/00
Analysis Date: 4/30/00
Analysis Time: 6:43
Sample QC Group: 7224

FORM I

CAS NUMBER	ANALYTE	CONCENTRATION	FLAG
67-64-1	Acetone	13.9	U
107-02-8	Acrolein	13.9	U
107-13-1	Acrylonitrile	13.9	U
71-43-2	Benzene	2.8	U
108-86-1	Bromobenzene	2.8	U
74-97-5	Bromochloromethane	2.8	U
75-25-2	Bromoform	2.8	U
74-83-9	Bromomethane	2.8	U
78-93-3	2-Butanone	13.9	U
104-51-8	n-Butylbenzene	2.8	U
135-98-8	sec-Butylbenzene	2.8	U
98-06-6	t-Butylbenzene	2.8	U
75-15-0	Carbon disulfide	2.8	U
56-23-5	Carbon tetrachloride	2.8	U
108-90-7	Chlorobenzene	2.8	U
75-00-3	Chloroethane	2.8	U
110-75-8	2-Chloroethylvinylether	2.8	U
67-66-3	Chloroform	2.8	U
74-87-3	Chloromethane	2.8	U
95-49-8	2-Chlorotoluene	2.8	U
106-43-4	4-Chlorotoluene	2.8	U
96-12-8	1,2-Dibromo-3-chloropropane	13.9	U
124-48-1	Dibromochloromethane	2.8	U
106-93-4	1,2-Dibromoethane	2.8	U
74-95-3	Dibromomethane	2.8	U
110-57-6	1,4-Dichloro-2-butene	2.8	U
95-50-1	1,2-Dichlorobenzene	2.8	U
541-73-1	1,3-Dichlorobenzene	2.8	U
106-46-7	1,4-Dichlorobenzene	2.8	U
75-71-8	Dichlorodifluoromethane	2.8	U
75-34-3	1,1-Dichloroethane	2.8	U
107-06-2	1,2-Dichloroethane	2.8	U
75-35-4	1,1-Dichloroethene	2.8	U
156-59-2	cis-1,2-Dichloroethene	2.8	U
156-60-5	trans-1,2-Dichloroethene	2.8	U
78-87-5	1,2-Dichloropropane	2.8	U
142-28-9	1,3-Dichloropropane	2.8	U
594-20-7	2,2-Dichloropropane	2.8	U
563-58-6	1,1-Dichloropropene	2.8	U

COPY 1

SPECIALIZED ASSAYS, INC.
2960 Foster Creighton Dr.
P.O. Box 40566
Nashville, TN 37204-0566
Phone 1-615-726-0177

Sample Identification

264726

Matrix: Soil
% Dry Weight: 72.
Units: ug/kg dry weight

Lab Sample ID: 00-A58073
Date Sampled: 4/25/00
Date Received: 4/28/00

FORM I

CAS NUMBER	ANALYTE	CONCENTRATION	FLAG
10061-01-5	cis-1,3-Dichloropropene	2.8	U
10061-02-6	trans-1,3-Dichloropropene	2.8	U
123-91-1	1,4-Dioxane	13.9	U
100-41-4	Ethylbenzene	2.8	U
97-63-2	Ethyl methacrylate	6.9	U
87-68-3	Hexachlorobutadiene	2.8	U
591-78-6	2-Hexanone	13.9	U
74-88-4	Iodomethane	2.8	U
98-82-8	Isopropylbenzene	2.8	U
99-87-6	4-Isopropyltoluene	2.8	U
108-10-1	4-Methyl-2-pentanone	13.9	U
75-09-2	Methylene chloride	6.9	U
91-20-3	Naphthalene	6.9	U
103-65-1	n-Propylbenzene	2.8	U
100-42-5	Styrene	2.8	U
630-20-6	1,1,1,2-Tetrachloroethane	2.8	U
79-34-5	1,1,2,2-Tetrachloroethane	2.8	U
127-18-4	Tetrachloroethene	2.8	U
108-88-3	Toluene	2.8	U
87-61-6	1,2,3-Trichlorobenzene	2.8	U
120-82-1	1,2,4-Trichlorobenzene	2.8	U
71-55-6	1,1,1-Trichloroethane	2.8	U
79-00-5	1,1,2-Trichloroethane	2.8	U
79-01-6	Trichloroethene	2.8	U
96-18-4	1,2,3-Trichloropropane	2.8	U
95-63-6	1,2,4-Trimethylbenzene	2.8	U
108-67-8	1,3,5-Trimethylbenzene	2.8	U
108-05-4	Vinyl acetate	13.9	U
75-01-4	Vinyl chloride	2.8	U
75-27-4	Bromodichloromethane	2.8	U
6615	o-Xylene	2.8	U
1330-20-7	m,p-Xylene	2.8	U
75-69-4	Trichlorofluoromethane	2.8	U
5998	Hexane	6.9	U

COPY 1

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\042400\58073.D
Acq On : 30 Apr 2000 6:43 am
Sample : 1
Misc : soil
MS Integration Params: rteint.p
Quant Time: May 12 8:51 19100

Vial: 33
Operator:
Inst : HP-10
Multiplr: 1.00

Quant Results File: S041200.RES

Quant Method : C:\HPCHEM\1\METHODS\S041200.M (RTE Integrator)
Title : 8260 volatile organics
Last Update : Fri May 12 08:15:05 2000
Response via : Initial Calibration
DataAcq Meth : S041200

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	11.84	168	234862	30.00	ug/L	-0.09
31) 1,4-Difluorobenzene	13.13	114	403962	30.00	ug/L	-0.09
49) Chlorobenzene-d5	17.82	119	102699	30.00	ug/L	-0.07
63) 1,4-Dichlorobenzene-d4	21.43	152	124002	30.00	ug/L	-0.06
64) Ethylbenzene-d10	18.02	98	570603	30.00	ug/L	-0.07
System Monitoring Compounds						
26) 1,2-Dichloroethane-d4	11.89	65	170391	34.49	ug/L	0.00
Spiked Amount 30.000			Recovery = 114.97%			
27) Dibromofluoromethane	11.19	111	149386	42.09	ug/L	-0.10
Spiked Amount 30.000			Recovery = 140.30%			
44) Toluene-d8	15.76	98	455600	31.03	ug/L	-0.07
Spiked Amount 30.000			Recovery = 103.43%			
66) Bromofluorobenzene	19.55	95	134908	21.74	ug/L	-0.06
Spiked Amount 30.000			Recovery = 72.47%			

Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration
58073.D S041200.M Fri May 12 08:51:50 2000

Quantitation Report

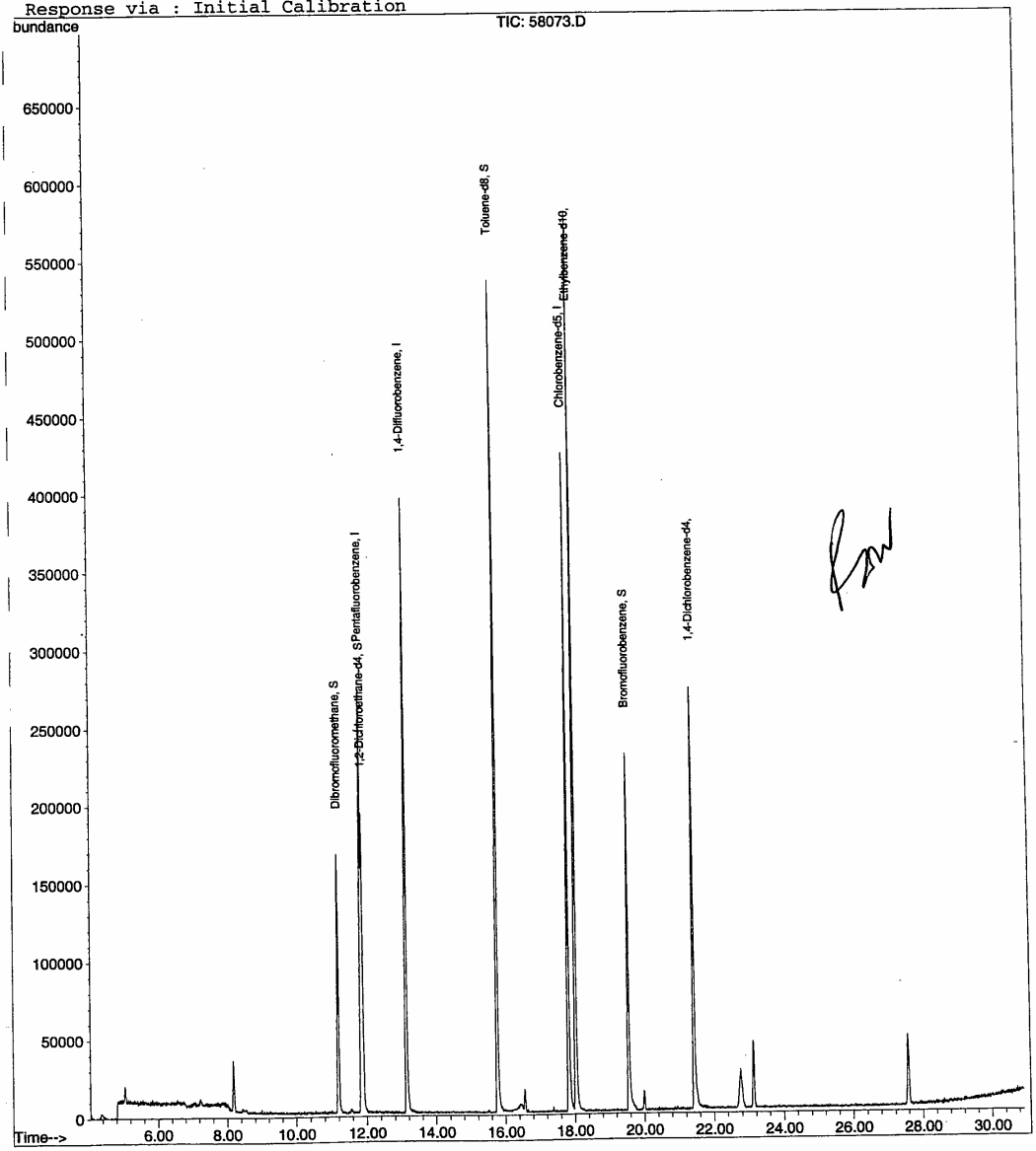
113

Data File : C:\HPCHEM\1\DATA\042400\58073.D
Acq On : 30 Apr 2000 6:43 am
Sample : 1
Misc : soil
MS Integration Params: rteint.p
Quant Time: May 12 8:51 19100

Vial: 33
Operator:
Inst : HP-10
Multiplr: 1.00

Quant Results File: S041200.RES

Method : C:\HPCHEM\1\METHODS\S041200.M (RTE Integrator)
Title : 8260 volatile organics
Last Update : Fri May 12 08:15:05 2000
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\TEMP\58073.D
Acq On : 30 Apr 2000 6:43 am
Sample : 1
Misc : soil
MS Integration Params: rteint.p
Quant Time: May 12 9:56 19100

Vial: 33
Operator:
Inst : HP-10
Multiplr: 1.00

Quant Results File: APS0219.RES

Quant Method : C:\HPCHEM\1\METHODS\APS0219.M (RTE Integrator)
Title : APPIX IX MIX
Last Update : Tue Mar 21 17:13:42 2000
Response via : Initial Calibration
DataAcq Meth : S041200

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Pentafluorobenzene	11.84	99	144592	30.00 ug/L	-0.06
18) 1,4-Difluorobenzene	13.13	63	98503	30.00 ug/L	-0.05
27) Chlorobenzene-d5	17.82	119	102699	30.00 ug/L	-0.05
29) 1,4-Dichlorobenzene-d4	21.43	152	124002	30.00 ug/L	-0.05
30) Ethylbenzene-d10	18.02	98	570603	30.00 ug/L	-0.05
System Monitoring Compounds					
16) 1,2-Dichloroethane-d4	11.89	65	170391	35.57 ug/L	-0.06
Spiked Amount 30.000			Recovery =	118.57%	
17) Dibromofluoromethane	11.19	111	149386	31.50 ug/L	-0.06
Spiked Amount 30.000			Recovery =	105.00%	
21) Toluene-d8	15.76	98	455600	27.12 ug/L	-0.06
Spiked Amount 30.000			Recovery =	90.40%	
31) Bromofluorobenzene	19.55	95	134908	23.36 ug/L	-0.04
Spiked Amount 30.000			Recovery =	77.87%	

Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration
58073.D APS0219.M Fri May 12 09:56:37 2000

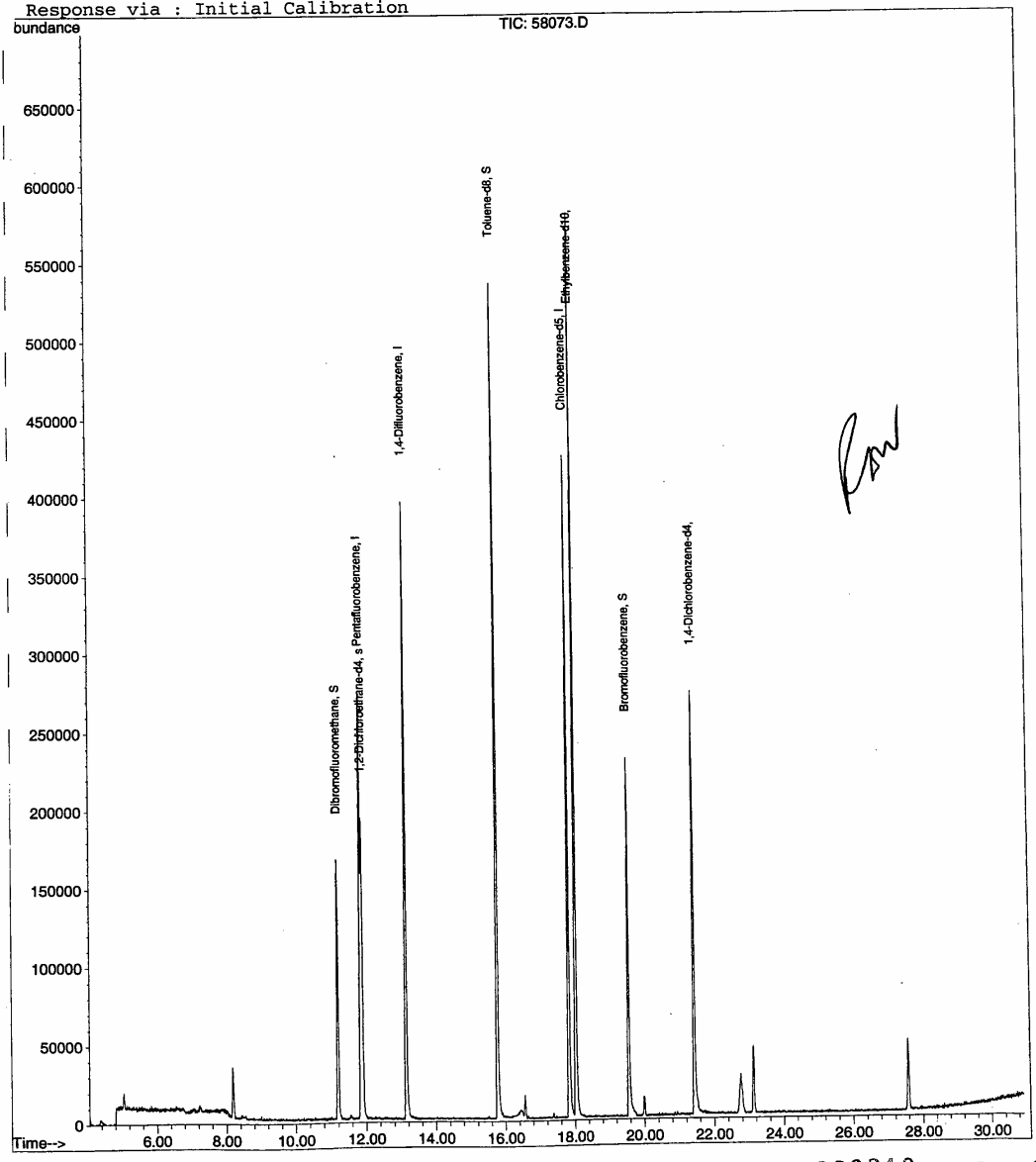
Quantitation Report

Data File : C:\HPCHEM\1\DATA\TEMP\58073.D
Acq On : 30 Apr 2000 6:43 am
Sample : 1
Misc : soil
MS Integration Params: rteint.p
Quant Time: May 12 9:56 19100

Vial: 33
Operator:
Inst : HP-10
Multiplr: 1.00

Quant Results File: APS0219.RES

Method : C:\HPCHEM\1\METHODS\APS0219.M (RTE Integrator)
Title : APPIX IX MIX
Last Update : Tue Mar 21 17:13:42 2000
Response via : Initial Calibration



Response Factor Report HP-10

Method : C:\HPCHEM\1\METHODS\S041200.M (RTE Integrator)
Title : 8260 volatile organics
Last Update : Fri May 12 08:15:05 2000
Response via : Initial Calibration

Calibration Files
2 =S0020412.D 10 =S0100412.D 20 =S0200412.D
50 =S0500412.D 100 =S1000412.D 200 =S2000412.D

		Compound	2	10	20	50	100	200	Avg	%RSD
			----------ISTD----------							
1)	I	Pentafluorobenzene								
2)	T	Dichlorodifluoromet	0.815	0.831	0.916	0.882	0.891	0.864	0.867	4.37
3)	P	Chloromethane	1.137	1.048	1.093	1.016	1.028	1.016	1.056	4.64
4)	C	Vinyl Chloride	0.793	0.742	0.842	0.788	0.749		0.783	5.09
5)	T	Bromomethane	0.762	0.699	0.593	0.552	0.587	0.642	0.639	12.36
6)	T	Chloroethane	0.447	0.454	0.480	0.454	0.453	0.451	0.456	2.64
7)	T	Trichlorofluorometh	0.759	0.787	0.815	0.790	0.804	0.775	0.788	2.53
8)		Acrolein	0.024	0.025	0.030	0.033	0.041	0.049	0.034	28.17
9)	T	Acetone	0.262	0.172	0.180	0.159	0.166	0.159	0.183	21.56
10)		Diethyl Ether	0.448	0.444	0.473	0.464	0.481	0.470	0.463	3.15
11)	CM	1,1-Dichloroethene	0.579	0.490	0.501	0.479	0.488	0.466	0.501	8.06
12)		Iodomethane	0.321	0.018	0.530	0.561	0.536	0.553	0.420	51.58
13)		Acrylonitrile	0.171	0.173	0.191	0.179	0.193	0.181	0.181	5.01
14)	T	Methylene Chloride	4.466	1.258	0.943	0.712	0.668	0.602	1.442	104.12
15)	T	Carbon Disulfide	1.796	1.923	1.899	1.887	2.018	1.905	1.905	3.74
16)	T	trans-1,2-Dichloroe	0.903	0.929	0.961	0.937	0.950	0.921	0.934	2.23
17)	T	Methyl-t-butyl ethe	1.415	1.455	1.576	1.512	1.578	1.547	1.514	4.40
18)	P	1,1-Dichloroethane	1.057	1.144	1.167	1.132	1.148	1.108	1.126	3.46
19)		Vinyl Acetate	1.255	1.339	1.455	1.436	1.526	1.255	1.378	8.15
20)	T	2-Butanone	0.463	0.460	0.507	0.480	0.503	0.489	0.483	4.07
21)	T	Diisopropyl ether	2.263	2.363	2.455	2.356	2.401	2.350	2.365	2.68
22)	T	cis-1,2-Dichloroeth	0.795	0.856	0.888	0.852	0.869	0.856	0.853	3.65
23)	T	Bromochloromethane	0.299	0.332	0.353	0.342	0.350	0.335	0.335	5.79
24)	C	Chloroform	0.996	0.991	1.047	0.998	1.016	0.989	1.006	2.21
25)	T	2,2-Dichloropropane	0.697	0.760	0.797	0.770	0.800	0.789	0.769	5.02
26)	S	1,2-Dichloroethane-	0.421	0.681	0.679	0.668	0.627	0.589	0.611	16.30 ok
27)	S	Dibromofluoromethan	0.243	0.500	0.512	0.505	0.446	0.425	0.439	23.28 ok
28)	T	1,2-Dichloroethane	0.696	0.716	0.767	0.727	0.750	0.723	0.730	3.47
29)	T	1,1,1-Trichloroetha	0.715	0.736	0.779	0.742	0.762	0.744	0.747	2.95
30)	T	1,1-Dichloropropene	0.600	0.636	0.667	0.641	0.655	0.643	0.640	3.53
			----------ISTD----------							
31)	I	1,4-Difluorobenzene								
32)	T	Carbon Tetrachlorid	0.350	0.366	0.392	0.383	0.388	0.383	0.377	4.20
33)	M	Benzene	1.445	1.458	1.539	1.467	1.490	1.479	1.479	2.24
34)	T	Dibromomethane	0.183	0.204	0.222	0.207	0.215	0.211	0.207	6.46
35)		2,3-Dichloro-1-prop	0.140	0.168	0.178	0.171	0.174	0.167	0.166	8.14
36)	C	1,2-Dichloropropane	0.382	0.412	0.429	0.407	0.414	0.403	0.408	3.77
37)	M	Trichloroethene	0.313	0.328	0.337	0.328	0.333	0.326	0.328	2.55
38)	T	Bromodichloromethan	0.366	0.397	0.432	0.425	0.439	0.434	0.416	6.81
39)	T	2-Chloroethyl vinyl	0.076	0.082	0.086	0.081	0.083	0.081	0.082	3.77
40)	T	cis-1,3-Dichloropro	0.416	0.491	0.535	0.521	0.545	0.545	0.509	9.74
41)	T	4-Methyl-2-pentanon	0.114	0.128	0.147	0.138	0.150	0.143	0.137	10.01
42)	T	trans-1,3-Dichlorop	0.360	0.438	0.492	0.490	0.523	0.525	0.471	13.34
43)	T	1,1,2-Trichloroetha	0.235	0.257	0.282	0.266	0.280	0.274	0.266	6.58
44)	S	Toluene-d8	0.584	1.222	1.228	1.209	1.026	0.979	1.041	23.88 ok
45)	CM	Toluene	1.341	1.371	1.450	1.385	1.414	1.383	1.391	2.68
46)	T	1,3-Dichloropropane	0.476	0.514	0.557	0.525	0.544	0.530	0.524	5.32
47)		Ethyl Methacrylate	0.353	0.406	0.460	0.434	0.465	0.440	0.427	9.76
48)	T	2-Hexanone	0.113	0.123	0.145	0.137	0.151	0.144	0.136	10.70
			----------ISTD----------							
49)	I	Chlorobenzene-d5								
50)	T	Dibromochloromethan	0.599	0.735	0.817	0.840	0.836	0.896	0.787	13.45
51)	T	1,2-Dibromoethane	0.799	0.955	1.038	1.036	1.026	1.083	0.989	10.32
52)	T	Tetrachloroethene	1.089	1.172	1.161	1.154	1.103	1.147	1.138	2.95
53)	T	1,1,1,2-Tetrachloro	0.899	1.011	1.066	1.082	1.069	1.119	1.041	7.48
54)	PM	Chlorobenzene	3.042	3.146	3.217	3.167	3.093	3.221	3.148	2.24
55)	C	Ethylbenzene	5.497	5.718	5.907	5.790	5.612	5.856	5.730	2.69

(#) = Out of Range ### Number of calibration levels exceeded format ###

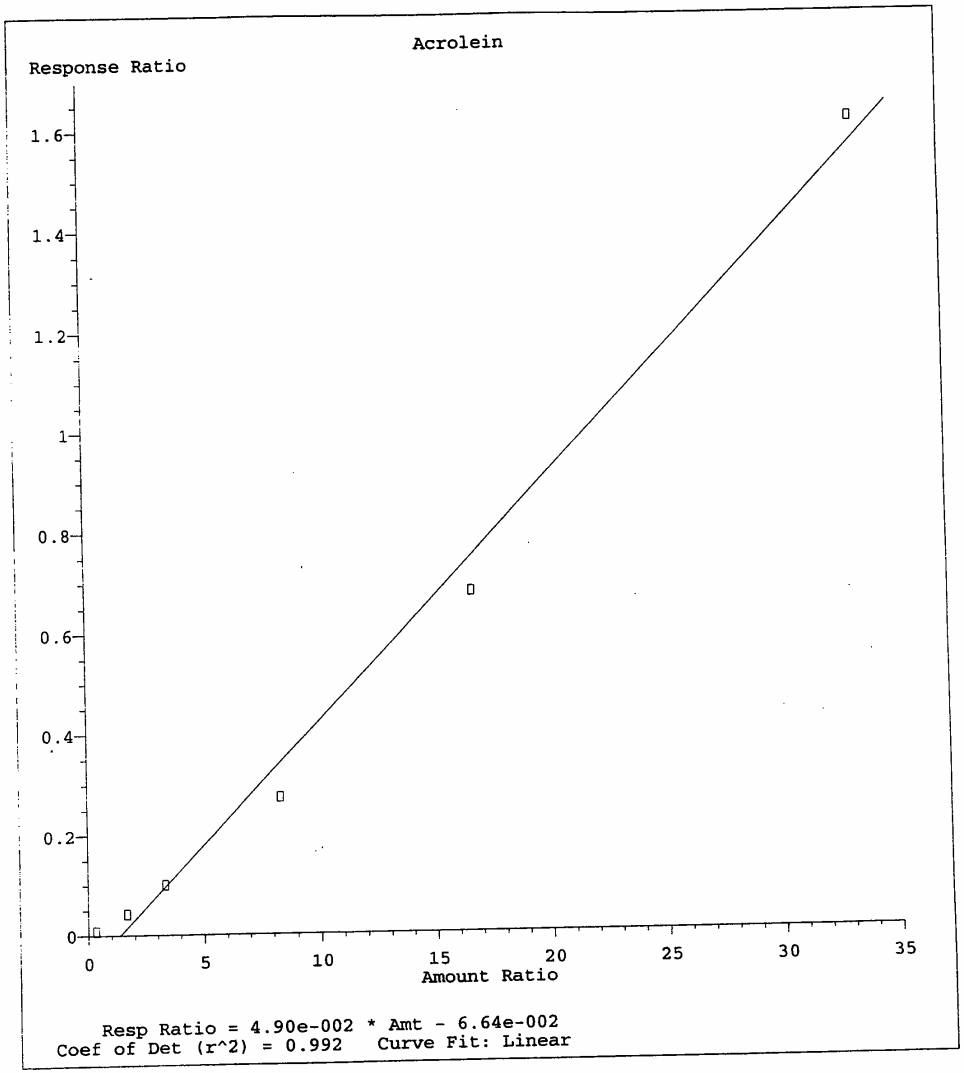
Response Factor Report HP-10

Method : C:\HPCHEM\1\METHODS\S041200.M (RTE Integrator)
Title : 8260 volatile organics
Last Update : Fri May 12 08:15:05 2000
Response via : Initial Calibration

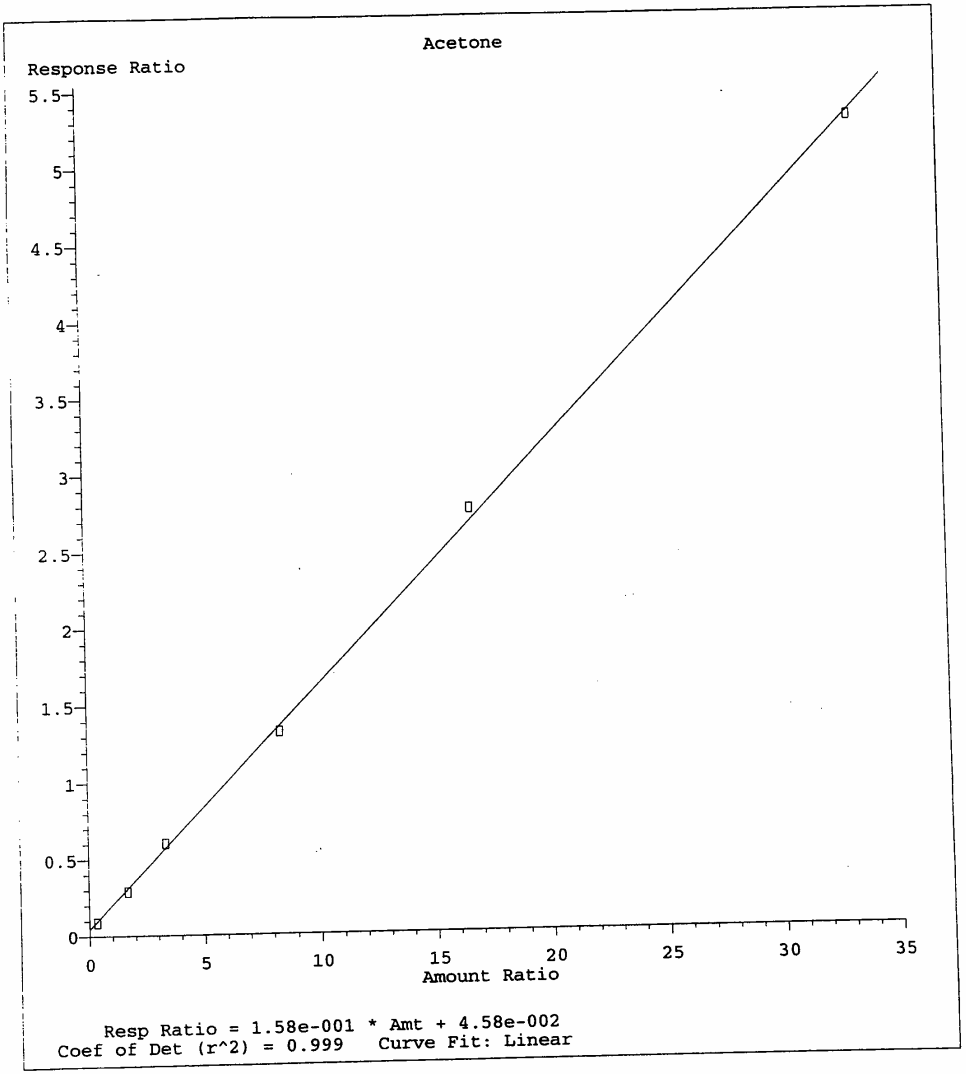
Calibration Files
2 =S0020412.D 10 =S0100412.D 20 =S0200412.D
50 =S0500412.D 100 =S1000412.D 200 =S2000412.D

		Compound	2	10	20	50	100	200	Avg	%RSD
56)	T	m,p-Xylene	4.155	4.283	4.396	4.350	4.181	4.350	4.286	2.30
57)	P	Bromoform	0.399	0.541	0.620	0.664	0.682	0.728	0.605	19.71
5)	T	Styrene	2.461	2.866	3.148	3.242	3.175	3.334	3.038	10.64
5)	T	o-Xylene	4.182	4.392	4.587	4.497	4.327	4.447	4.405	3.20
60)	P	1,1,2,2-Tetrachloro	1.200	1.364	1.474	1.427	1.410	1.373	1.375	6.86
61)	T	1,2,3-Trichloroprop	1.121	1.322	1.476	1.469	1.499	1.531	1.403	11.10
6)		Trans-1.4-dichloro-	0.031	0.219	0.271	0.297	0.315	0.324	0.243	45.43
63)		1,4-Dichlorobenzene-d	----------ISTD----------							
6)		Ethylbenzene-d10	----------ISTD----------							
6)	T	Isopropylbenzene	0.915	0.958	1.007	0.987	0.989	0.969	0.971	3.34
66)	S	Bromofluorobenzene	0.186	0.332	0.344	0.342	0.302	0.287	0.299	20.07
67)	T	Bromobenzene	0.429	0.441	0.466	0.450	0.450	0.442	0.446	2.81
6)	T	Propylbenzene	1.147	1.224	1.271	1.256	1.239	1.207	1.224	3.61
6)	T	2-Chlorotoluene	0.706	0.730	0.759	0.741	0.729	0.715	0.730	2.56
70)	T	4-Chlorotoluene	0.696	0.713	0.753	0.738	0.720	0.704	0.720	2.97
71)	T	1,3,5-Trimethylbenz	0.688	0.750	0.785	0.772	0.767	0.749	0.752	4.51
72)	T	t-Butylbenzene	0.615	0.643	0.669	0.658	0.647	0.630	0.644	3.04
7)	T	1,2,4-trimethylbenz	0.719	0.742	0.777	0.761	0.759	0.734	0.748	2.81
74)	T	sec-Butylbenzene	1.048	1.062	1.087	1.064	1.046	1.010	1.053	2.43
75)	T	1,3-Dichlorobenzene	0.414	0.423	0.433	0.423	0.416	0.399	0.418	2.78
76)	T	1,4-Dichlorobenzene	0.468	0.453	0.448	0.439	0.420	0.406	0.439	5.13
7)	T	1,2-Dichlorobenzene	0.374	0.394	0.411	0.397	0.392	0.377	0.391	3.52
3)	T	p-Isopropyltoluene	0.777	0.811	0.838	0.822	0.800	0.774	0.804	3.12
79)	T	Butylbenzene	0.810	0.830	0.853	0.843	0.820	0.783	0.823	3.04
80)	T	1,2-Dibromo-3-chlor	0.232	0.041	0.046	0.040	0.043	0.040	0.074	105.17
1)	T	1,2,4-Trichlorobenz	0.229	0.224	0.222	0.219	0.215	0.209	0.220	3.22
2)	T	Naphthalene	0.653	0.543	0.554	0.533	0.551	0.533	0.561	8.14
83)	T	Hexachlorobutadiene	0.122	0.124	0.122	0.121	0.116	0.112	0.120	3.96
84)	T	1,2,3-Trichlorobenz	0.219	0.211	0.214	0.207	0.205	0.197	0.209	3.70

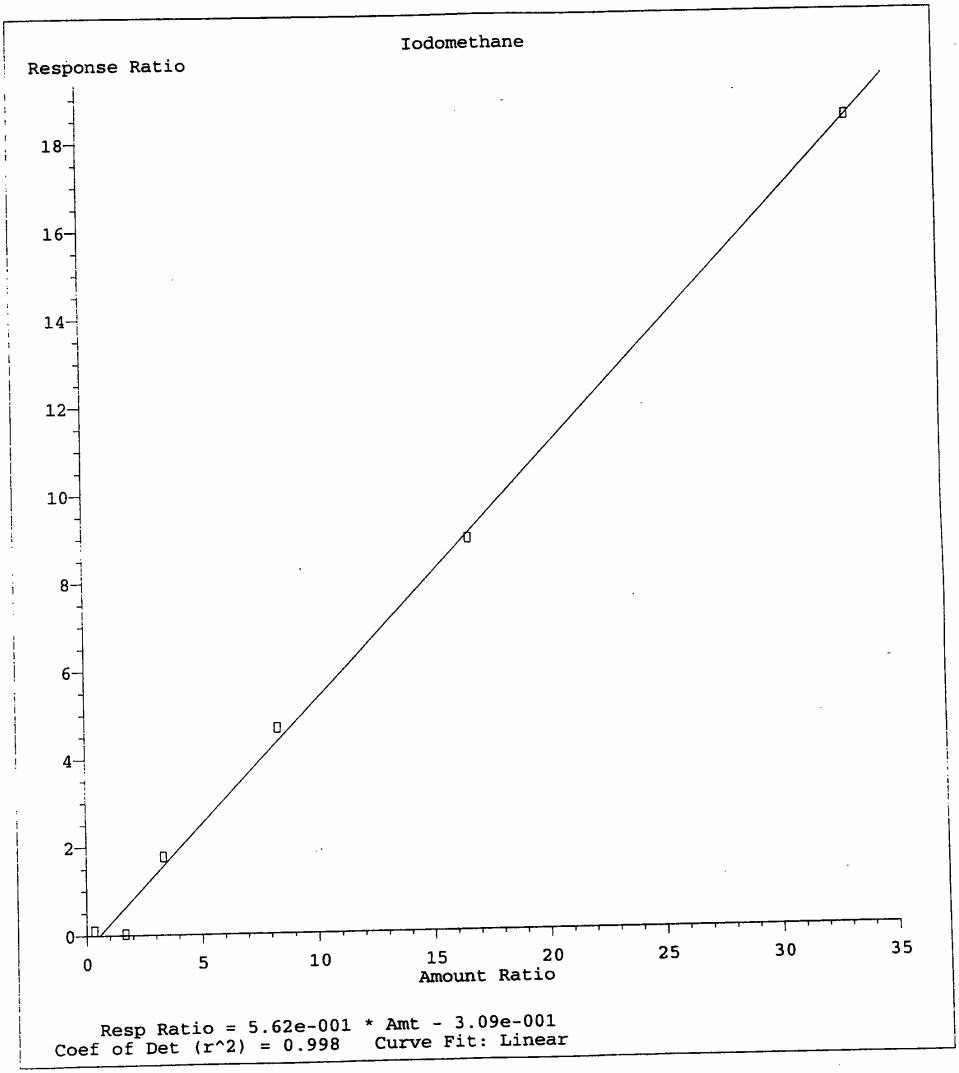
#) = Out of Range ### Number of calibration levels exceeded format ###



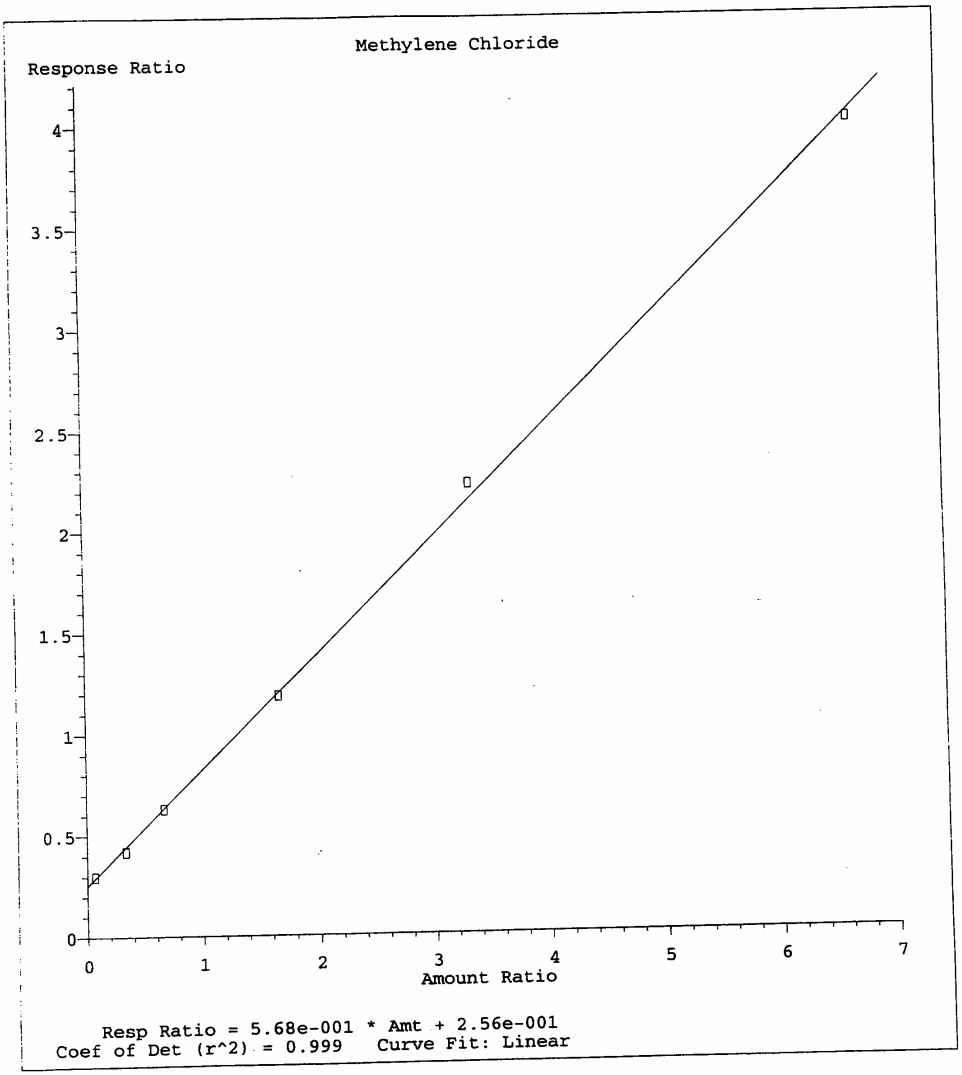
Method Name: C:\HPCHEM\1\METHODS\S041200.M
Calibration Table Last Updated: Fri May 12 08:12:58 2000



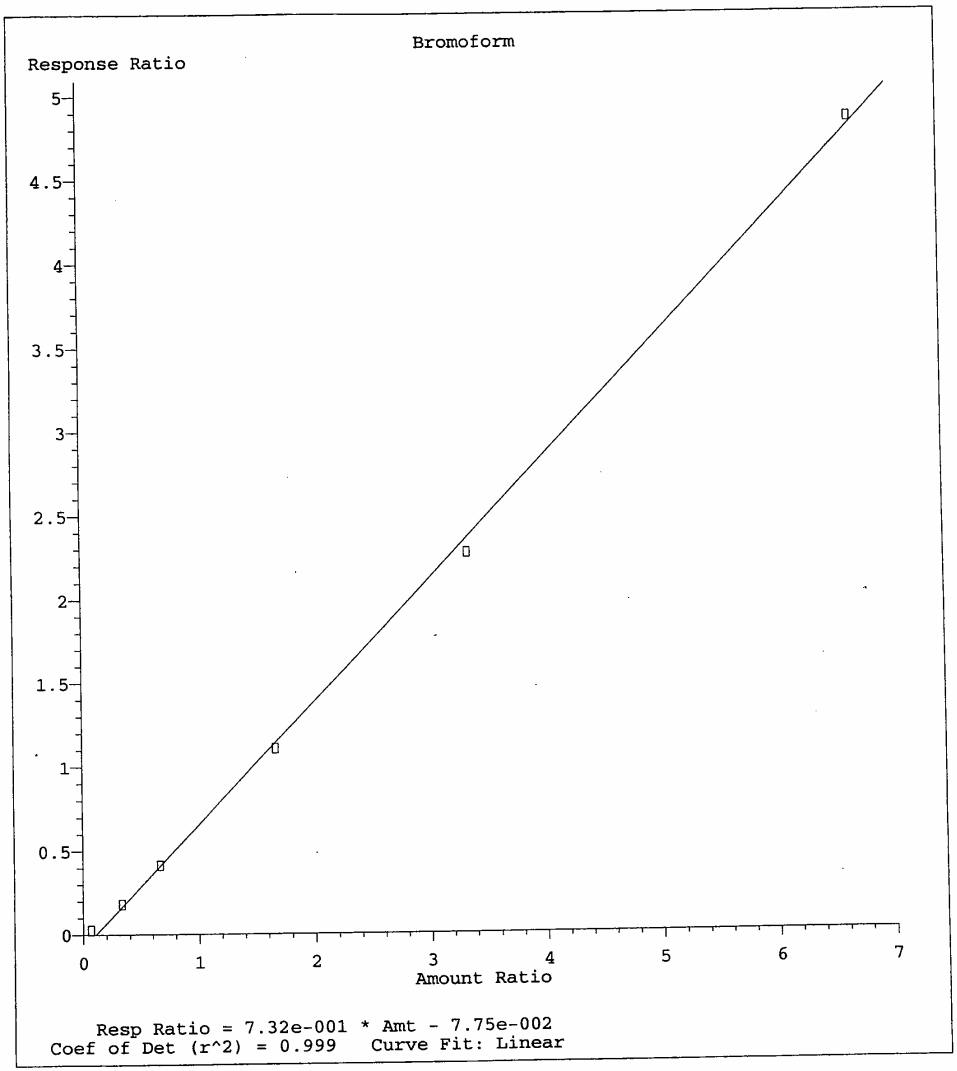
Method Name: C:\HPCHEM\1\METHODS\S041200.M
Calibration Table Last Updated: Fri May 12 08:13:22 2000



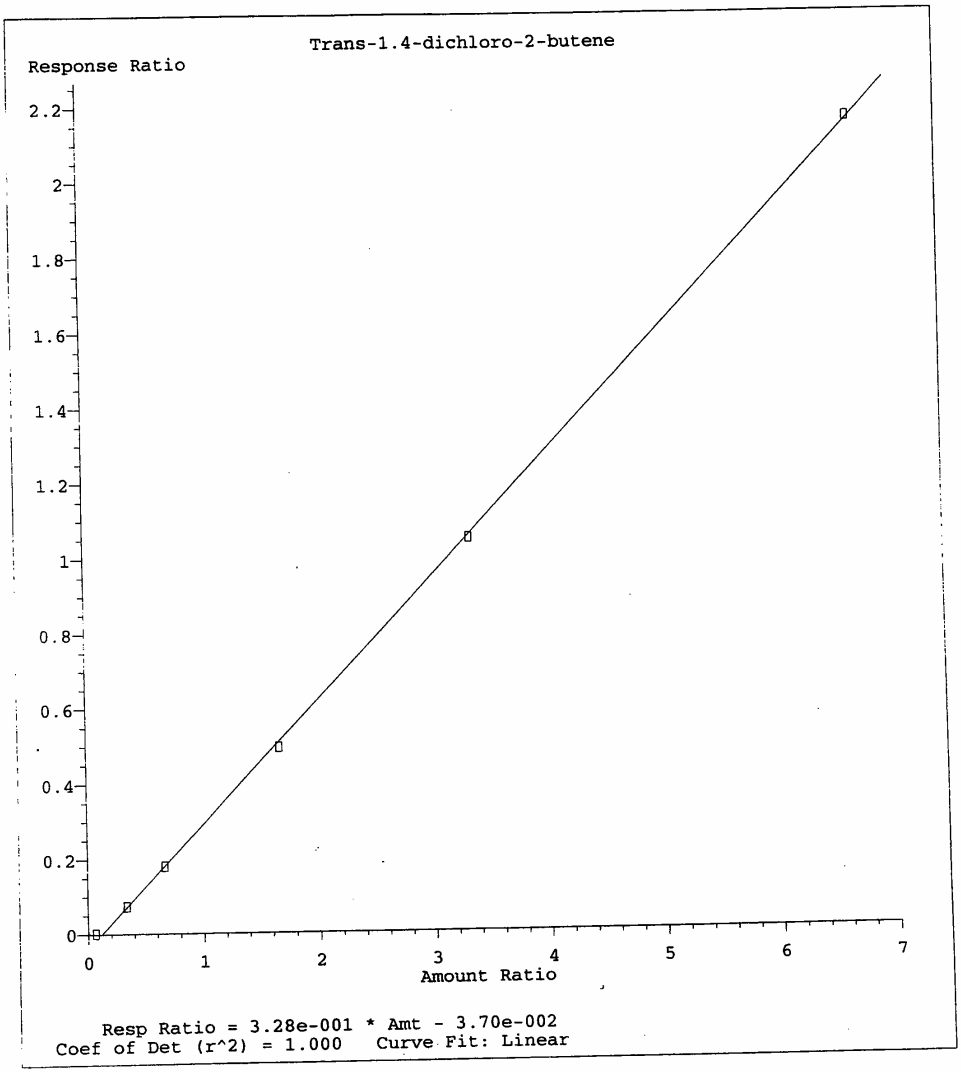
Method Name: C:\HPCHEM\1\METHODS\S041200.M
Calibration Table Last Updated: Fri May 12 08:13:30 2000



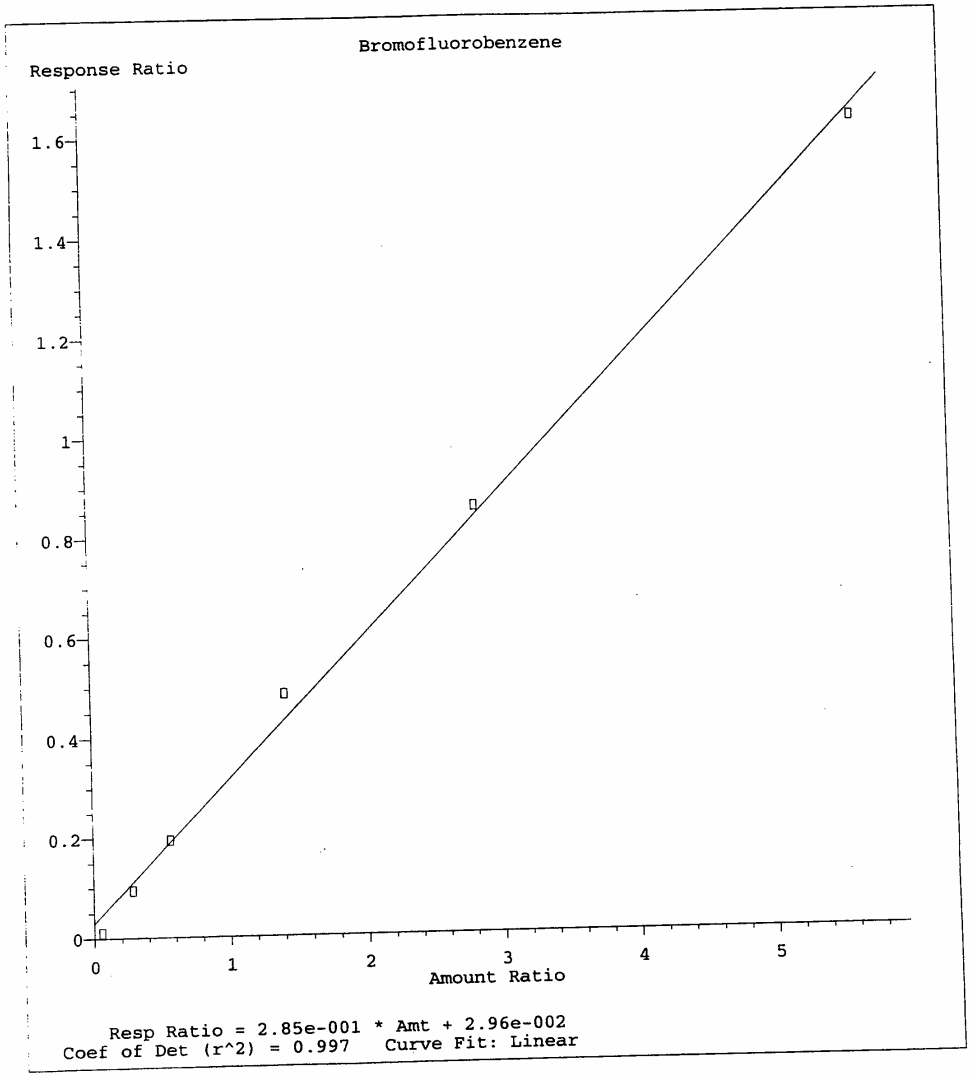
Method Name: C:\HPCHEM\1\METHODS\S041200.M
Calibration Table Last Updated: Fri May 12 08:13:40 2000



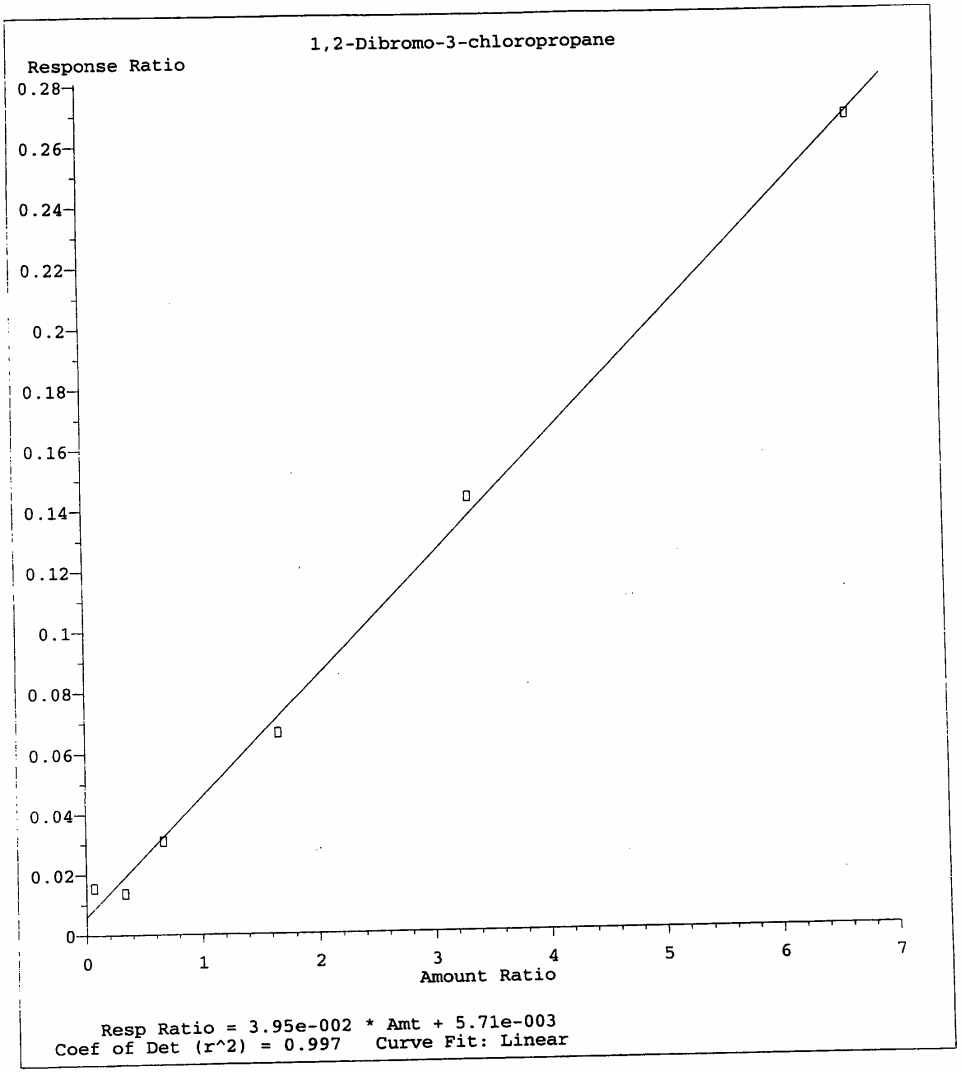
Method Name: C:\HPCHEM\1\METHODS\S041200.M
Calibration Table Last Updated: Fri May 12 08:15:05 2000



Method Name: C:\HPCHEM\1\METHODS\S041200.M
Calibration Table Last Updated: Fri May 12 08:14:33 2000



Method Name: C:\HPCHEM\1\METHODS\S041200.M
Calibration Table Last Updated: Fri May 12 08:14:44 2000



Method Name: C:\HPCHEM\1\METHODS\S041200.M
Calibration Table Last Updated: Fri May 12 08:14:52 2000

Quantitation Report (QT Reviewed)

126

Data File : C:\HPCHEM\1\DATA\041200\S0020412.D
Acq On : 12 Apr 2000 6:04 pm
Sample : 1
Misc : voa std 2 ug/l
MS Integration Params: rteint.p
Quant Time: Apr 13 8:23 19100

Vial: 3
Operator:
Inst : HP-10
Multiplr: 1.00

Quant Results File: S041200.RES

Quant Method : C:\HPCHEM\1\METHODS\S041200.M (RTE Integrator)
Title : 8260 volatile organics
Last Update : Fri Apr 07 17:51:21 2000
Response via : Initial Calibration
DataAcq Meth : S041200

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Pentafluorobenzene	11.83	168	464024	30.00 ug/L	-0.10
31) 1,4-Difluorobenzene	13.12	114	727115	30.00 ug/L	-0.10
49) Chlorobenzene-d5	17.81	119	192698	30.00 ug/L	-0.07
63) 1,4-Dichlorobenzene-d4	21.42	152	281361	30.00 ug/L	-0.07
64) Ethylbenzene-d10	18.01	98	1026797	30.00 ug/L	-0.07
System Monitoring Compounds					
26) 1,2-Dichloroethane-d4	11.89	65	11070	1.36 ug/L	-0.09
Spiked Amount 30.000			Recovery = 4.53%		
27) Dibromofluoromethane	11.17	111	6390	1.00 ug/L	-0.11
Spiked Amount 30.000			Recovery = 3.33%		
44) Toluene-d8	15.76	98	24050	0.94 ug/L	-0.08
Spiked Amount 30.000			Recovery = 3.13%		
66) Bromofluorobenzene	19.55	95	10799	1.03 ug/L	-0.06
Spiked Amount 30.000			Recovery = 3.43%		

Target Compounds					Qvalue
2) Dichlorodifluoromethane	4.36	85	25221	2.16 ug/L	98
3) Chloromethane	4.68	50	35169	2.72 ug/L	95
4) Vinyl Chloride	4.98	62	24531	2.82 ug/L	98
5) Bromomethane	5.65	96	23586	5.05 ug/L	98
6) Chloroethane	5.92	64	13815	2.38 ug/L	100
7) Trichlorofluoromethane	6.94	101	23471	2.21 ug/L	98
8) Acrolein	6.96	56	3717m	3.61 ug/L	
9) Acetone	7.20	43	40449	10.86 ug/L	90
10) Diethyl Ether	7.40	59	13863	2.11 ug/L #	81
11) 1,1-Dichloroethene	7.90	96	17924m	2.70 ug/L	
12) Iodomethane	7.95	142	49688	4.80 ug/L #	81
13) Acrylonitrile	8.03	53	26439	9.38 ug/L #	91
14) Methylene Chloride	8.17	84	138160	12.43 ug/L	100
15) Carbon Disulfide	8.53	76	55555	2.14 ug/L #	92
16) trans-1,2-Dichloroethene	9.31	61	27920	2.20 ug/L	92
17) Methyl-t-butyl ether	9.52	73	43786	1.88 ug/L #	90
18) 1,1-Dichloroethane	9.72	63	32708	2.15 ug/L	99
19) Vinyl Acetate	9.98	43	194102	-3.79 ug/L	99
20) 2-Butanone	10.48	43	71580	9.90 ug/L #	90
21) Diisopropyl ether	10.48	45	70002	2.20 ug/L	95
22) cis-1,2-Dichloroethene	10.65	61	24591	2.15 ug/L #	87
23) Bromochloromethane	10.91	130	9260	1.88 ug/L	95
25) 2,2-Dichloropropane	11.10	77	21563	1.97 ug/L	98
28) 1,2-Dichloroethane	12.00	62	21534	2.16 ug/L	95
29) 1,1,1-Trichloroethane	12.14	97	22130	2.13 ug/L	96
30) 1,1-Dichloropropene	12.44	75	18565	2.06 ug/L	94
32) Carbon Tetrachloride	12.70	117	16977	1.94 ug/L	98
33) Benzene	12.76	78	70047	2.08 ug/L	99
34) Dibromomethane	13.60	93	8870	1.76 ug/L	93
35) 2,3-Dichloro-1-propene	13.69	49	6788m	1.86 ug/L	
36) 1,2-Dichloropropane	13.66	63	18519	2.05 ug/L	97
37) Trichloroethene	13.72	130	15161	1.93 ug/L	96
38) Bromodichloromethane	13.79	83	17758	1.82 ug/L #	1
39) 2-Chloroethyl vinyl ether	13.66	63	18519	10.26 ug/L #	75
40) cis-1,3-Dichloropropene	14.74	75	20175	1.66 ug/L	95
41) 4-Methyl-2-pentanone	14.92	58	27586	7.57 ug/L #	73
42) trans-1,3-Dichloropropene	15.37	75	17445	1.51 ug/L #	95
43) 1,1,2-Trichloroethane	15.58	97	11401	1.76 ug/L	94

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

S0020412.D S040700.M Thu Apr 13 08:24:09 2000

000221

Quantitation Report (QT Reviewed)

127

Data File : C:\HPCHEM\1\DATA\041200\S0020412.D
Acq On : 12 Apr 2000 6:04 pm
Sample : 1
Misc : voa std 2 ug/l
MS Integration Params: rteint.p
Quant Time: Apr 13 8:23 19100

Vial: 3
Operator:
Inst : HP-10
Multiplr: 1.00

Quant Results File: S041200.RES

Quant Method : C:\HPCHEM\1\METHODS\S041200.M (RTE Integrator)
Title : 8260 volatile organics
Last Update : Fri Apr 07 17:51:21 2000
Response via : Initial Calibration
DataAcq Meth : S041200

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
45) Toluene	15.86	91	65024	2.02 ug/L	98
46) 1,3-Dichloropropane	15.93	76	23070	1.88 ug/L	92
47) Ethyl Methacrylate	15.97	69	85568	7.91 ug/L #	82
48) 2-Hexanone	16.18	58	27479	7.35 ug/L #	81
50) Dibromochloromethane	16.31	127	7689	1.42 ug/L	96
51) 1,2-Dibromoethane	16.67	107	10265	1.49 ug/L	97
52) Tetrachloroethene	16.90	166	13989	1.86 ug/L	98
53) 1,1,1,2-Tetrachloroethane	17.74	131	11544	1.71 ug/L #	1
54) Chlorobenzene	17.86	112	39074	1.97 ug/L #	84
55) Ethylbenzene	18.14	91	70616	1.99 ug/L	97
56) m,p-Xylene	18.41	91	106748	3.97 ug/L	95
57) Bromoform	18.57	173	5124	1.08 ug/L #	1
58) Styrene	18.87	104	31610	1.56 ug/L	94
59) o-Xylene	18.97	91	53718	1.94 ug/L	96
60) 1,1,2,2-Tetrachloroethane	18.97	83	15415	1.67 ug/L #	95
61) 1,2,3-Trichloropropane	19.17	75	14399	1.44 ug/L	90
62) Trans-1.4-dichloro-2-buten	19.21	53	401	1.90 ug/L #	32
65) Isopropylbenzene	19.48	105	62616	1.88 ug/L	97
67) Bromobenzene	19.84	77	29340	1.98 ug/L	88
68) Propylbenzene	20.10	91	78482	1.89 ug/L	94
69) 2-Chlorotoluene	20.24	91	48342m	1.96 ug/L	
70) 4-Chlorotoluene	20.36	91	47613m	1.93 ug/L	
71) 1,3,5-Trimethylbenzene	20.50	105	47124	1.80 ug/L	98
72) t-Butylbenzene	20.91	119	42082	1.90 ug/L	98
73) 1,2,4-trimethylbenzene	21.07	105	49205	1.86 ug/L	98
74) sec-Butylbenzene	21.23	105	71754	2.00 ug/L #	95
75) 1,3-Dichlorobenzene	21.37	146	28358	1.98 ug/L	99
76) 1,4-Dichlorobenzene	21.46	146	32007m	2.09 ug/L	
77) 1,2-Dichlorobenzene	22.02	146	25613	1.87 ug/L	98
78) p-Isopropyltoluene	21.51	119	53196	1.96 ug/L	97
79) Butylbenzene	22.17	91	55466	2.00 ug/L	96
80) 1,2-Dibromo-3-chloropropan	22.72	157	15860m	9.06 ug/L	
81) 1,2,4-Trichlorobenzene	25.61	180	15667	2.08 ug/L	96
82) Naphthalene	26.19	128	44668	1.90 ug/L	100
83) Hexachlorobutadiene	26.30	225	8365	1.99 ug/L #	90
84) 1,2,3-Trichlorobenzene	26.66	180	15010	1.13 ug/L	96

(#) = qualifier out of range (m) = manual integration
S0020412.D S040700.M Thu Apr 13 08:24:11 2000

000222

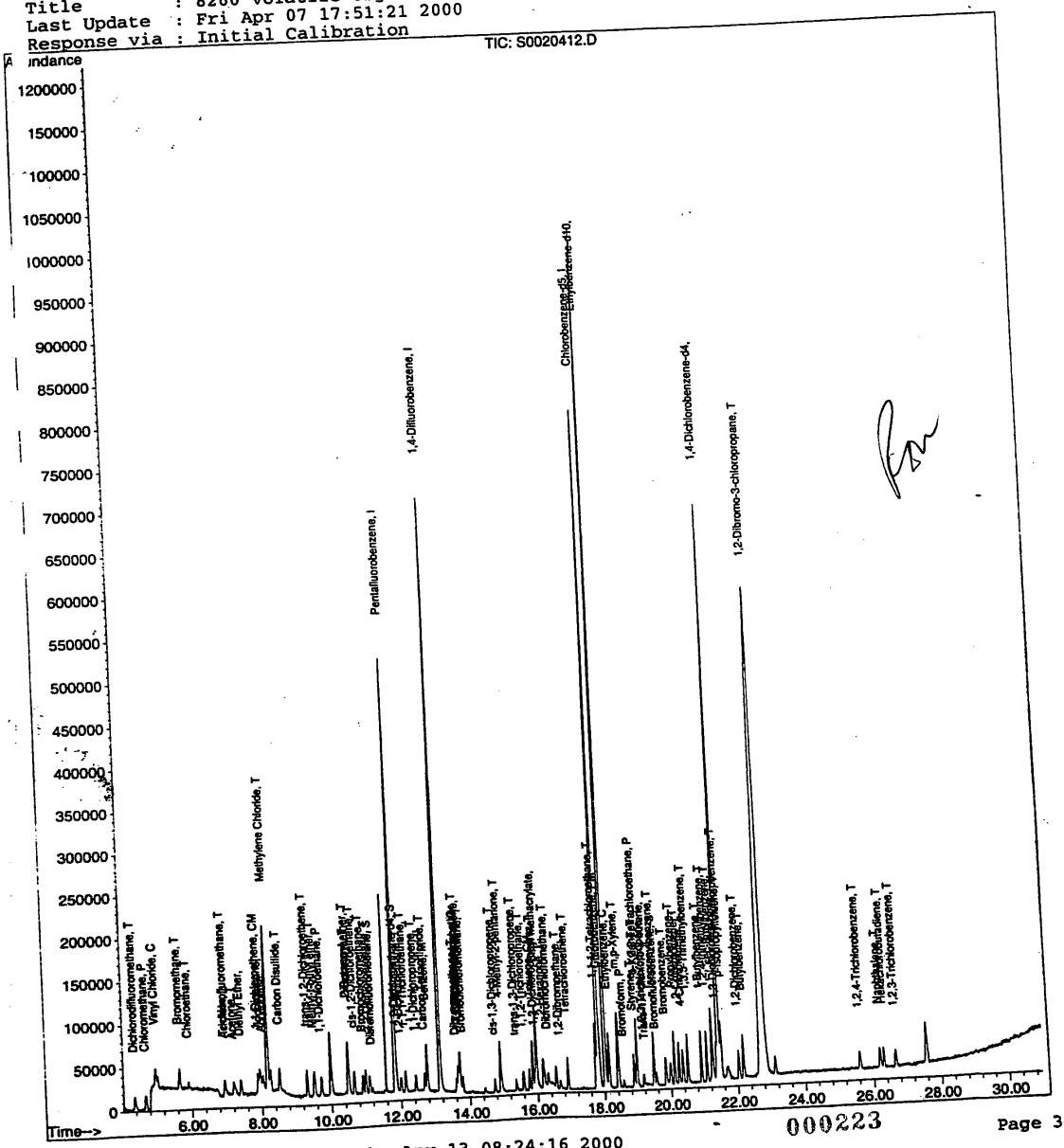
Quantitation Report

Data File : C:\HPCHEM\1\DATA\041200\S0020412.D
Acq On : 12 Apr 2000 6:04 pm
Sample : 1
Misc : voa std 2 ug/l
MS Integration Params: rteint.p
Quant Time: Apr 13 8:23 19100

Vial: 3
Operator:
Inst : HP-10
Multiplr: 1.00

Quant Results File: S041200.RES

Method : C:\HPCHEM\1\METHODS\S040700.M (RTE Integrator)
Title : 8260 volatile organics
Last Update : Fri Apr 07 17:51:21 2000
Response via : Initial Calibration



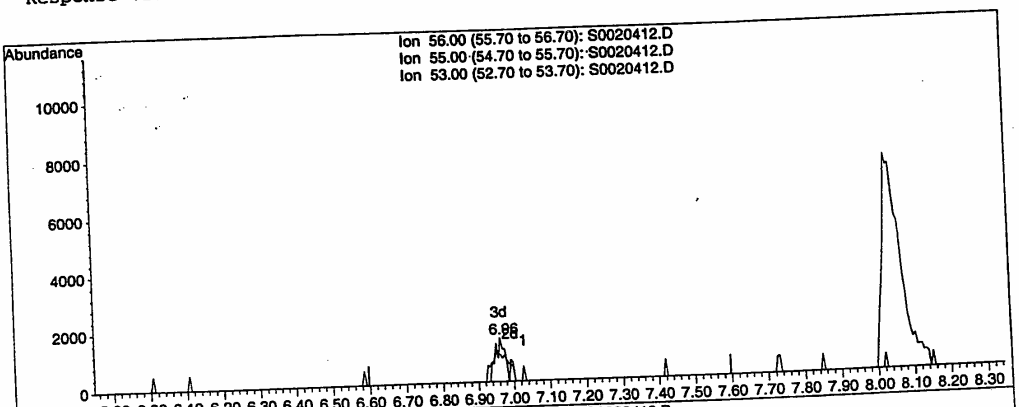
S0020412.D S040700.M Thu Apr 13 08:24:16 2000

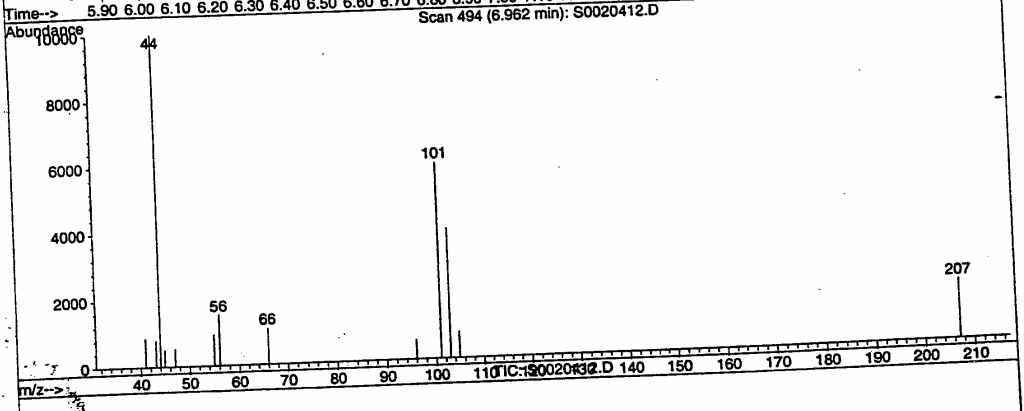
Quantitation Report

Data File : C:\HPCHEM\1\DATA\041200\S0020412.D
Acq On : 12 Apr 2000 6:04 pm
Sample : 1
Misc : voa std 2 ug/l
Quant Time: Apr 13 8:21 19100

Vial: 3
Operator:
Inst : HP-10
Multiplr: 1.00
Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\S040700.M (RTE Integrator)
Title : 8260 volatile organics
Last Update : Fri Apr 07 17:51:21 2000
Response via : Multiple Level Calibration





(8) Acrolein

6.96min 3.61ug/L m

response 3717

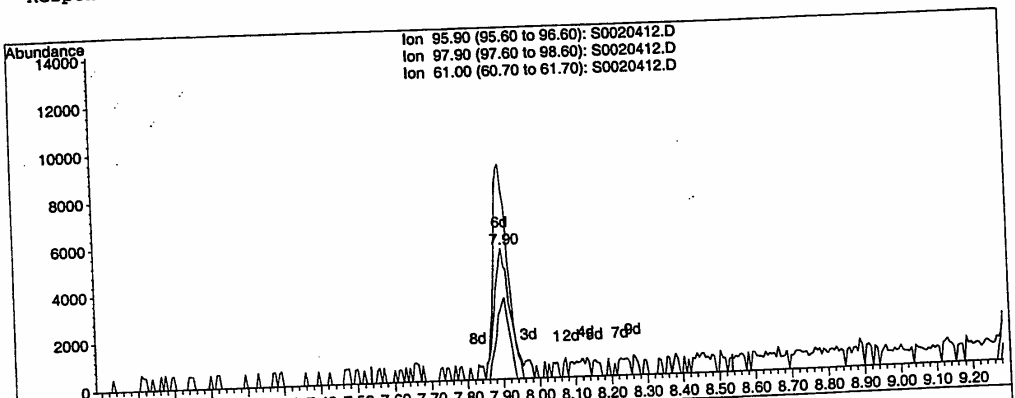
Ion	Exp%	Act%
56.00	100	100
55.00	68.60	5.00#
53.00	7.20	0.00#
0.00	0.00	0.00

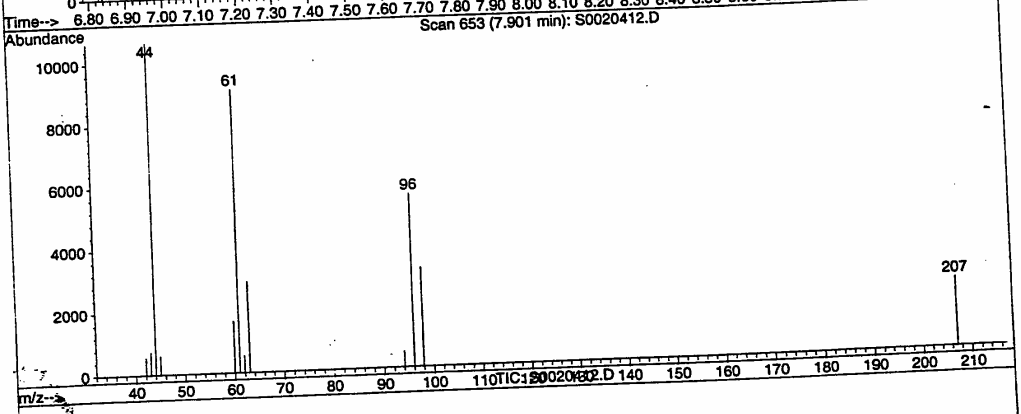
Quantitation Report

Data File : C:\HPCHEM\1\DATA\041200\S0020412.D
Acq On : 12 Apr 2000 6:04 pm
Sample : 1
Misc : voa std 2 ug/l
Quant Time: Apr 13 8:21 19100

Vial: 3
Operator:
Inst : HP-10
Multiplr: 1.00
Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\S040700.M (RTE Integrator)
Title : 8260 volatile organics
Last Update : Fri Apr 07 17:51:21 2000
Response via : Multiple Level Calibration





(11) 1,1-Dichloroethene (CM)

7.90min 2.70ug/L m

response 17924

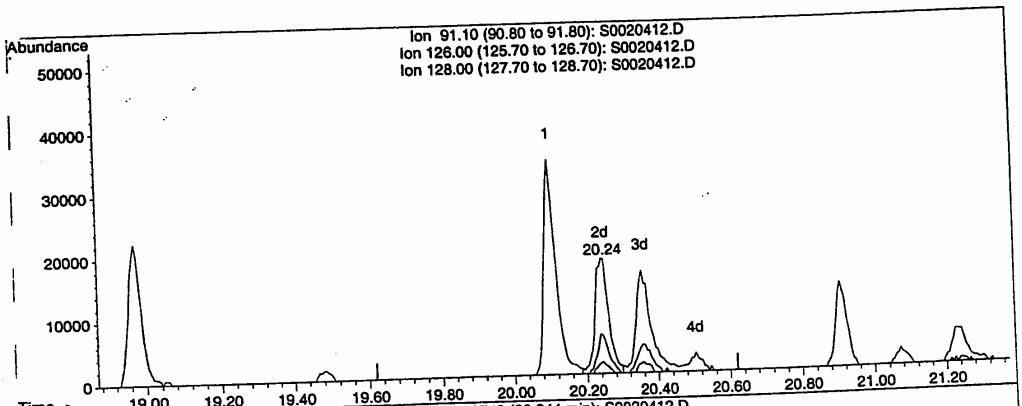
Ion	Exp%	Act%
95.90	100	100
97.90	63.30	0.00#
61.00	174.80	0.00#
0.00	0.00	0.00

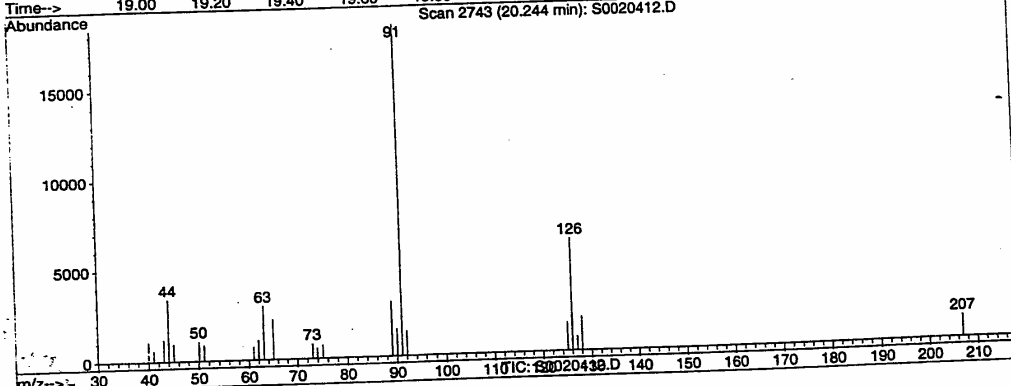
Quantitation Report

Data File : C:\HPCHEM\1\DATA\041200\S0020412.D
Acq On : 12 Apr 2000 6:04 pm
Sample : 1
Misc : voa std 2 ug/l
Quant Time: Apr 13 8:22 19100

Vial: 3
Operator:
Inst : HP-10
Multiplr: 1.00
Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\S040700.M (RTE Integrator)
Title : 8260 volatile organics
Last Update : Fri Apr 07 17:51:21 2000
Response via : Multiple Level Calibration





(69) 2-Chlorotoluene (T)

20.24min 1.96ug/L m

response 48342

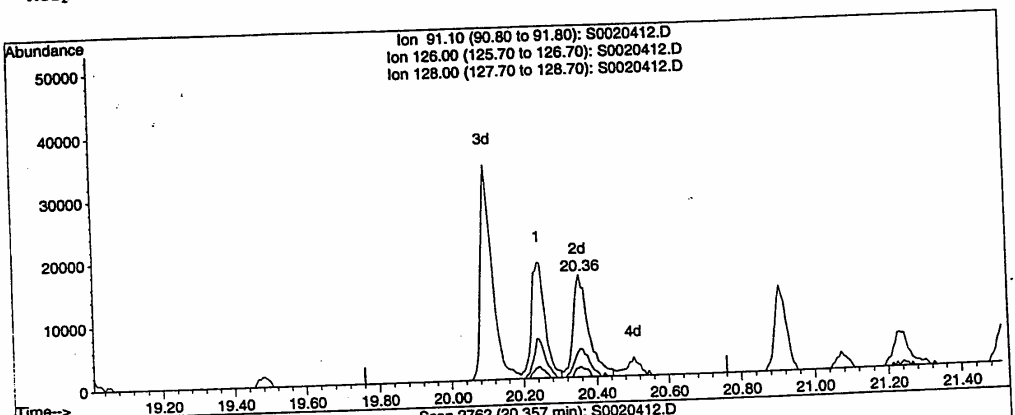
Ion	Exp%	Act%
91.10	100	100
126.00	32.50	0.00#
128.00	10.50	0.00#
0.00	0.00	0.00

Quantitation Report

Data File : C:\HPCHEM\1\DATA\041200\S0020412.D
Acq On : 12 Apr 2000 6:04 pm
Sample : 1
Misc : voa std 2 ug/l
Quant Time: Apr 13 8:22 19100

Vial: 3
Operator:
Inst : HP-10
Multiplr: 1.00
Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\S040700.M (RTE Integrator)
Title : 8260 volatile organics
Last Update : Fri Apr 07 17:51:21 2000
Response via : Multiple Level Calibration



(70) 4-Chlorotoluene (T)

20.36min 1.93ug/L m

response 47613

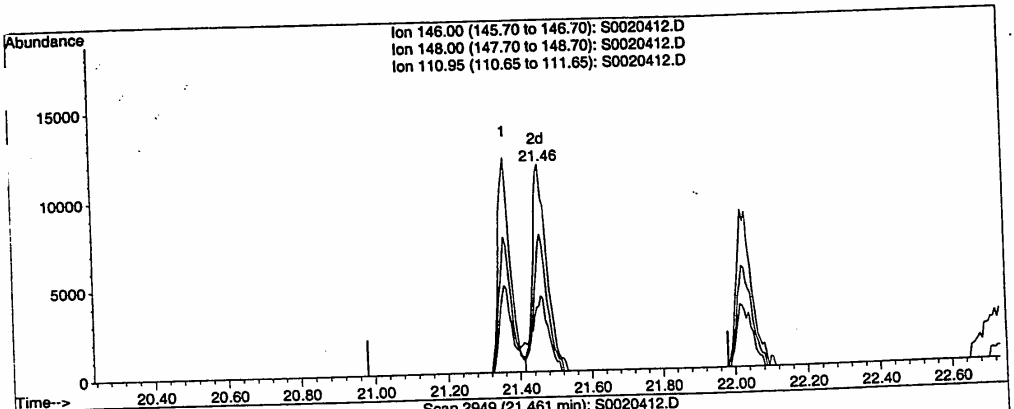
Ion	Exp%	Act%
91.10	100	100
126.00	32.90	29.66
128.00	10.50	7.93#
0.00	0.00	0.00

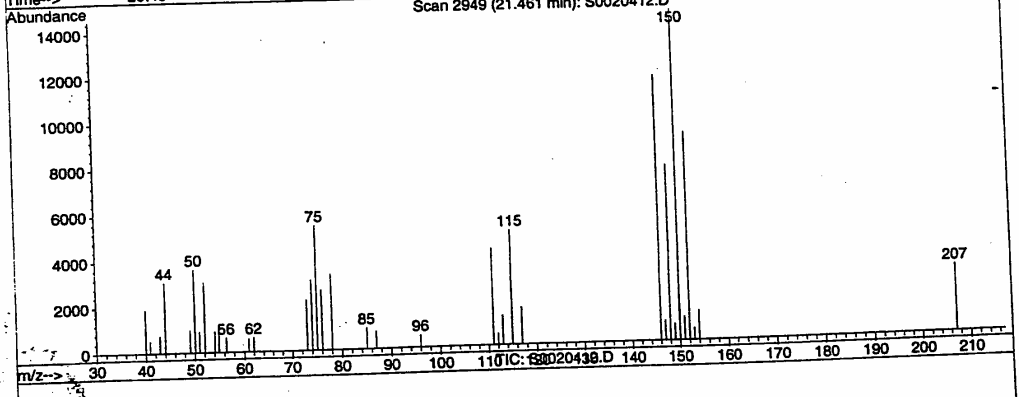
Quantitation Report

Data File : C:\HPCHEM\1\DATA\041200\S0020412.D
Acq On : 12 Apr 2000 6:04 pm
Sample : 1
Misc : voa std 2 ug/l
Quant Time: Apr 13 8:23 19100

Vial: 3
Operator:
Inst : HP-10
Multiplr: 1.00
Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\S040700.M (RTE Integrator)
Title : 8260 volatile organics
Last Update : Fri Apr 07 17:51:21 2000
Response via : Multiple Level Calibration





(76) 1,4-Dichlorobenzene (T)

21.46min 2.09ug/L m

response 32007

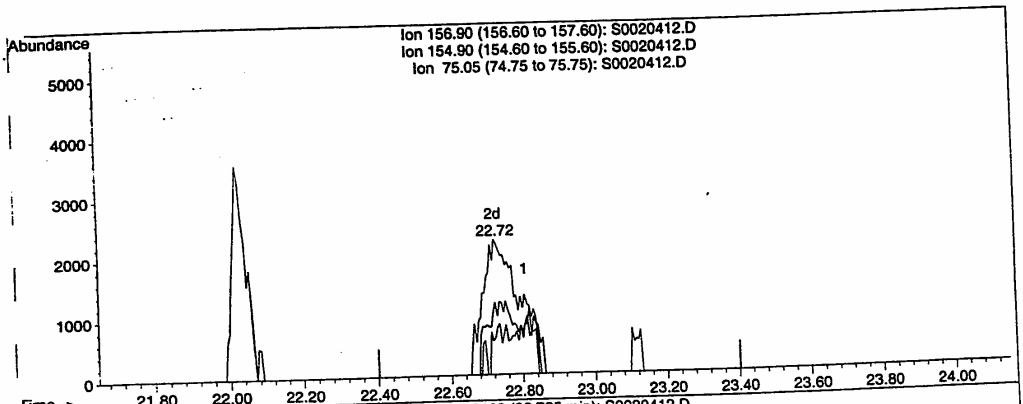
Ion	Exp%	Act%
146.00	100	100
148.00	63.40	56.12
110.95	37.40	35.17
0.00	0.00	0.00

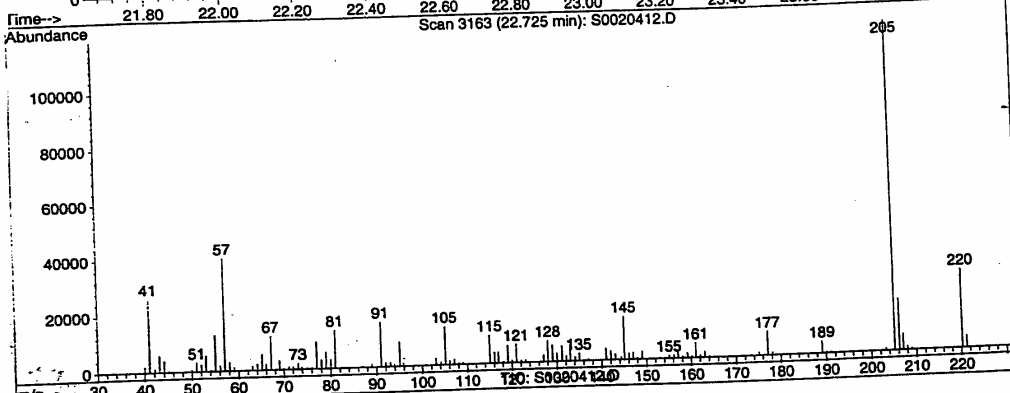
Quantitation Report

Data File : C:\HPCHEM\1\DATA\041200\S0020412.D
Acq On : 12 Apr 2000 6:04 pm
Sample : 1
Misc : voa std 2 ug/l
Quant Time: Apr 13 8:23 19100

Vial: 3
Operator:
Inst : HP-10
Multiplr: 1.00
Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\S040700.M (RTE Integrator)
Title : 8260 volatile organics
Last Update : Fri Apr 07 17:51:21 2000
Response via : Multiple Level Calibration





(80) 1,2-Dibromo-3-chloropropane (T)

22.72min 9.06ug/L m

response 15860

Ion	Exp%	Act%
156.90	100	100
154.90	77.40	10.25#
75.05	93.80	16.70#
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

135

Data File : C:\HPCHEM\1\DATA\041200\S0100412.D
Acq On : 12 Apr 2000 7:17 pm
Sample : 1
Misc : voa std 10 ug/l
MS Integration Params: rteint.p
Quant Time: Apr 13 8:31 19100

Vial: 5
Operator:
Inst : HP-10
Multiplr: 1.00

Quant Results File: S041200.RES

Quant Method : C:\HPCHEM\1\METHODS\S041200.M (RTE Integrator)
Title : 8260 volatile organics
Last Update : Fri Apr 07 17:51:21 2000
Response via : Initial Calibration
DataAcq Meth : S041200

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Pentafluorobenzene	11.83	168	458594	30.00 ug/L	-0.10
31) 1,4-Difluorobenzene	13.13	114	730130	30.00 ug/L	-0.09
59) Chlorobenzene-d5	17.81	119	195681	30.00 ug/L	-0.07
63) 1,4-Dichlorobenzene-d4	21.42	152	288322	30.00 ug/L	-0.07
64) Ethylbenzene-d10	18.01	98	1035123	30.00 ug/L	-0.07
System Monitoring Compounds					
6) 1,2-Dichloroethane-d4	11.89	65	88483	10.97 ug/L	-0.09
Spiked Amount 30.000			Recovery = 36.57%		
27) Dibromofluoromethane	11.18	111	64983	10.24 ug/L	-0.10
Spiked Amount 30.000			Recovery = 34.13%		
44) Toluene-d8	15.76	98	252875	9.80 ug/L	-0.08
Spiked Amount 30.000			Recovery = 32.67%		
66) Bromofluorobenzene	19.53	95	97509	9.25 ug/L	-0.07
Spiked Amount 30.000			Recovery = 30.83%		

Target Compounds					Qvalue
2) Dichlorodifluoromethane	4.36	85	127046	11.02 ug/L	100
3) Chloromethane	4.68	50	160127	12.52 ug/L	98
4) Vinyl Chloride	4.97	62	113456	13.19 ug/L	98
5) Bromomethane	5.65	96	106908m	14.62 ug/L	
6) Chloroethane	5.92	64	69421	12.08 ug/L	96
7) Trichlorofluoromethane	6.94	101	120336	11.45 ug/L	99
8) Acrolein	6.96	56	19347	19.03 ug/L #	88
9) Acetone	7.19	43	131485	48.77 ug/L	95
10) Diethyl Ether	7.40	59	67828	10.45 ug/L	93
11) 1,1-Dichloroethene	7.90	96	74865	11.40 ug/L	98
12) Iodomethane	8.11	142	13732	1.05 ug/L #	1
13) Acrylonitrile	8.04	53	132511	47.57 ug/L #	98
14) Methylene Chloride	8.17	84	192325	19.77 ug/L	100
15) Carbon Disulfide	8.53	76	293937	11.48 ug/L	98
16) trans-1,2-Dichloroethene	9.31	61	142047	11.31 ug/L	98
17) Methyl-t-butyl ether	9.52	73	222472	9.65 ug/L	96
18) 1,1-Dichloroethane	9.73	63	174811	11.62 ug/L	100
19) Vinyl Acetate	9.98	43	1023551m	45.71 ug/L	
20) 2-Butanone	10.48	43	351375	49.17 ug/L #	92
21) Diisopropyl ether	10.48	45	361193	11.48 ug/L	95
22) cis-1,2-Dichloroethene	10.66	61	130903	11.58 ug/L	98
23) Bromochloromethane	10.91	130	50774	10.42 ug/L	100
24) Chloroform	10.99	83	151546	9.62 ug/L	99
25) 2,2-Dichloropropane	11.11	77	116122	10.72 ug/L	99
28) 1,2-Dichloroethane	12.00	62	109498	11.12 ug/L	100
29) 1,1,1-Trichloroethane	12.14	97	112563	10.96 ug/L	96
30) 1,1-Dichloropropene	12.44	75	97183	10.90 ug/L	97
32) Carbon Tetrachloride	12.70	117	89118	10.13 ug/L	100
33) Benzene	12.76	78	354784	10.50 ug/L	97
34) Dibromomethane	13.60	93	49630	9.80 ug/L	95
35) 2,3-Dichloro-1-propene	13.69	49	40847m	11.15 ug/L	
36) 1,2-Dichloropropane	13.66	63	100206	11.06 ug/L	98
37) Trichloroethene	13.72	130	79937	10.14 ug/L	95
38) Bromodichloromethane	13.79	83	96664	9.85 ug/L #	1
39) 2-Chloroethyl vinyl ether	13.66	63	100206	55.28 ug/L	98
40) cis-1,3-Dichloropropene	14.74	75	119577	9.79 ug/L	98
41) 4-Methyl-2-pentanone	14.90	58	155383	42.49 ug/L	86
42) trans-1,3-Dichloropropene	15.37	75	106672	9.18 ug/L	98

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

Quantitation Report (QT Reviewed)

136

Data File : C:\HPCHEM\1\DATA\041200\S0100412.D
Acq On : 12 Apr 2000 7:17 pm
Sample : 1
Misc : voa std 10 ug/l
MS Integration Params: rteint.p
Quant Time: Apr 13 8:31 19100

Vial: 5
Operator:
Inst : HP-10
Multiplr: 1.00

Quant Results File: S041200.RES

Quant Method : C:\HPCHEM\1\METHODS\S041200.M (RTE Integrator)
Title : 8260 volatile organics
Last Update : Fri Apr 07 17:51:21 2000
Response via : Initial Calibration
DataAcq Meth : S041200

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
43) 1,1,2-Trichloroethane	15.59	97	62652	9.63 ug/L	98
45) Toluene	15.86	91	333734	10.30 ug/L	99
46) 1,3-Dichloropropane	15.93	76	125145	10.14 ug/L	90
47) Ethyl Methacrylate	15.97	69	494404	45.51 ug/L #	87
48) 2-Hexanone	16.16	58	149963	39.94 ug/L	89
50) Dibromochloromethane	16.32	127	47957	8.73 ug/L	98
51) 1,2-Dibromoethane	16.66	107	62269	8.92 ug/L	99
52) Tetrachloroethene	16.90	166	76446	10.01 ug/L	96
53) 1,1,1,2-Tetrachloroethane	17.75	131	65952	9.63 ug/L	98
54) Chlorobenzene	17.86	112	205199	10.19 ug/L	94
55) Ethylbenzene	18.13	91	372950	10.33 ug/L	98
56) m,p-Xylene	18.40	91	558675	20.48 ug/L	98
57) Bromoform	18.57	173	35262	7.32 ug/L #	35
58) Styrene	18.87	104	186963	9.10 ug/L	96
59) o-Xylene	18.97	91	286505	10.16 ug/L	98
60) 1,1,2,2-Tetrachloroethane	18.96	83	88977	9.50 ug/L #	99
61) 1,2,3-Trichloropropane	19.17	75	86243	8.51 ug/L	98
62) Trans-1.4-dichloro-2-buten	19.20	53	14290	8.21 ug/L	95
65) Isopropylbenzene	19.48	105	330424	9.86 ug/L	98
67) Bromobenzene	19.84	77	152033	10.16 ug/L	92
68) Propylbenzene	20.10	91	422195	10.06 ug/L	97
69) 2-Chlorotoluene	20.24	91	251978	10.13 ug/L	96
70) 4-Chlorotoluene	20.35	91	245922m	9.88 ug/L	
71) 1,3,5-Trimethylbenzene	20.50	105	258732	9.81 ug/L	98
72) t-Butylbenzene	20.91	119	221945	9.94 ug/L	95
73) 1,2,4-trimethylbenzene	21.08	105	255930	9.62 ug/L	99
74) sec-Butylbenzene	21.24	105	366468	10.15 ug/L	96
75) 1,3-Dichlorobenzene	21.36	146	146055	10.10 ug/L	96
76) 1,4-Dichlorobenzene	21.46	146	156326	10.15 ug/L	98
77) 1,2-Dichlorobenzene	22.03	146	135811	9.86 ug/L	97
78) p-Isopropyltoluene	21.51	119	279699	10.20 ug/L	98
79) Butylbenzene	22.16	91	286538	10.24 ug/L	97
80) 1,2-Dibromo-3-chloropropan	22.82	157	14133	7.91 ug/L	96
81) 1,2,4-Trichlorobenzene	25.61	180	77288	10.17 ug/L	98
82) Naphthalene	26.18	128	187522	9.68 ug/L	100
83) Hexachlorobutadiene	26.31	225	42808	10.08 ug/L	98
84) 1,2,3-Trichlorobenzene	26.65	180	72913	9.97 ug/L	98

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

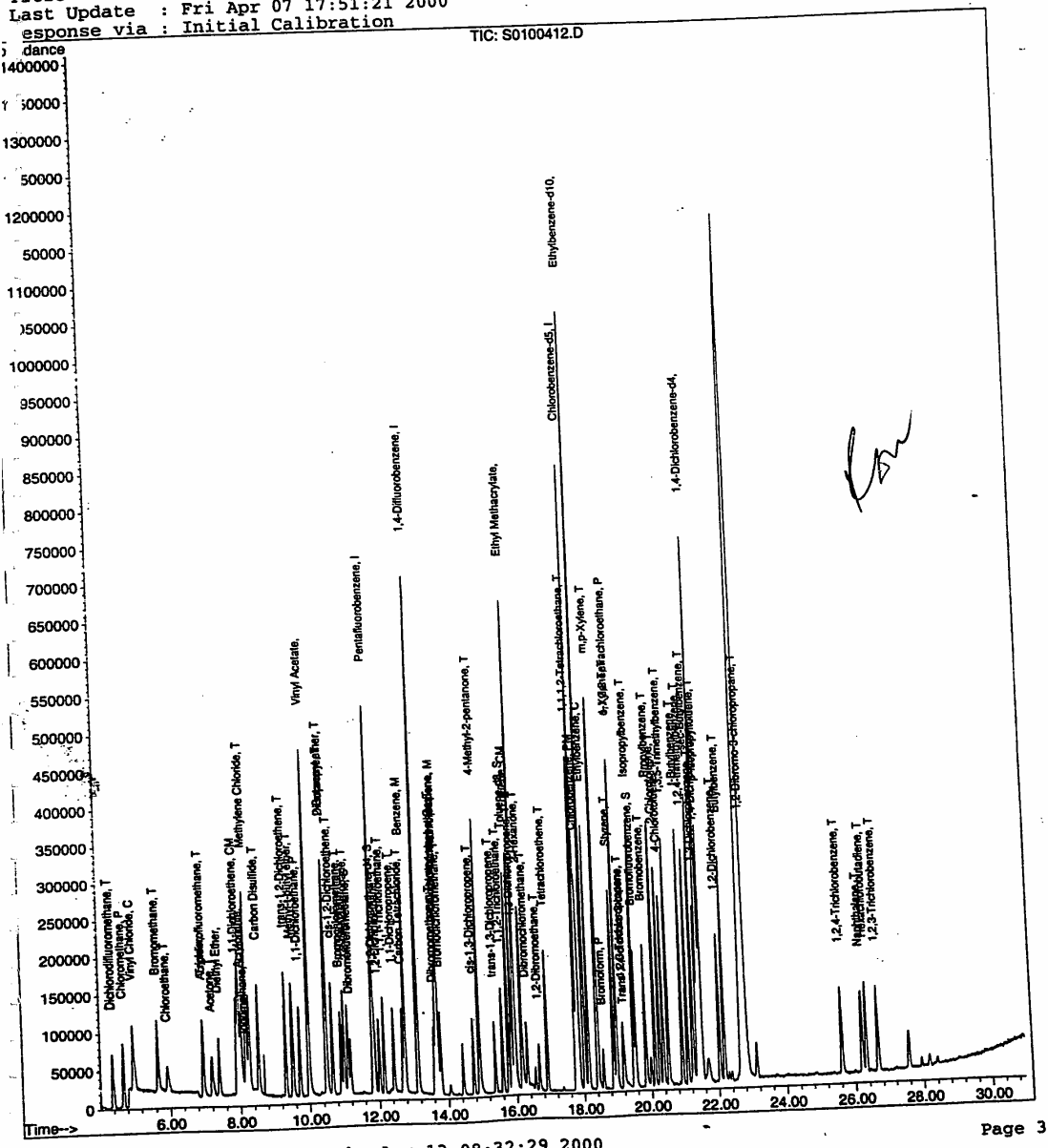
Quantitation Report

Data File : C:\HPCHEM\1\DATA\041200\S0100412.D
Acq On : 12 Apr 2000 7:17 pm
Sample : 1
Misc : voa std 10 ug/l
MS Integration Params: rteint.p
Quant Time: Apr 13 8:31 19100

Vial: 5
Operator:
Inst : HP-10
Multiplr: 1.00

Quant Results File: S041200.RES

Method : C:\HPCHEM\1\METHODS\S041200.M (RTE Integrator)
Title : 8260 volatile organics
Last Update : Fri Apr 07 17:51:21 2000
Response via : Initial Calibration



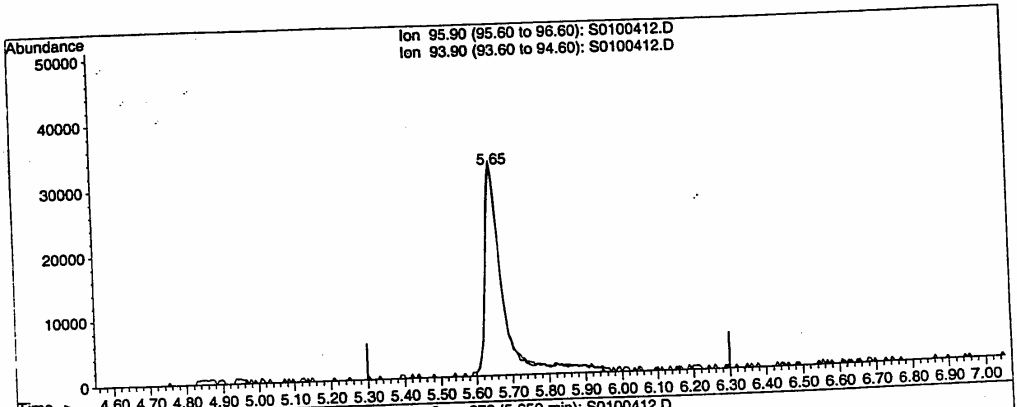
S0100412.D S041200.M Thu Apr 13 08:32:29 2000

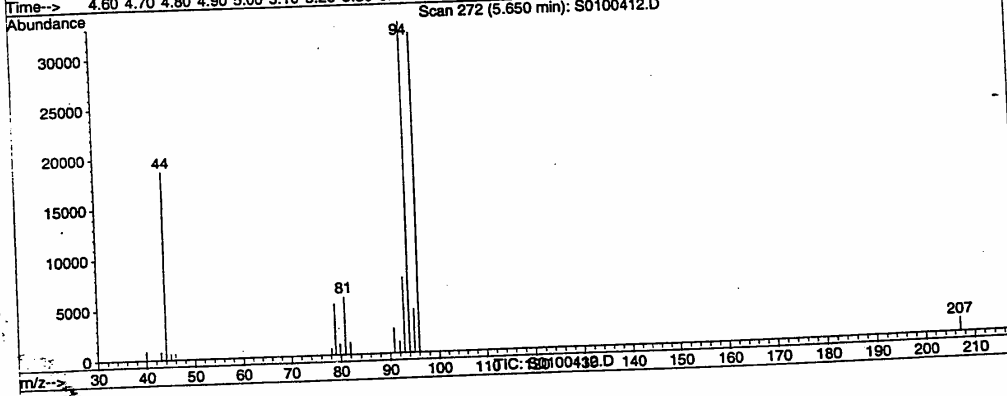
Quantitation Report

Data File : C:\HPCHEM\1\DATA\041200\S0100412.D
Acq On : 12 Apr 2000 7:17 pm
Sample : 1
Misc : voa std 10 ug/l
Quant Time: Apr 13 8:28 19100

Vial: 5
Operator:
Inst : HP-10
Multiplr: 1.00
Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\S041200.M (RTE Integrator)
Title : 8260 volatile organics
Last Update : Fri Apr 07 17:51:21 2000
Response via : Multiple Level Calibration





(5) Bromomethane (T)

5.65min 14.62ug/L m

response 106908

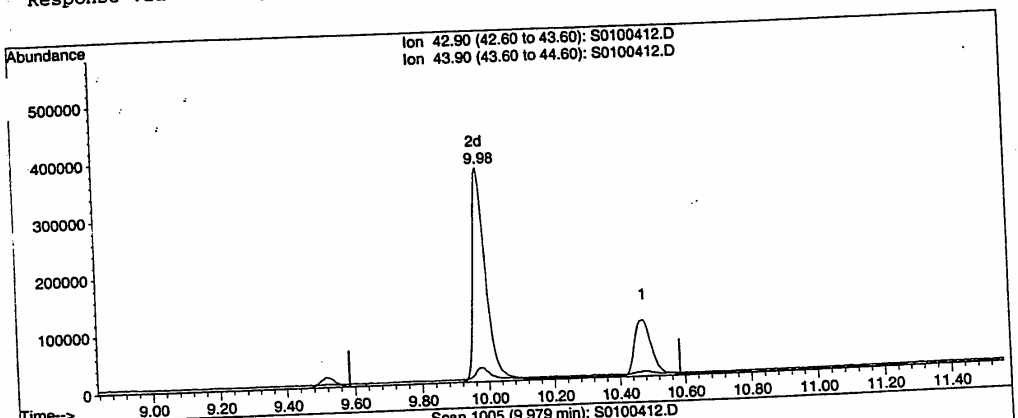
Ion	Exp%	Act%
95.90	100	100
93.90	106.90	96.07
0.00	0.00	0.00
0.00	0.00	0.00

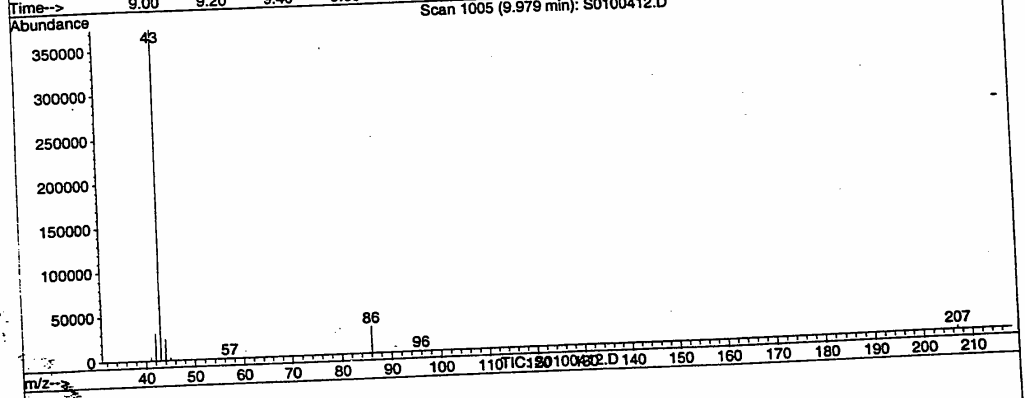
Quantitation Report

Data File : C:\HPCHEM\1\DATA\041200\S0100412.D
Acq On : 12 Apr 2000 7:17 pm
Sample : 1
Misc : voa std 10 ug/l
Quant Time: Apr 13 8:29 19100

Vial: 5
Operator:
Inst : HP-10
Multiplr: 1.00
Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\S041200.M (RTE Integrator)
Title : 8260 volatile organics
Last Update : Fri Apr 07 17:51:21 2000
Response via : Multiple Level Calibration





(19) Vinyl Acetate

9.98min 45.71ug/L m

response 1023551

Ion	Exp%	Act%
42.90	100	100
43.90	4.90	1.75#
0.00	0.00	0.00
0.00	0.00	0.00

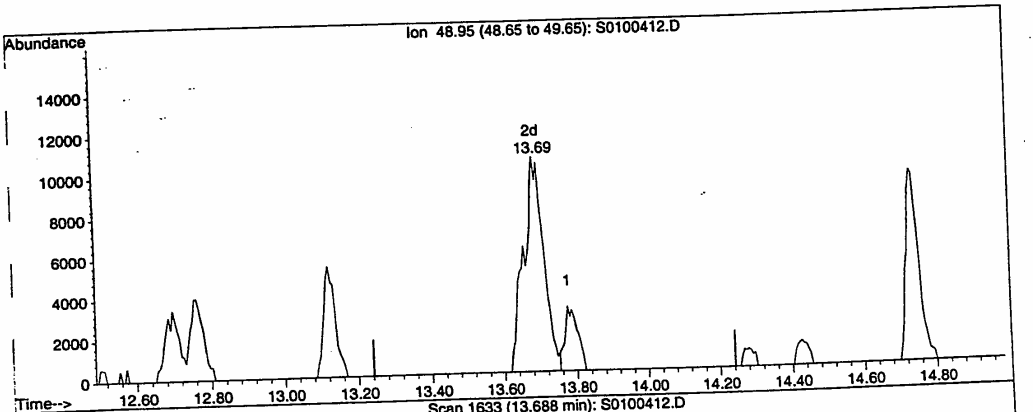
S0100412.D S041200.M Thu Apr 13 08:29:35 2000

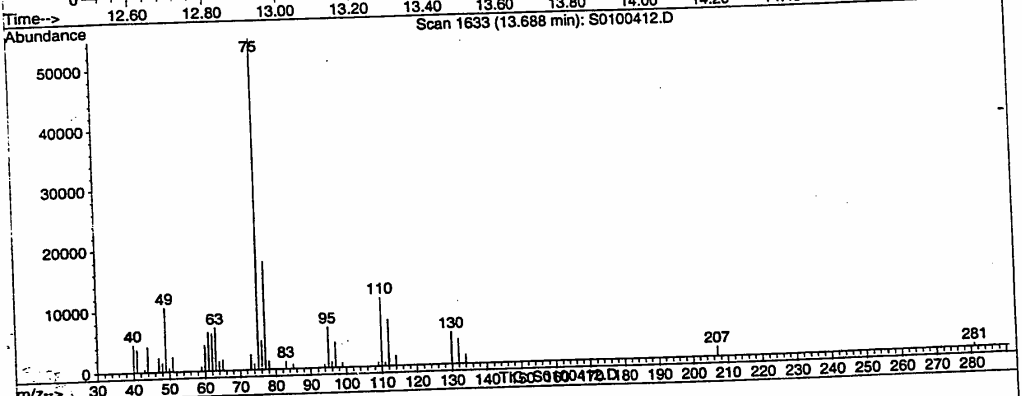
Quantitation Report

Data File : C:\HPCHEM\1\DATA\041200\S0100412.D
Acq On : 12 Apr 2000 7:17 pm
Sample : 1
Misc : voa std 10 ug/l
Quant Time: Apr 13 8:30 19100

Vial: 5
Operator:
Inst : HP-10
Multiplr: 1.00
Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\S041200.M (RTE Integrator)
Title : 8260 volatile organics
Last Update : Fri Apr 07 17:51:21 2000
Response via : Multiple Level Calibration





(35) 2,3-Dichloro-1-propene

13.69min 11.15ug/L m

response 40847

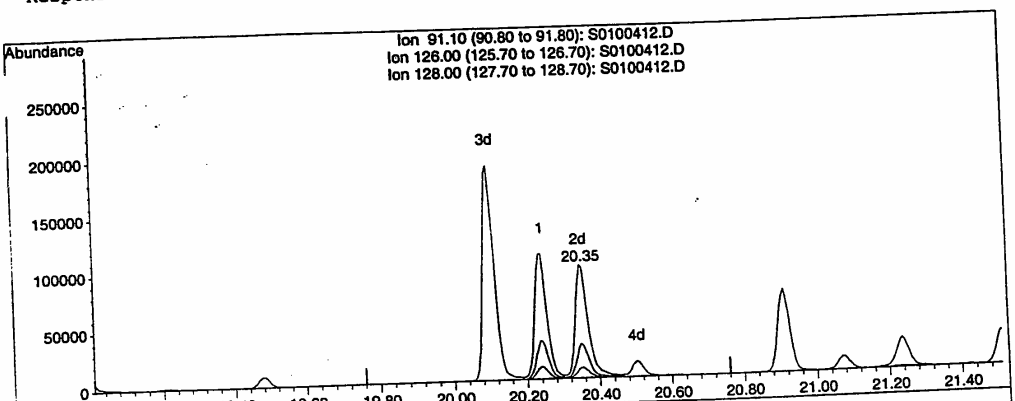
Ion	Exp%	Act%
48.95	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

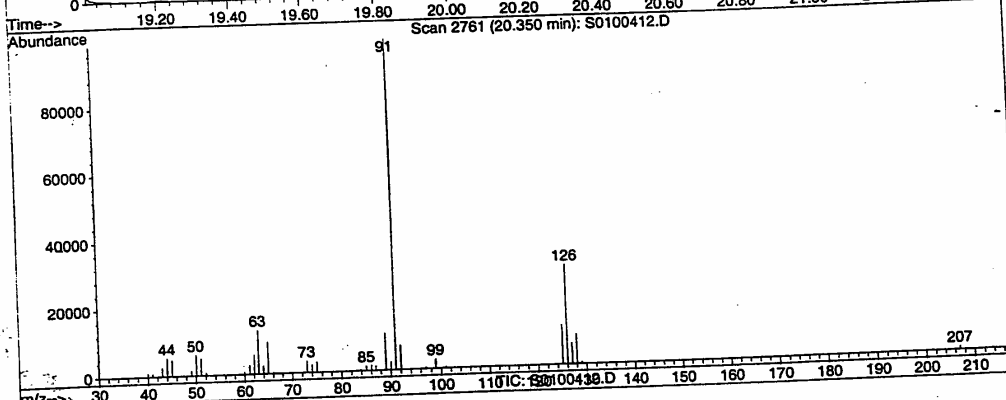
Quantitation Report

Data File : C:\HPCHEM\1\DATA\041200\S0100412.D
Acq On : 12 Apr 2000 7:17 pm
Sample : 1
Misc : voa std 10 ug/l
Quant Time: Apr 13 8:31 19100

Vial: 5
Operator:
Inst : HP-10
Multiplr: 1.00
Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\S041200.M (RTE Integrator)
Title : 8260 volatile organics
Last Update : Fri Apr 07 17:51:21 2000
Response via : Multiple Level Calibration





(70) 4-Chlorotoluene (T)

20.35min 9.88ug/L m

response 245922

Ion	Exp%	Act%
91.10	100	100
126.00	32.90	30.85
128.00	10.50	9.74
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

142

Data File : C:\HPCHEM\1\DATA\041200\S0200412.D
Acq On : 12 Apr 2000 7:54 pm
Sample : 1
Misc : voa std 20 ug/l
MS Integration Params: rteint.p
Quant Time: Apr 13 8:37 19100

Vial: 6
Operator:
Inst : HP-10
Multiplr: 1.00

Quant Results File: S041200.RES

Quant Method : C:\HPCHEM\1\METHODS\S041200.M (RTE Integrator)
Title : 8260 volatile organics
Last Update : Thu Apr 13 08:35:29 2000
Response via : Initial Calibration
DataAcq Meth : S041200

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Pentafluorobenzene	11.83	168	455980	30.00 ug/L	-0.10
11) 1,4-Difluorobenzene	13.12	114	724212	30.00 ug/L	-0.10
19) Chlorobenzene-d5	17.81	119	198329	30.00 ug/L	-0.07
63) 1,4-Dichlorobenzene-d4	21.41	152	298961	30.00 ug/L	-0.08
64) Ethylbenzene-d10	18.01	98	1035029	30.00 ug/L	-0.07

System Monitoring Compounds					
26) 1,2-Dichloroethane-d4	11.88	65	175329	23.39 ug/L	0.00
Spiked Amount 30.000			Recovery = 77.97%		
27) Dibromofluoromethane	11.18	111	132254	24.92 ug/L	-0.10
Spiked Amount 30.000			Recovery = 83.07%		
44) Toluene-d8	15.76	98	503927	24.39 ug/L	-0.08
Spiked Amount 30.000			Recovery = 81.30%		
66) Bromofluorobenzene	19.54	95	201574	24.26 ug/L	-0.07
Spiked Amount 30.000			Recovery = 80.87%		

Target Compounds					Qvalue
2) Dichlorodifluoromethane	4.36	85	278390	22.32 ug/L	100
3) Chloromethane	4.68	50	332304	20.25 ug/L	95
4) Vinyl Chloride	4.98	62	255813	21.95 ug/L	99
5) Bromomethane	5.66	96	180369m	17.10 ug/L	
6) Chloroethane	5.92	64	146035	21.22 ug/L	99
7) Trichlorofluoromethane	6.94	101	247687	21.07 ug/L	99
8) Acrolein	6.96	56	45719	24.35 ug/L #	96
9) Acetone	7.19	43	273360	22.55 ug/L	97
10) Diethyl Ether	7.40	59	143862	21.70 ug/L	95
11) 1,1-Dichloroethene	7.90	96	152312	19.01 ug/L	99
12) Iodomethane	7.95	142	805989	-109.73 ug/L #	89
13) Acrylonitrile	8.03	53	289787	22.79 ug/L #	99
14) Methylene Chloride	8.17	84	286703	23.63 ug/L	100
15) Carbon Disulfide	8.53	76	577368	20.73 ug/L	99
16) trans-1,2-Dichloroethene	9.31	61	292150	21.06 ug/L	97
17) Methyl-t-butyl ether	9.51	73	479161	22.18 ug/L	95
18) 1,1-Dichloroethane	9.73	63	354713	21.21 ug/L	99
19) Vinyl Acetate	9.98	43	2212179	21.56 ug/L	98
20) 2-Butanone	10.46	43	770383	22.41 ug/L	94
21) Diisopropyl ether	10.48	45	746302	21.53 ug/L	96
22) cis-1,2-Dichloroethene	10.65	61	269833	21.51 ug/L	97
23) Bromochloromethane	10.91	130	107182	22.44 ug/L	99
24) Chloroform	10.99	83	318409	21.15 ug/L	99
25) 2,2-Dichloropropane	11.11	77	242422	21.89 ug/L	99
28) 1,2-Dichloroethane	12.00	62	233260	21.92 ug/L	99
29) 1,1,1-Trichloroethane	12.14	97	236933	21.78 ug/L	98
30) 1,1-Dichloropropene	12.43	75	202664	21.43 ug/L	98
32) Carbon Tetrachloride	12.70	117	189159	21.81 ug/L	100
33) Benzene	12.76	78	743083	21.35 ug/L	98
34) Dibromomethane	13.60	93	107163	23.20 ug/L	94
35) 2,3-Dichloro-1-propene	13.69	49	86088	22.70 ug/L	100
36) 1,2-Dichloropropane	13.65	63	206987	22.00 ug/L	99
37) Trichloroethene	13.72	130	162792	21.31 ug/L	94
38) Bromodichloromethane	13.79	83	208721	22.92 ug/L #	1
39) 2-Chloroethyl vinyl ether	13.65	63	206987	22.00 ug/L	98
40) cis-1,3-Dichloropropene	14.73	75	258085	23.69 ug/L	99
41) 4-Methyl-2-pentanone	14.91	58	354516	24.74 ug/L	90
42) trans-1,3-Dichloropropene	15.36	75	237709	25.01 ug/L	99

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

Quantitation Report (QT Reviewed)

143

Data File : C:\HPCHEM\1\DATA\041200\S0200412.D
Acq On : 12 Apr 2000 7:54 pm
Sample : 1
Misc : voa std 20 ug/l
MS Integration Params: rteint.p
Quant Time: Apr 13 8:37 19100

Vial: 6
Operator:
Inst : HP-10
Multiplr: 1.00

Quant Results File: S041200.RES

Quant Method : C:\HPCHEM\1\METHODS\S041200.M (RTE Integrator)
Title : 8260 volatile organics
Last Update : Thu Apr 13 08:35:29 2000
Response via : Initial Calibration
DataAcq Meth : S041200

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
43) 1,1,2-Trichloroethane	15.58	97	136096	23.17 ug/L	98
15) Toluene	15.86	91	700080	21.45 ug/L	99
16) 1,3-Dichloropropane	15.93	76	268724	22.91 ug/L	87
47) Ethyl Methacrylate	15.97	69	1110544	24.66 ug/L #	90
48) 2-Hexanone	16.16	58	350622	25.44 ug/L	91
50) Dibromochloromethane	16.31	127	108056	24.67 ug/L	100
51) 1,2-Dibromoethane	16.67	107	137193	23.61 ug/L	99
52) Tetrachloroethene	16.90	166	153514	20.39 ug/L	97
53) 1,1,1,2-Tetrachloroethane	17.75	131	140920	22.23 ug/L	100
54) Chlorobenzene	17.86	112	425352	20.82 ug/L	95
55) Ethylbenzene	18.13	91	780991	21.01 ug/L	97
56) m,p-Xylene	18.40	91	1162445	20.86 ug/L	98
57) Bromoform	18.57	173	81979	26.52 ug/L	66
58) Styrene	18.87	104	416212	23.67 ug/L	99
59) o-Xylene	18.96	91	606436	21.46 ug/L	98
60) 1,1,2,2-Tetrachloroethane	18.96	83	194871	22.99 ug/L	99
61) 1,2,3-Trichloropropane	19.17	75	195188	24.52 ug/L	99
62) Trans-1.4-dichloro-2-buten	19.20	53	35766	22.10 ug/L	92
65) Isopropylbenzene	19.48	105	695158	21.59 ug/L	98
67) Bromobenzene	19.84	77	321748	21.65 ug/L	92
68) Propylbenzene	20.10	91	876832	21.58 ug/L	97
69) 2-Chlorotoluene	20.24	91	523462	21.22 ug/L	96
70) 4-Chlorotoluene	20.35	91	519327	21.64 ug/L	96
71) 1,3,5-Trimethylbenzene	20.50	105	541682	21.92 ug/L	98
72) t-Butylbenzene	20.91	119	461946	21.50 ug/L	95
73) 1,2,4-trimethylbenzene	21.07	105	536215	21.49 ug/L	98
74) sec-Butylbenzene	21.24	105	749826	20.76 ug/L	98
75) 1,3-Dichlorobenzene	21.36	146	298969	20.94 ug/L	99
76) 1,4-Dichlorobenzene	21.46	146	309241	19.82 ug/L	98
77) 1,2-Dichlorobenzene	22.02	146	283729	21.68 ug/L	98
78) p-Isopropyltoluene	21.51	119	578329	21.17 ug/L	97
79) Butylbenzene	22.16	91	588267	20.82 ug/L	98
80) 1,2-Dibromo-3-chloropropan	22.82	157	31909	-210.80 ug/L	96
81) 1,2,4-Trichlorobenzene	25.60	180	153497	20.31 ug/L	98
82) Naphthalene	26.18	128	382491	20.96 ug/L	100
83) Hexachlorobutadiene	26.31	225	84373	20.10 ug/L	98
84) 1,2,3-Trichlorobenzene	26.65	180	148003	20.42 ug/L	98

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

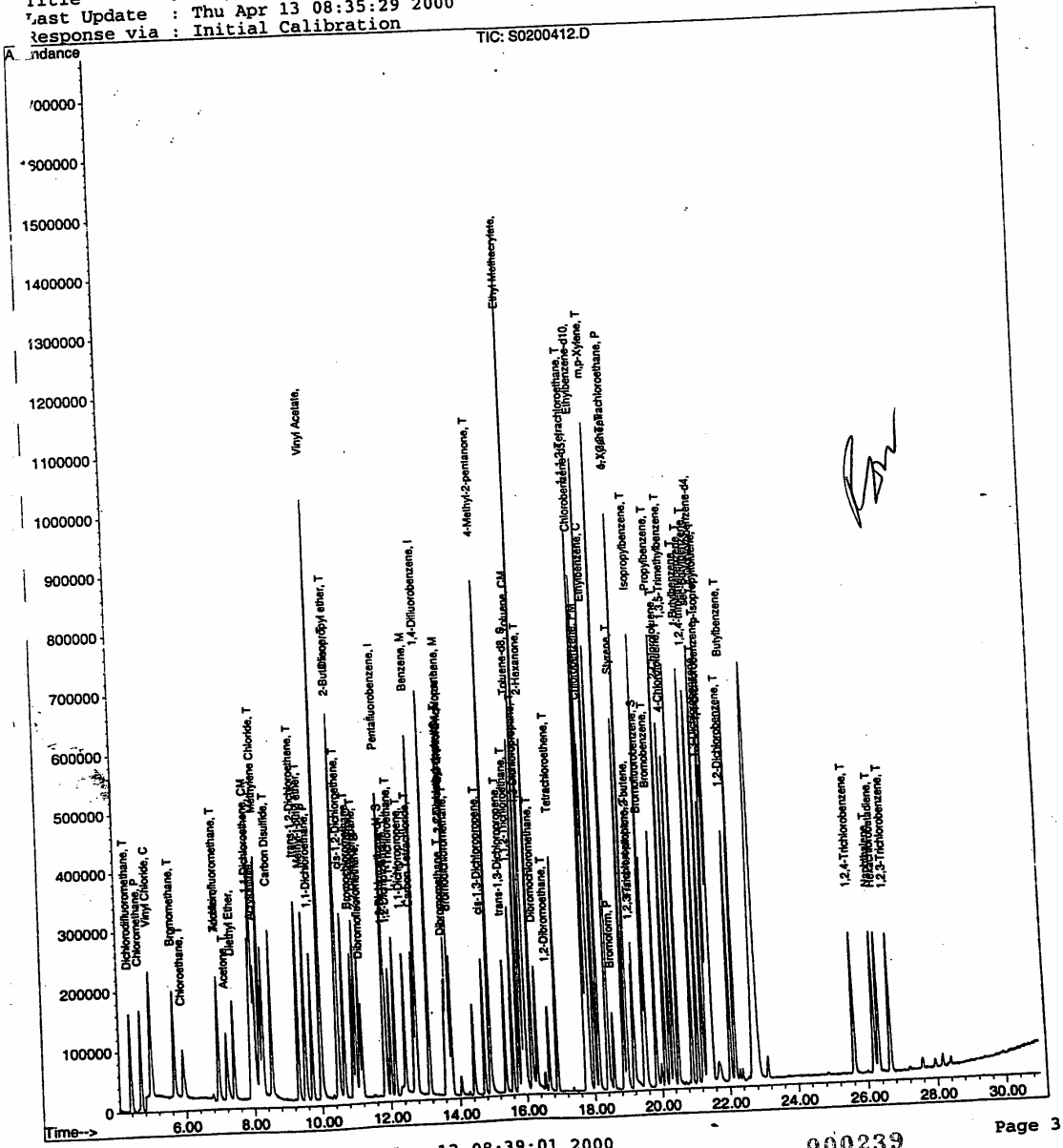
Quantitation Report

Data File : C:\HPCHEM\1\DATA\041200\S0200412.D
Acq On : 12 Apr 2000 7:54 pm
Sample : 1
Misc : voa std 20 ug/l
MS Integration Params: rteint.p
Quant Time: Apr 13 8:37 19100

Vial: 6
Operator:
Inst : HP-10
Multiplr: 1.00

Quant Results File: S041200.RES

Method : C:\HPCHEM\1\METHODS\S041200.M (RTE Integrator)
Title : 8260 volatile organics
Last Update : Thu Apr 13 08:35:29 2000
Response via : Initial Calibration



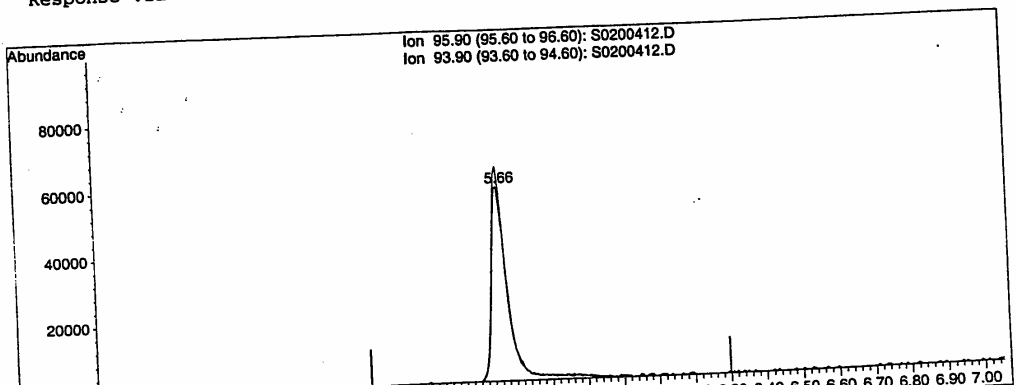
S0200412.D S041200.M Thu Apr 13 08:39:01 2000

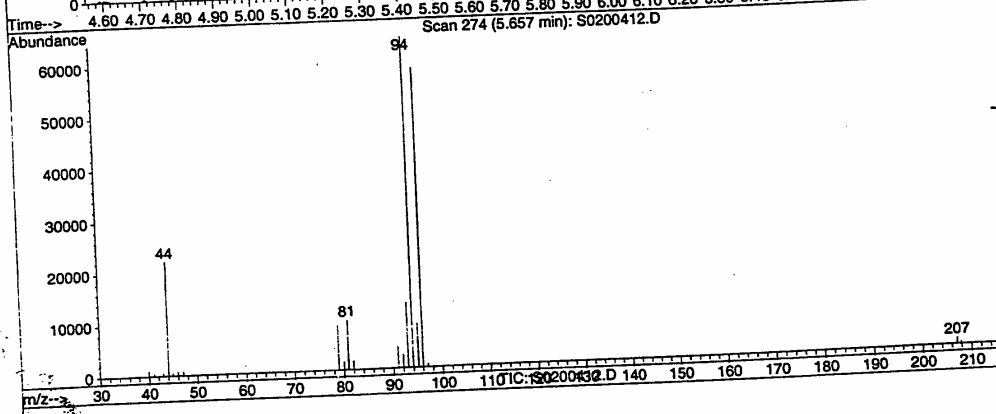
Quantitation Report

Data File : C:\HPCHEM\1\DATA\041200\S0200412.D
Acq On : 12 Apr 2000 7:54 pm
Sample : 1
Misc : voa std 20 ug/l
Quant Time: Apr 13 8:37 19100

Vial: 6
Operator:
Inst : HP-10
Multiplr: 1.00
Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\S041200.M (RTE Integrator)
Title : 8260 volatile organics
Last Update : Thu Apr 13 08:35:29 2000
Response via : Multiple Level Calibration





(5) Bromomethane (T)

5.66min 17.10ug/L m

response 180369

Ion	Exp%	Act%
95.90	100	100
93.90	106.90	102.97
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\041200\S0500412.D
Acq On : 12 Apr 2000 8:31 pm
Sample : 1
Misc : voa std 50 ug/l
MS Integration Params: rteint.p
Quant Time: Apr 13 8:40 19100

Vial: 7
Operator:
Inst : HP-10
Multiplr: 1.00

Quant Results File: S041200.RES

Quant Method : C:\HPCHEM\1\METHODS\S041200.M (RTE Integrator)
Title : 8260 volatile organics
Last Update : Thu Apr 13 08:35:29 2000
Response via : Initial Calibration
DataAcq Meth : S041200

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Pentafluorobenzene	11.83	168	472072	30.00 ug/L	-0.10
21) 1,4-Difluorobenzene	13.13	114	756111	30.00 ug/L	-0.09
49) Chlorobenzene-d5	17.81	119	200045	30.00 ug/L	-0.07
63) 1,4-Dichlorobenzene-d4	21.42	152	299544	30.00 ug/L	-0.07
64) Ethylbenzene-d10	18.01	98	1063713	30.00 ug/L	-0.07
System Monitoring Compounds					
26) 1,2-Dichloroethane-d4	11.88	65	446629	55.22 ug/L	0.00
Spiked Amount 30.000			Recovery = 184.07%		
27) Dibromofluoromethane	11.18	111	337904	57.93 ug/L	-0.10
Spiked Amount 30.000			Recovery = 193.10%		
44) Toluene-d8	15.75	98	1294773	56.89 ug/L	-0.08
Spiked Amount 30.000			Recovery = 189.63%		
66) Bromofluorobenzene	19.54	95	515358	57.30 ug/L	-0.07
Spiked Amount 30.000			Recovery = 191.00%		

Target Compounds					Qvalue
2) Dichlorodifluoromethane	4.36	85	694085	52.24 ug/L	100
3) Chloromethane	4.68	50	799337	46.90 ug/L	94
4) Vinyl Chloride	4.97	62	619912	50.16 ug/L	100
5) Bromomethane	5.65	96	434348m	47.36 ug/L	
6) Chloroethane	5.92	64	357159	49.37 ug/L	99
7) Trichlorofluoromethane	6.94	101	621256	50.38 ug/L	99
8) Acrolein	6.95	56	129256	63.07 ug/L	100
9) Acetone	7.18	43	624744	46.04 ug/L	98
10) Diethyl Ether	7.40	59	364838	52.05 ug/L	98
11) 1,1-Dichloroethene	7.90	96	376613	45.97 ug/L	97
12) Iodomethane	7.95	142	2207885	54.60 ug/L #	93
13) Acrylonitrile	8.03	53	702598	51.57 ug/L #	99
14) Methylene Chloride	8.17	84	560265	48.26 ug/L	99
15) Carbon Disulfide	8.53	76	1484699	51.02 ug/L	100
16) trans-1,2-Dichloroethene	9.31	61	737022	50.64 ug/L	98
17) Methyl-t-butyl ether	9.52	73	1189292	51.76 ug/L	95
18) 1,1-Dichloroethane	9.72	63	890839	50.69 ug/L	100
19) Vinyl Acetate	9.97	43	5650304	48.82 ug/L	99
20) 2-Butanone	10.46	43	1889033	51.52 ug/L	94
21) Diisopropyl ether	10.48	45	1853478	50.69 ug/L	96
22) cis-1,2-Dichloroethene	10.65	61	670348	50.66 ug/L	97
23) Bromochloromethane	10.90	130	269401	52.86 ug/L	99
24) Chloroform	10.98	83	785001	47.46 ug/L	100
25) 2,2-Dichloropropane	11.10	77	606144	51.65 ug/L	98
28) 1,2-Dichloroethane	12.00	62	571628	50.66 ug/L	99
29) 1,1,1-Trichloroethane	12.15	97	584141	50.74 ug/L	97
30) 1,1-Dichloropropene	12.43	75	504058	50.57 ug/L	98
32) Carbon Tetrachloride	12.70	117	483274	52.18 ug/L	99
33) Benzene	12.76	78	1848386	50.03 ug/L	98
34) Dibromomethane	13.60	93	261396	52.12 ug/L	96
35) 2,3-Dichloro-1-propene	13.69	49	215225	52.58 ug/L	100
36) 1,2-Dichloropropane	13.65	63	512334	50.88 ug/L	99
37) Trichloroethene	13.72	130	412828	50.92 ug/L	96
38) Bromodichloromethane	13.79	83	536132	54.40 ug/L #	1
39) 2-Chloroethyl vinyl ether	13.65	63	512334	50.88 ug/L	98
40) cis-1,3-Dichloropropene	14.73	75	656286	55.15 ug/L	99
41) 4-Methyl-2-pentanone	14.91	58	869221	54.86 ug/L	92
42) trans-1,3-Dichloropropene	15.36	75	617666	58.57 ug/L	99

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

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\041200\S0500412.D
Acq On : 12 Apr 2000 8:31 pm
Sample : 1
Misc : voa std 50 ug/l
MS Integration Params: rteint.p
Quant Time: Apr 13 8:40 19100

Vial: 7
Operator:
Inst : HP-10
Multiplr: 1.00

Quant Results File: S041200.RES

Quant Method : C:\HPCHEM\1\METHODS\S041200.M (RTE Integrator)
Title : 8260 volatile organics
Last Update : Thu Apr 13 08:35:29 2000
Response via : Initial Calibration
DataAcq Meth : S041200

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
43) 1,1,2-Trichloroethane	15.58	97	335582	52.64 ug/L	98
45) Toluene	15.86	91	1745456	50.31 ug/L	99
46) 1,3-Dichloropropane	15.93	76	662201	52.17 ug/L	85
47) Ethyl Methacrylate	15.96	69	2736397	55.00 ug/L #	88
48) 2-Hexanone	16.15	58	861430	56.05 ug/L	91
50) Dibromochloromethane	16.31	127	279998	59.89 ug/L	99
51) 1,2-Dibromoethane	16.66	107	345442	56.39 ug/L	98
52) Tetrachloroethene	16.90	166	384884	50.43 ug/L	98
53) 1,1,1,2-Tetrachloroethane	17.75	131	360630	54.88 ug/L	99
54) Chlorobenzene	17.86	112	1055919	50.72 ug/L	96
55) Ethylbenzene	18.13	91	1930421	50.84 ug/L	98
56) m,p-Xylene	18.40	91	2900952	51.06 ug/L	98
57) Bromoform	18.57	173	221270	65.62 ug/L	86
58) Styrene	18.87	104	1080765	58.26 ug/L	99
59) o-Xylene	18.96	91	1499252	51.65 ug/L	98
60) 1,1,2,2-Tetrachloroethane	18.96	83	475676	53.64 ug/L	99
61) 1,2,3-Trichloropropane	19.16	75	489925	57.75 ug/L	99
62) Trans-1.4-dichloro-2-buten	19.19	53	98897	51.80 ug/L	91
65) Isopropylbenzene	19.48	105	1750253	51.86 ug/L	98
67) Bromobenzene	19.83	77	797598	51.16 ug/L	93
68) Propylbenzene	20.10	91	2227116	52.31 ug/L	97
69) 2-Chlorotoluene	20.24	91	1314230	51.06 ug/L	97
70) 4-Chlorotoluene	20.34	91	1307903	51.97 ug/L	96
71) 1,3,5-Trimethylbenzene	20.50	105	1368483	52.62 ug/L	99
72) t-Butylbenzene	20.91	119	1167098	51.88 ug/L	96
73) 1,2,4-trimethylbenzene	21.07	105	1348620	51.64 ug/L	98
74) sec-Butylbenzene	21.24	105	1885876	50.33 ug/L	98
75) 1,3-Dichlorobenzene	21.35	146	750636	50.56 ug/L	99
76) 1,4-Dichlorobenzene	21.46	146	778408	48.66 ug/L	99
77) 1,2-Dichlorobenzene	22.02	146	704133	51.28 ug/L	98
78) p-Isopropyltoluene	21.51	119	1457041	51.14 ug/L	98
79) Butylbenzene	22.16	91	1495272	50.98 ug/L	98
80) 1,2-Dibromo-3-chloropropan	22.81	157	70626	56.39 ug/L	96
81) 1,2,4-Trichlorobenzene	25.60	180	388985	49.89 ug/L	99
82) Naphthalene	26.17	128	944358	48.34 ug/L	100
83) Hexachlorobutadiene	26.31	225	215038	49.79 ug/L	99
84) 1,2,3-Trichlorobenzene	26.65	180	366448	47.91 ug/L	99

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

Quantitation Report

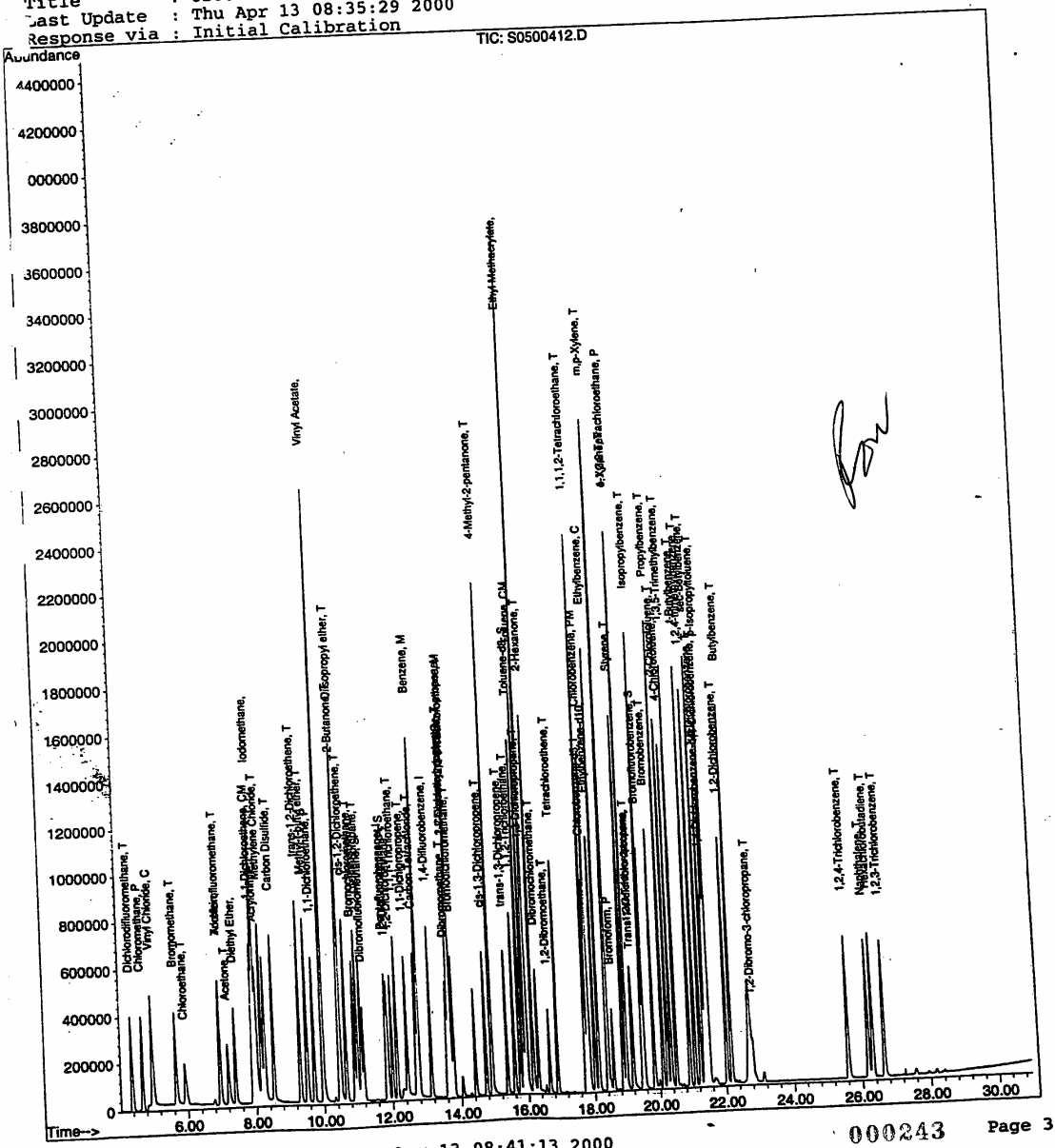
148

Data File : C:\HPCHEM\1\DATA\041200\S0500412.D
Acq On : 12 Apr 2000 8:31 pm
Sample : 1
Misc : voa std 50 ug/l
MS Integration Params: rteint.p
Quant Time: Apr 13 8:40 19100

Vial: 7
Operator:
Inst : HP-10
Multiplr: 1.00

Quant Results File: S041200.RES

Method : C:\HPCHEM\1\METHODS\S041200.M (RTE Integrator)
Title : 8260 volatile organics
Last Update : Thu Apr 13 08:35:29 2000
Response via : Initial Calibration

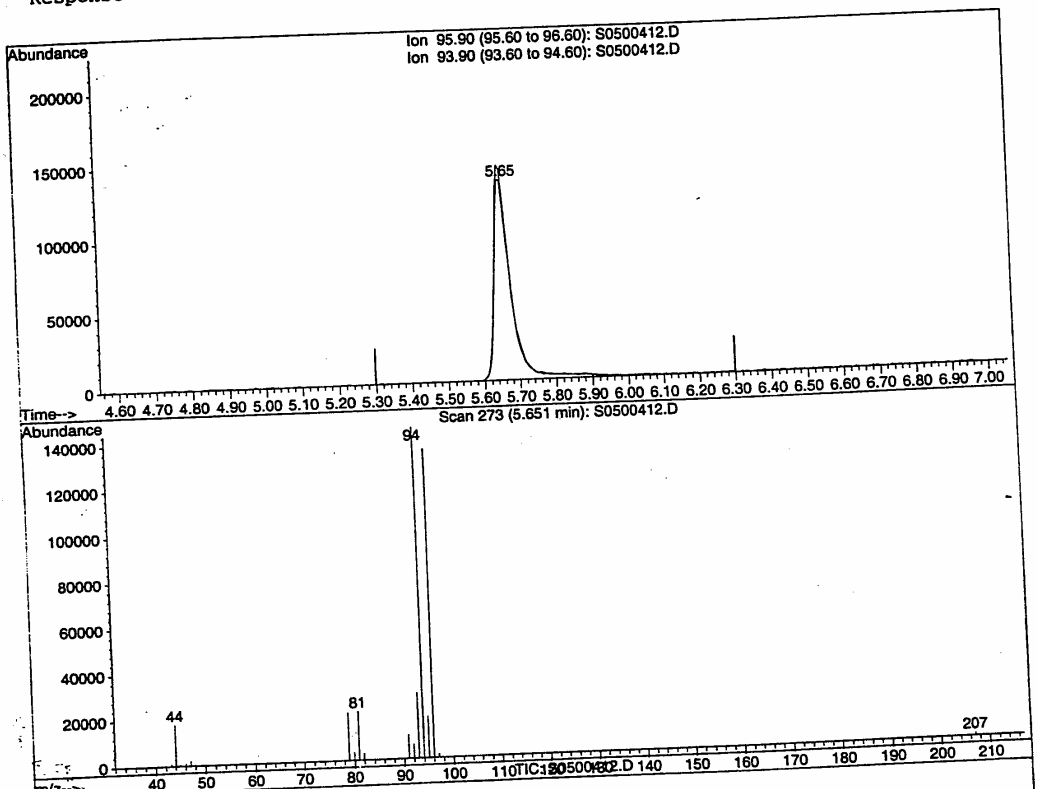


Quantitation Report

Data File : C:\HPCHEM\1\DATA\041200\S0500412.D
Acq On : 12 Apr 2000 8:31 pm
Sample : 1
Misc : voa std 50 ug/l
Quant Time: Apr 13 8:40 19100

Vial: 7
Operator:
Inst : HP-10
Multiplr: 1.00
Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\S041200.M (RTE Integrator)
Title : 8260 volatile organics
Last Update : Thu Apr 13 08:35:29 2000
Response via : Multiple Level Calibration



(5) Bromomethane (T)

5.65min 47.36ug/L m

response 434348

Ion	Exp%	Act%
95.90	100	100
93.90	106.90	100.50
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\041200\S1000412.D
Acq On : 12 Apr 2000 9:07 pm
Sample : 1
Misc : voa std 100 ug/l
MS Integration Params: rteint.p
Quant Time: Apr 13 8:43 19100

Vial: 8
Operator:
Inst : HP-10
Multiplr: 1.00

Quant Results File: S041200.RES

Quant Method : C:\HPCHEM\1\METHODS\S041200.M (RTE Integrator)
Title : 8260 volatile organics
Last Update : Thu Apr 13 08:35:29 2000
Response via : Initial Calibration
DataAcq Meth : S041200

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Pentafluorobenzene	11.83	168	464720	30.00 ug/L	-0.10
21) 1,4-Difluorobenzene	13.13	114	747706	30.00 ug/L	-0.09
9) Chlorobenzene-d5	17.81	119	212760	30.00 ug/L	-0.07
53) 1,4-Dichlorobenzene-d4	21.42	152	302289	30.00 ug/L	-0.07
64) Ethylbenzene-d10	18.01	98	1085831	30.00 ug/L	-0.07
System Monitoring Compounds					
26) 1,2-Dichloroethane-d4	11.88	65	825807	101.59 ug/L	0.00
Spiked Amount 30.000			Recovery = 338.63%		
27) Dibromofluoromethane	11.17	111	587218	99.12 ug/L	-0.11
Spiked Amount 30.000			Recovery = 330.40%		
14) Toluene-d8	15.75	98	2173546	93.99 ug/L	-0.08
Spiked Amount 30.000			Recovery = 313.30%		
66) Bromofluorobenzene	19.53	95	930184	98.45 ug/L	-0.07
Spiked Amount 30.000			Recovery = 328.17%		

Target Compounds					Qvalue
2) Dichlorodifluoromethane	4.36	85	1380173	104.58 ug/L	100
3) Chloromethane	4.68	50	1592233	96.08 ug/L	98
4) Vinyl Chloride	4.96	62	1160808	95.36 ug/L	100
5) Bromomethane	5.65	96	909613	108.04 ug/L	100
6) Chloroethane	5.92	64	701346	98.74 ug/L	99
7) Trichlorofluoromethane	6.95	101	1245305	102.42 ug/L	99
8) Acrolein	6.95	56	316435	149.06 ug/L	99
9) Acetone	7.18	43	1284280	105.57 ug/L	97
10) Diethyl Ether	7.39	59	745218	107.12 ug/L	97
11) 1,1-Dichloroethene	7.90	96	756149	95.29 ug/L	97
12) Iodomethane	7.95	142	4151271	92.97 ug/L #	90
13) Acrylonitrile	8.02	53	1497970	110.99 ug/L #	99
14) Methylene Chloride	8.17	84	1035489	103.84 ug/L	99
15) Carbon Disulfide	8.53	76	3125968	108.67 ug/L	100
16) trans-1,2-Dichloroethene	9.31	61	1471918	102.48 ug/L	97
17) Methyl-t-butyl ether	9.52	73	2444429	107.32 ug/L	96
18) 1,1-Dichloroethane	9.72	63	1779069	102.54 ug/L	99
19) Vinyl Acetate	9.97	43	11820222	105.46 ug/L	100
20) 2-Butanone	10.45	43	3892394	107.18 ug/L	95
21) Diisopropyl ether	10.48	45	3718636	103.02 ug/L	96
22) cis-1,2-Dichloroethene	10.65	61	1345754	103.04 ug/L	98
23) Bromochloromethane	10.91	130	542874	106.99 ug/L	99
24) Chloroform	10.98	83	1573870	101.38 ug/L	99
25) 2,2-Dichloropropane	11.10	77	1239650	106.59 ug/L	100
28) 1,2-Dichloroethane	12.00	62	1162507	104.39 ug/L	99
29) 1,1,1-Trichloroethane	12.14	97	1180391	103.84 ug/L	98
30) 1,1-Dichloropropene	12.43	75	1014570	103.17 ug/L	98
32) Carbon Tetrachloride	12.70	117	966855	104.66 ug/L	99
33) Benzene	12.76	78	3712915	101.62 ug/L	98
34) Dibromomethane	13.60	93	536417	107.25 ug/L	96
35) 2,3-Dichloro-1-propene	13.69	49	433523	106.01 ug/L	100
36) 1,2-Dichloropropane	13.65	63	1031229	103.20 ug/L	99
37) Trichloroethene	13.71	130	830950	103.27 ug/L	95
38) Bromodichloromethane	13.79	83	1093647	110.28 ug/L #	1
39) 2-Chloroethyl vinyl ether	13.65	63	1031229	103.20 ug/L	98
40) cis-1,3-Dichloropropene	14.73	75	1357487	113.04 ug/L	99
41) 4-Methyl-2-pentanone	14.90	58	1874454	117.34 ug/L	92
42) trans-1,3-Dichloropropene	15.36	75	1302276	120.74 ug/L	99

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

Quantitation Report (QT Reviewed)

151

Data File : C:\HPCHEM\1\DATA\041200\S1000412.D
Acq On : 12 Apr 2000 9:07 pm
Sample : 1
Misc : voa std 100 ug/l
MS Integration Params: rteint.p
Quant Time: Apr 13 8:43 19100

Vial: 8
Operator:
Inst : HP-10
Multiplr: 1.00

Quant Results File: S041200.RES

Quant Method : C:\HPCHEM\1\METHODS\S041200.M (RTE Integrator)
Title : 8260 volatile organics
Last Update : Thu Apr 13 08:35:29 2000
Response via : Initial Calibration
DataAcq Meth : S041200

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
43) 1,1,2-Trichloroethane	15.58	97	697291	109.45 ug/L	99
45) Toluene	15.86	91	3523719	102.58 ug/L	100
46) 1,3-Dichloropropane	15.93	76	1354632	106.99 ug/L	84
47) Ethyl Methacrylate	15.97	69	5794588	115.47 ug/L	91
48) 2-Hexanone	16.15	58	1880688	120.83 ug/L	92
50) Dibromochloromethane	16.31	127	592605	114.64 ug/L	99
51) 1,2-Dibromoethane	16.66	107	727524	108.88 ug/L	99
52) Tetrachloroethene	16.90	166	782467	96.23 ug/L	97
53) 1,1,1,2-Tetrachloroethane	17.74	131	758137	106.40 ug/L	99
54) Chlorobenzene	17.86	112	2193626	98.78 ug/L	98
55) Ethylbenzene	18.13	91	3979854	98.22 ug/L	98
56) m,p-Xylene	18.40	91	5930047	97.72 ug/L	98
57) Bromoform	18.57	173	483504	126.89 ug/L	98
58) Styrene	18.87	104	2251724	110.48 ug/L	98
59) o-Xylene	18.96	91	3068614	98.75 ug/L	98
60) 1,1,2,2-Tetrachloroethane	18.96	83	1000264	104.53 ug/L	99
61) 1,2,3-Trichloropropane	19.16	75	1062910	114.26 ug/L	99
62) Trans-1.4-dichloro-2-buten	19.19	53	223313	103.88 ug/L	88
65) Isopropylbenzene	19.48	105	3578179	103.09 ug/L	98
67) Bromobenzene	19.83	77	1628544	101.87 ug/L	93
68) Propylbenzene	20.10	91	4484916	102.24 ug/L	97
69) 2-Chlorotoluene	20.24	91	2637026	99.95 ug/L	96
70) 4-Chlorotoluene	20.34	91	2606662	100.67 ug/L	96
71) 1,3,5-Trimethylbenzene	20.50	105	2774537	103.42 ug/L	98
72) t-Butylbenzene	20.91	119	2343472	101.29 ug/L	96
73) 1,2,4-trimethylbenzene	21.07	105	2745837	102.32 ug/L	98
74) sec-Butylbenzene	21.24	105	3787086	98.88 ug/L	98
75) 1,3-Dichlorobenzene	21.36	146	1504587	99.06 ug/L	99
76) 1,4-Dichlorobenzene	21.46	146	1519820	93.58 ug/L	99
77) 1,2-Dichlorobenzene	22.02	146	1418140	100.66 ug/L	98
78) p-Isopropyltoluene	21.51	119	2894370	99.07 ug/L	99
79) Butylbenzene	22.16	91	2967344	98.72 ug/L	98
80) 1,2-Dibromo-3-chloropropan	22.81	157	155599	115.04 ug/L	100
81) 1,2,4-Trichlorobenzene	25.59	180	776399	97.59 ug/L	99
82) Naphthalene	26.17	128	1993038	103.35 ug/L	100
83) Hexachlorobutadiene	26.31	225	418840	95.09 ug/L	99
84) 1,2,3-Trichlorobenzene	26.64	180	743266	99.01 ug/L	99

(#) = qualifier out of range (m) = manual integration
S1000412.D S041200.M Thu Apr 13 08:45:15 2000

000246

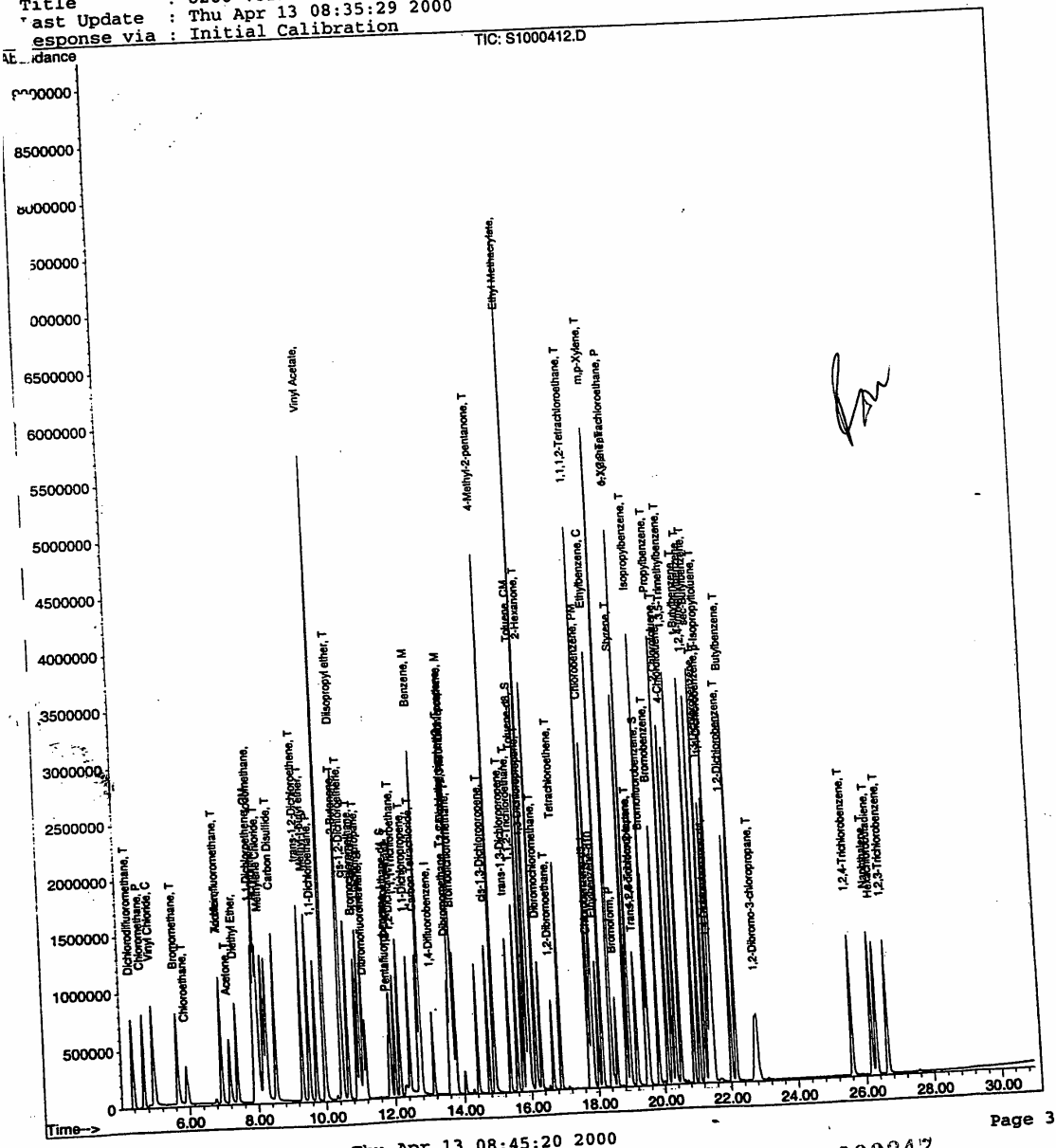
Quantitation Report

Data File : C:\HPCHEM\1\DATA\041200\S1000412.D
Acq On : 12 Apr 2000 9:07 pm
Sample : 1
Misc : voa std 100 ug/l
MS Integration Params: rteint.p
Quant Time: Apr 13 8:43 19100

Vial: 8
Operator:
Inst : HP-10
Multiplr: 1.00

Quant Results File: S041200.RES

Method : C:\HPCHEM\1\METHODS\S041200.M (RTE Integrator)
Title : 8260 volatile organics
Last Update : Thu Apr 13 08:35:29 2000
Response via : Initial Calibration



S1000412.D S041200.M Thu Apr 13 08:45:20 2000

Quantitation Report (QT Reviewed)

153

Data File : C:\HPCHEM\1\DATA\041200\S2000412.D
Acq On : 12 Apr 2000 9:44 pm
Sample : 1
Misc : voa std 200 ug/l
MS Integration Params: rteint.p
Quant Time: Apr 13 8:45 19100

Vial: 9
Operator:
Inst : HP-10
Multiplr: 1.00

Quant Results File: S041200.RES

Quant Method : C:\HPCHEM\1\METHODS\S041200.M (RTE Integrator)
Title : 8260 volatile organics
Last Update : Thu Apr 13 08:35:29 2000
Response via : Initial Calibration
DataAcq Meth : S041200

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Pentafluorobenzene	11.83	168	485156	30.00 ug/L	-0.10
21) 1,4-Difluorobenzene	13.12	114	776696	30.00 ug/L	-0.10
49) Chlorobenzene-d5	17.81	119	207279	30.00 ug/L	-0.07
63) 1,4-Dichlorobenzene-d4	21.42	152	303498	30.00 ug/L	-0.07
64) Ethylbenzene-d10	18.01	98	1116780	30.00 ug/L	-0.07
System Monitoring Compounds					
26) 1,2-Dichloroethane-d4	11.88	65	1618913	190.27 ug/L	-0.01
Spiked Amount 30.000			Recovery = 634.23%		
27) Dibromofluoromethane	11.17	111	1168160	189.16 ug/L	-0.11
Spiked Amount 30.000			Recovery = 630.53%		
44) Toluene-d8	15.75	98	4308124	181.16 ug/L	-0.08
Spiked Amount 30.000			Recovery = 603.87%		
66) Bromofluorobenzene	19.54	95	1815639	187.32 ug/L	-0.07
Spiked Amount 30.000			Recovery = 624.40%		

Target Compounds					Qvalue
2) Dichlorodifluoromethane	4.36	85	2794530	201.30 ug/L	100
3) Chloromethane	4.68	50	3284763	191.12 ug/L	98
4) Vinyl Chloride	4.95	62	1942787	154.06 ug/L	100
5) Bromomethane	5.65	96	2077724	222.71 ug/L	98
6) Chloroethane	5.92	64	1458606	197.11 ug/L	99
7) Trichlorofluoromethane	6.94	101	2507694	196.77 ug/L	99
8) Acrolein	6.94	56	784442	327.20 ug/L	99
9) Acetone	7.17	43	2566330	194.19 ug/L	97
10) Diethyl Ether	7.39	59	1518681	206.66 ug/L	99
11) 1,1-Dichloroethene	7.90	96	1508113	183.49 ug/L	96
12) Iodomethane	7.95	142	8941609	200.49 ug/L #	92
13) Acrylonitrile	8.02	53	2920483	203.55 ug/L #	99
14) Methylene Chloride	8.17	84	1946657	189.93 ug/L	100
15) Carbon Disulfide	8.52	76	6162819	202.29 ug/L	100
16) trans-1,2-Dichloroethene	9.31	61	2979667	197.89 ug/L	97
17) Methyl-t-butyl ether	9.51	73	5002438	207.84 ug/L	97
18) 1,1-Dichloroethane	9.72	63	3583242	197.00 ug/L	99
19) Vinyl Acetate	9.97	43	20300922	165.28 ug/L	98
20) 2-Butanone	10.45	43	7899974	205.91 ug/L	94
21) Diisopropyl ether	10.48	45	7601944	200.72 ug/L	97
22) cis-1,2-Dichloroethene	10.65	61	2767865	201.98 ug/L	97
23) Bromochloromethane	10.91	130	1083000	202.09 ug/L	100
24) Chloroform	10.98	83	3200034	195.13 ug/L	99
25) 2,2-Dichloropropane	11.10	77	2550623	207.80 ug/L	99
28) 1,2-Dichloroethane	12.00	62	2337270	199.58 ug/L	98
29) 1,1,1-Trichloroethane	12.14	97	2405065	201.38 ug/L	98
30) 1,1-Dichloropropene	12.43	75	2080395	201.57 ug/L	98
32) Carbon Tetrachloride	12.70	117	1984846	205.24 ug/L	99
33) Benzene	12.76	78	7656083	201.17 ug/L	99
34) Dibromomethane	13.60	93	1092791	207.83 ug/L	96
35) 2,3-Dichloro-1-propene	13.69	49	865063	201.63 ug/L	100
36) 1,2-Dichloropropane	13.65	63	2085701	199.87 ug/L	99
37) Trichloroethene	13.72	130	1688498	200.92 ug/L	96
38) Bromodichloromethane	13.78	83	2246214	214.38 ug/L #	1
39) 2-Chloroethyl vinyl ether	13.65	63	2085701	199.87 ug/L	98
40) cis-1,3-Dichloropropene	14.73	75	2820671	221.30 ug/L	99
41) 4-Methyl-2-pentanone	14.91	58	3696994	216.54 ug/L	93
42) trans-1,3-Dichloropropene	15.36	75	2716235	234.33 ug/L	99

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

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\041200\S2000412.D
Acq On : 12 Apr 2000 9:44 pm
Sample : 1
Misc : voa std 200 ug/l
MS Integration Params: rteint.p
Quant Time: Apr 13 8:45 19100

Vial: 9
Operator:
Inst : HP-10
Multiplr: 1.00

Quant Results File: S041200.RES

Quant Method : C:\HPCHEM\1\METHODS\S041200.M (RTE Integrator)
Title : 8260 volatile organics
Last Update : Thu Apr 13 08:35:29 2000
Response via : Initial Calibration
DataAcq Meth : S041200

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
43) 1,1,2-Trichloroethane	15.58	97	1418870	211.07 ug/L	99
45) Toluene	15.86	91	7162776	199.88 ug/L	99
46) 1,3-Dichloropropane	15.93	76	2743145	206.17 ug/L	90
47) Ethyl Methacrylate	15.97	69	11403233	213.25 ug/L	92
48) 2-Hexanone	16.15	58	3738130	223.44 ug/L	93
50) Dibromochloromethane	16.31	127	1237463	239.86 ug/L	100
51) 1,2-Dibromoethane	16.66	107	1496920	226.59 ug/L	99
52) Tetrachloroethene	16.90	166	1584309	201.26 ug/L	97
53) 1,1,1,2-Tetrachloroethane	17.75	131	1546354	220.41 ug/L	100
54) Chlorobenzene	17.86	112	4450819	206.15 ug/L	98
55) Ethylbenzene	18.13	91	8091829	205.59 ug/L	97
56) m,p-Xylene	18.40	91	12022302	204.12 ug/L	98
57) Bromoform	18.57	173	1005446	259.23 ug/L	93
58) Styrene	18.86	104	4606601	228.02 ug/L	99
59) o-Xylene	18.96	91	6145498	203.41 ug/L	98
60) 1,1,2,2-Tetrachloroethane	18.96	83	1897574	202.02 ug/L	99
61) 1,2,3-Trichloropropane	19.16	75	2115023	227.95 ug/L	99
62) Trans-1.4-dichloro-2-buten	19.19	53	447850	204.28 ug/L #	85
65) Isopropylbenzene	19.48	105	7212232	201.00 ug/L	99
67) Bromobenzene	19.83	77	3291505	199.56 ug/L	93
68) Propylbenzene	20.10	91	8988774	198.50 ug/L	97
69) 2-Chlorotoluene	20.24	91	5323162	196.18 ug/L	96
70) 4-Chlorotoluene	20.34	91	5240470	196.56 ug/L	96
71) 1,3,5-Trimethylbenzene	20.50	105	5580140	201.09 ug/L	98
72) t-Butylbenzene	20.91	119	4690935	196.70 ug/L	97
73) 1,2,4-trimethylbenzene	21.07	105	5462909	197.16 ug/L	98
74) sec-Butylbenzene	21.24	105	7518456	191.22 ug/L	98
75) 1,3-Dichlorobenzene	21.35	146	2969908	190.42 ug/L	100
76) 1,4-Dichlorobenzene	21.46	146	3024900	183.04 ug/L	99
77) 1,2-Dichlorobenzene	22.02	146	2803327	193.25 ug/L	98
78) p-Isopropyltoluene	21.51	119	5765688	192.18 ug/L	98
79) Butylbenzene	22.16	91	5828616	188.94 ug/L	98
80) 1,2-Dibromo-3-chloropropan	22.81	157	299171	193.65 ug/L	97
81) 1,2,4-Trichlorobenzene	25.60	180	1556751	191.02 ug/L	99
82) Naphthalene	26.17	128	3968903	194.60 ug/L	100
83) Hexachlorobutadiene	26.32	225	832602	185.30 ug/L	99
84) 1,2,3-Trichlorobenzene	26.65	180	1467877	191.88 ug/L	99

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

Quantitation Report

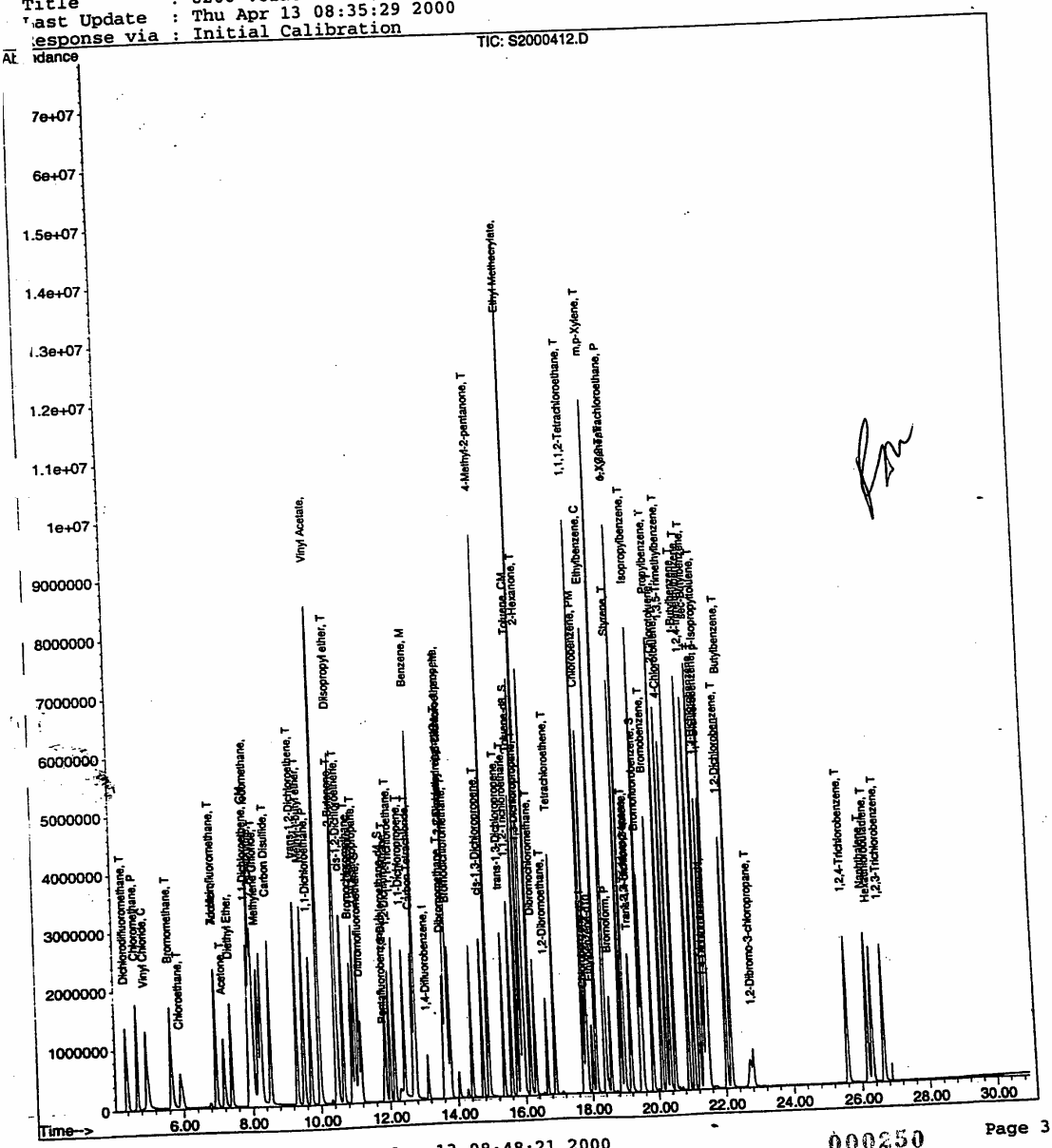
155

Data File : C:\HPCHEM\1\DATA\041200\S2000412.D
Acq On : 12 Apr 2000 9:44 pm
Sample : 1
Misc : voa std 200 ug/l
MS.Integration Params: rteint.p
Quant Time: Apr 13 8:45 19100

Vial: 9
Operator:
Inst : HP-10
Multiplr: 1.00

Quant Results File: S041200.RES

Method : C:\HPCHEM\1\METHODS\S041200.M (RTE Integrator)
Title : 8260 volatile organics
Last Update : Thu Apr 13 08:35:29 2000
Response via : Initial Calibration



S2000412.D S041200.M Thu Apr 13 08:48:21 2000

000250

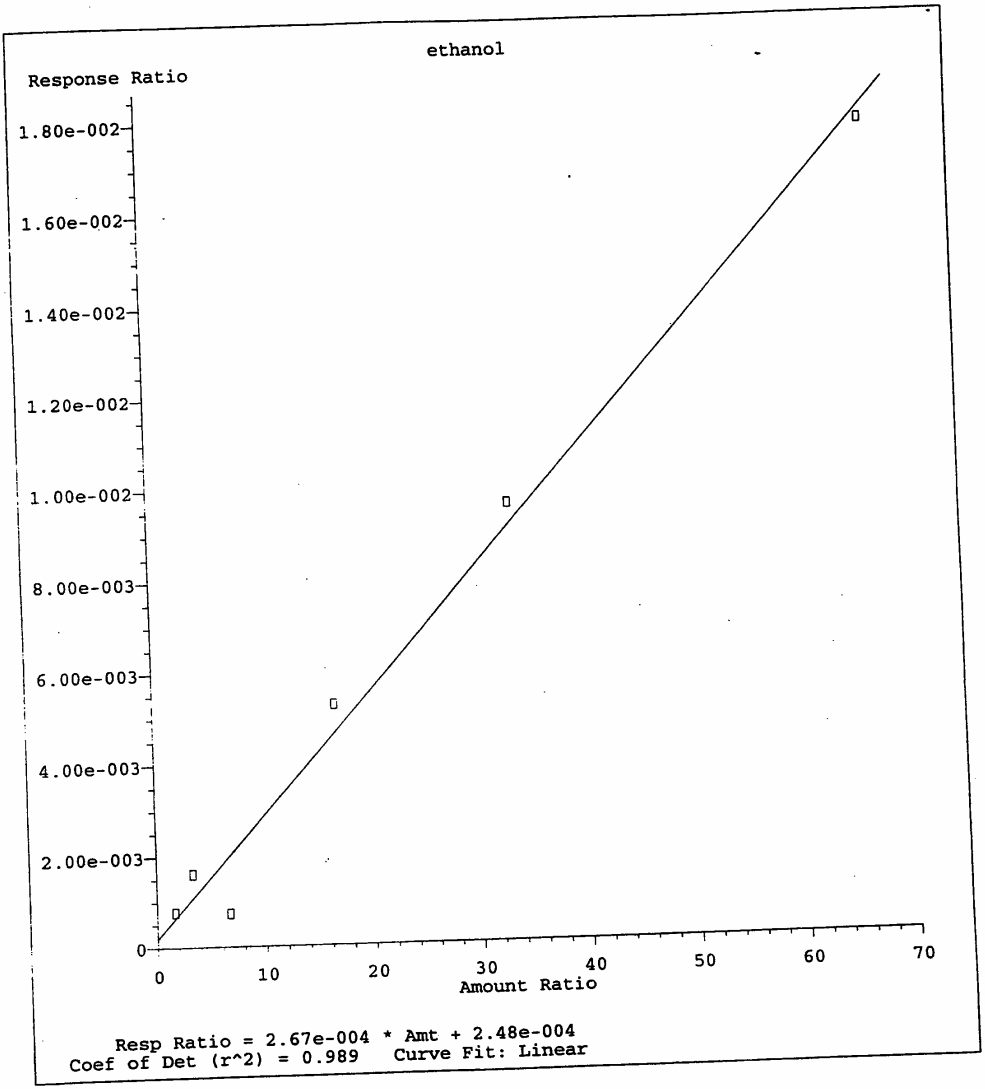
Response Factor Report HP-10

Method : C:\HPCHEM\1\METHODS\APS0219.M (RTE Integrator)
Title : APPIX IX MIX
Last Update : Tue Mar 21 17:13:42 2000
Response via : Initial Calibration

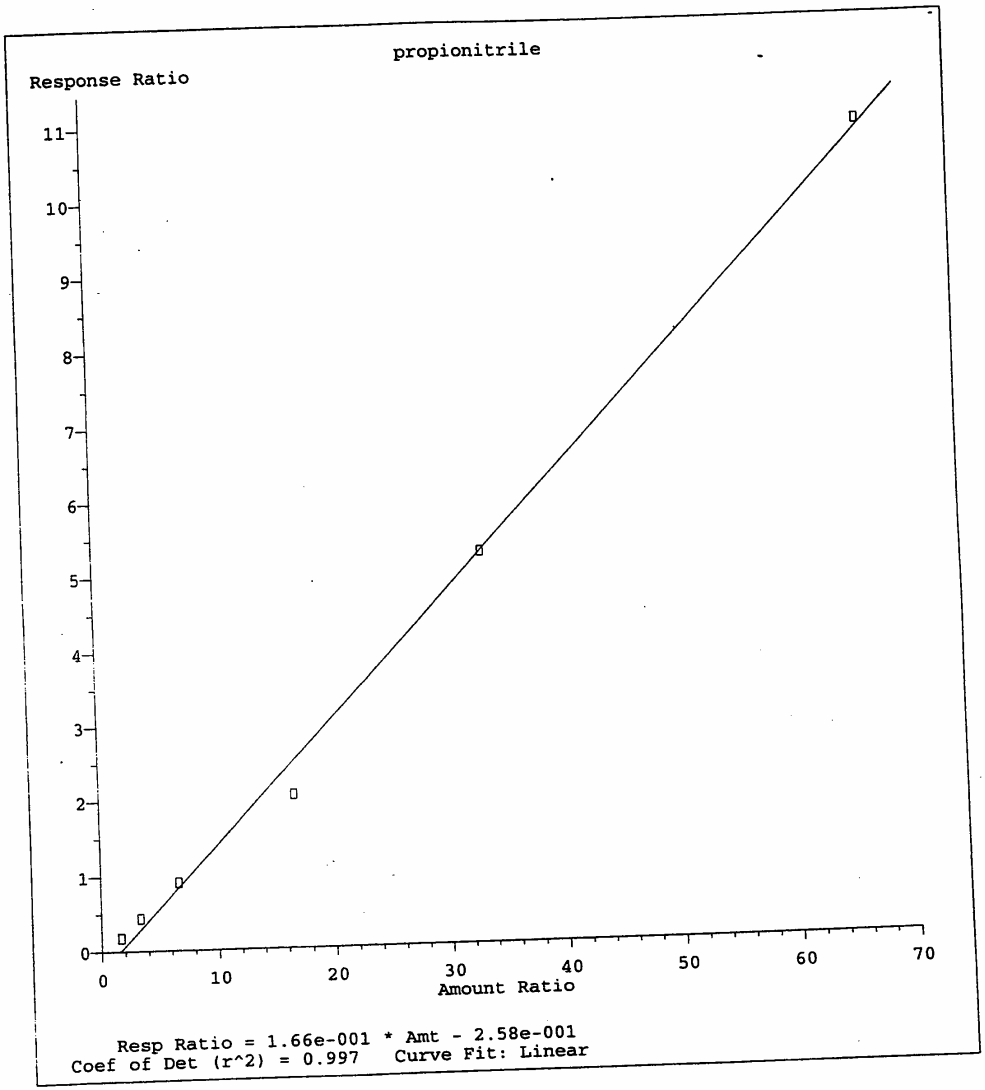
Calibration Files
5 =A0050219.D 10 =A0100219.D 20 =A0200219.D
50 =A0500219.D 100 =A1000219.D 200 =A2000219.D

		Compound	5	10	20	50	100	200	Avg	%RSD
1)	I	Pentafluorobenzene	----------ISTD----------							
)		ethanol	0.005	0.005	0.001	0.003	0.003	0.003	0.003#	42.88
)		acetonitrile	0.154	0.168	0.165	0.136	0.164	0.174	0.160	8.53
4)		isopropyl alcohol	0.114	0.156	0.155	0.136	0.164	0.174	0.150	14.48
5)		t-butyl alcohol	0.093	0.116	0.116	0.102	0.127	0.138	0.115	14.28
)		bromoethane	0.602	0.649	0.662	0.630	0.684	0.668	0.649	4.50
)		trichlorotrifluoroe	0.530	0.570	0.591	0.551	0.608	0.598	0.575	5.19
8)		3-chloro-1-propene	2.329	2.443	2.478	2.338	2.516	2.443	2.425	3.12
9)	I	propionitrile	0.108	0.131	0.136	0.123	0.158	0.164	0.137	15.38
1)		hexane	1.487	1.592	1.602	1.515	1.654	1.624	1.579	4.09
)	I	methacrylonitrile	0.566	0.688	0.724	0.622	0.732	0.688	0.670	9.55
12)		ethyl acetate	0.921	1.107	1.168	0.999	1.209	1.082	1.081	9.87
13)		isobutanol	0.921	1.107	1.168	0.999	1.209	1.082	1.081	9.87
)		tetrahydrofuran	0.289	0.317	0.328	0.278	0.382	0.375	0.328	13.16
)		cyclohexane	1.734	1.803	1.873	1.776	1.912	1.878	1.829	3.75
16)	s	1,2-Dichloroethane-	0.954	0.990	1.003	0.982	1.027	1.008	0.994	2.50
17)	S	Dibromofluoromethan	0.971	0.990	0.986	0.981	0.994	0.982	0.984	0.83
)	I	1,4-Difluorobenzene	----------ISTD----------							
19)		1,4-dioxane	0.007	0.012	0.012	0.013	0.015	0.022	0.013	37.36
20)		methyl methacrylate	1.022	1.284	1.416	1.255	1.497	1.530	1.334	14.12
)	S	Toluene-d8	5.108	5.079	5.125	5.160	5.084	5.148	5.117	0.65
)		ethyl methacrylate	3.670	2.004	2.074	1.909	2.194	2.223	2.346	28.11
23)		butyl acetate	2.253	2.667	2.957	2.554	2.660	1.841	2.489	15.65
24)		cis-1,4-Dichloro-2-	0.291	0.370	0.428	0.405	0.503	0.535	0.422	21.09
)		cyclohexanone	0.043	0.056	0.057	0.053	0.070	0.080	0.060	21.86
)		trans-1,4-Dichloro-	0.422	0.403	0.468	0.445	0.557	0.597	0.482	16.14
27)	I	Chlorobenzene-d5	----------ISTD----------							
)		DIBK	2.287	2.601	2.783	2.540	2.945	2.882	2.673	9.19
29)		1,4-Dichlorobenzene-d	----------ISTD----------							
)		Ethylbenzene-d10	----------ISTD----------							
1)	S	Bromofluorobenzene	0.296	0.298	0.306	0.305	0.308	0.308	0.304	1.78
2)		pentachloroethane	0.096	0.103	0.134	0.119	0.099	0.123	0.113	13.63
33)		bis-2-chloromethyl	0.076	0.098	0.106	0.091	0.118	0.119	0.101	16.42
)		2-methylnaphthalene	0.328	0.198	0.178	0.159	0.192	0.185	0.207	29.40

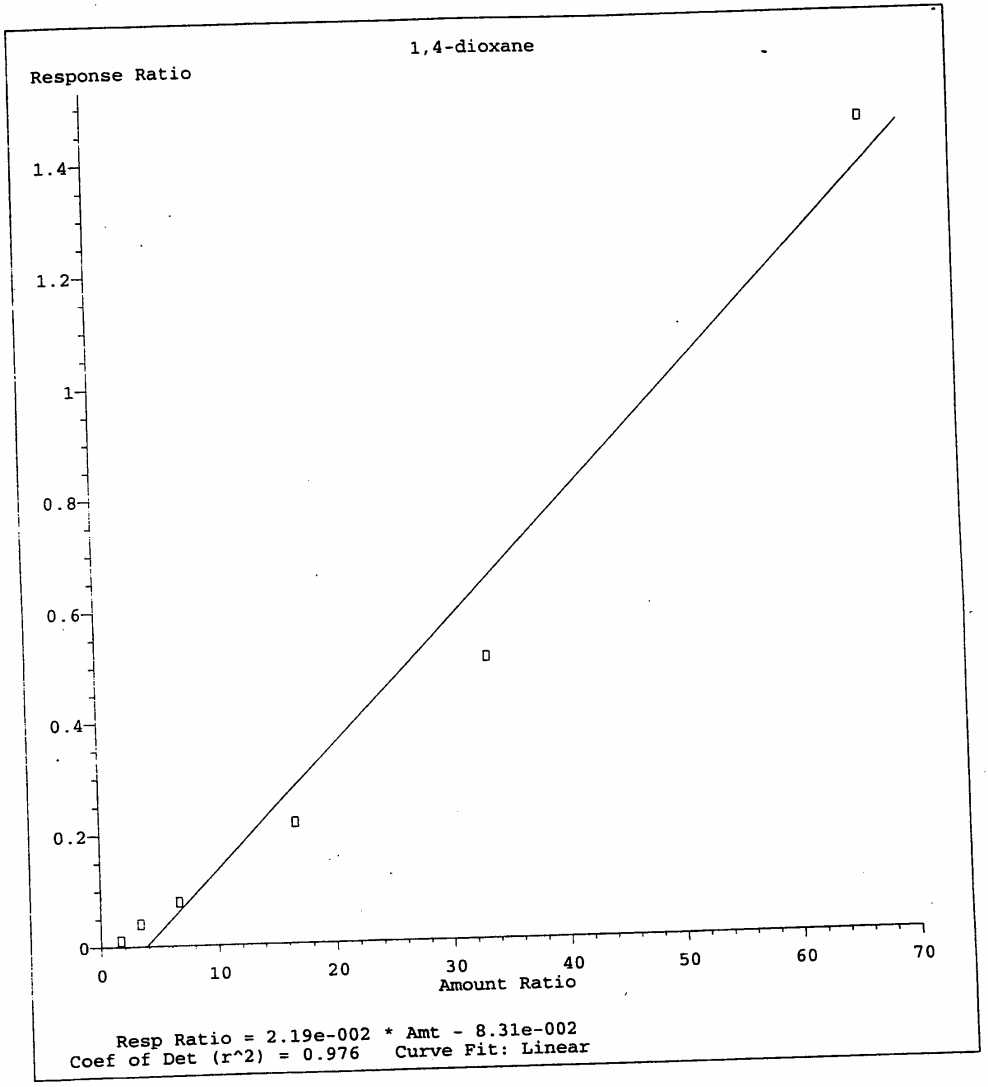
#) = Out of Range



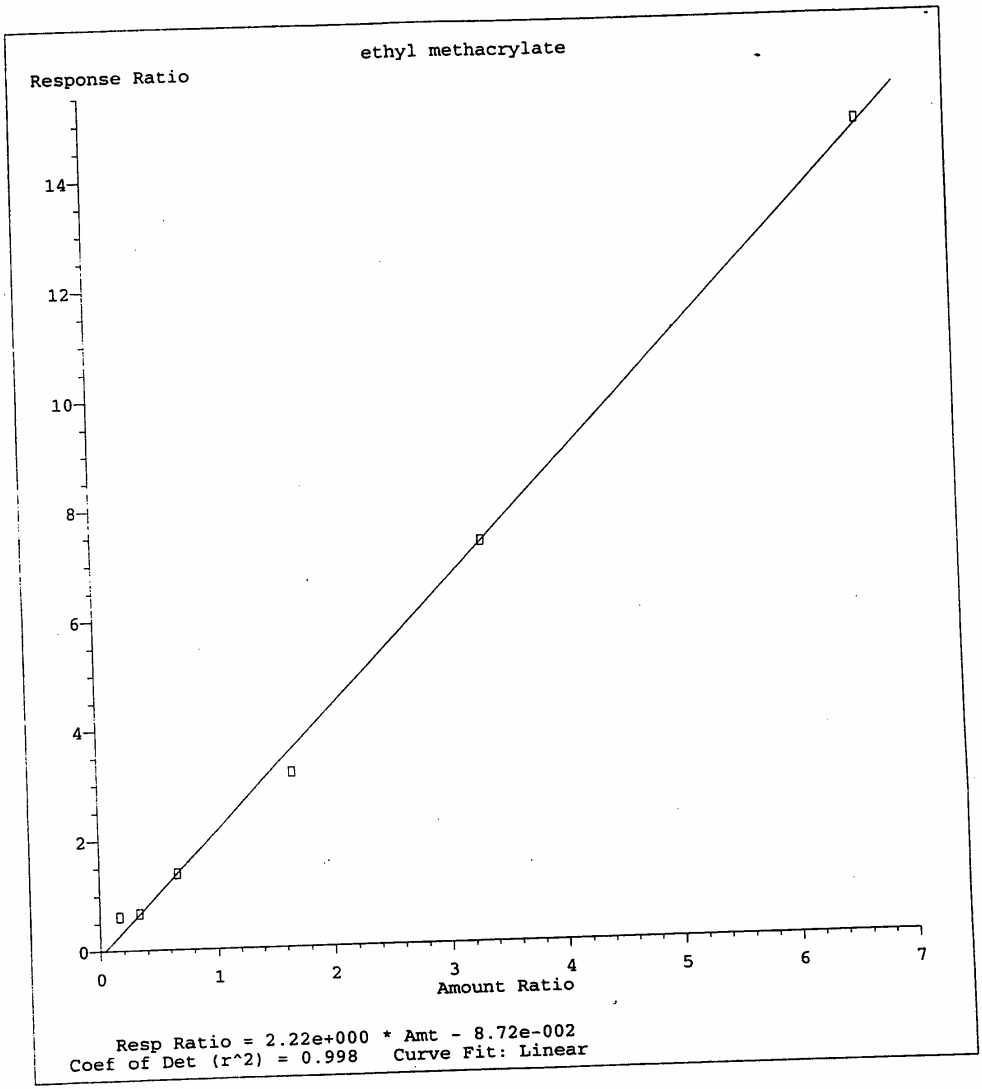
Method Name: C:\HPCHEM\1\METHODS\APS0219.M
Calibration Table Last Updated: Thu Feb 24 14:58:55 2000



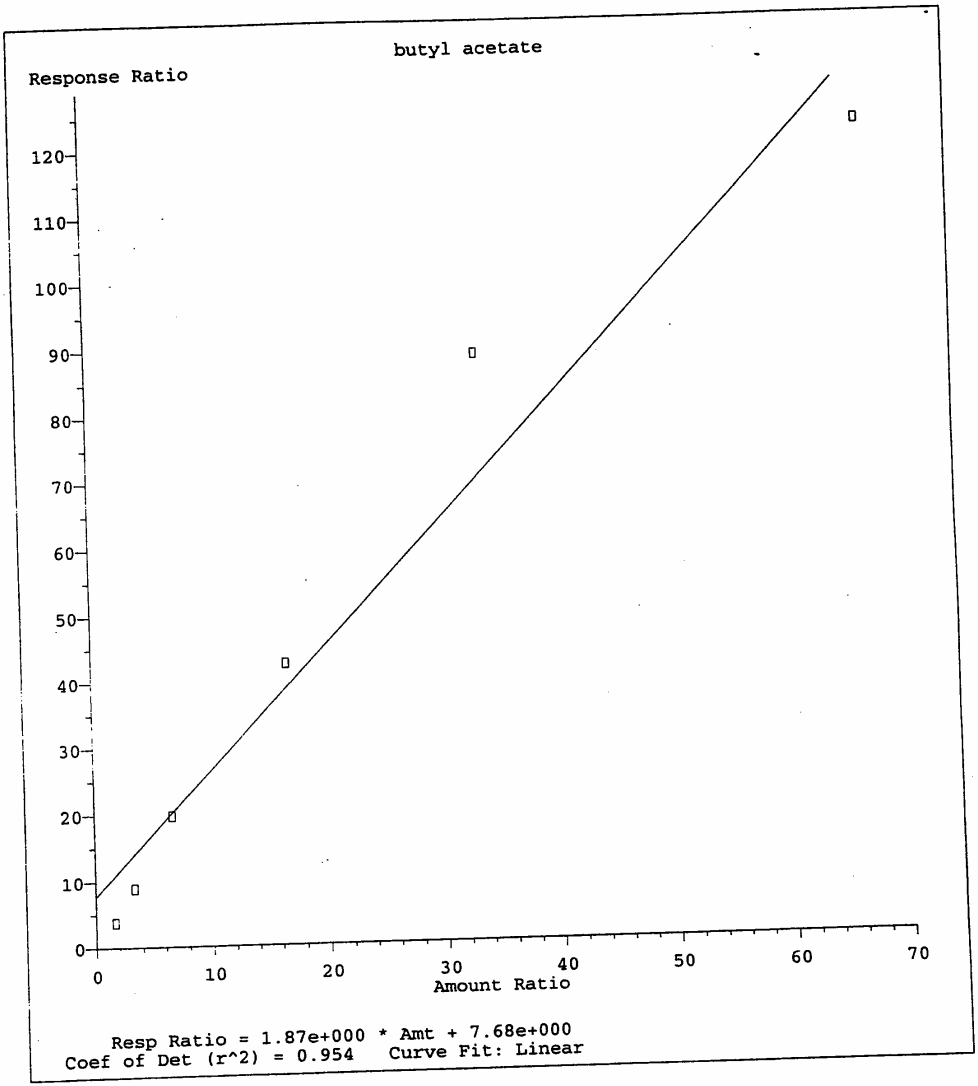
Method Name: C:\HPCHEM\1\METHODS\APS0219.M
Calibration Table Last Updated: Thu Feb 24 15:00:04 2000



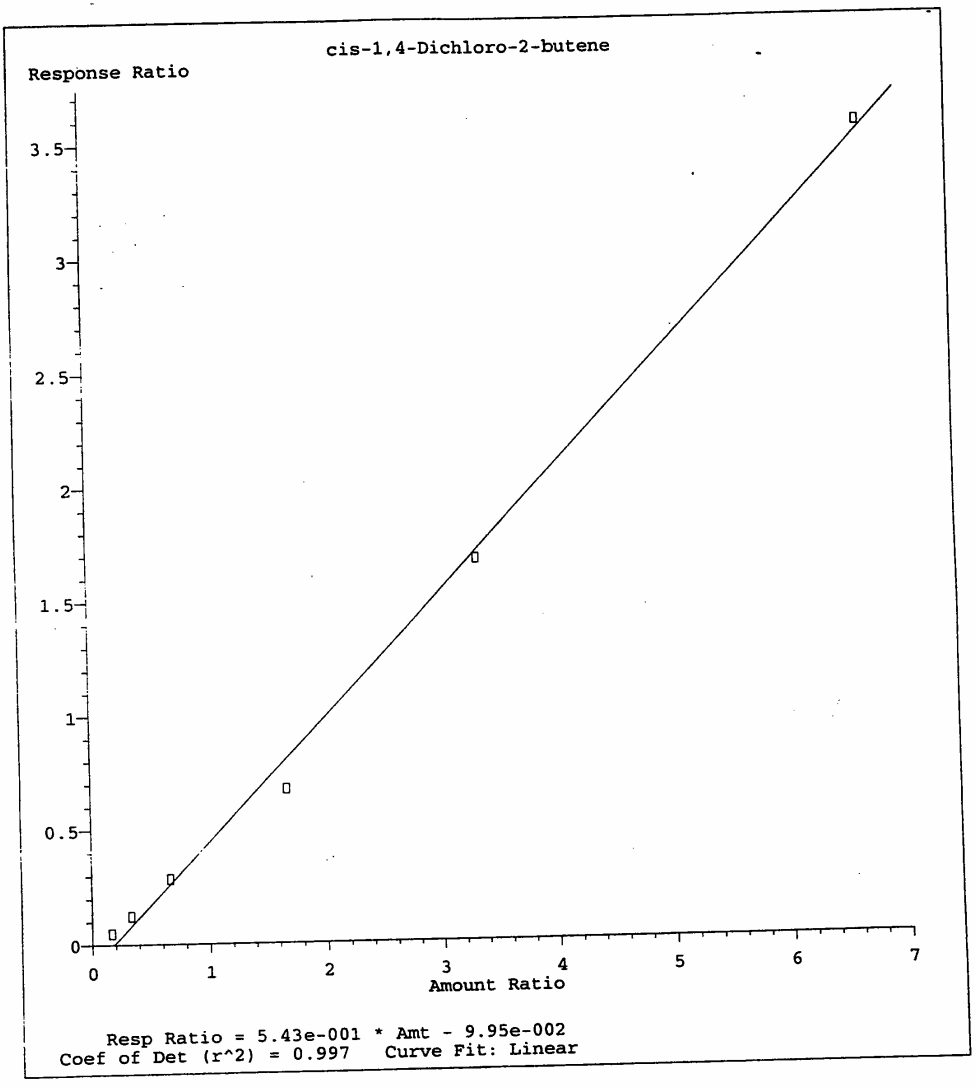
Method Name: C:\HPCHEM\1\METHODS\APS0219.M
Calibration Table Last Updated: Thu Feb 24 15:02:33 2000



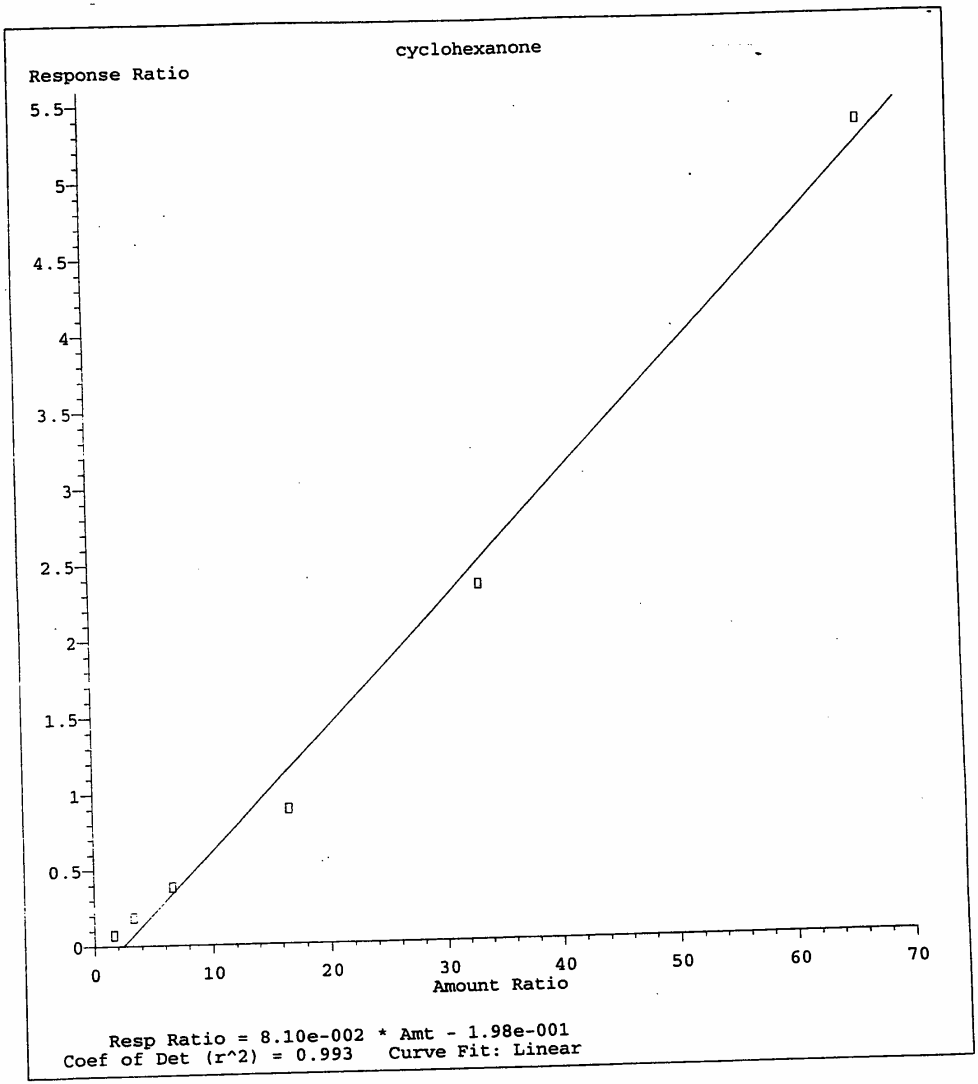
Method Name: C:\HPCHEM\1\METHODS\APS0219.M
Calibration Table Last Updated: Thu Feb 24 15:03:18 2000



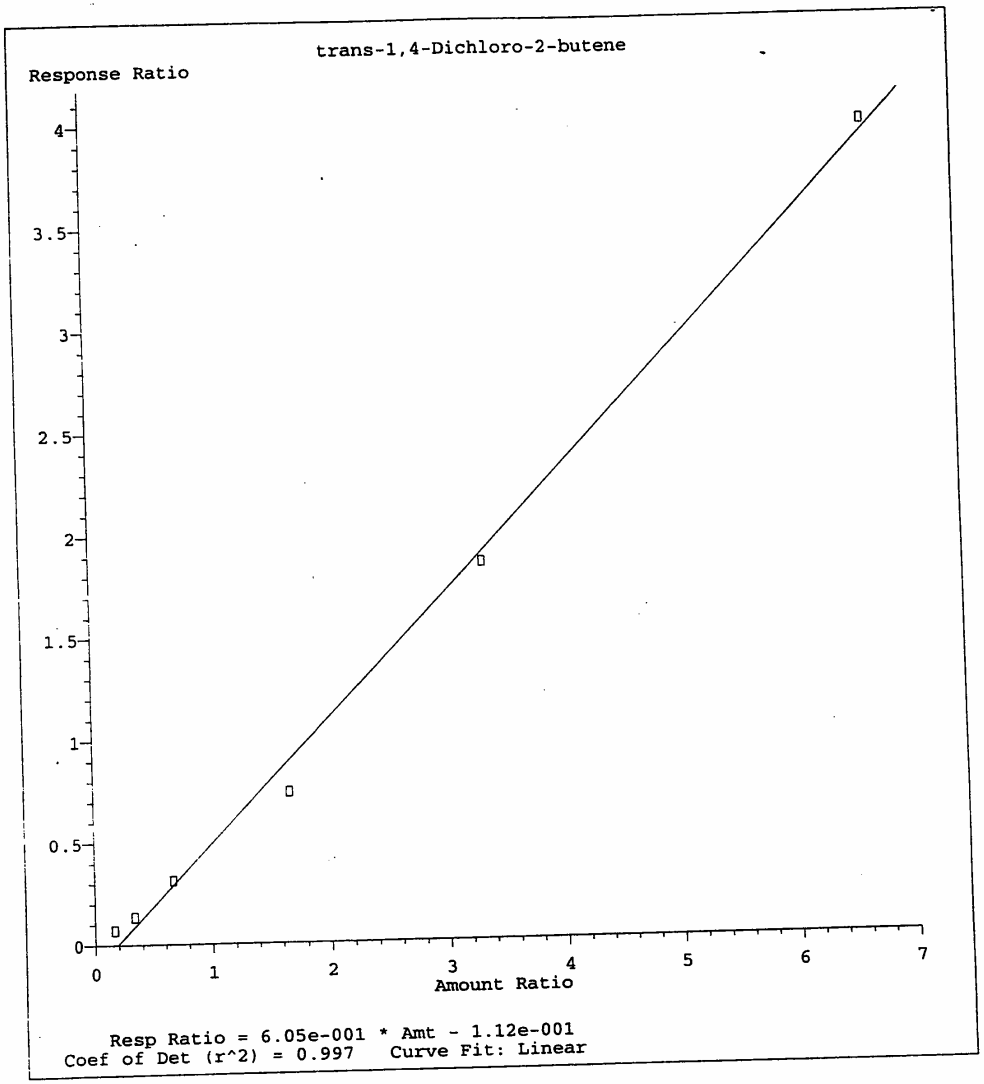
Method Name: C:\HPCHEM\1\METHODS\APS0219.M
Calibration Table Last Updated: Thu Feb 24 15:03:27 2000



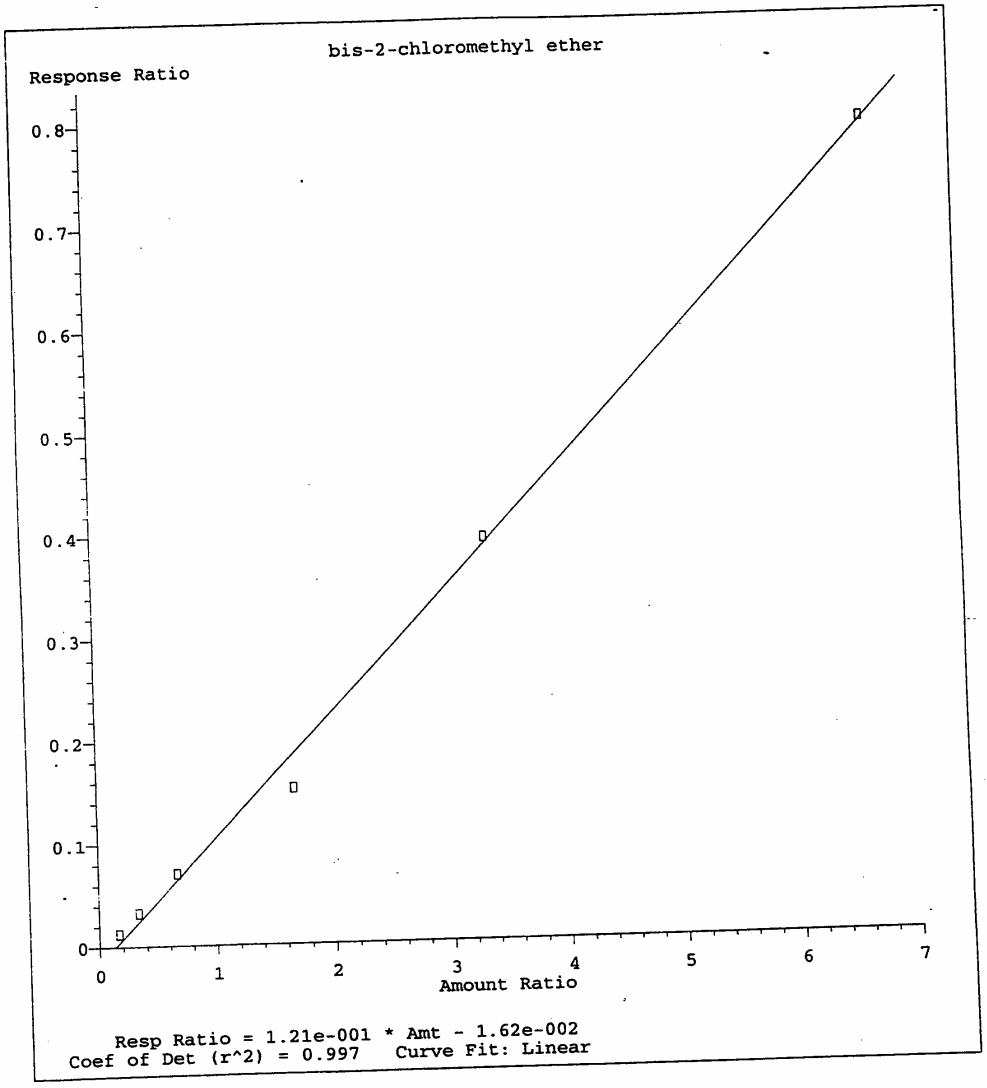
Method Name: C:\HPCHEM\1\METHODS\APS0219.M
Calibration Table Last Updated: Thu Feb 24 15:03:52 2000



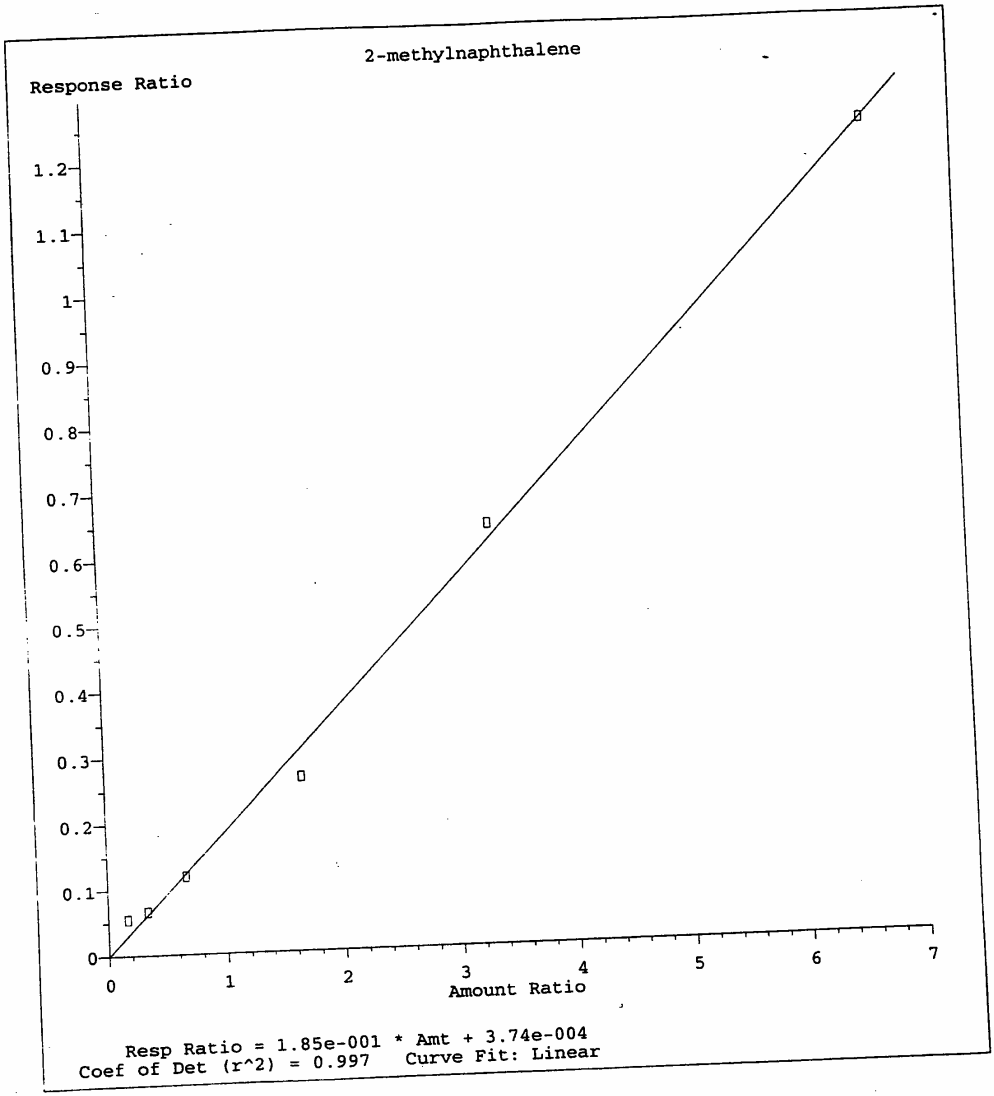
Method Name: C:\HPCHEM\1\METHODS\APS0219.M
Calibration Table Last Updated: Thu Feb 24 15:04:03 2000



Method Name: C:\HPCHEM\1\METHODS\APS0219.M
Calibration Table Last Updated: Thu Feb 24 15:04:22 2000



Method Name: C:\HPCHEM\1\METHODS\APS0219.M
Calibration Table Last Updated: Thu Feb 24 15:04:55 2000



Method Name: C:\HPCHEM\1\METHODS\APS0219.M
Calibration Table Last Updated: Thu Feb 24 15:05:09 2000

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\021400\A0050219.D
Acq On : 20 Feb 2000 12:37 pm
Sample : 1
Misc : app ix 5 ug/l
MS Integration Params: rteint.p
Quant Time: Feb 24 14:14 19100

Vial: 2
Operator:
Inst : HP-10
Multiplr: 1.00

Quant Results File: APS0131.RES

Quant Method : C:\HPCHEM\1\METHODS\APS0131.M (RTE Integrator)
Title : APPIX IX MIX
Last Update : Wed Feb 16 11:20:14 2000
Response via : Initial Calibration
DataAcq Meth : S021800

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Pentafluorobenzene	11.89	99	278921	30.00 ug/L	0.00
18) 1,4-Difluorobenzene	13.18	63	180917	30.00 ug/L	0.00
27) Chlorobenzene-d5	17.85	119	222372	30.00 ug/L	-0.02
29) 1,4-Dichlorobenzene-d4	21.46	152	330209	30.00 ug/L	-0.02
30) Ethylbenzene-d10	18.05	98	1157845	30.00 ug/L	-0.02
System Monitoring Compounds					
16) 1,2-Dichloroethane-d4	11.94	65	266141	28.95 ug/L	-0.01
Spiked Amount 30.000			Recovery = 96.50%		
17) Dibromofluoromethane	11.24	111	270776	32.00 ug/L	0.00
Spiked Amount 30.000			Recovery = 106.67%		
21) Toluene-d8	15.80	98	924142	33.20 ug/L	-0.02
Spiked Amount 30.000			Recovery = 110.67%		
31) Bromofluorobenzene	19.58	95	342399	29.74 ug/L	-0.01
Spiked Amount 30.000			Recovery = 99.13%		

Target Compounds					Qvalue
2) ethanol	6.06	41	214	53.58 ug/L #	100
3) acetonitrile	7.16	41	71739m	119.01 ug/L	
4) isopropyl alcohol	7.16	41	52949m	107.30 ug/L	
5) t-butyl alcohol	8.07	59	43259	119.44 ug/L #	1
6) bromoethane	8.07	108	28007	14.91 ug/L	92
7) trichlorotrifluoroethane	8.35	151	24659	12.69 ug/L #	71
8) 3-chloro-1-propene (allyl	8.42	41	108278	11.58 ug/L #	6
9) propionitrile	9.88	54	50106m	123.11 ug/L	
10) hexane	10.47	57	69144	11.66 ug/L #	73
11) methacrylonitrile	10.68	41	263298	94.63 ug/L #	62
12) ethyl acetate	11.06	43	428154	77.63 ug/L	96
13) isobutanol	11.06	43	428154	77.63 ug/L #	15
14) tetrahydrofuran	11.58	42	134119	123.16 ug/L	93
15) cyclohexane	12.62	56	80618	11.66 ug/L #	67
19) 1,4-dioxane	14.06	88	1975m	119.95 ug/L	
20) methyl methacrylate	14.10	41	30831	11.68 ug/L #	91
22) ethyl methacrylate	16.02	69	110660	14.36 ug/L #	96
23) butyl acetate	16.66	43	679310	5.13 ug/L	100
24) cis-1,4-Dichloro-2-butene	18.83	75	8768	15.26 ug/L #	56
25) cyclohexanone	18.97	55	12987	127.30 ug/L #	80
26) trans-1,4-Dichloro-2-buten	19.25	75	12734m	15.53 ug/L	
28) DIBK	20.26	57	84759	12.14 ug/L	99
32) pentachloroethane	20.65	117	18604	12.65 ug/L #	82
33) bis-2-chloromethyl ether	21.94	45	14634m	13.72 ug/L	
34) 2-methylnaphthalene	29.31	142	63272	23.00 ug/L	94

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

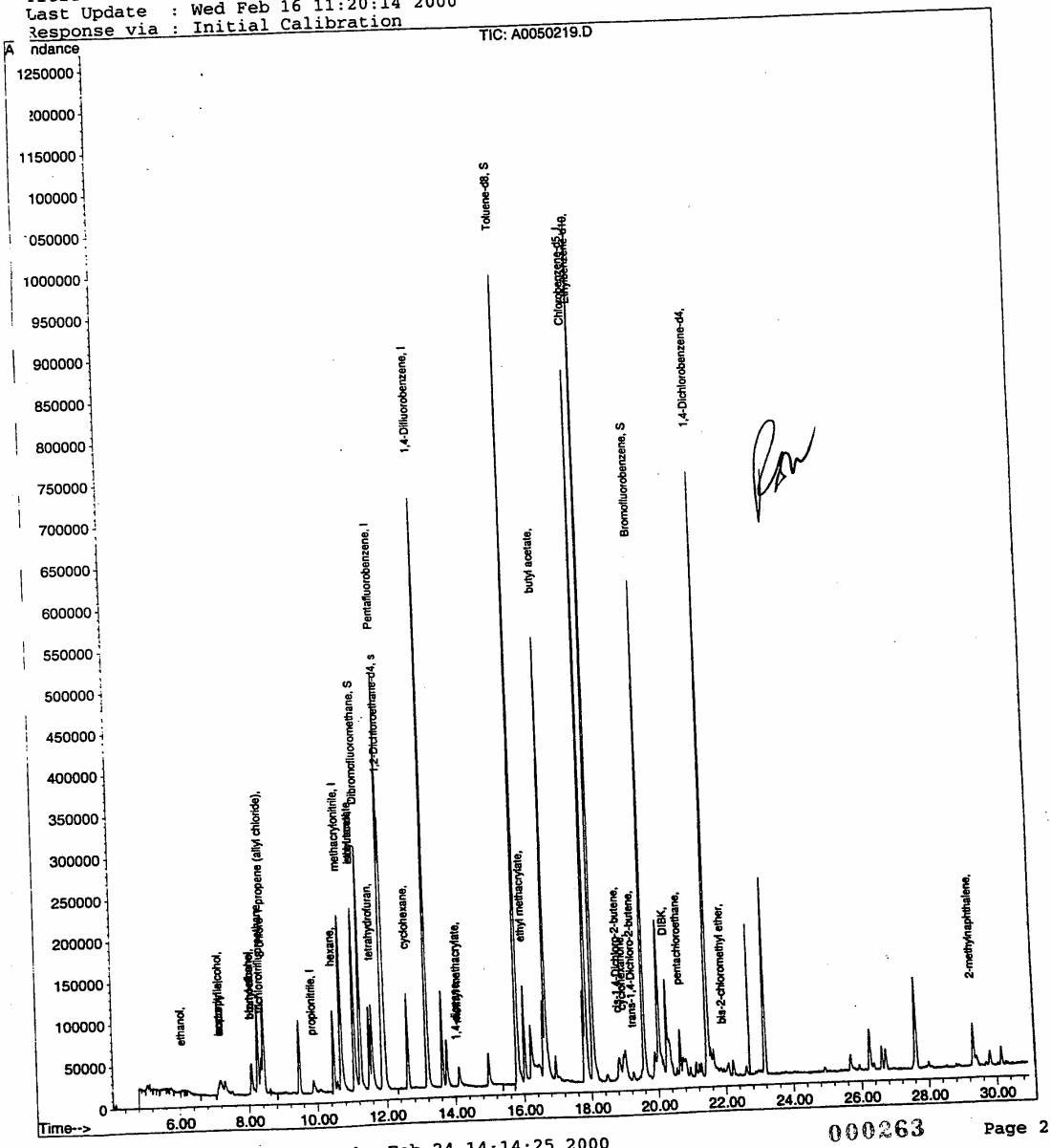
Quantitation Report

Data File : C:\HPCHEM\1\DATA\021400\A0050219.D
Acq On : 20 Feb 2000 12:37 pm
Sample : 1
Misc : app ix 5 ug/l
MS Integration Params: rteint.p
Quant Time: Feb 24 14:14 19100

Vial: 2
Operator:
Inst : HP-10
Multiplr: 1.00

Quant Results File: APS0131.RES

Method : C:\HPCHEM\1\METHODS\APS0131.M (RTE Integrator)
Title : APPIX IX MIX
Last Update : Wed Feb 16 11:20:14 2000
Response via : Initial Calibration

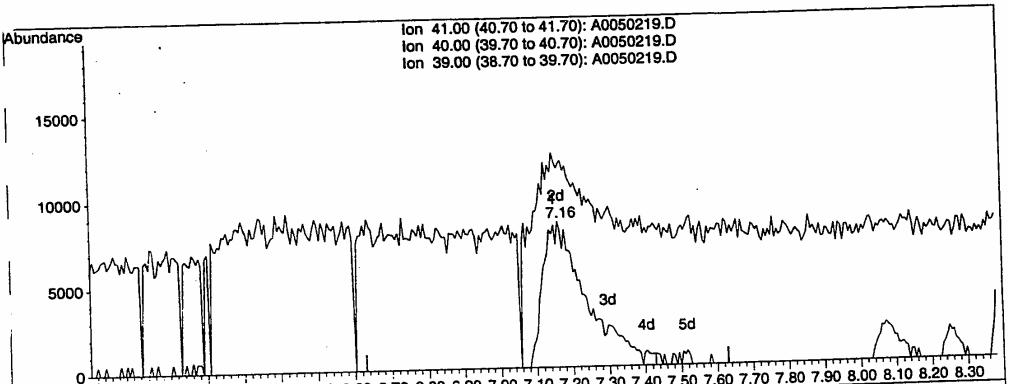


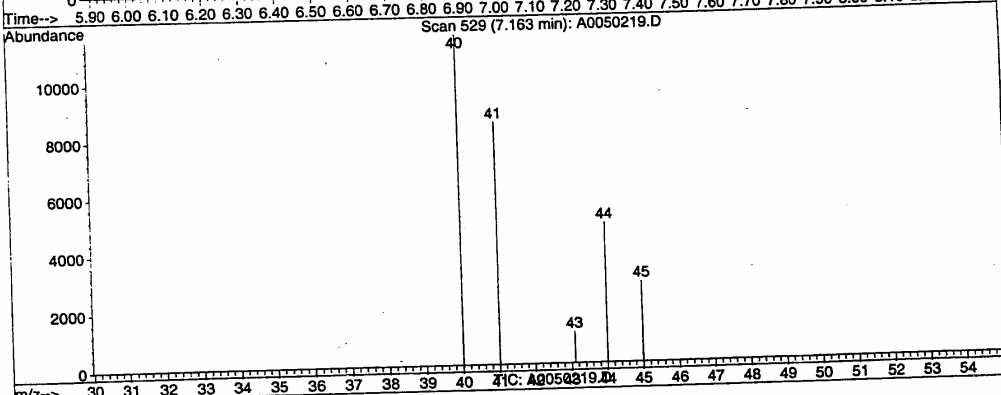
Quantitation Report

Data File : C:\HPCHEM\1\DATA\021400\A0050219.D
Acq On : 20 Feb 2000 12:37 pm
Sample : 1
Misc : app ix 5 ug/l
Quant Time: Feb 24 14:12 19100

Vial: 2
Operator:
Inst : HP-10
Multiplr: 1.00
Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\APS0131.M (RTE Integrator)
Title : APPIX IX MIX
Last Update : Wed Feb 16 11:20:14 2000
Response via : Multiple Level Calibration





(3) acetonitrile

7.16min 119.01ug/L m

response 71739

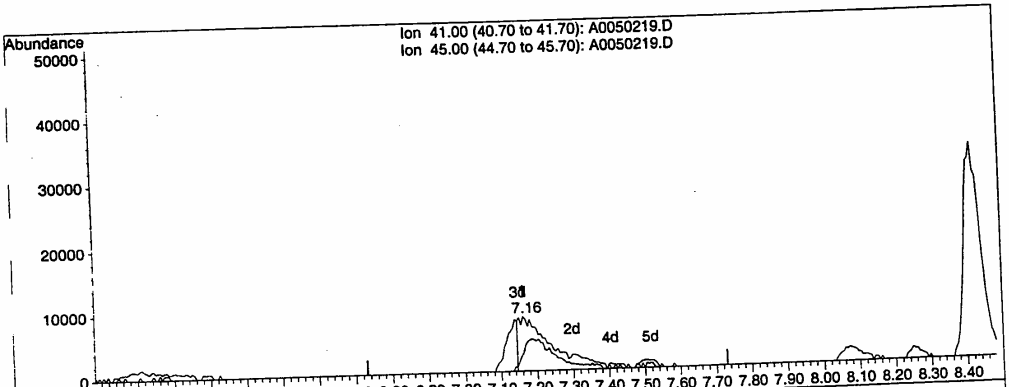
Ion	Exp%	Act%
41.00	100	100
40.00	61.50	43.25#
39.00	27.40	0.00#
0.00	0.00	0.00

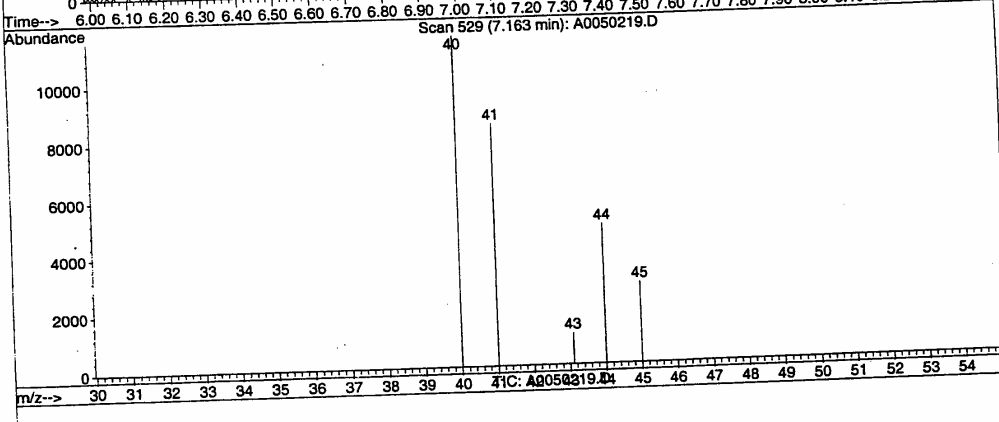
Quantitation Report

Data File : C:\HPCHEM\1\DATA\021400\A0050219.D
Acq On : 20 Feb 2000 12:37 pm
Sample : 1
Misc : app ix 5 ug/l
Quant Time: Feb 24 14:12 19100

Vial: 2
Operator:
Inst : HP-10
Multiplr: 1.00
Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\APS0131.M (RTE Integrator)
Title : APPIX IX MIX
Last Update : Wed Feb 16 11:20:14 2000
Response via : Multiple Level Calibration





(4) isopropyl alcohol

7.16min 107.30ug/L m

response 52949

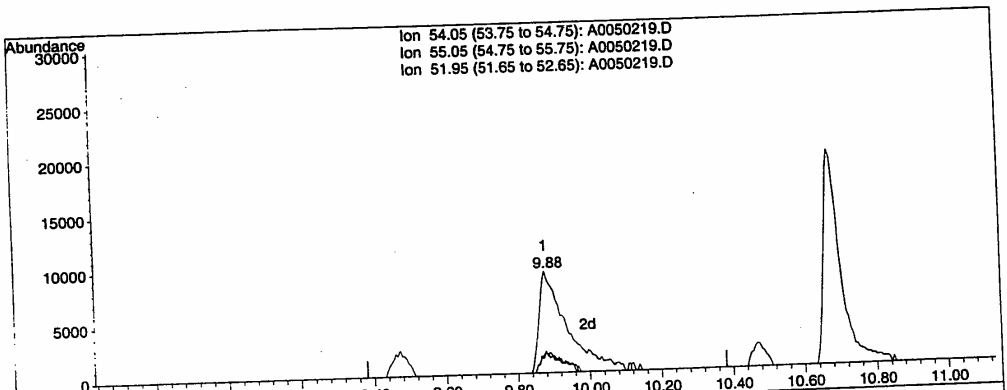
Ion	Exp%	Act%
41.00	100	100
45.00	0.00	54.59#
0.00	0.00	0.00
0.00	0.00	0.00

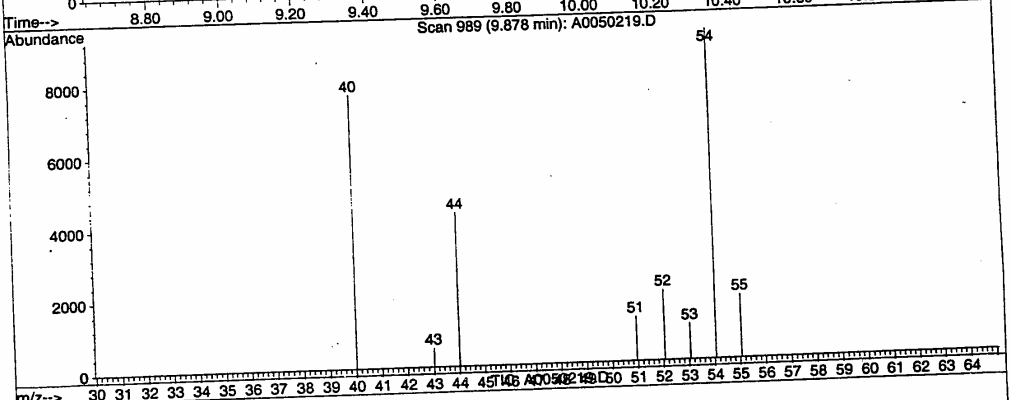
Quantitation Report

Data File : C:\HPCHEM\1\DATA\021400\A0050219.D
Acq On : 20 Feb 2000 12:37 pm
Sample : 1
Misc : app ix 5 ug/l
Quant Time: Feb 24 14:13 19100

Vial: 2
Operator:
Inst : HP-10
Multiplr: 1.00
Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\APS0131.M (RTE Integrator)
Title : APPIX IX MIX
Last Update : Wed Feb 16 11:20:14 2000
Response via : Multiple Level Calibration





(9) propionitrile (I)

9.88min 123.11ug/L m

response 50106

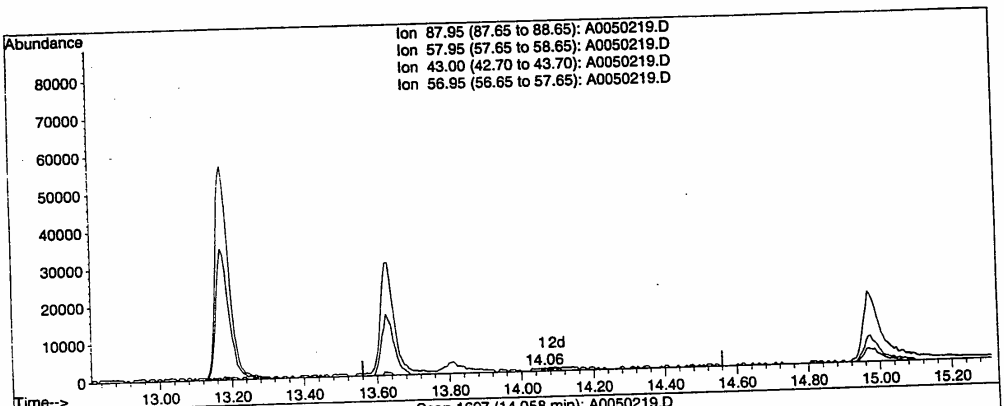
Ion	Exp%	Act%
54.05	100	100
55.05	15.70	14.56
51.95	24.40	11.85#
0.00	0.00	0.00

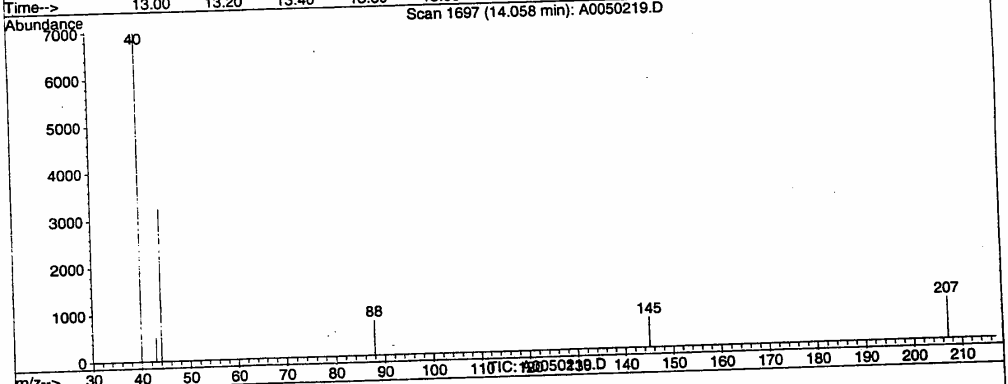
Quantitation Report

Data File : C:\HPCHEM\1\DATA\021400\A0050219.D
Acq On : 20 Feb 2000 12:37 pm
Sample : 1
Misc : app ix 5 ug/l
Quant Time: Feb 24 14:13 19100

Vial: 2
Operator:
Inst : HP-10
Multiplr: 1.00
Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\APS0131.M (RTE Integrator)
Title : APPIX IX MIX
Last Update : Wed Feb 16 11:20:14 2000
Response via : Multiple Level Calibration





(19) 1,4-dioxane

14.06min 119.95ug/L m

response 1975

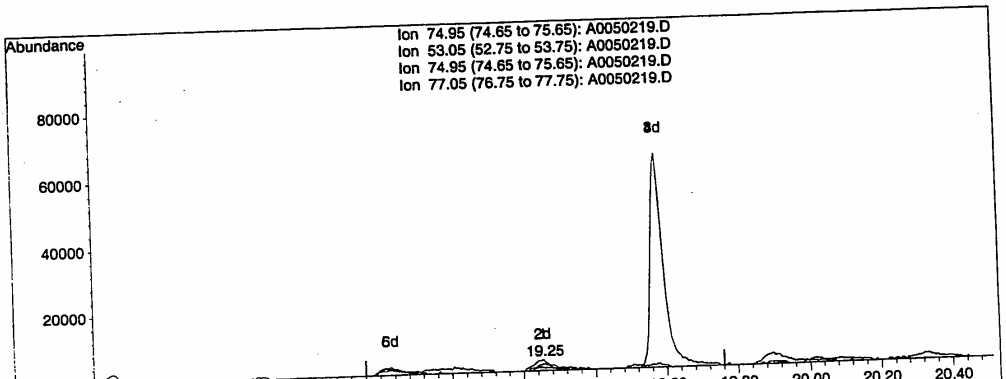
Ion	Exp%	Act%
87.95	100	100
57.95	52.00	29.32#
43.00	38.30	0.00#
56.95	18.30	0.00#

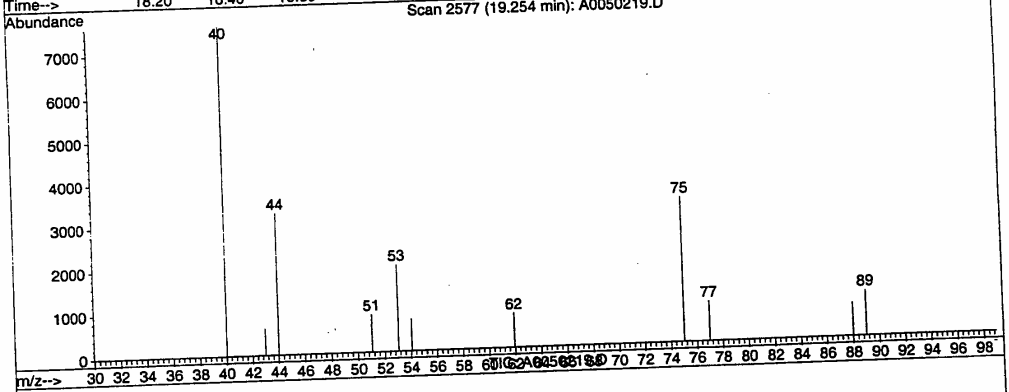
Quantitation Report

Data File : C:\HPCHEM\1\DATA\021400\A0050219.D
Acq On : 20 Feb 2000 12:37 pm
Sample : 1
Misc : app ix 5 ug/l
Quant Time: Feb 24 14:13 19100

Vial: 2
Operator:
Inst : HP-10
Multiplr: 1.00
Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\APS0131.M (RTE Integrator)
Title : APPIX IX MIX
Last Update : Wed Feb 16 11:20:14 2000
Response via : Multiple Level Calibration





(26) trans-1,4-Dichloro-2-butene

19.25min 15.53ug/L m

response 12734

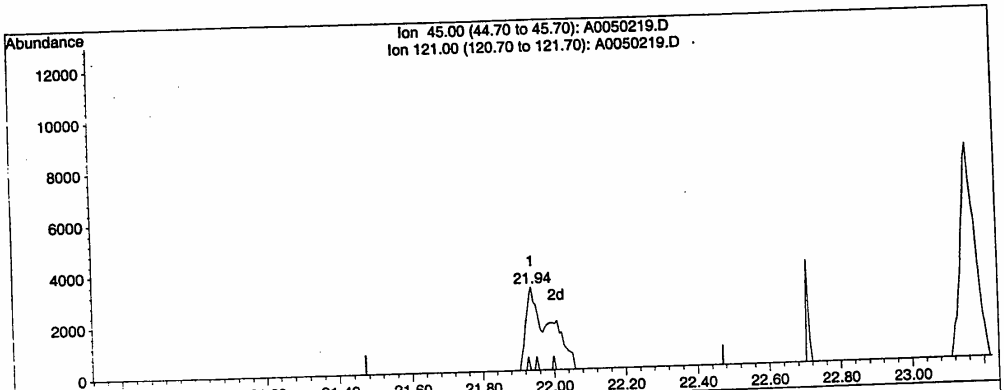
Ion	Exp%	Act%
74.95	100	100
53.05	0.00	43.67#
74.95	100.00	85.07
77.05	33.50	10.62#

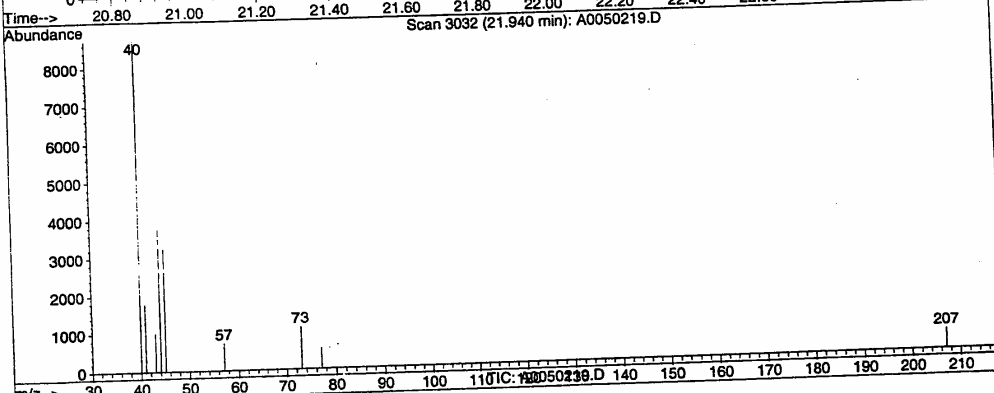
Quantitation Report

Data File : C:\HPCHEM\1\DATA\021400\A0050219.D
Acq On : 20 Feb 2000 12:37 pm
Sample : 1
Misc : app ix 5 ug/l
Quant Time: Feb 24 14:14 19100

Vial: 2
Operator:
Inst : HP-10
Multiplr: 1.00
Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\APS0131.M (RTE Integrator)
Title : APPIX IX MIX
Last Update : Wed Feb 16 11:20:14 2000
Response via : Multiple Level Calibration





(33) bis-2-chloromethyl ether

21.94min 13.72ug/L m

response 14634

Ion	Exp%	Act%
45.00	100	100
121.00	23.60	1.30#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\021400\A0100219.D
Acq On : 20 Feb 2000 1:13 pm
Sample : 1
Misc : app ix 10 ug/l
MS Integration Params: rteint.p
Quant Time: Feb 24 14:18 19100

Vial: 3
Operator:
Inst : HP-10
Multiplr: 1.00

Quant Results File: APS0131.RES

Quant Method : C:\HPCHEM\1\METHODS\APS0131.M (RTE Integrator)
Title : APPIX IX MIX
Last Update : Wed Feb 16 11:20:14 2000
Response via : Initial Calibration
DataAcq Meth : S021800

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Pentafluorobenzene	11.89	99	272660	30.00 ug/L	-0.01
18) 1,4-Difluorobenzene	13.18	63	180598	30.00 ug/L	-0.01
27) Chlorobenzene-d5	17.85	119	221977	30.00 ug/L	-0.02
29) 1,4-Dichlorobenzene-d4	21.46	152	334585	30.00 ug/L	-0.02
30) Ethylbenzene-d10	18.05	98	1134305	30.00 ug/L	-0.02
System Monitoring Compounds					
16) 1,2-Dichloroethane-d4	11.94	65	269979	30.04 ug/L	-0.01
Spiked Amount 30.000			Recovery = 100.13%		
17) Dibromofluoromethane	11.24	111	269954	32.63 ug/L	0.00
Spiked Amount 30.000			Recovery = 108.77%		
21) Toluene-d8	15.80	98	917241	33.01 ug/L	-0.02
Spiked Amount 30.000			Recovery = 110.03%		
31) Bromofluorobenzene	19.58	95	338382	30.00 ug/L	-0.01
Spiked Amount 30.000			Recovery = 100.00%		

Target Compounds					Qvalue
2) ethanol	6.09	41	439	112.44 ug/L #	100
3) acetonitrile	7.14	41	152967m	156.49 ug/L	
4) isopropyl alcohol	7.14	41	141896	224.06 ug/L #	100
5) t-butyl alcohol	8.06	59	105054	161.43 ug/L #	1
6) bromoethane	8.07	108	58975	17.73 ug/L	92
7) trichlorotrifluoroethane	8.35	151	51828	15.47 ug/L #	73
8) 3-chloro-1-propene (allyl	8.41	41	222055	13.98 ug/L #	6
9) propionitrile	9.86	54	119099	156.80 ug/L #	93
10) hexane	10.47	57	144714	14.19 ug/L #	71
11) methacrylonitrile	10.67	41	625391	131.35 ug/L #	62
12) ethyl acetate	11.05	43	1005683	118.32 ug/L #	92
13) isobutanol	11.05	43	1005683	118.32 ug/L #	15
14) tetrahydrofuran	11.57	42	287940	152.10 ug/L	97
15) cyclohexane	12.62	56	163878	14.08 ug/L #	68
19) 1,4-dioxane	14.06	88	7301	163.24 ug/L #	53
20) methyl methacrylate	14.09	41	77281	14.63 ug/L #	94
22) ethyl methacrylate	16.02	69	120652	14.82 ug/L #	95
23) butyl acetate	16.66	43	1605469	65.69 ug/L	99
24) cis-1,4-Dichloro-2-butene	18.80	75	22276	18.05 ug/L #	58
25) cyclohexanone	18.95	55	33541	165.00 ug/L #	84
26) trans-1,4-Dichloro-2-buten	19.25	75	24234	17.81 ug/L #	96
28) DIBK	20.26	57	192481	14.67 ug/L	99
32) pentachloroethane	20.66	117	38879	14.74 ug/L #	87
33) bis-2-chloromethyl ether	21.94	45	37001m	17.46 ug/L	
34) 2-methylnaphthalene	29.31	142	74846	24.58 ug/L	98

(#) = qualifier out of range (m) = manual integration
A0100219.D APS0219.M Thu Feb 24 14:19:29 2000

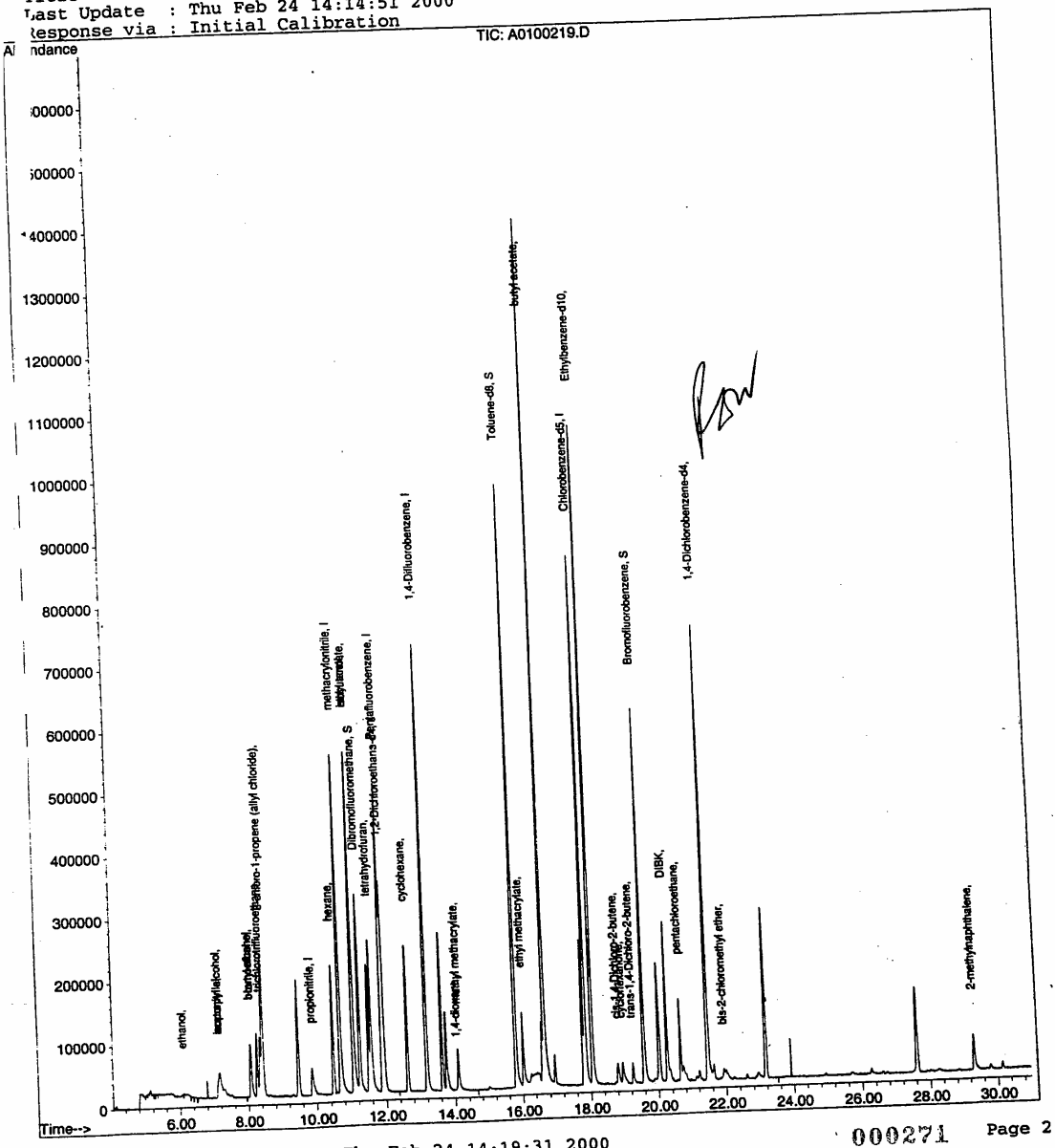
Quantitation Report

Data File : C:\HPCHEM\1\DATA\021400\A0100219.D
Acq On : 20 Feb 2000 1:13 pm
Sample : 1
Misc : app ix 10 ug/l
MS Integration Params: rteint.p
Quant Time: Feb 24 14:18 19100

Vial: 3
Operator:
Inst : HP-10
Multiplr: 1.00

Quant Results File: APS0131.RES

Method : C:\HPCHEM\1\METHODS\APS0219.M (RTE Integrator)
Title : APPIX IX MIX
Last Update : Thu Feb 24 14:14:51 2000
Response via : Initial Calibration

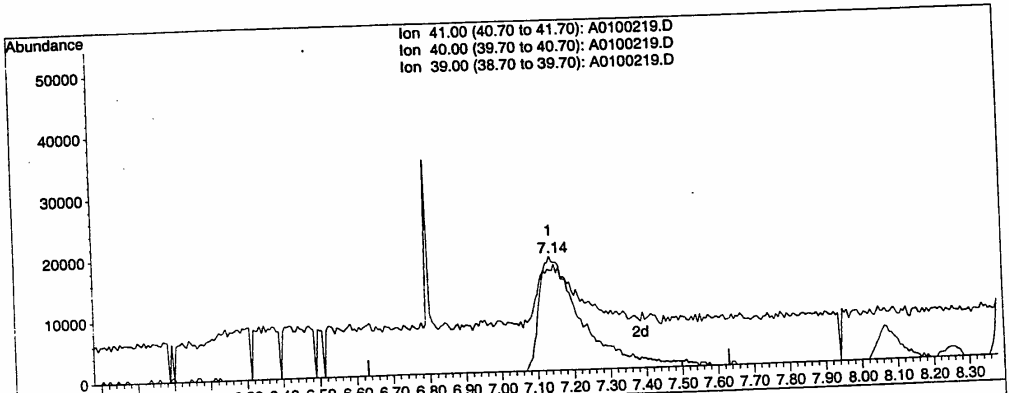


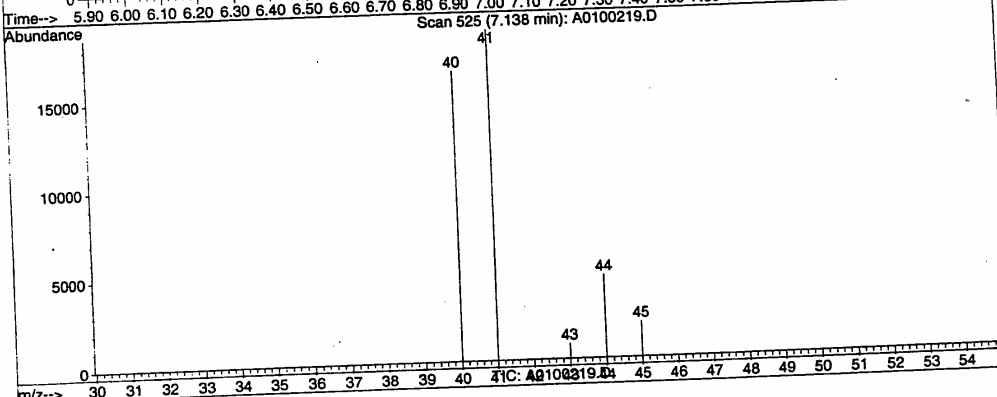
Quantitation Report

Data File : C:\HPCHEM\1\DATA\021400\A0100219.D
Acq On : 20 Feb 2000 1:13 pm
Sample : 1
Misc : app ix 10 ug/l
Quant Time: Feb 24 14:17 19100

Vial: 3
Operator:
Inst : HP-10
Multiplr: 1.00
Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\APS0219.M (RTE Integrator)
Title : APPIX IX MIX
Last Update : Thu Feb 24 14:14:51 2000
Response via : Multiple Level Calibration





(3) acetonitrile

7.14min 156.49ug/L m

response 152967

Ion	Exp%	Act%
41.00	100	100
40.00	61.50	49.97
39.00	27.40	0.00#
0.00	0.00	0.00

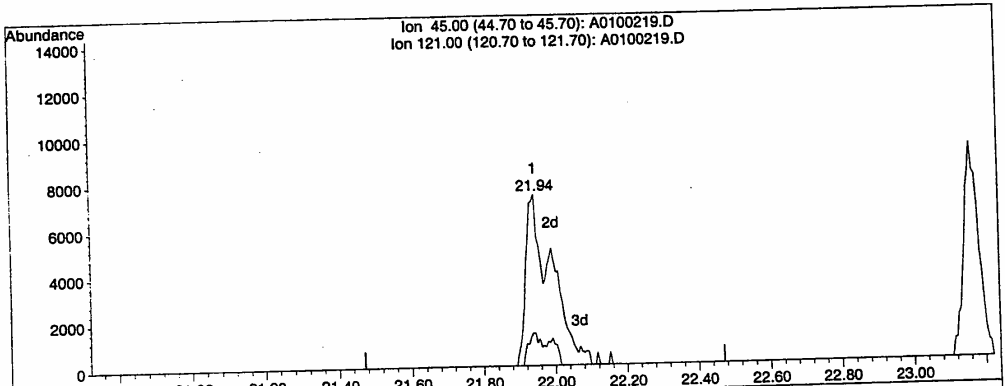
A0100219.D APS0219.M Thu Feb 24 14:17:40 2000

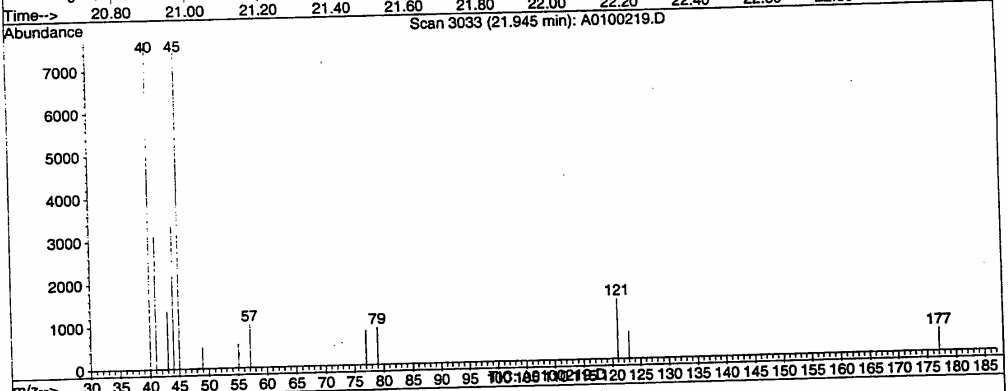
Quantitation Report

Data File : C:\HPCHEM\1\DATA\021400\A0100219.D
Acq On : 20 Feb 2000 1:13 pm
Sample : 1
Misc : app ix 10 ug/l
Quant Time: Feb 24 14:18 19100

Vial: 3
Operator:
Inst : HP-10
Multiplr: 1.00
Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\APS0219.M (RTE Integrator)
Title : APPIX IX MIX
Last Update : Thu Feb 24 14:14:51 2000
Response via : Multiple Level Calibration





(33) bis-2-chloromethyl ether

21.94min 17.46ug/L m

response 37001

Ion	Exp%	Act%
45.00	100	100
121.00	23.60	10.53#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\021400\A0200219.D
Acq On : 20 Feb 2000 1:50 pm
Sample : 1
Misc : app ix 20 ug/l
MS Integration Params: rteint.p
Quant Time: Feb 24 14:47 19100

Vial: 4
Operator:
Inst : HP-10
Multiplr: 1.00

Quant Results File: APS0131.RES

Quant Method : C:\HPCHEM\1\METHODS\APS0131.M (RTE Integrator)
Title : APPIX IX MIX
Last Update : Wed Feb 16 11:20:14 2000
Response via : Initial Calibration
DataAcq Meth : S021800

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Pentafluorobenzene	11.89	99	268261	30.00 ug/L	-0.01
18) 1,4-Difluorobenzene	13.18	63	174421	30.00 ug/L	-0.01
27) Chlorobenzene-d5	17.85	119	221401	30.00 ug/L	-0.02
29) 1,4-Dichlorobenzene-d4	21.46	152	332184	30.00 ug/L	-0.02
30) Ethylbenzene-d10	18.05	98	1113600	30.00 ug/L	-0.02
System Monitoring Compounds					
16) 1,2-Dichloroethane-d4	11.94	65	269000	30.42 ug/L	-0.01
Spiked Amount 30.000			Recovery = 101.40%		
17) Dibromofluoromethane	11.24	111	264605	32.51 ug/L	-0.01
Spiked Amount 30.000			Recovery = 108.37%		
21) Toluene-d8	15.80	98	893834	33.31 ug/L	-0.02
Spiked Amount 30.000			Recovery = 111.03%		
31) Bromofluorobenzene	19.58	95	341214	30.81 ug/L	-0.01
Spiked Amount 30.000			Recovery = 102.70%		
Target Compounds					Qvalue
2) ethanol	6.09	41	195	50.77 ug/L #	100
3) acetonitrile	7.13	41	295479m	223.18 ug/L	
4) isopropyl alcohol	7.13	41	277247	405.28 ug/L #	100
5) t-butyl alcohol	8.06	59	207734	232.39 ug/L #	1
6) bromoethane	8.07	108	118422	23.22 ug/L	93
7) trichlorotrifluoroethane	8.35	151	105630	21.03 ug/L #	74
8) 3-chloro-1-propene (allyl	8.41	41	443249	18.69 ug/L #	6
9) propionitrile	9.85	54	243899	218.70 ug/L #	92
10) hexane	10.47	57	286431	18.99 ug/L #	70
11) methacrylonitrile	10.66	41	1294616	200.26 ug/L #	62
12) ethyl acetate	11.05	43	2088166	195.70 ug/L #	92
13) isobutanol	11.05	43	2088166	195.70 ug/L #	15
14) tetrahydrofuran	11.57	42	586926	209.07 ug/L	97
15) cyclohexane	12.62	56	334888	19.08 ug/L #	69
19) 1,4-dioxane	14.04	88	13758	219.64 ug/L #	32
20) methyl methacrylate	14.08	41	164596	20.55 ug/L	94
22) ethyl methacrylate	16.01	69	241140	20.70 ug/L	96
23) butyl acetate	16.65	43	3438018	193.31 ug/L	99
24) cis-1,4-Dichloro-2-butene	18.79	75	49785	24.07 ug/L #	63
25) cyclohexanone	18.95	55	66701	230.08 ug/L #	85
26) trans-1,4-Dichloro-2-buten	19.24	75	54391	24.15 ug/L #	98
28) DIBK	20.26	57	410825	19.82 ug/L	98
32) pentachloroethane	20.65	117	99791	21.10 ug/L	89
33) bis-2-chloromethyl ether	21.94	45	78636m	24.57 ug/L	
34) 2-methylnaphthalene	29.31	142	132216	31.96 ug/L	96

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

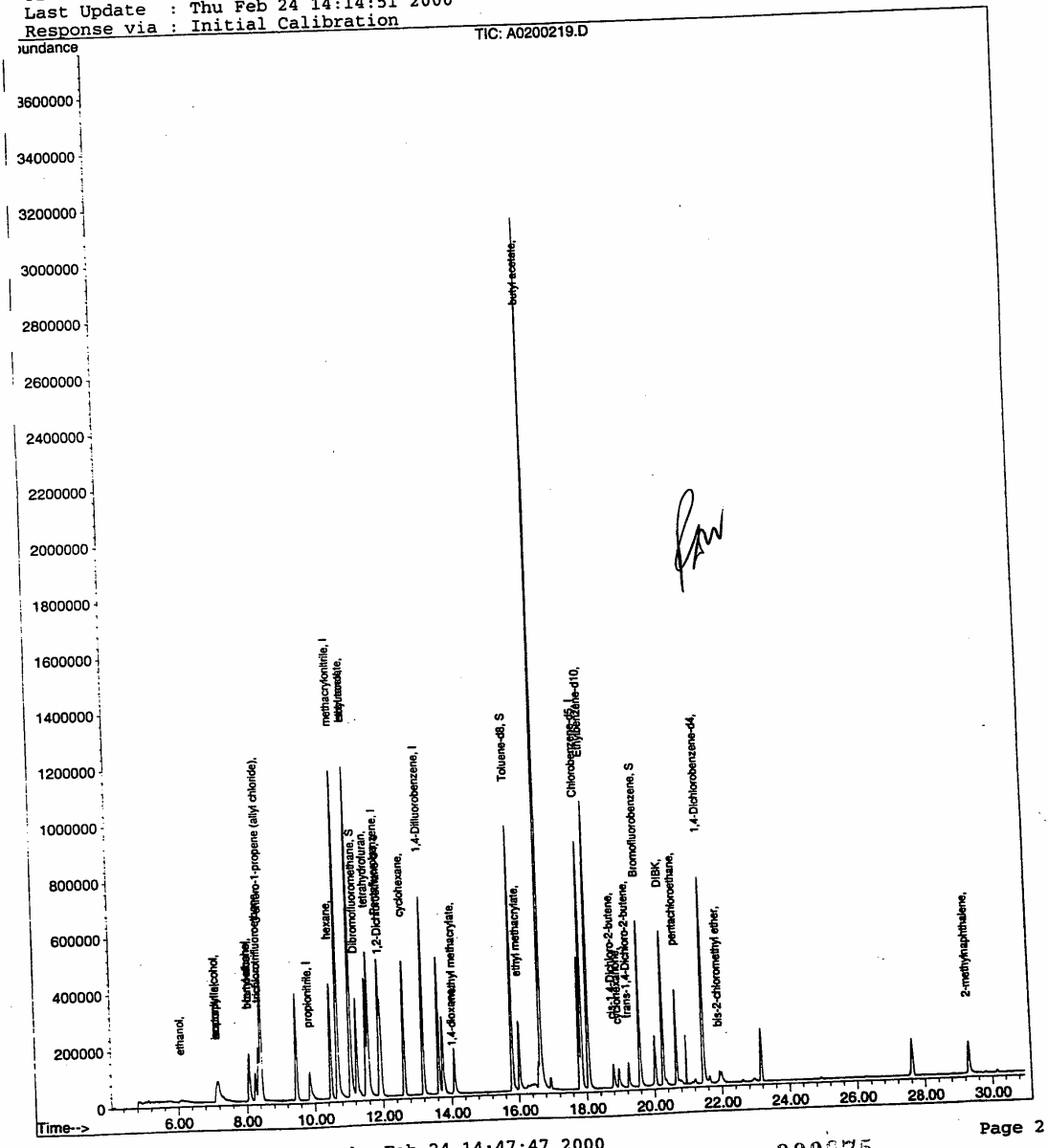
Quantitation Report

Data File : C:\HPCHEM\1\DATA\021400\A0200219.D
Acq On : 20 Feb 2000 1:50 pm
Sample : 1
Misc : app ix 20 ug/l
MS Integration Params: rteint.p
Quant Time: Feb 24 14:47 19100

Vial: 4
Operator:
Inst : HP-10
Multiplr: 1.00

Quant Results File: APS0131.RES

Method : C:\HPCHEM\1\METHODS\APS0219.M (RTE Integrator)
Title : APPIX IX MIX
Last Update : Thu Feb 24 14:14:51 2000
Response via : Initial Calibration



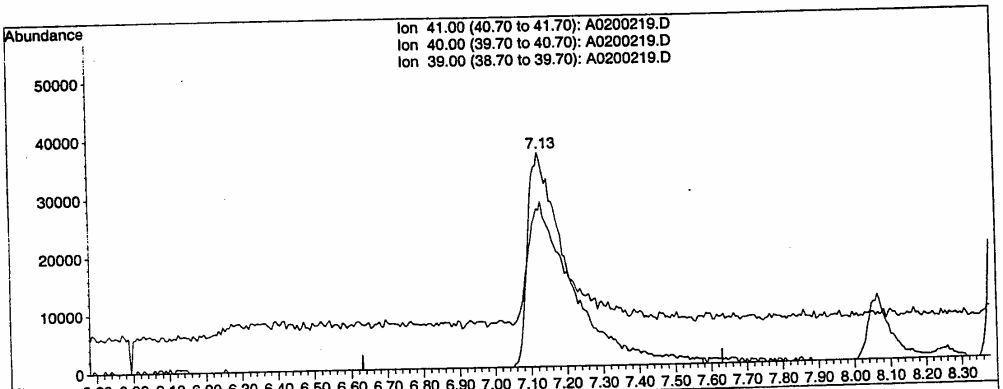
A0200219.D APS0219.M Thu Feb 24 14:47:47 2000

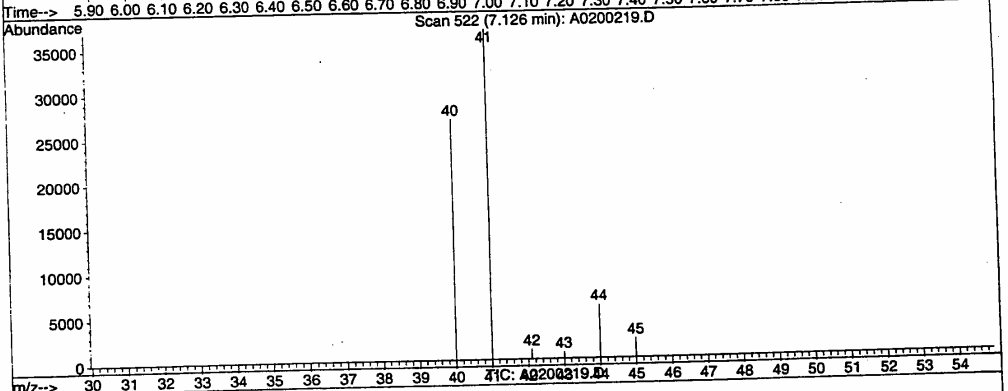
Quantitation Report

Data File : C:\HPCHEM\1\DATA\021400\A0200219.D
Acq On : 20 Feb 2000 1:50 pm
Sample : 1
Misc : app ix 20 ug/l
Quant Time: Feb 24 14:20 19100

Vial: 4
Operator:
Inst : HP-10
Multiplr: 1.00
Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\APS0219.M (RTE Integrator)
Title : APPIX IX MIX
Last Update : Thu Feb 24 14:14:51 2000
Response via : Multiple Level Calibration





(3) acetonitrile

7.13min 223.18ug/L m

response 295479

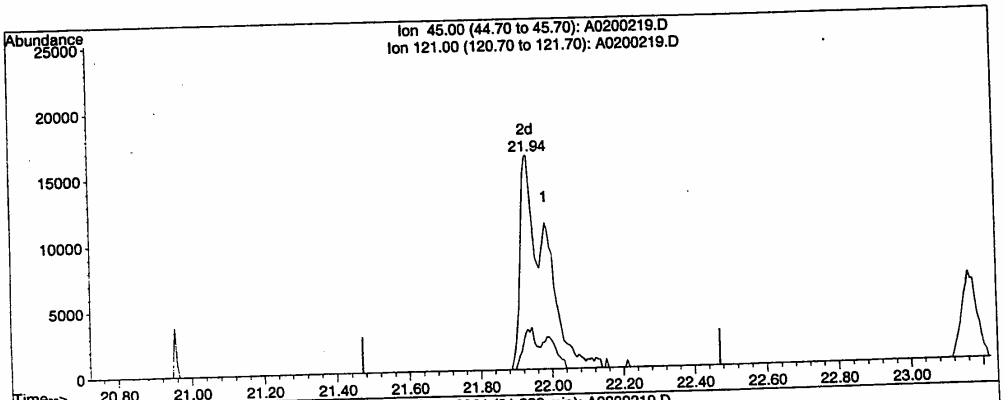
Ion	Exp%	Act%
41.00	100	100
40.00	61.50	47.09#
39.00	27.40	0.00#
0.00	0.00	0.00

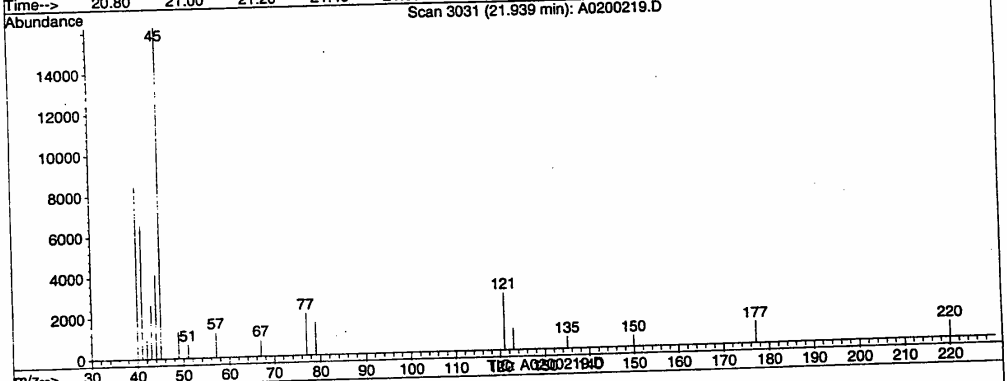
Quantitation Report

Data File : C:\HPCHEM\1\DATA\021400\A0200219.D
Acq On : 20 Feb 2000 1:50 pm
Sample : 1
Misc : app ix 20 ug/l
Quant Time: Feb 24 14:47 19100

Vial: 4
Operator:
Inst : HP-10
Multiplr: 1.00
Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\APS0219.M (RTE Integrator)
Title : APPIX IX MIX
Last Update : Thu Feb 24 14:14:51 2000
Response via : Multiple Level Calibration





(33) bis-2-chloromethyl ether

21.94min 24.57ug/L m

response 78636

Ion	Exp%	Act%
45.00	100	100
121.00	23.60	8.06#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\021400\A0500219.D
Acq On : 20 Feb 2000 2:27 pm
Sample : 1
Misc : app ix 50 ug/l
MS Integration Params: rteint.p
Quant Time: Feb 24 14:54 19100

Vial: 5
Operator:
Inst : HP-10
Multiplr: 1.00

Quant Results File: APS0131.RES

Quant Method : C:\HPCHEM\1\METHODS\APS0131.M (RTE Integrator)
Title : APPIX IX MIX
Last Update : Wed Feb 16 11:20:14 2000
Response via : Initial Calibration
DataAcq Meth : S021800

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Pentafluorobenzene	11.89	99	267178	30.00 ug/L	-0.01
18) 1,4-Difluorobenzene	13.18	63	171812	30.00 ug/L	-0.01
27) Chlorobenzene-d5	17.85	119	220298	30.00 ug/L	-0.02
29) 1,4-Dichlorobenzene-d4	21.47	152	330651	30.00 ug/L	-0.02
30) Ethylbenzene-d10	18.05	98	1113747	30.00 ug/L	-0.02
System Monitoring Compounds					
16) 1,2-Dichloroethane-d4	11.94	65	262249	29.78 ug/L	0.00
Spiked Amount 30.000			Recovery = 99.27%		
17) Dibromofluoromethane	11.24	111	262095	32.33 ug/L	0.00
Spiked Amount 30.000			Recovery = 107.77%		
21) Toluene-d8	15.80	98	886545	33.54 ug/L	-0.02
Spiked Amount 30.000			Recovery = 111.80%		
31) Bromofluorobenzene	19.58	95	339462	30.65 ug/L	-0.01
Spiked Amount 30.000			Recovery = 102.17%		

Target Compounds					Qvalue
2) ethanol	6.10	41	1410	368.56 ug/L #	100
3) acetonitrile	7.13	41	604354	366.37 ug/L #	66
4) isopropyl alcohol	7.13	41	604354	839.17 ug/L #	100
5) t-butyl alcohol	8.06	59	452335	399.95 ug/L #	1
6) bromoethane	8.07	108	280547	38.06 ug/L	92
7) trichlorotrifluoroethane	8.35	151	245305	35.33 ug/L #	75
8) 3-chloro-1-propene (allyl	8.42	41	1041055	31.30 ug/L #	6
9) propionitrile	9.84	54	548876	368.75 ug/L	92
10) hexane	10.47	57	674752	32.04 ug/L #	69
11) methacrylonitrile	10.66	41	2768354	350.88 ug/L #	62
12) ethyl acetate	11.04	43	4446370	363.07 ug/L #	92
13) isobutanol	11.04	43	4446370	363.07 ug/L #	15
14) tetrahydrofuran	11.57	42	1235925	331.76 ug/L	98
15) cyclohexane	12.62	56	790880	32.31 ug/L #	68
19) 1,4-dioxane	14.04	88	37317	422.55 ug/L #	64
20) methyl methacrylate	14.08	41	359271	33.72 ug/L	93
22) ethyl methacrylate	16.01	69	546550	35.50 ug/L #	93
23) butyl acetate	16.65	43	7312185	462.77 ug/L	99
24) cis-1,4-Dichloro-2-butene	18.78	75	115994	38.56 ug/L #	64
25) cyclohexanone	18.94	55	152765	397.75 ug/L	87
26) trans-1,4-Dichloro-2-buten	19.24	75	127536	39.53 ug/L #	99
28) DIBK	20.26	57	932695	32.20 ug/L	99
32) pentachloroethane	20.66	117	221421	33.64 ug/L	88
33) bis-2-chloromethyl ether	21.93	45	169665m	39.87 ug/L	
34) 2-methylnaphthalene	29.30	142	295698	52.49 ug/L	98

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

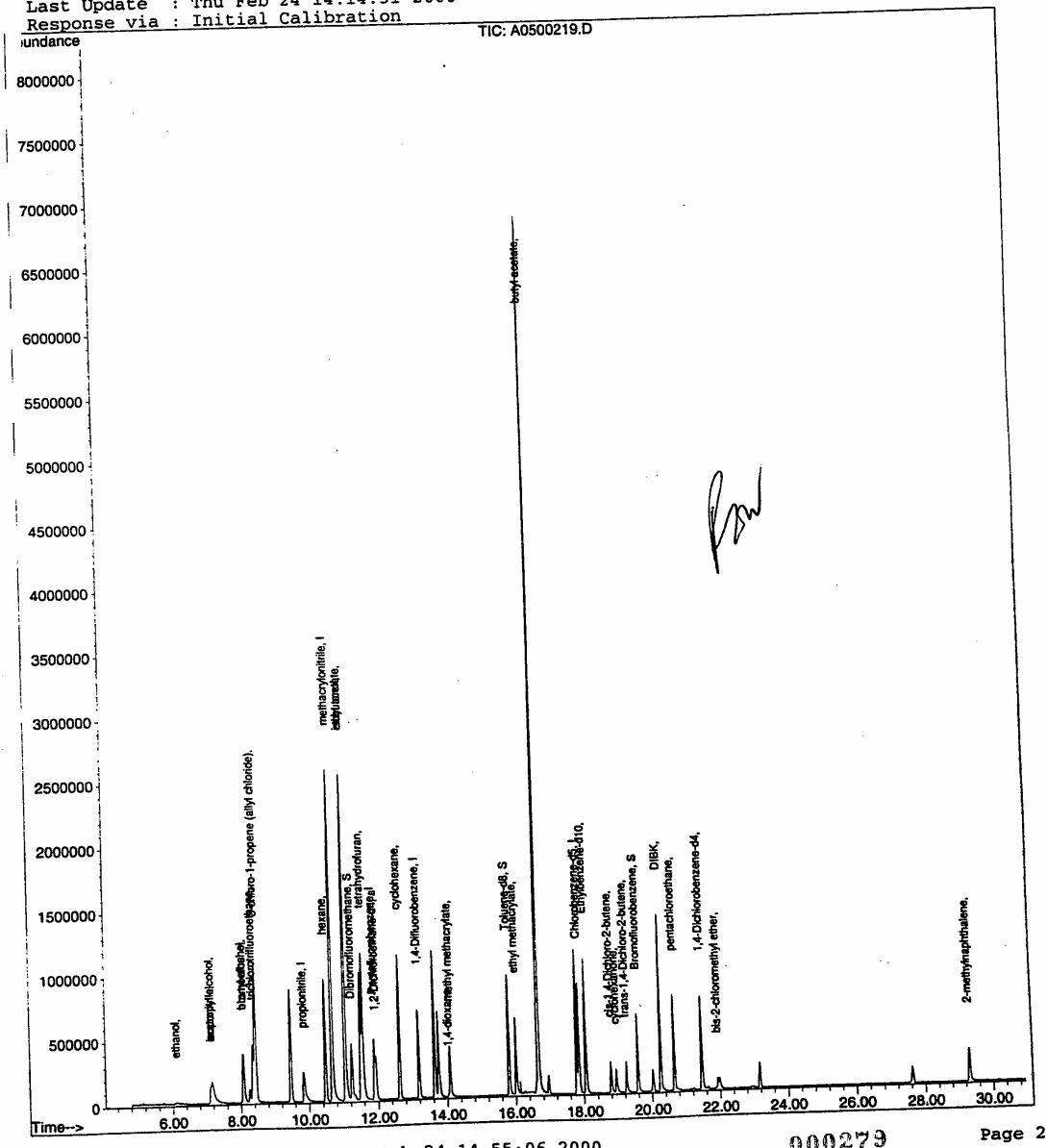
Quantitation Report

Data File : C:\HPCHEM\1\DATA\021400\A0500219.D
Acq On : 20 Feb 2000 2:27 pm
Sample : 1
Misc : app ix 50 ug/l
MS Integration Params: rteint.p
Quant Time: Feb 24 14:54 19100

Vial: 5
Operator:
Inst : HP-10
Multiplr: 1.00

Quant Results File: APS0131.RES

Method : C:\HPCHEM\1\METHODS\APS0219.M (RTE Integrator)
Title : APPIX IX MIX
Last Update : Thu Feb 24 14:14:51 2000
Response via : Initial Calibration

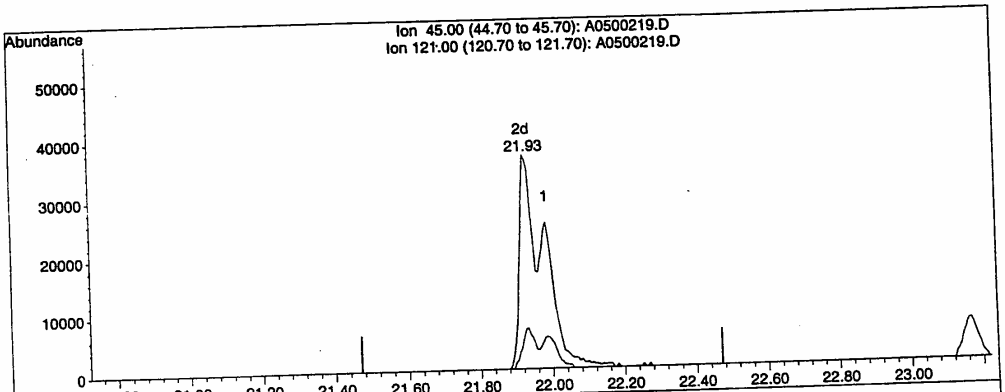


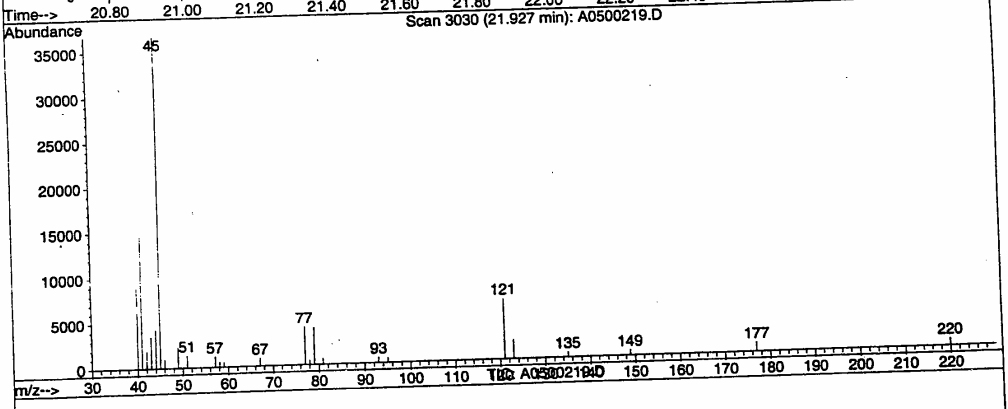
Quantitation Report

Data File : C:\HPCHEM\1\DATA\021400\A0500219.D
Acq On : 20 Feb 2000 2:27 pm
Sample : 1
Misc : app ix 50 ug/l
Quant Time: Feb 24 14:54 19100

Vial: 5
Operator:
Inst : HP-10
Multiplr: 1.00
Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\APS0219.M (RTE Integrator)
Title : APPIX IX MIX
Last Update : Thu Feb 24 14:14:51 2000
Response via : Multiple Level Calibration





(33) bis-2-chloromethyl ether

21.93min 39.87ug/L m

response 169665

Ion	Exp%	Act%
45.00	100	100
121.00	23.60	9.12#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\021400\A1000219.D
Acq On : 20 Feb 2000 3:04 pm
Sample : 1
Misc : app ix 100 ug/l
MS Integration Params: rteint.p
Quant Time: Feb 24 14:55 19100

Vial: 6
Operator:
Inst : HP-10
Multiplr: 1.00

Quant Results File: APS0131.RES

Quant Method : C:\HPCHEM\1\METHODS\APS0131.M (RTE Integrator)
Title : APPIX IX MIX
Last Update : Wed Feb 16 11:20:14 2000
Response via : Initial Calibration
DataAcq Meth : S021800

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Pentafluorobenzene	11.89	99	260325	30.00 ug/L	-0.01
18) 1,4-Difluorobenzene	13.18	63	172728	30.00 ug/L	-0.01
7) Chlorobenzene-d5	17.86	119	215962	30.00 ug/L	-0.01
9) 1,4-Dichlorobenzene-d4	21.46	152	330443	30.00 ug/L	-0.02
30) Ethylbenzene-d10	18.05	98	1093658	30.00 ug/L	-0.02
System Monitoring Compounds					
6) 1,2-Dichloroethane-d4	11.94	65	267247	31.15 ug/L	-0.01
Spiked Amount 30.000			Recovery = 103.83%		
17) Dibromofluoromethane	11.24	111	258809	32.77 ug/L	-0.01
Spiked Amount 30.000			Recovery = 109.23%		
21) Toluene-d8	15.80	98	878119	33.04 ug/L	-0.02
Spiked Amount 30.000			Recovery = 110.13%		
31) Bromofluorobenzene	19.58	95	337259	31.01 ug/L	-0.01
Spiked Amount 30.000			Recovery = 103.37%		

Target Compounds					Qvalue
2) ethanol	6.10	41	2502	671.22 ug/L #	100
3) acetonitrile	7.10	41	1423231	761.84 ug/L #	75
4) isopropyl alcohol	7.10	41	1423231	1971.19 ug/L #	100
5) t-butyl alcohol	8.05	59	1105251	865.54 ug/L #	1
6) bromoethane	8.07	108	593417	68.03 ug/L	92
7) trichlorotrifluoroethane	8.35	151	527377	65.56 ug/L #	75
8) 3-chloro-1-propene (allyl	8.42	41	2183246	56.54 ug/L #	7
9) propionitrile	9.84	54	1367577	787.92 ug/L #	91
10) hexane	10.47	57	1435248	58.78 ug/L #	69
11) methacrylonitrile	10.66	41	6350831	732.76 ug/L #	61
12) ethyl acetate	11.04	43	10488106	809.85 ug/L #	92
13) isobutanol	11.04	43	10488106	809.85 ug/L #	15
14) tetrahydrofuran	11.56	42	3313073	739.44 ug/L	91
15) cyclohexane	12.62	56	1658726	58.68 ug/L #	70
19) 1,4-dioxane	14.03	88	87575	847.69 ug/L #	48
20) methyl methacrylate	14.07	41	861642	66.97 ug/L	92
22) ethyl methacrylate	16.01	69	1263227	69.51 ug/L	95
23) butyl acetate	16.65	43	15317798	1006.72 ug/L	95
24) cis-1,4-Dichloro-2-butene	18.78	75	289538	75.79 ug/L #	65
25) cyclohexanone	18.93	55	404100	877.64 ug/L	86
26) trans-1,4-Dichloro-2-buten	19.23	75	320477	79.29 ug/L #	99
28) DIBK	20.26	57	2119828	61.27 ug/L	98
32) pentachloroethane	20.65	117	361372	48.75 ug/L	89
33) bis-2-chloromethyl ether	21.93	45	430690m	85.09 ug/L	
34) 2-methylnaphthalene	29.30	142	701114	105.03 ug/L	97

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

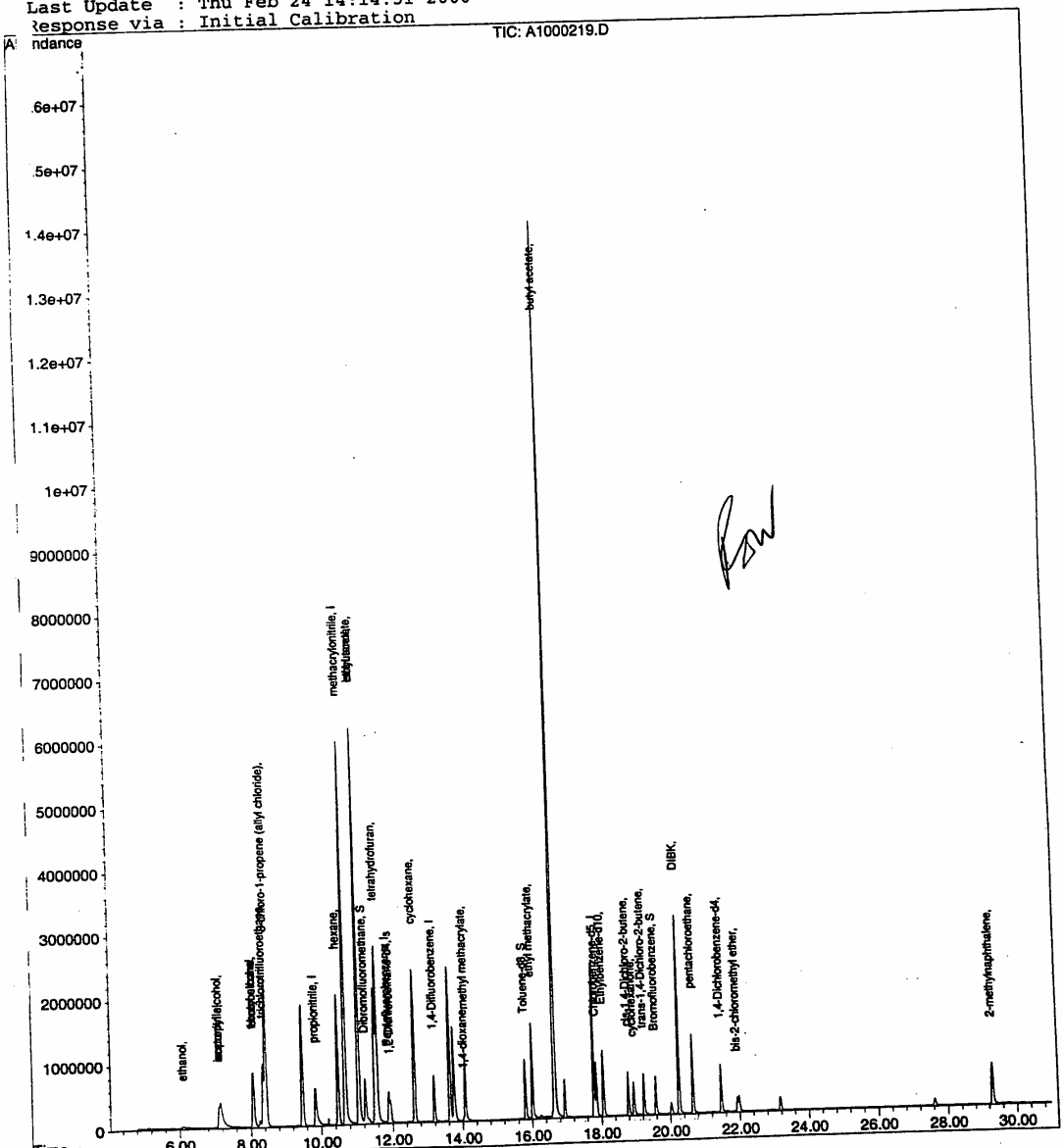
Quantitation Report

Data File : C:\HPCHEM\1\DATA\021400\A1000219.D
Acq On : 20 Feb 2000 3:04 pm
ample : 1
iisc : app ix 100 ug/l
MS Integration Params: rteint.p
Quant Time: Feb 24 14:55 19100

Vial: 6
Operator:
Inst : HP-10
Multiplr: 1.00

Quant Results File: APS0131.RES

Method : C:\HPCHEM\1\METHODS\APS0219.M (RTE Integrator)
Title : APPIX IX MIX
Last Update : Thu Feb 24 14:14:51 2000
Response via : Initial Calibration



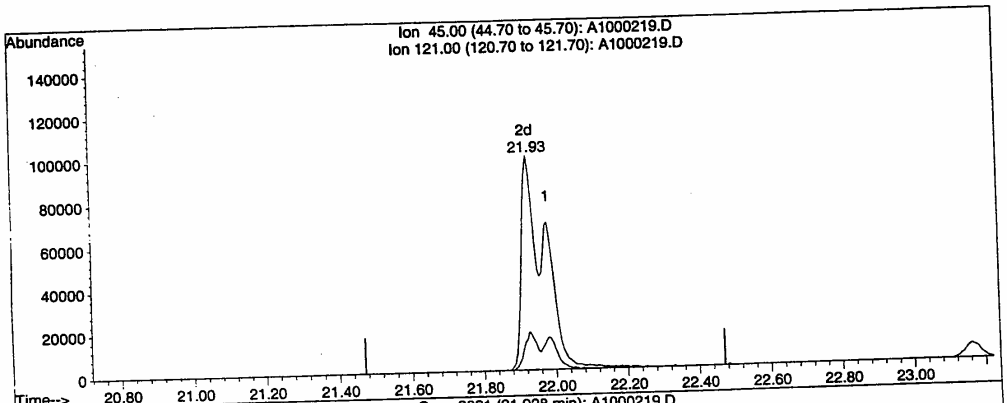
A1000219.D APS0219.M Thu Feb 24 14:56:19 2000

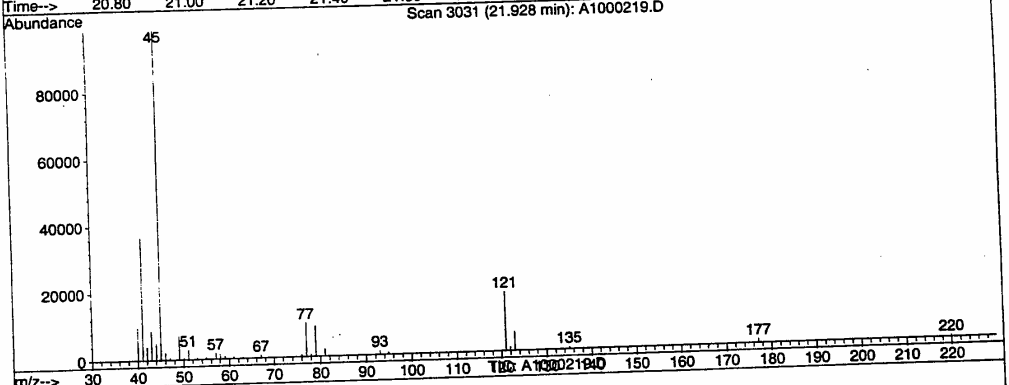
Quantitation Report

Data File : C:\HPCHEM\1\DATA\021400\A1000219.D
Acq On : 20 Feb 2000 3:04 pm
Sample : 1
Misc : app ix 100 ug/l
Quant Time: Feb 24 14:55 19100

Vial: 6
Operator:
Inst : HP-10
Multiplr: 1.00
Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\APS0219.M (RTE Integrator)
Title : APPIX IX MIX
Last Update : Thu Feb 24 14:14:51 2000
Response via : Multiple Level Calibration





(33) bis-2-chloromethyl ether

21.93min 85.09ug/L m

response 430690

Ion	Exp%	Act%
45.00	100	100
121.00	23.60	9.11#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\021400\A2000219.D
Acq On : 20 Feb 2000 3:41 pm
Sample : 1
Misc : app ix 200 ug/l
MS Integration Params: rteint.p
Quant Time: Feb 24 14:57 19100

Vial: 7
Operator:
Inst : HP-10
Multiplr: 1.00

Quant Results File: APS0131.RES

Quant Method : C:\HPCHEM\1\METHODS\APS0131.M (RTE Integrator)
Title : APPIX IX MIX
Last Update : Wed Feb 16 11:20:14 2000
Response via : Initial Calibration
DataAcq Meth : S021800

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Pentafluorobenzene	11.89	99	261082	30.00 ug/L	-0.01
18) 1,4-Difluorobenzene	13.18	63	169764	30.00 ug/L	-0.01
27) Chlorobenzene-d5	17.85	119	216761	30.00 ug/L	-0.02
29) 1,4-Dichlorobenzene-d4	21.46	152	317956	30.00 ug/L	-0.02
30) Ethylbenzene-d10	18.05	98	1086070	30.00 ug/L	-0.02
System Monitoring Compounds					
16) 1,2-Dichloroethane-d4	11.94	65	263116	30.58 ug/L	0.00
Spiked Amount 30.000			Recovery = 101.93%		
17) Dibromofluoromethane	11.24	111	256380	32.37 ug/L	0.00
Spiked Amount 30.000			Recovery = 107.90%		
21) Toluene-d8	15.80	98	873969	33.46 ug/L	-0.02
Spiked Amount 30.000			Recovery = 111.53%		
31) Bromofluorobenzene	19.58	95	334962	31.02 ug/L	-0.01
Spiked Amount 30.000			Recovery = 103.40%		

Target Compounds					Qvalue
2) ethanol	6.09	41	4650	1243.85 ug/L #	100
3) acetonitrile	7.10	41	3032239	1520.30 ug/L #	74
4) isopropyl alcohol	7.10	41	3032239	4142.26 ug/L #	100
5) t-butyl alcohol	8.05	59	2405946	1771.98 ug/L #	1
6) bromoethane	8.07	108	1162514	121.02 ug/L	93
7) trichlorotrifluoroethane	8.35	151	1041372	119.13 ug/L #	75
8) 3-chloro-1-propene (allyl	8.41	41	4251645	100.92 ug/L #	7
9) propionitrile	9.84	54	2846619	1528.23 ug/L #	92
10) hexane	10.47	57	2827463	106.37 ug/L #	69
11) methacrylonitrile	10.67	41	11983205	1317.86 ug/L #	61
12) ethyl acetate	11.05	43	18831421	1411.44 ug/L #	89
13) isobutanol	11.05	43	18831421	1411.44 ug/L #	15
14) tetrahydrofuran	11.56	42	6522924	1356.30 ug/L	91
15) cyclohexane	12.63	56	3269212	106.21 ug/L #	70
19) 1,4-dioxane	14.02	88	247423	2241.93 ug/L #	48
20) methyl methacrylate	14.07	41	1731943	126.80 ug/L	93
22) ethyl methacrylate	16.01	69	2515530	131.26 ug/L	94
23) butyl acetate	16.65	43	20841344	1408.71 ug/L #	76
24) cis-1,4-Dichloro-2-butene	18.77	75	605698	146.13 ug/L #	65
25) cyclohexanone	18.93	55	905125	1867.67 ug/L	86
26) trans-1,4-Dichloro-2-buten	19.23	75	675921	155.24 ug/L #	99
28) DIBK	20.26	57	4165278	110.22 ug/L	99
32) pentachloroethane	20.66	117	894091	105.34 ug/L #	88
33) bis-2-chloromethyl ether	21.93	45	863519m	160.23 ug/L	
34) 2-methylnaphthalene	29.29	142	1342416	188.26 ug/L	96

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

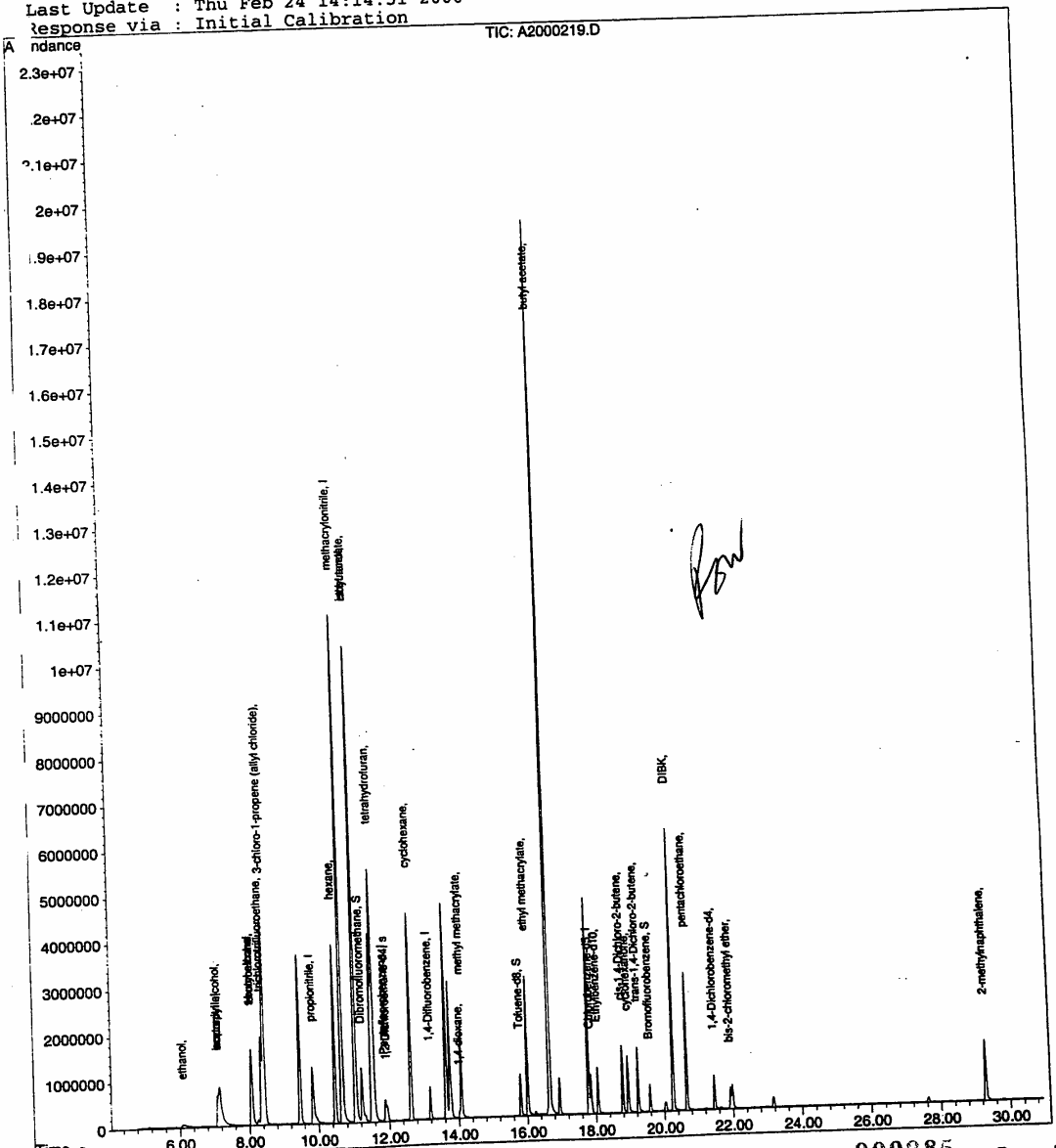
Quantitation Report

Data File : C:\HPCHEM\1\DATA\021400\A2000219.D
Acq On : 20 Feb 2000 3:41 pm
ample : 1
isc : app ix 200 ug/l
MS Integration Params: rteint.p
Quant Time: Feb 24 14:57 19100

Vial: 7
Operator:
Inst : HP-10
Multiplr: 1.00

Quant Results File: APS0131.RES

ethod : C:\HPCHEM\1\METHODS\APS0219.M (RTE Integrator)
Title : APPIX IX MIX
Last Update : Thu Feb 24 14:14:51 2000
Response via : Initial Calibration



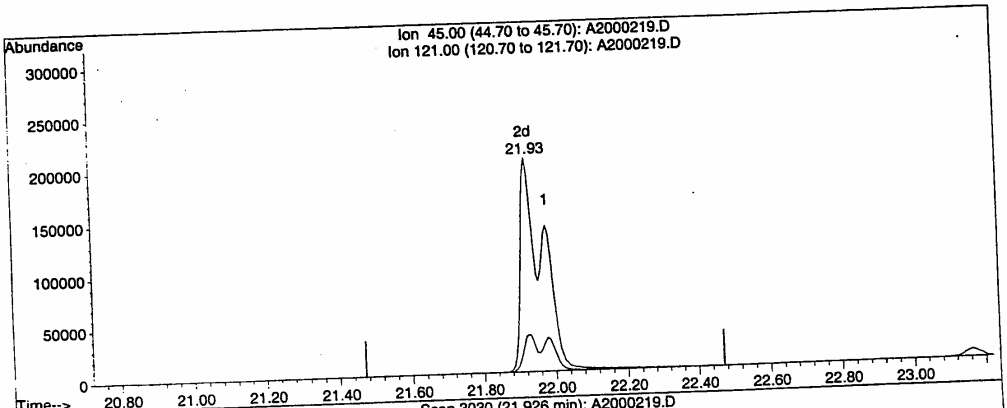
A2000219.D APS0219.M Thu Feb 24 14:57:39 2000

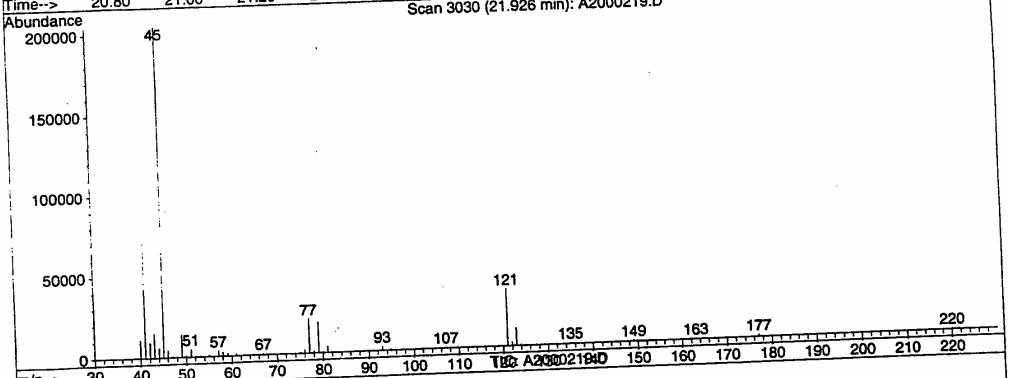
Quantitation Report

Data File : C:\HPCHEM\1\DATA\021400\A2000219.D
Acq On : 20 Feb 2000 3:41 pm
Sample : 1
Misc : app ix 200 ug/l
Quant Time: Feb 24 14:57 19100

Vial: 7
Operator:
Inst : HP-10
Multiplr: 1.00
Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\APS0219.M (RTE Integrator)
Title : APPIX IX MIX
Last Update : Thu Feb 24 14:14:51 2000
Response via : Multiple Level Calibration





(33) bis-2-chloromethyl ether

21.93min 160.23ug/L m

response 863519

Ion	Exp%	Act%
45.00	100	100
121.00	23.60	9.24#
0.00	0.00	0.00
0.00	0.00	0.00

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\042400\VS0429B.D
Acq On : 29 Apr 2000 10:10 pm
Sample : 1
Misc : voa std 50 ug/l
MS Integration Params: rteint.p

Vial: 19
Operator:
Inst : HP-10
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\S041200.M (RTE Integrator)
Title : 8260 volatile organics
Last Update : Fri May 12 08:15:05 2000
Response via : Single Level Calibration

Min. RRF : 0.010 Min. Rel. Area : 10% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 500%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
	I	Pentafluorobenzene	1.000	1.000	0.0	59	-0.08
2	T	Dichlorodifluoromethane	0.867	0.971	-12.0	64	-0.11
3	P	Chloromethane	1.056	1.151	-9.0	66	-0.13
	C	Vinyl Chloride	0.783	0.909	-16.1	68	-0.11
	T	Bromomethane	0.639	0.608	4.9	65	-0.13
6	T	Chloroethane	0.456	0.509	-11.6	66	-0.13
7	T	Trichlorofluoromethane	0.788	0.884	-12.2	66	-0.13
		Acrolein	0.034	0.056	-64.7#	99	-0.13
	T	Acetone	0.183	0.169	7.7	62	-0.12
10		Diethyl Ether	0.463	0.501	-8.2	63	-0.12
11	CM	1,1-Dichloroethene	0.501	0.523	-4.4	64	-0.12
1		Iodomethane	0.420	0.691	-64.5#	72	-0.12
1		Acrylonitrile	0.181	0.219	-21.0#	72	-0.12
14	T	Methylene Chloride	1.442	0.806	44.1#	66	-0.12
15	T	Carbon Disulfide	1.905	2.296	-20.5#	71	-0.12
1	T	trans-1,2-Dichloroethene	0.934	0.981	-5.0	61	-0.11
1	T	Methyl-t-butyl ether	1.514	1.518	-0.3	59	-0.11
18	P	1,1-Dichloroethane	1.126	1.244	-10.5	64	-0.11
19		Vinyl Acetate	1.378	1.466	-6.4	60	0.00
2	T	2-Butanone	0.483	0.519	-7.5	63	-0.09
2	T	Diisopropyl ether	2.365	2.688	-13.7	67	-0.10
22	T	cis-1,2-Dichloroethene	0.853	0.945	-10.8	65	-0.09
23	T	Bromochloromethane	0.335	0.377	-12.5	64	-0.09
2	C	Chloroform	1.006	1.116	-10.9	65	-0.09
2	T	2,2-Dichloropropane	0.769	0.820	-6.6	62	-0.09
26	S	1,2-Dichloroethane-d4	0.611	0.476	22.1#	42	0.00
27	S	Dibromofluoromethane	0.439	0.426	3.0	49	-0.09
2	T	1,2-Dichloroethane	0.730	0.842	-15.3	68	-0.09
2	T	1,1,1-Trichloroethane	0.747	0.803	-7.5	63	-0.09
30	T	1,1-Dichloropropene	0.640	0.666	-4.1	61	-0.08
	I	1,4-Difluorobenzene	1.000	1.000	0.0	62	-0.08
	T	Carbon Tetrachloride	0.377	0.388	-2.9	63	-0.09
33	M	Benzene	1.479	1.496	-1.1	64	-0.09
34	T	Dibromomethane	0.207	0.210	-1.4	63	-0.08
		2,3-Dichloro-1-propene	0.166	0.188	-13.3	69	0.00
	C	1,2-Dichloropropane	0.408	0.426	-4.4	65	-0.07
37	M	Trichloroethene	0.328	0.325	0.9	62	-0.08
38	T	Bromodichloromethane	0.416	0.445	-7.0	65	-0.07
	T	2-Chloroethyl vinyl ether	0.082	0.085	-3.7	65	-0.07
	T	cis-1,3-Dichloropropene	0.509	0.502	1.4	60	-0.07
41	T	4-Methyl-2-pentanone	0.137	0.132	3.6	60	-0.07
42	T	trans-1,3-Dichloropropene	0.471	0.475	-0.8	61	-0.07
	T	1,1,2-Trichloroethane	0.266	0.267	-0.4	63	-0.07
	S	Toluene-d8	1.041	0.831	20.2#	43	-0.07
45	CM	Toluene	1.391	1.370	1.5	62	-0.07
46	T	1,3-Dichloropropane	0.524	0.545	-4.0	65	-0.07
		Ethyl Methacrylate	0.427	0.443	-3.7	64	-0.07
3	T	2-Hexanone	0.136	0.126	7.4	58	-0.07
49	I	Chlorobenzene-d5	1.000	1.000	0.0	67	-0.06
50	T	Dibromochloromethane	0.787	0.823	-4.6	66	-0.07
51	T	1,2-Dibromoethane	0.989	0.968	2.1	63	-0.07
52	T	Tetrachloroethene	1.138	1.002	12.0	58	-0.06
53	T	1,1,1,2-Tetrachloroethane	1.041	1.066	-2.4	66	-0.06

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\042400\VS0429B.D Vial: 19
Acq On : 29 Apr 2000 10:10 pm Operator:
Sample : 1 Inst : HP-10
Misc : voa std 50 ug/l Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\HPCHEM\1\METHODS\S041200.M (RTE Integrator)
Title : 8260 volatile organics
Last Update : Fri May 12 08:15:05 2000
Response via : Single Level Calibration

Min. RRF : 0.010 Min. Rel. Area : 10% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 500%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
54	PM	Chlorobenzene	3.148	2.999	4.7	63	-0.07
55	C	Ethylbenzene	5.730	5.408	5.6	63	-0.06
57	T	m,p-Xylene	4.286	4.078	4.9	63	-0.06
5	P	Bromoform	0.605	0.632	-4.5	64	-0.06
5	T	Styrene	3.038	2.918	3.9	60	-0.06
59	T	o-Xylene	4.405	4.354	1.2	65	-0.07
6	P	1,1,2,2-Tetrachloroethane	1.375	1.401	-1.9	66	-0.06
6	T	1,2,3-Trichloropropane	1.403	1.374	2.1	63	-0.06
6		Trans-1.4-dichloro-2-butene	0.243	0.264	-8.6	60	-0.03
6		1,4-Dichlorobenzene-d4	1.000	1.000	0.0	69	-0.06
6		Ethylbenzene-d10	1.000	1.000	0.0	66	-0.06
65	T	Isopropylbenzene	0.971	0.935	3.7	62	-0.06
6	S	Bromofluorobenzene	0.299	0.221	26.1#	43	-0.06
6	T	Bromobenzene	0.446	0.449	-0.7	66	-0.06
6	T	Propylbenzene	1.224	1.168	4.6	61	0.00
69	T	2-Chlorotoluene	0.730	0.712	2.5	63	0.00
70	T	4-Chlorotoluene	0.720	0.695	3.5	62	0.01
7	T	1,3,5-Trimethylbenzene	0.752	0.734	2.4	63	-0.05
7	T	t-Butylbenzene	0.644	0.625	3.0	63	-0.06
73	T	1,2,4-trimethylbenzene	0.748	0.728	2.7	63	-0.06
74	T	sec-Butylbenzene	1.053	1.010	4.1	62	-0.06
7	T	1,3-Dichlorobenzene	0.418	0.402	3.8	62	0.00
7	T	1,4-Dichlorobenzene	0.439	0.414	5.7	62	0.00
77	T	1,2-Dichlorobenzene	0.391	0.389	0.5	65	-0.07
78	T	p-Isopropyltoluene	0.804	0.749	6.8	60	-0.07
7	T	Butylbenzene	0.823	0.751	8.7	59	-0.07
8	T	1,2-Dibromo-3-chloropropane	0.074	0.034	54.1#	56	-0.07
81	T	1,2,4-Trichlorobenzene	0.220	0.178	19.1	53	-0.08
82	T	Naphthalene	0.561	0.426	24.1#	53	-0.08
8	T	Hexachlorobutadiene	0.120	0.106	11.7	57	-0.09
8	T	1,2,3-Trichlorobenzene	0.209	0.178	14.8	57	-0.09

(#) = Out of Range SPCC's out = 0 CCC's out = 0
VS0429B.D S041200.M Fri May 12 08:17:14 2000

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\042400\VS0429B.D
Acq On : 29 Apr 2000 10:10 pm
Sample : 1
Misc : voa std 50 ug/l
MS Integration Params: rteint.p

Vial: 19
Operator:
Inst : HP-10
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\S041200.M (RTE Integrator)
Title : 8260 volatile organics
Last Update : Fri May 12 08:15:05 2000
Response via : Single Level Calibration

Min. RRF : 0.010 Min. Rel. Area : 10% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 500%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	Pentafluorobenzene	30.000	30.000	0.0	59	-0.08
2	T	Dichlorodifluoromethane	50.000	56.034	-12.1	64	-0.11
3	P	Chloromethane	50.000	54.485	-9.0	66	-0.13
4	C	Vinyl Chloride	50.000	58.058	-16.1	68	-0.11
5	T	Bromomethane	50.000	47.577	4.8	65	-0.13
6	T	Chloroethane	50.000	55.790	-11.6	66	-0.13
7	T	Trichlorofluoromethane	50.000	56.079	-12.2	66	-0.13
8		Acrolein	250.000	324.117	-29.6#	99	-0.13
9	T	Acetone	250.000	257.619	-3.0	62	-0.12
10		Diethyl Ether	50.000	54.054	-8.1	63	-0.12
11	CM	1,1-Dichloroethene	50.000	52.203	-4.4	64	-0.12
12		Iodomethane	250.000	323.734	-29.5#	72	-0.12
13		Acrylonitrile	250.000	301.554	-20.6#	72	-0.12
14	T	Methylene Chloride	50.000	57.387	-14.8	66	-0.12
15	T	Carbon Disulfide	50.000	60.273	-20.5#	71	-0.12
16	T	trans-1,2-Dichloroethene	50.000	52.537	-5.1	61	-0.11
17	T	Methyl-t-butyl ether	50.000	50.140	-0.3	59	-0.11
18	P	1,1-Dichloroethane	50.000	55.241	-10.5	64	-0.11
19		Vinyl Acetate	250.000	266.060	-6.4	60	0.00
20	T	2-Butanone	250.000	268.219	-7.3	63	-0.09
21	T	Diisopropyl ether	50.000	56.833	-13.7	67	-0.10
22	T	cis-1,2-Dichloroethene	50.000	55.412	-10.8	65	-0.09
23	T	Bromochloromethane	50.000	56.183	-12.4	64	-0.09
24	C	Chloroform	50.000	55.450	-10.9	65	-0.09
25	T	2,2-Dichloropropane	50.000	53.332	-6.7	62	-0.09
26	S	1,2-Dichloroethane-d4	42.500	31.914	24.9#	42	0.00
27	S	Dibromofluoromethane	42.500	39.794	6.4	49	-0.09
28	T	1,2-Dichloroethane	50.000	57.689	-15.4	68	-0.09
29	T	1,1,1-Trichloroethane	50.000	53.752	-7.5	63	-0.09
30	T	1,1-Dichloropropene	50.000	51.980	-4.0	61	-0.08
31	I	1,4-Difluorobenzene	30.000	30.000	0.0	62	-0.08
32	T	Carbon Tetrachloride	50.000	51.466	-2.9	63	-0.09
33	M	Benzene	50.000	50.556	-1.1	64	-0.09
34	T	Dibromomethane	50.000	50.775	-1.5	63	-0.08
35		2,3-Dichloro-1-propene	50.000	56.397	-12.8	69	0.00
36	C	1,2-Dichloropropane	50.000	52.215	-4.4	65	-0.07
37	M	Trichloroethene	50.000	49.660	0.7	62	-0.08
38	T	Bromodichloromethane	50.000	53.541	-7.1	65	-0.07
39	T	2-Chloroethyl vinyl ether	250.000	261.073	-4.4	65	-0.07
40	T	cis-1,3-Dichloropropene	50.000	49.371	1.3	60	-0.07
41	T	4-Methyl-2-pentanone	250.000	241.007	3.6	60	-0.07
42	T	trans-1,3-Dichloropropene	50.000	50.404	-0.8	61	-0.07
43	T	1,1,2-Trichloroethane	50.000	50.163	-0.3	63	-0.07
44	S	Toluene-d8	42.500	32.555	23.4#	43	-0.07
45	CM	Toluene	50.000	49.261	1.5	62	-0.07
46	T	1,3-Dichloropropane	50.000	51.987	-4.0	65	-0.07
47		Ethyl Methacrylate	250.000	259.698	-3.9	64	-0.07
48	T	2-Hexanone	250.000	232.987	6.8	58	-0.07
49	I	Chlorobenzene-d5	30.000	30.000	0.0	67	-0.06
50	T	Dibromochloromethane	50.000	52.317	-4.6	66	-0.07
51	T	1,2-Dibromoethane	50.000	48.893	2.2	63	-0.07
52	T	Tetrachloroethene	50.000	44.015	12.0	58	-0.06
53	T	1,1,1,2-Tetrachloroethane	50.000	51.226	-2.5	66	-0.06

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\042400\VS0429B.D
Acq On : 29 Apr 2000 10:10 pm
Sample : 1
Misc : voa std 50 ug/l
MS Integration Params: rteint.p

Vial: 19
Operator:
Inst : HP-10
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\S041200.M (RTE Integrator)
Title : 8260 volatile organics
Last Update : Fri May 12 08:15:05 2000
Response via : Single Level Calibration

Min. RRF : 0.010 Min. Rel. Area : 10% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 500%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
5_	PM	Chlorobenzene	50.000	47.634	4.7	63	-0.07
55	C	Ethylbenzene	50.000	47.191	5.6	63	-0.06
56	T	m,p-Xylene	100.000	95.148	4.9	63	-0.06
5	P	Bromoform	50.000	46.402	7.2	64	-0.06
5_	T	Styrene	50.000	48.030	3.9	60	-0.06
59	T	o-Xylene	50.000	49.413	1.2	65	-0.07
60	P	1,1,2,2-Tetrachloroethane	50.000	50.955	-1.9	66	-0.06
6	T	1,2,3-Trichloropropane	50.000	48.955	2.1	63	-0.06
6		Trans-1.4-dichloro-2-butene	50.000	43.640	12.7	60	-0.03
63		1,4-Dichlorobenzene-d4	30.000	30.000	0.0	69	-0.06
6		Ethylbenzene-d10	30.000	30.000	0.0	66	-0.06
65	T	Isopropylbenzene	50.000	48.163	3.7	62	-0.06
66	S	Bromofluorobenzene	42.500	29.825	29.8#	43	-0.06
6	T	Bromobenzene	50.000	50.286	-0.6	66	-0.06
8	T	Propylbenzene	50.000	47.703	4.6	61	0.00
69	T	2-Chlorotoluene	50.000	48.774	2.5	63	0.00
70	T	4-Chlorotoluene	50.000	48.234	3.5	62	0.01
_	T	1,3,5-Trimethylbenzene	50.000	48.795	2.4	63	-0.05
2	T	t-Butylbenzene	50.000	48.536	2.9	63	-0.06
73	T	1,2,4-trimethylbenzene	50.000	48.602	2.8	63	-0.06
74	T	sec-Butylbenzene	50.000	47.943	4.1	62	-0.06
5	T	1,3-Dichlorobenzene	50.000	48.026	3.9	62	0.00
5	T	1,4-Dichlorobenzene	50.000	47.154	5.7	62	0.00
77	T	1,2-Dichlorobenzene	50.000	49.807	0.4	65	-0.07
78	T	p-Isopropyltoluene	50.000	46.584	6.8	60	-0.07
9	T	Butylbenzene	50.000	45.602	8.8	59	-0.07
0	T	1,2-Dibromo-3-chloropropane	50.000	38.522	23.0#	56	-0.07
81	T	1,2,4-Trichlorobenzene	50.000	40.562	18.9	53	-0.08
82	T	Naphthalene	50.000	38.001	24.0#	53	-0.08
3	T	Hexachlorobutadiene	50.000	44.265	11.5	57	-0.09
4	T	1,2,3-Trichlorobenzene	50.000	42.675	14.7	57	-0.09

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

Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\1\DATA\042400\VS0429B.D
Acq On : 29 Apr 2000 10:10 pm
Sample : 1
Misc : voa std 50 ug/l
MS Integration Params: rteint.p
Quant Time: May 12 8:15 19100

Vial: 19
Operator:
Inst : HP-10
Multiplr: 1.00

Quant Results File: S041200.RES

Quant Method : C:\HPCHEM\1\METHODS\S041200.M (RTE Integrator)
Title : 8260 volatile organics
Last Update : Fri May 12 08:15:05 2000
Response via : Initial Calibration
DataAcq Meth : S041200

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Pentafluorobenzene	11.85	168	276330	30.00 ug/L	-0.08
31) 1,4-Difluorobenzene	13.14	114	472424	30.00 ug/L	-0.08
49) Chlorobenzene-d5	17.82	119	134092	30.00 ug/L	-0.06
63) 1,4-Dichlorobenzene-d4	21.43	152	206543	30.00 ug/L	-0.06
64) Ethylbenzene-d10	18.02	98	700387	30.00 ug/L	-0.06
System Monitoring Compounds					
26) 1,2-Dichloroethane-d4	11.89	65	186513	31.91 ug/L	0.00
Spiked Amount 30.000			Recovery =	106.37%	
27) Dibromofluoromethane	11.19	111	166846	39.79 ug/L	-0.09
Spiked Amount 30.000			Recovery =	132.63%	
44) Toluene-d8	15.77	98	556131	32.55 ug/L	-0.07
Spiked Amount 30.000			Recovery =	108.50%	
66) Bromofluorobenzene	19.55	95	219431	29.82 ug/L	-0.06
Spiked Amount 30.000			Recovery =	99.40%	

Target Compounds					Qvalue
2) Dichlorodifluoromethane	4.38	85	447259	56.03 ug/L	99
3) Chloromethane	4.69	50	530044	54.49 ug/L	96
4) Vinyl Chloride	4.99	62	418617	58.06 ug/L	99
5) Bromomethane	5.67	96	280232	47.58 ug/L	100
6) Chloroethane	5.93	64	234570	55.79 ug/L	100
7) Trichlorofluoromethane	6.96	101	407171	56.08 ug/L	98
8) Acrolein	6.97	56	127976	324.12 ug/L	99
9) Acetone	7.20	43	388169	257.62 ug/L	95
10) Diethyl Ether	7.41	59	230642	54.05 ug/L	95
11) 1,1-Dichloroethene	7.91	96	240685	52.20 ug/L	89
12) Iodomethane	7.97	142	1591299	323.73 ug/L #	91
13) Acrylonitrile	8.04	53	503468	301.55 ug/L #	99
14) Methylene Chloride	8.18	84	371182	57.39 ug/L	99
15) Carbon Disulfide	8.54	76	1057467	60.27 ug/L	100
16) trans-1,2-Dichloroethene	9.33	61	451740	52.54 ug/L	94
17) Methyl-t-butyl ether	9.53	73	699169	50.14 ug/L #	92
18) 1,1-Dichloroethane	9.74	63	572967	55.24 ug/L	100
19) Vinyl Acetate	9.98	43	3376719	266.06 ug/L	97
20) 2-Butanone	10.48	43	1194349	268.22 ug/L #	91
21) Diisopropyl ether	10.49	45	1237826	56.83 ug/L	95
22) cis-1,2-Dichloroethene	10.67	61	435151	55.41 ug/L	95
23) Bromochloromethane	10.92	130	173517	56.18 ug/L	99
24) Chloroform	11.00	83	513980	55.45 ug/L	99
25) 2,2-Dichloropropane	11.12	77	377717	53.33 ug/L	99
28) 1,2-Dichloroethane	12.02	62	387848	57.69 ug/L	98
29) 1,1,1-Trichloroethane	12.15	97	369612	53.75 ug/L	95
30) 1,1-Dichloropropene	12.45	75	306533	51.98 ug/L	97
32) Carbon Tetrachloride	12.71	117	305672	51.47 ug/L	99
33) Benzene	12.77	78	1177872	50.56 ug/L	97
34) Dibromomethane	13.61	93	165588	50.78 ug/L	93
35) 2,3-Dichloro-1-propene	13.70	49	147717	56.40 ug/L	100
36) 1,2-Dichloropropane	13.67	63	335148	52.21 ug/L	98
37) Trichloroethene	13.73	130	256173	49.66 ug/L	94
38) Bromodichloromethane	13.80	83	350441	53.54 ug/L #	1
39) 2-Chloroethyl vinyl ether	13.67	63	335148	261.07 ug/L	96
40) cis-1,3-Dichloropropene	14.74	75	395504	49.37 ug/L	98
41) 4-Methyl-2-pentanone	14.92	58	518384	241.01 ug/L	84
42) trans-1,3-Dichloropropene	15.37	75	374083	50.40 ug/L	98

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

Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\1\DATA\042400\VS0429B.D
Acq On : 29 Apr 2000 10:10 pm
Sample : 1
Misc : voa std 50 ug/l
MS Integration Params: rteint.p
Quant Time: May 12 8:15 19100

Vial: 19
Operator:
Inst : HP-10
Multiplr: 1.00

Quant Results File: S041200.RES

Quant Method : C:\HPCHEM\1\METHODS\S041200.M (RTE Integrator)
Title : 8260 volatile organics
Last Update : Fri May 12 08:15:05 2000
Response via : Initial Calibration
DataAcq Meth : S041200

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
43) 1,1,2-Trichloroethane	15.60	97	209940	50.16 ug/L	97
45) Toluene	15.87	91	1078916	49.26 ug/L	100
46) 1,3-Dichloropropane	15.94	76	429180	51.99 ug/L	81
47) Ethyl Methacrylate	15.97	69	1744269	259.70 ug/L #	84
48) 2-Hexanone	16.16	58	497677	232.99 ug/L	85
50) Dibromochloromethane	16.32	127	184032	52.32 ug/L	100
51) 1,2-Dibromoethane	16.68	107	216225	48.89 ug/L	97
52) Tetrachloroethene	16.91	166	223825	44.01 ug/L	99
53) 1,1,1,2-Tetrachloroethane	17.76	131	238325	51.23 ug/L	99
54) Chlorobenzene	17.87	112	670159	47.63 ug/L	96
55) Ethylbenzene	18.14	91	1208598	47.19 ug/L	98
56) m,p-Xylene	18.41	91	1822667	95.15 ug/L	97
57) Bromoform	18.58	173	141323	46.40 ug/L	90
58) Styrene	18.88	104	652099	48.03 ug/L	96
59) o-Xylene	18.97	91	972958	49.41 ug/L	98
60) 1,1,2,2-Tetrachloroethane	18.97	83	313097	50.96 ug/L	98
61) 1,2,3-Trichloropropane	19.17	75	307001	48.96 ug/L	99
62) Trans-1.4-dichloro-2-buten	19.20	53	59102	43.64 ug/L	96
65) Isopropylbenzene	19.49	105	1091503	48.16 ug/L	98
67) Bromobenzene	19.85	77	523882	50.29 ug/L	90
68) Propylbenzene	20.11	91	1363070	47.70 ug/L	96
69) 2-Chlorotoluene	20.25	91	831235	48.77 ug/L	96
70) 4-Chlorotoluene	20.36	91	811283	48.23 ug/L	96
71) 1,3,5-Trimethylbenzene	20.51	105	856520	48.79 ug/L	98
72) t-Butylbenzene	20.92	119	729605	48.54 ug/L	95
73) 1,2,4-trimethylbenzene	21.08	105	849256	48.60 ug/L	98
74) sec-Butylbenzene	21.25	105	1178418	47.94 ug/L	97
75) 1,3-Dichlorobenzene	21.37	146	468831	48.03 ug/L	99
76) 1,4-Dichlorobenzene	21.47	146	483292	47.15 ug/L	99
77) 1,2-Dichlorobenzene	22.03	146	454363	49.81 ug/L	97
78) p-Isopropyltoluene	21.52	119	874012	46.58 ug/L	98
79) Butylbenzene	22.17	91	876435	45.60 ug/L	97
80) 1,2-Dibromo-3-chloropropan	22.84	157	39542	38.52 ug/L	90
81) 1,2,4-Trichlorobenzene	25.62	180	208071	40.56 ug/L	99
82) Naphthalene	26.20	128	497812	38.00 ug/L	100
83) Hexachlorobutadiene	26.33	225	123560	44.26 ug/L	98
84) 1,2,3-Trichlorobenzene	26.66	180	208274	42.67 ug/L	99

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

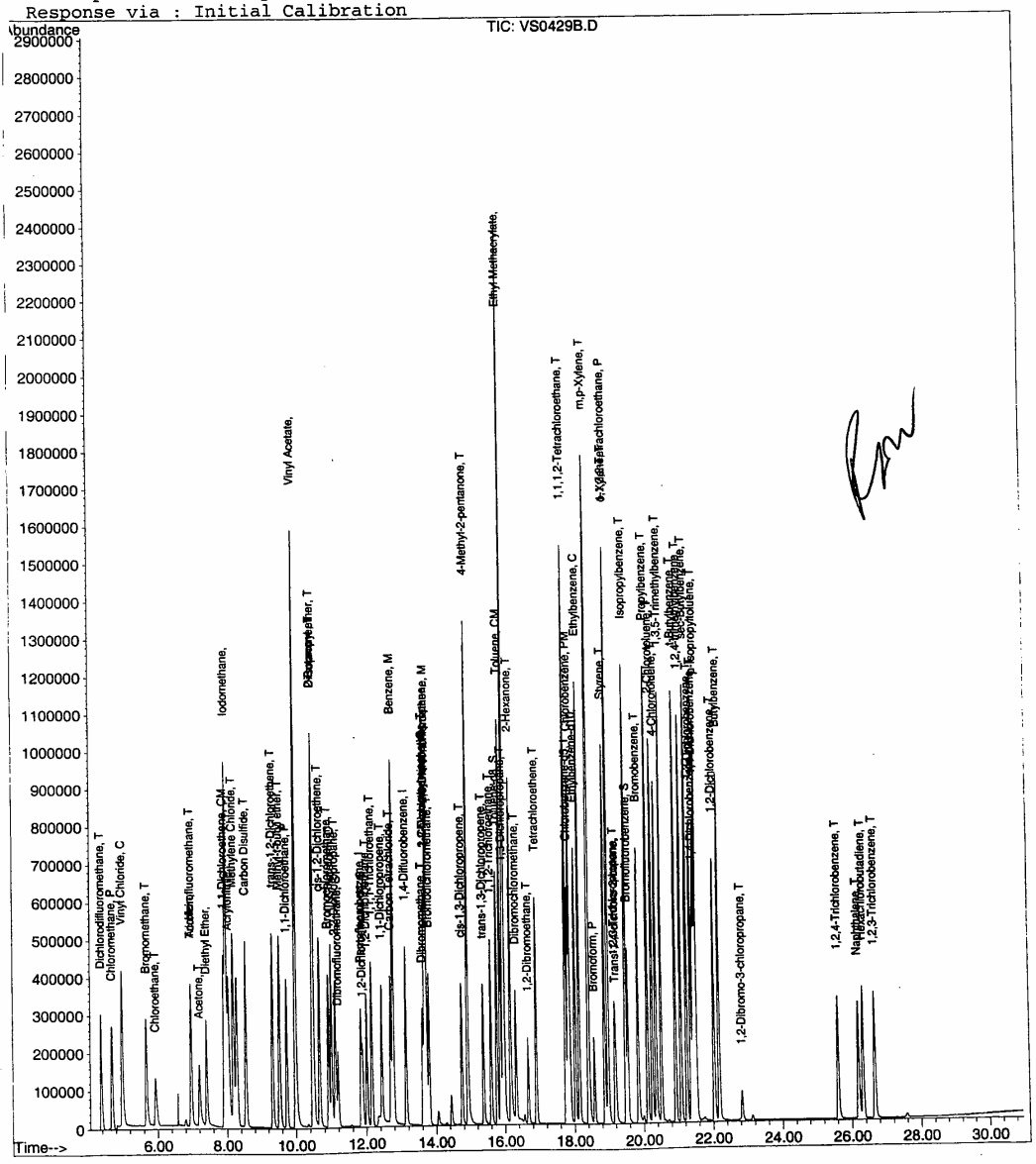
Quantitation Report

Data File : C:\HPCHEM\1\DATA\042400\VS0429B.D
Acq On : 29 Apr 2000 10:10 pm
Sample : 1
Misc : voa std 50 ug/l
MS Integration Params: rteint.p
Quant Time: May 12 8:15 19100

Vial: 19
Operator:
Inst : HP-10
Multiplr: 1.00

Quant Results File: S041200.RES

Method : C:\HPCHEM\1\METHODS\S041200.M (RTE Integrator)
Title : 8260 volatile organics
Last Update : Fri May 12 08:15:05 2000
Response via : Initial Calibration



Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\042400\AS0429B.D
Acq On : 29 Apr 2000 10:47 pm
Sample : 1
Misc : app ixstd 50 ug/l
MS Integration Params: rteint.p

Vial: 20
Operator:
Inst : HP-10
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\APS0219.M (RTE Integrator)
Title : APPIX IX MIX
Last Update : Tue Mar 21 17:13:42 2000
Response via : Multiple Level Calibration

Min. RRF : 0.010 Min. Rel. Area : 20% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	Pentafluorobenzene	1.000	1.000	0.0	67	-0.06
2		ethanol	0.003	0.000#	100.0#	1#	-0.03
3		acetonitrile	0.160	0.131	18.1	65	-0.12
		isopropyl alcohol	0.150	0.131	12.7	65	-0.22
5		t-butyl alcohol	0.115	0.097	15.7	64	-0.07
6		bromoethane	0.649	0.623	4.0	66	-0.07
7		trichlorotrifluoroethane	0.575	0.557	3.1	68	-0.07
		3-chloro-1-propene (allyl c	2.425	2.667	-10.0	77	-0.07
9	I	propionitrile	0.137	0.135	1.5	74	-0.10
10		hexane	1.579	1.546	2.1	69	-0.07
11	I	methacrylonitrile	0.670	0.726	-8.4	78	-0.07
1		ethyl acetate	1.081	1.134	-4.9	76	-0.06
1		isobutanol	1.081	1.134	-4.9	76	-0.06
14		tetrahydrofuran	0.328	0.303	7.6	73	-0.07
15		cyclohexane	1.829	1.845	-0.9	70	-0.05
1	s	1,2-Dichloroethane-d4	0.994	1.101	-10.8	75	-0.06
1	S	Dibromofluoromethane	0.984	0.976	0.8	67	-0.06
18	I	1,4-Difluorobenzene	1.000	1.000	0.0	67	-0.05
1		1,4-dioxane	0.013	0.012	7.7	63	-0.05
2		methyl methacrylate	1.334	1.358	-1.8	73	-0.07
21	S	Toluene-d8	5.117	4.893	4.4	64	-0.05
22		ethyl methacrylate	2.346	1.787	23.8#	63	-0.06
2		butyl acetate	2.489	2.923	-17.4	77	-0.05
2		cis-1,4-Dichloro-2-butene	0.422	0.349	17.3	58	-0.06
25		cyclohexanone	0.060	0.061	-1.7	76	-0.06
26		trans-1,4-Dichloro-2-butene	0.482	0.453	6.0	69	-0.05
2	I	Chlorobenzene-d5	1.000	1.000	0.0	62	-0.05
28		DIBK	2.673	2.813	-5.2	68	-0.05
2		1,4-Dichlorobenzene-d4	1.000	1.000	0.0	56	-0.05
30		Ethylbenzene-d10	1.000	1.000	0.0	63	-0.05
31	S	Bromofluorobenzene	0.304	0.285	6.3	59	-0.04
		pentachloroethane	0.113	0.143	-26.5#	76	-0.04
		bis-2-chloromethyl ether	0.101	0.091	9.9	63	-0.07
34		2-methylnaphthalene	0.207	0.176	15.0	70	-0.09

(#) = Out of Range SPCC's out = 0 CCC's out = 0
AS0429B.D APS0219.M Wed May 10 16:38:48 2000

Evaluate Continuing Calibration Report

200

Data File : C:\HPCHEM\1\DATA\042400\AS0429B.D
Acq On : 29 Apr 2000 10:47 pm
Sample : 1
Misc : app ixstd 50 ug/l
MS Integration Params: rteint.p

Vial: 20
Operator:
Inst : HP-10
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\APS0219.M (RTE Integrator)
Title : APPIX IX MIX
Last Update : Tue Mar 21 17:13:42 2000
Response via : Multiple Level Calibration

Min. RRF : 0.010 Min. Rel. Area : 20% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	Pentafluorobenzene	30.000	30.000	0.0	67	-0.06
2		ethanol	500.000	-16.466	103.3#	1	-0.03
3		acetonitrile	500.000	409.525	18.1	65	-0.12
4		isopropyl alcohol	500.000	438.131	12.4	65	-0.22
5		t-butyl alcohol	500.000	422.223	15.6	64	-0.07
6		bromoethane	50.000	48.002	4.0	66	-0.07
7		trichlorotrifluoroethane	50.000	48.486	3.0	68	-0.07
8		3-chloro-1-propene (allyl c	50.000	55.002	-10.0	77	-0.07
9	I	propionitrile	500.000	453.290	9.3	74	-0.10
10		hexane	50.000	48.945	2.1	69	-0.07
11	I	methacrylonitrile	500.000	541.692	-8.3	78	-0.07
12		ethyl acetate	500.000	524.631	-4.9	76	-0.06
13		isobutanol	500.000	524.631	-4.9	76	-0.06
14		tetrahydrofuran	500.000	462.611	7.5	73	-0.07
15		cyclohexane	50.000	50.421	-0.8	70	-0.05
16	s	1,2-Dichloroethane-d4	30.000	33.228	-10.8	75	-0.06
17	S	Dibromofluoromethane	30.000	29.750	0.8	67	-0.06
18	I	1,4-Difluorobenzene	30.000	30.000	0.0	67	-0.05
19		1,4-dioxane	500.000	390.449	21.9#	63	-0.05
20		methyl methacrylate	50.000	50.887	-1.8	73	-0.07
21	S	Toluene-d8	30.000	28.685	4.4	64	-0.05
22		ethyl methacrylate	50.000	41.422	17.2	63	-0.06
23		butyl acetate	500.000	657.526	-31.5#	77	-0.05
24		cis-1,4-Dichloro-2-butene	50.000	37.597	24.8#	58	-0.06
25		cyclohexanone	500.000	447.114	10.6	76	-0.06
26		trans-1,4-Dichloro-2-butene	50.000	43.006	14.0	69	-0.05
27	I	Chlorobenzene-d5	30.000	30.000	0.0	62	-0.05
28		DIBK	50.000	52.616	-5.2	68	-0.05
29		1,4-Dichlorobenzene-d4	30.000	30.000	0.0	56	-0.05
30		Ethylbenzene-d10	30.000	30.000	0.0	63	-0.05
31	S	Bromofluorobenzene	30.000	28.134	6.2	59	-0.04
32		pentachloroethane	50.000	63.415	-26.8#	76	-0.04
33		bis-2-chloromethyl ether	50.000	41.558	16.9	63	-0.07
34		2-methylnaphthalene	50.000	47.322	5.4	70	-0.09

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

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\042400\AS0429B.D
Acq On : 29 Apr 2000 10:47 pm
Sample : 1
Misc : app ixstd 50 ug/l
MS Integration Params: rteint.p
Quant Time: May 10 16:37 19100

Vial: 20
Operator:
Inst : HP-10
Multiplr: 1.00

Quant Results File: APS0219.RES

Quant Method : C:\HPCHEM\1\METHODS\APS0219.M (RTE Integrator)
Title : APPIX IX MIX
Last Update : Tue Mar 21 17:13:42 2000
Response via : Initial Calibration
DataAcq Meth : S041200

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Pentafluorobenzene	11.85	99	179524	30.00 ug/L	-0.06
18) 1,4-Difluorobenzene	13.14	63	115667	30.00 ug/L	-0.05
27) Chlorobenzene-d5	17.82	119	136186	30.00 ug/L	-0.05
29) 1,4-Dichlorobenzene-d4	21.43	152	185747	30.00 ug/L	-0.05
30) Ethylbenzene-d10	18.02	98	704409	30.00 ug/L	-0.05
System Monitoring Compounds					
16) 1,2-Dichloroethane-d4	11.89	65	197618	33.23 ug/L	-0.06
Spiked Amount 30.000			Recovery = 110.77%		
17) Dibromofluoromethane	11.19	111	175192	29.75 ug/L	-0.06
Spiked Amount 30.000			Recovery = 99.17%		
21) Toluene-d8	15.77	98	565946	28.68 ug/L	-0.05
Spiked Amount 30.000			Recovery = 95.60%		
31) Bromofluorobenzene	19.55	95	200603	28.13 ug/L	-0.04
Spiked Amount 30.000			Recovery = 93.77%		

Target Compounds					Qvalue
2) ethanol	6.05	41	182	-16.47 ug/L #	100
3) acetonitrile	7.01	41	392836	409.53 ug/L #	76
4) isopropyl alcohol	7.01	41	392836	438.13 ug/L #	100
5) t-butyl alcohol	7.99	59	291397	422.22 ug/L #	1
6) bromoethane	8.00	108	186489	48.00 ug/L	92
7) trichlorotrifluoroethane	8.28	151	166751	48.49 ug/L #	75
8) 3-chloro-1-propene (allyl	8.34	41	798025	55.00 ug/L #	6
9) propionitrile	9.78	54	403566	453.29 ug/L #	93
10) hexane	10.41	57	462524	48.94 ug/L #	78
11) methacrylonitrile	10.61	41	2172071	541.69 ug/L #	61
12) ethyl acetate	11.00	43	3392845	524.63 ug/L	96
13) isobutanol	11.00	43	3392845	524.63 ug/L #	15
14) tetrahydrofuran	11.52	42	907835	462.61 ug/L	94
15) cyclohexane	12.58	56	551948	50.42 ug/L #	67
19) 1,4-dioxane	14.01	88	23356	390.45 ug/L #	49
20) methyl methacrylate	14.04	41	261703	50.89 ug/L #	93
22) ethyl methacrylate	15.98	69	344559	41.42 ug/L #	93
23) butyl acetate	16.62	43	5634953	657.53 ug/L	98
24) cis-1,4-Dichloro-2-butene	18.76	75	67259	37.60 ug/L #	74
25) cyclohexanone	18.91	55	116634	447.11 ug/L #	90
26) trans-1,4-Dichloro-2-buten	19.21	75	87389	43.01 ug/L #	99
28) DIBK	20.23	57	638491	52.62 ug/L	95
32) pentachloroethane	20.63	117	167648	63.41 ug/L #	90
33) bis-2-chloromethyl ether	21.90	45	106781m	41.56 ug/L	
34) 2-methylnaphthalene	29.26	142	206306	47.32 ug/L	96

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

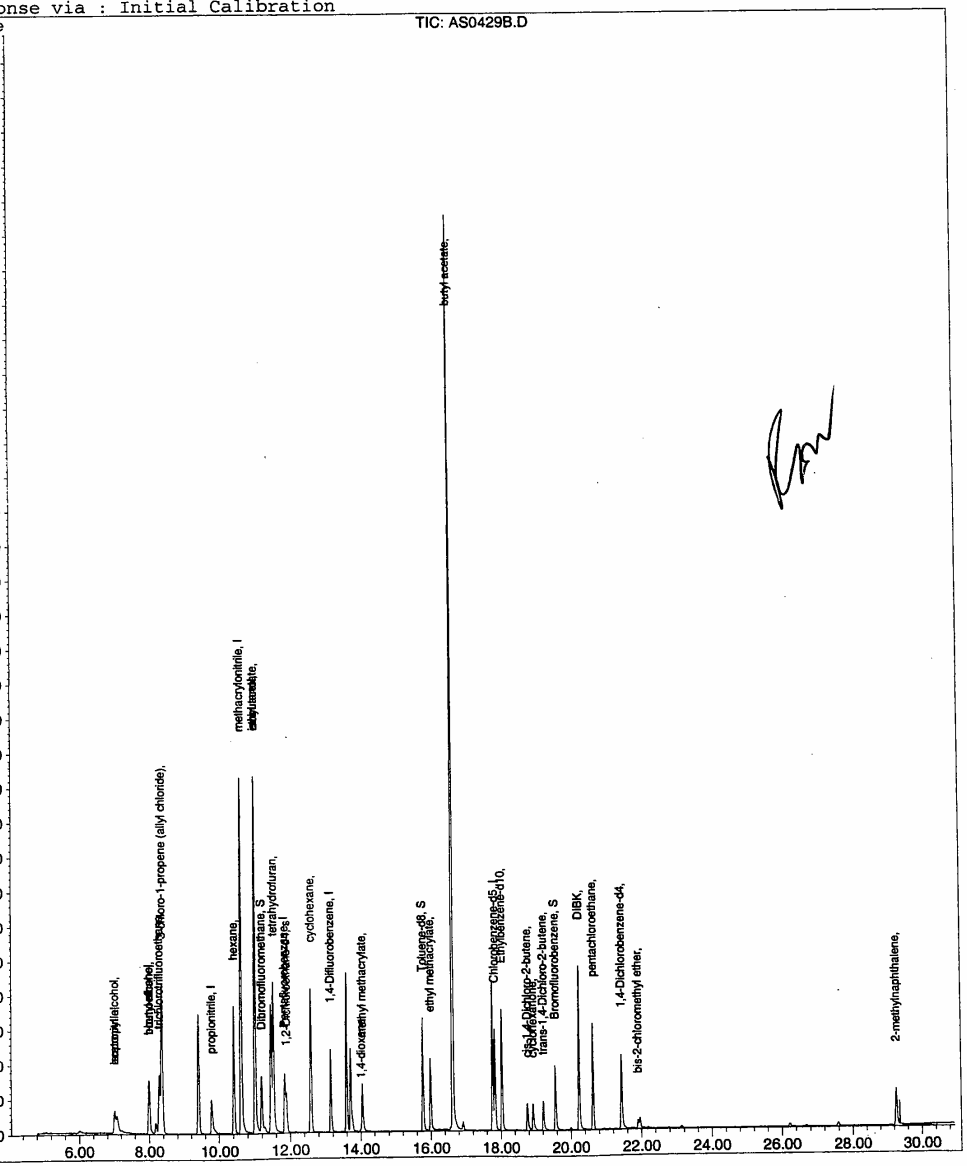
Quantitation Report

Data File : C:\HPCHEM\1\DATA\042400\AS0429B.D
Acq On : 29 Apr 2000 10:47 pm
Sample : 1
Misc : app ixstd 50 ug/l
MS Integration Params: rteint.p
Quant Time: May 10 16:37 19100

Vial: 20
Operator:
Inst : HP-10
Multiplr: 1.00

Quant Results File: APS0219.RES

Method : C:\HPCHEM\1\METHODS\APS0219.M (RTE Integrator)
Title : APPIX IX MIX
Last Update : Tue Mar 21 17:13:42 2000
Response via : Initial Calibration

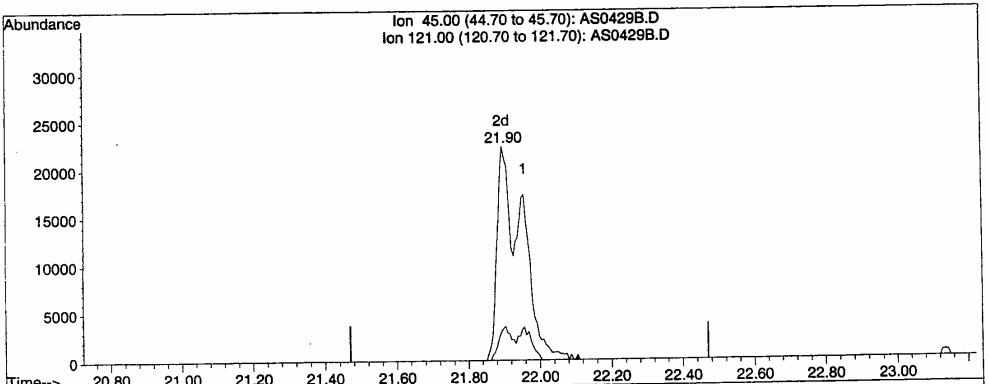


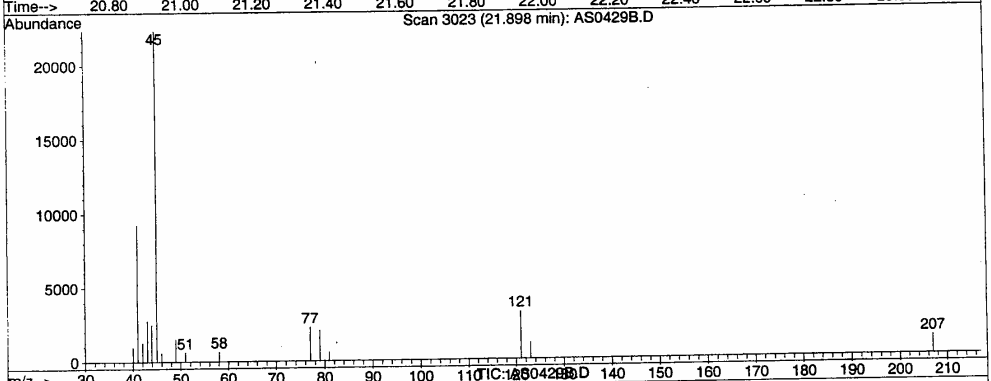
Quantitation Report

Data File : C:\HPCHEM\1\DATA\042400\AS0429B.D
Acq On : 29 Apr 2000 10:47 pm
Sample : 1
Misc : app ixstd 50 ug/l
Quant Time: May 10 16:37 19100

Vial: 20
Operator:
Inst : HP-10
Multiplr: 1.00
Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\APS0219.M (RTE Integrator)
Title : APPIX IX MIX
Last Update : Tue Mar 21 17:13:42 2000
Response via : Multiple Level Calibration





(33) bis-2-chloromethyl ether

21.90min 41.56ug/L m

response 106781

Ion	Exp%	Act%
45.00	100	100
121.00	23.60	7.68#
0.00	0.00	0.00
0.00	0.00	0.00

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\050100\VS0501.D
Acq On : 1 May 2000 9:44 am
Sample : 1
Misc : voa std 50 ug/l
MS Integration Params: rteint.p

Vial: 1
Operator:
Inst : HP-10
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\S041200.M (RTE Integrator)
Title : 8260 volatile organics
Last Update : Fri May 12 08:15:05 2000
Response via : Single Level Calibration

Min. RRF : 0.010 Min. Rel. Area : 10% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 500%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	Pentafluorobenzene	1.000	1.000	0.0	74	-0.07
2	T	Dichlorodifluoromethane	0.867	0.818	5.7	68	-0.06
3	P	Chloromethane	1.056	0.964	8.7	70	-0.08
	C	Vinyl Chloride	0.783	0.799	-2.0	75	-0.06
	T	Bromomethane	0.639	0.530	17.1	71	-0.11
6	T	Chloroethane	0.456	0.438	3.9	71	-0.09
7	T	Trichlorofluoromethane	0.788	0.746	5.3	70	-0.11
		Acrolein	0.034	0.069	-102.9#	154	-0.12
	T	Acetone	0.183	0.187	-2.2	87	-0.12
10		Diethyl Ether	0.463	0.517	-11.7	82	-0.11
11	CM	1,1-Dichloroethene	0.501	0.451	10.0	69	-0.11
1		Iodomethane	0.420	0.354	15.7	46	-0.10
1		Acrylonitrile	0.181	0.234	-29.3#	96	-0.10
14	T	Methylene Chloride	1.442	0.679	52.9#	70	-0.10
15	T	Carbon Disulfide	1.905	1.994	-4.7	78	-0.10
1	T	trans-1,2-Dichloroethene	0.934	0.863	7.6	68	-0.09
1	T	Methyl-t-butyl ether	1.514	1.550	-2.4	75	-0.10
18	P	1,1-Dichloroethane	1.126	1.074	4.6	70	-0.09
19		Vinyl Acetate	1.378	1.597	-15.9	82	0.02
2	T	2-Butanone	0.483	0.526	-8.9	81	-0.09
2	T	Diisopropyl ether	2.365	2.445	-3.4	76	-0.09
22	T	cis-1,2-Dichloroethene	0.853	0.826	3.2	71	-0.09
23	T	Bromochloromethane	0.335	0.292	12.8	63	-0.09
2	C	Chloroform	1.006	0.969	3.7	71	-0.08
2	T	2,2-Dichloropropane	0.769	0.730	5.1	70	-0.09
26	S	1,2-Dichloroethane-d4	0.611	0.450	26.4#	50	0.02
27	S	Dibromofluoromethane	0.439	0.407	7.3	59	-0.08
2	T	1,2-Dichloroethane	0.730	0.751	-2.9	76	-0.08
2	T	1,1,1-Trichloroethane	0.747	0.683	8.6	68	-0.08
30	T	1,1-Dichloropropene	0.640	0.588	8.1	68	-0.07
3	I	1,4-Difluorobenzene	1.000	1.000	0.0	78	-0.07
3	T	Carbon Tetrachloride	0.377	0.331	12.2	67	-0.08
33	M	Benzene	1.479	1.297	12.3	69	-0.08
34	T	Dibromomethane	0.207	0.196	5.3	74	-0.07
3		2,3-Dichloro-1-propene	0.166	0.160	3.6	73	0.02
3	C	1,2-Dichloropropane	0.408	0.377	7.6	72	-0.07
37	M	Trichloroethene	0.328	0.287	12.5	68	-0.07
38	T	Bromodichloromethane	0.416	0.397	4.6	73	-0.07
3	T	2-Chloroethyl vinyl ether	0.082	0.075	8.5	72	-0.07
3	T	cis-1,3-Dichloropropene	0.509	0.472	7.3	71	-0.07
41	T	4-Methyl-2-pentanone	0.137	0.141	-2.9	80	-0.07
42	T	trans-1,3-Dichloropropene	0.471	0.462	1.9	73	-0.06
3	T	1,1,2-Trichloroethane	0.266	0.259	2.6	76	-0.06
4	S	Toluene-d8	1.041	0.796	23.5#	51	-0.06
45	CM	Toluene	1.391	1.187	14.7	67	-0.06
46	T	1,3-Dichloropropane	0.524	0.510	2.7	76	-0.06
7		Ethyl Methacrylate	0.427	0.437	-2.3	78	-0.06
8	T	2-Hexanone	0.136	0.139	-2.2	79	-0.06
49	I	Chlorobenzene-d5	1.000	1.000	0.0	78	-0.05
0	T	Dibromochloromethane	0.787	0.815	-3.6	76	-0.06
1	T	1,2-Dibromoethane	0.989	0.982	0.7	74	-0.06
52	T	Tetrachloroethene	1.138	0.970	14.8	66	-0.05
53	T	1,1,1,2-Tetrachloroethane	1.041	0.980	5.9	71	-0.05

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\050100\VS0501.D Vial: 1
Acq On : 1 May 2000 9:44 am Operator:
Sample : 1 Inst : HP-10
Misc : voa std 50 ug/l Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\HPCHEM\1\METHODS\S041200.M (RTE Integrator)
Title : 8260 volatile organics
Last Update : Fri May 12 08:15:05 2000
Response via : Single Level Calibration

Min. RRF : 0.010 Min. Rel. Area : 10% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 500%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
5	PM	Chlorobenzene	3.148	2.768	12.1	69	-0.06
55	C	Ethylbenzene	5.730	4.929	14.0	67	-0.05
56	T	m,p-Xylene	4.286	3.721	13.2	67	-0.05
5	P	Bromoform	0.605	0.638	-5.5	75	-0.06
5	T	Styrene	3.038	2.761	9.1	67	-0.05
59	T	o-Xylene	4.405	3.883	11.9	68	-0.06
60	P	1,1,2,2-Tetrachloroethane	1.375	1.424	-3.6	78	-0.05
6	T	1,2,3-Trichloropropane	1.403	1.426	-1.6	76	-0.05
6		Trans-1.4-dichloro-2-butene	0.243	0.277	-14.0	73	-0.02
63		1,4-Dichlorobenzene-d4	1.000	1.000	0.0	77	-0.05
6		Ethylbenzene-d10	1.000	1.000	0.0	77	-0.05
65	T	Isopropylbenzene	0.971	0.841	13.4	65	-0.05
66	S	Bromofluorobenzene	0.299	0.212	29.1#	47	-0.05
6	T	Bromobenzene	0.446	0.411	7.8	70	-0.05
6	T	Propylbenzene	1.224	1.083	11.5	66	0.01
69	T	2-Chlorotoluene	0.730	0.646	11.5	67	0.02
70	T	4-Chlorotoluene	0.720	0.656	8.9	68	0.01
7	T	1,3,5-Trimethylbenzene	0.752	0.676	10.1	67	-0.05
7	T	t-Butylbenzene	0.644	0.551	14.4	64	-0.05
73	T	1,2,4-trimethylbenzene	0.748	0.686	8.3	69	-0.05
74	T	sec-Butylbenzene	1.053	0.915	13.1	66	-0.05
7	T	1,3-Dichlorobenzene	0.418	0.389	6.9	70	0.00
7	T	1,4-Dichlorobenzene	0.439	0.410	6.6	72	0.00
77	T	1,2-Dichlorobenzene	0.391	0.369	5.6	71	-0.06
78	T	p-Isopropyltoluene	0.804	0.712	11.4	66	-0.06
	T	Butylbenzene	0.823	0.762	7.4	69	-0.06
8	T	1,2-Dibromo-3-chloropropane	0.074	0.036	51.4#	68	-0.07
81	T	1,2,4-Trichlorobenzene	0.220	0.222	-0.9	78	-0.07
82	T	Naphthalene	0.561	0.530	5.5	76	-0.08
8	T	Hexachlorobutadiene	0.120	0.105	12.5	66	-0.08
8	T	1,2,3-Trichlorobenzene	0.209	0.205	1.9	76	-0.08

(#) = Out of Range SPCC's out = 0 CCC's out = 0
VS0501.D S041200.M Fri May 12 08:20:26 2000

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\050100\VS0501.D
Acq On : 1 May 2000 9:44 am
Sample : 1
Misc : voa std 50 ug/l
MS Integration Params: rteint.p

Vial: 1
Operator:
Inst : HP-10
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\S041200.M (RTE Integrator)
Title : 8260 volatile organics
Last Update : Fri May 12 08:15:05 2000
Response via : Single Level Calibration

Min. RRF : 0.010 Min. Rel. Area : 10% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 500%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	Pentafluorobenzene	30.000	30.000	0.0	74	-0.07
2	T	Dichlorodifluoromethane	50.000	47.218	5.6	68	-0.06
3	P	Chloromethane	50.000	45.634	8.7	70	-0.08
	C	Vinyl Chloride	50.000	51.015	-2.0	75	-0.06
5	T	Bromomethane	50.000	41.474	17.1	71	-0.11
6	T	Chloroethane	50.000	47.957	4.1	71	-0.09
7	T	Trichlorofluoromethane	50.000	47.350	5.3	70	-0.11
		Acrolein	250.000	390.950	-56.4#	154	-0.12
9	T	Acetone	250.000	287.382	-15.0	87	-0.12
10		Diethyl Ether	50.000	55.782	-11.6	82	-0.11
11	CM	1,1-Dichloroethene	50.000	45.067	9.9	69	-0.11
12		Iodomethane	250.000	174.080	30.4#	46	-0.10
13		Acrylonitrile	250.000	322.794	-29.1#	96	-0.10
14	T	Methylene Chloride	50.000	46.258	7.5	70	-0.10
15	T	Carbon Disulfide	50.000	52.341	-4.7	78	-0.10
16	T	trans-1,2-Dichloroethene	50.000	46.248	7.5	68	-0.09
17	T	Methyl-t-butyl ether	50.000	51.200	-2.4	75	-0.10
18	P	1,1-Dichloroethane	50.000	47.672	4.7	70	-0.09
19		Vinyl Acetate	250.000	289.743	-15.9	82	0.02
20	T	2-Butanone	250.000	271.805	-8.7	81	-0.09
21	T	Diisopropyl ether	50.000	51.696	-3.4	76	-0.09
22	T	cis-1,2-Dichloroethene	50.000	48.445	3.1	71	-0.09
23	T	Bromochloromethane	50.000	43.613	12.8	63	-0.09
24	C	Chloroform	50.000	48.146	3.7	71	-0.08
25	T	2,2-Dichloropropane	50.000	47.502	5.0	70	-0.09
26	S	1,2-Dichloroethane-d4	42.500	29.986	29.4#	50	0.02
27	S	Dibromofluoromethane	42.500	37.820	11.0	59	-0.08
28	T	1,2-Dichloroethane	50.000	51.465	-2.9	76	-0.08
29	T	1,1,1-Trichloroethane	50.000	45.763	8.5	68	-0.08
30	T	1,1-Dichloropropene	50.000	45.945	8.1	68	-0.07
31	I	1,4-Difluorobenzene	30.000	30.000	0.0	78	-0.07
32	T	Carbon Tetrachloride	50.000	43.820	12.4	67	-0.08
33	M	Benzene	50.000	43.827	12.3	69	-0.08
34	T	Dibromomethane	50.000	47.322	5.4	74	-0.07
35		2,3-Dichloro-1-propene	50.000	47.979	4.0	73	0.02
36	C	1,2-Dichloropropane	50.000	46.215	7.6	72	-0.07
37	M	Trichloroethene	50.000	43.866	12.3	68	-0.07
38	T	Bromodichloromethane	50.000	47.749	4.5	73	-0.07
39	T	2-Chloroethyl vinyl ether	250.000	231.077	7.6	72	-0.07
40	T	cis-1,3-Dichloropropene	50.000	46.409	7.2	71	-0.07
41	T	4-Methyl-2-pentanone	250.000	258.873	-3.5	80	-0.07
42	T	trans-1,3-Dichloropropene	50.000	48.981	2.0	73	-0.06
43	T	1,1,2-Trichloroethane	50.000	48.662	2.7	76	-0.06
44	S	Toluene-d8	42.500	31.022	27.0#	51	-0.06
45	CM	Toluene	50.000	42.690	14.6	67	-0.06
46	T	1,3-Dichloropropane	50.000	48.596	2.8	76	-0.06
47		Ethyl Methacrylate	250.000	256.118	-2.4	78	-0.06
48	T	2-Hexanone	250.000	256.048	-2.4	79	-0.06
49	I	Chlorobenzene-d5	30.000	30.000	0.0	78	-0.05
50	T	Dibromochloromethane	50.000	51.760	-3.5	76	-0.06
51	T	1,2-Dibromoethane	50.000	49.617	0.8	74	-0.06
52	T	Tetrachloroethene	50.000	42.619	14.8	66	-0.05
53	T	1,1,1,2-Tetrachloroethane	50.000	47.079	5.8	71	-0.05

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\050100\VS0501.D Vial: 1
Acq On : 1 May 2000 9:44 am Operator:
Sample : 1 Inst : HP-10
Misc : voa std 50 ug/l Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\HPCHEM\1\METHODS\S041200.M (RTE Integrator)
Title : 8260 volatile organics
Last Update : Fri May 12 08:15:05 2000
Response via : Single Level Calibration

Min. RRF : 0.010 Min. Rel. Area : 10% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 500%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
54	PM	Chlorobenzene	50.000	43.977	12.0	69	-0.06
55	C	Ethylbenzene	50.000	43.010	14.0	67	-0.05
56	T	m,p-Xylene	100.000	86.832	13.2	67	-0.05
57	P	Bromoform	50.000	46.795	6.4	75	-0.06
58	T	Styrene	50.000	45.453	9.1	67	-0.05
59	T	o-Xylene	50.000	44.069	11.9	68	-0.06
60	P	1,1,2,2-Tetrachloroethane	50.000	51.786	-3.6	78	-0.05
6	T	1,2,3-Trichloropropane	50.000	50.819	-1.6	76	-0.05
6_		Trans-1.4-dichloro-2-butene	50.000	45.495	9.0	73	-0.02
63		1,4-Dichlorobenzene-d4	30.000	30.000	0.0	77	-0.05
6		Ethylbenzene-d10	30.000	30.000	0.0	77	-0.05
65	T	Isopropylbenzene	50.000	43.334	13.3	65	-0.05
66	S	Bromofluorobenzene	42.500	28.493	33.0#	47	-0.05
6	T	Bromobenzene	50.000	46.070	7.9	70	-0.05
6	T	Propylbenzene	50.000	44.253	11.5	66	0.01
69	T	2-Chlorotoluene	50.000	44.231	11.5	67	0.02
70	T	4-Chlorotoluene	50.000	45.497	9.0	68	0.01
7	T	1,3,5-Trimethylbenzene	50.000	44.970	10.1	67	-0.05
7	T	t-Butylbenzene	50.000	42.754	14.5	64	-0.05
73	T	1,2,4-trimethylbenzene	50.000	45.800	8.4	69	-0.05
74	T	sec-Butylbenzene	50.000	43.456	13.1	66	-0.05
7	T	1,3-Dichlorobenzene	50.000	46.554	6.9	70	0.00
7	T	1,4-Dichlorobenzene	50.000	46.733	6.5	72	0.00
77	T	1,2-Dichlorobenzene	50.000	47.202	5.6	71	-0.06
78	T	p-Isopropyltoluene	50.000	44.312	11.4	66	-0.06
7	T	Butylbenzene	50.000	46.283	7.4	69	-0.06
8	T	1,2-Dibromo-3-chloropropane	50.000	40.670	18.7	68	-0.07
81	T	1,2,4-Trichlorobenzene	50.000	50.628	-1.3	78	-0.07
82	T	Naphthalene	50.000	47.223	5.6	76	-0.08
8	T	Hexachlorobutadiene	50.000	43.910	12.2	66	-0.08
8	T	1,2,3-Trichlorobenzene	50.000	49.011	2.0	76	-0.08

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

Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\1\DATA\050100\VS0501.D
Acq On : 1 May 2000 9:44 am
Sample : 1
Misc : voa std 50 ug/l
MS Integration Params: rteint.p
Quant Time: May 12 8:20 19100

Vial: 1
Operator:
Inst : HP-10
Multiplr: 1.00

Quant Results File: S041200.RES

Quant Method : C:\HPCHEM\1\METHODS\S041200.M (RTE Integrator)
Title : 8260 volatile organics
Last Update : Fri May 12 08:15:05 2000
Response via : Initial Calibration
DataAcq Meth : S041200

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Pentafluorobenzene	11.86	168	347413	30.00 ug/L	-0.07
31) 1,4-Difluorobenzene	13.15	114	589666	30.00 ug/L	-0.07
49) Chlorobenzene-d5	17.83	119	156779	30.00 ug/L	-0.05
63) 1,4-Dichlorobenzene-d4	21.44	152	231619	30.00 ug/L	-0.05
64) Ethylbenzene-d10	18.03	98	814104	30.00 ug/L	-0.05
System Monitoring Compounds					
26) 1,2-Dichloroethane-d4	11.91	65	221361	29.99 ug/L	0.02
Spiked Amount 30.000			Recovery = 99.97%		
27) Dibromofluoromethane	11.20	111	200111	37.82 ug/L	-0.08
Spiked Amount 30.000			Recovery = 126.07%		
44) Toluene-d8	15.77	98	664963	31.02 ug/L	-0.06
Spiked Amount 30.000			Recovery = 103.40%		
66) Bromofluorobenzene	19.55	95	244749	28.49 ug/L	-0.05
Spiked Amount 30.000			Recovery = 94.97%		

Target Compounds					Qvalue
2) Dichlorodifluoromethane	4.43	85	473841	47.22 ug/L	99
3) Chloromethane	4.74	50	558142	45.63 ug/L	99
4) Vinyl Chloride	5.04	62	462458	51.02 ug/L	99
5) Bromomethane	5.69	96	307129	41.47 ug/L	100
6) Chloroethane	5.97	64	253503	47.96 ug/L	99
7) Trichlorofluoromethane	6.98	101	432226	47.35 ug/L	99
8) Acrolein	6.97	56	198828	390.95 ug/L	98
9) Acetone	7.21	43	542568	287.38 ug/L	96
10) Diethyl Ether	7.42	59	299241	55.78 ug/L	96
11) 1,1-Dichloroethene	7.93	96	261232	45.07 ug/L	94
12) Iodomethane	8.00	142	1026212	174.08 ug/L #	68
13) Acrylonitrile	8.05	53	677563	322.79 ug/L #	99
14) Methylene Chloride	8.20	84	393407	46.26 ug/L	99
15) Carbon Disulfide	8.56	76	1154521	52.34 ug/L	99
16) trans-1,2-Dichloroethene	9.34	61	499954	46.25 ug/L	95
17) Methyl-t-butyl ether	9.54	73	897613	51.20 ug/L	94
18) 1,1-Dichloroethane	9.75	63	621649	47.67 ug/L	99
19) Vinyl Acetate	10.00	43	4623239	289.74 ug/L	98
20) 2-Butanone	10.48	43	1521658	271.80 ug/L	93
21) Diisopropyl ether	10.50	45	1415573	51.70 ug/L	95
22) cis-1,2-Dichloroethene	10.68	61	478307	48.45 ug/L	96
23) Bromochloromethane	10.93	130	169344	43.61 ug/L	100
24) Chloroform	11.01	83	561077	48.15 ug/L	100
25) 2,2-Dichloropropane	11.13	77	422969	47.50 ug/L	100
28) 1,2-Dichloroethane	12.02	62	435005	51.46 ug/L	98
29) 1,1,1-Trichloroethane	12.16	97	395631	45.76 ug/L	97
30) 1,1-Dichloropropene	12.45	75	340644	45.95 ug/L	97
32) Carbon Tetrachloride	12.71	117	324848	43.82 ug/L	99
33) Benzene	12.78	78	1274507	43.83 ug/L	97
34) Dibromomethane	13.62	93	192625	47.32 ug/L	93
35) 2,3-Dichloro-1-propene	13.71	49	156857	47.98 ug/L	100
36) 1,2-Dichloropropane	13.68	63	370259	46.22 ug/L	97
37) Trichloroethene	13.74	130	282439	43.87 ug/L	95
38) Bromodichloromethane	13.81	83	390094	47.75 ug/L #	1
39) 2-Chloroethyl vinyl ether	13.68	63	370259	231.08 ug/L	97
40) cis-1,3-Dichloropropene	14.75	75	464044	46.41 ug/L	98
41) 4-Methyl-2-pentanone	14.92	58	694997	258.87 ug/L	88
42) trans-1,3-Dichloropropene	15.38	75	453735	48.98 ug/L	98

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

Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\1\DATA\050100\VS0501.D
Acq On : 1 May 2000 9:44 am
Sample : 1
Misc : voa std 50 ug/l
MS Integration Params: rteint.p
Quant Time: May 12 8:20 19100

Vial: 1
Operator:
Inst : HP-10
Multiplr: 1.00

Quant Results File: S041200.RES

Quant Method : C:\HPCHEM\1\METHODS\S041200.M (RTE Integrator)
Title : 8260 volatile organics
Last Update : Fri May 12 08:15:05 2000
Response via : Initial Calibration
DataAcq Meth : S041200

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
43) 1,1,2-Trichloroethane	15.60	97	254201	48.66 ug/L	98
45) Toluene	15.87	91	1167026	42.69 ug/L	100
46) 1,3-Dichloropropane	15.94	76	500747	48.60 ug/L	78
47) Ethyl Methacrylate	15.98	69	2147133	256.12 ug/L #	87
48) 2-Hexanone	16.17	58	682670	256.05 ug/L	89
50) Dibromochloromethane	16.33	127	212877	51.76 ug/L	99
51) 1,2-Dibromoethane	16.68	107	256553	49.62 ug/L	100
52) Tetrachloroethene	16.92	166	253394	42.62 ug/L	98
53) 1,1,1,2-Tetrachloroethane	17.76	131	256091	47.08 ug/L	99
54) Chlorobenzene	17.88	112	723395	43.98 ug/L	96
55) Ethylbenzene	18.15	91	1287877	43.01 ug/L	97
56) m,p-Xylene	18.42	91	1944787	86.83 ug/L	98
57) Bromoform	18.58	173	166737	46.79 ug/L	87
58) Styrene	18.89	104	721516	45.45 ug/L	97
59) o-Xylene	18.98	91	1014551	44.07 ug/L	98
60) 1,1,2,2-Tetrachloroethane	18.98	83	372037	51.79 ug/L	99
61) 1,2,3-Trichloropropane	19.18	75	372611	50.82 ug/L	100
62) Trans-1.4-dichloro-2-buten	19.21	53	72286	45.50 ug/L	94
65) Isopropylbenzene	19.49	105	1141522	43.33 ug/L	98
67) Bromobenzene	19.85	77	557885	46.07 ug/L	91
68) Propylbenzene	20.11	91	1469780	44.25 ug/L	97
69) 2-Chlorotoluene	20.26	91	876203	44.23 ug/L	97
70) 4-Chlorotoluene	20.36	91	889508	45.50 ug/L	96
71) 1,3,5-Trimethylbenzene	20.52	105	917552	44.97 ug/L	97
72) t-Butylbenzene	20.93	119	747040	42.75 ug/L	96
73) 1,2,4-trimethylbenzene	21.09	105	930236	45.80 ug/L	98
74) sec-Butylbenzene	21.25	105	1241549	43.46 ug/L	98
75) 1,3-Dichlorobenzene	21.37	146	528244	46.55 ug/L	100
76) 1,4-Dichlorobenzene	21.48	146	556749	46.73 ug/L	100
77) 1,2-Dichlorobenzene	22.04	146	500507	47.20 ug/L	98
78) p-Isopropyltoluene	21.53	119	966368	44.31 ug/L	98
79) Butylbenzene	22.18	91	1033951	46.28 ug/L	98
80) 1,2-Dibromo-3-chloropropan	22.83	157	48266	40.67 ug/L	91
81) 1,2,4-Trichlorobenzene	25.62	180	301872	50.63 ug/L	99
82) Naphthalene	26.20	128	719075	47.22 ug/L	100
83) Hexachlorobutadiene	26.33	225	142471	43.91 ug/L	98
84) 1,2,3-Trichlorobenzene	26.67	180	278033	49.01 ug/L	99

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

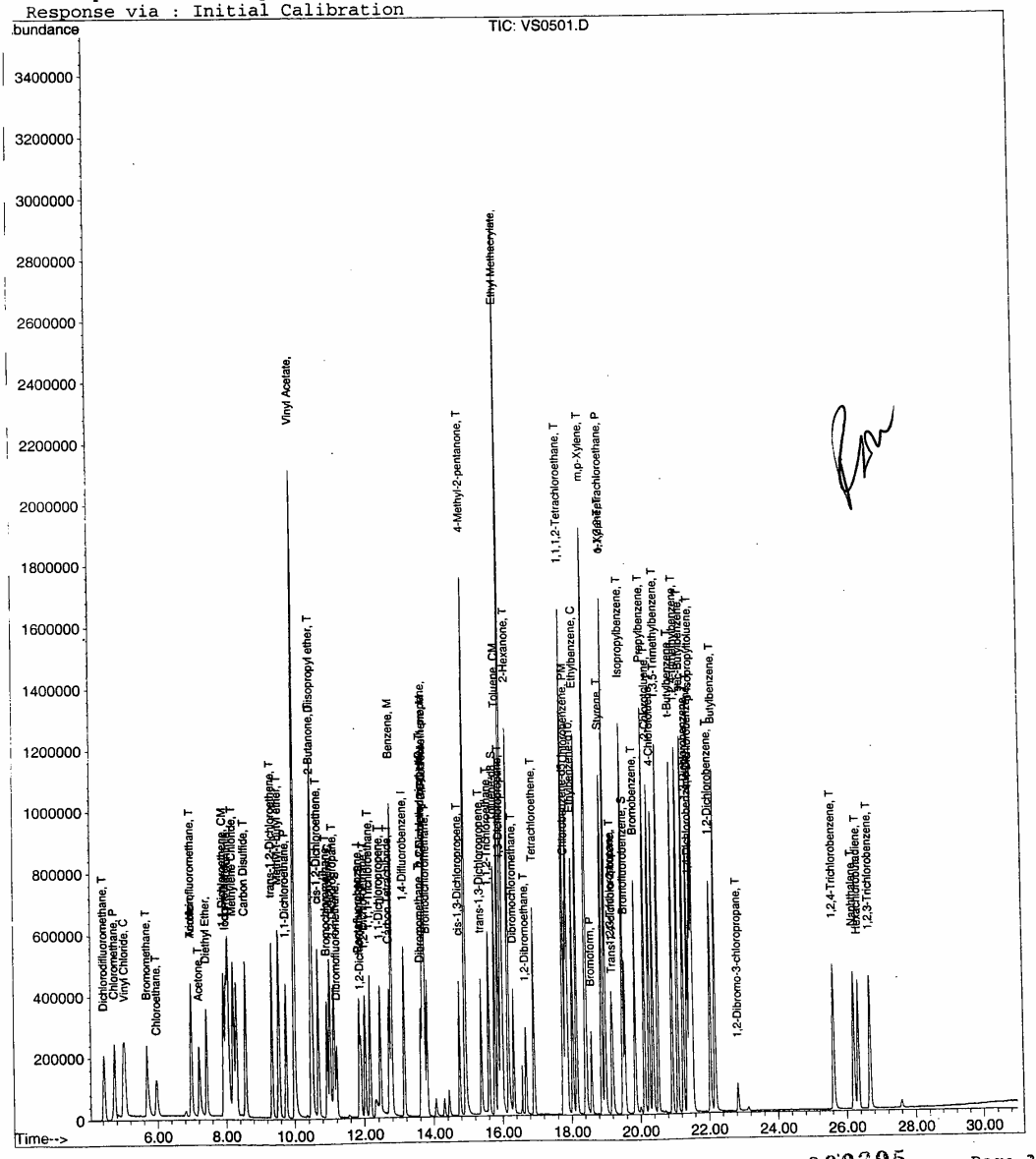
Quantitation Report

Data File : C:\HPCHEM\1\DATA\050100\VS0501.D
Acq On : 1 May 2000 9:44 am
Sample : 1
Misc : voa std 50 ug/l
MS Integration Params: rteint.p
Quant Time: May 12 8:20 19100

Vial: 1
Operator:
Inst : HP-10
Multiplr: 1.00

Quant Results File: S041200.RES

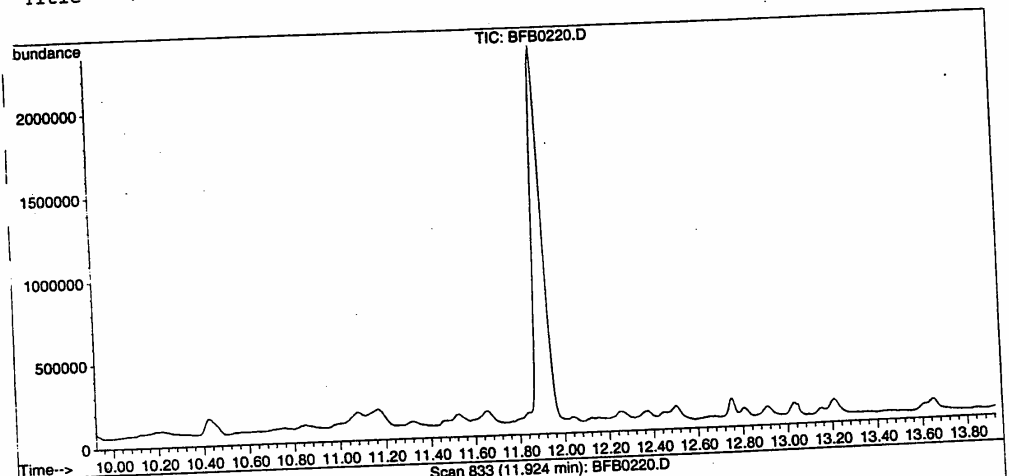
Method : C:\HPCHEM\1\METHODS\S041200.M (RTE Integrator)
Title : 8260 volatile organics
Last Update : Fri May 12 08:15:05 2000
Response via : Initial Calibration

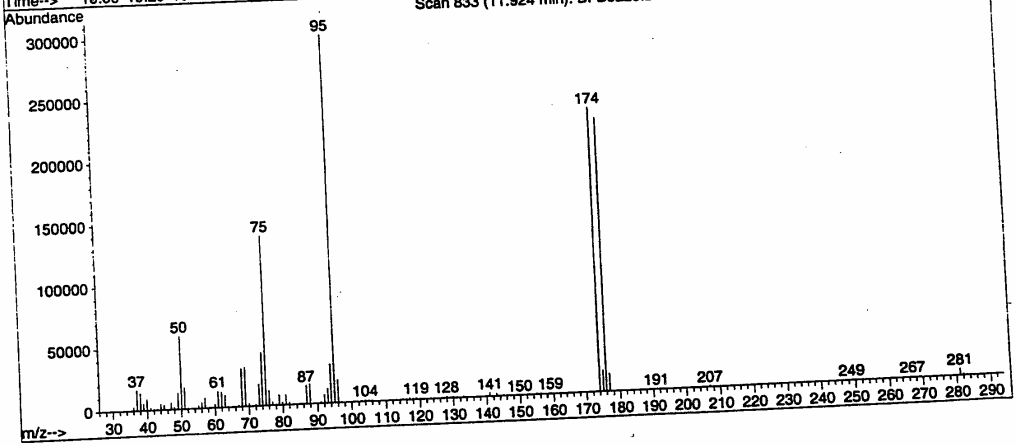


BFB

Data File : C:\HPCHEM\1\DATA\021400\BFB0220.D
Acq On : 20 Feb 2000 11:38 am
Sample : 1
Misc : bfb tune
MS Integration Params: rteint.p
Method : C:\HPCHEM\1\METHODS\S021800.M (RTE Integrator)
Title : 8260 volatile organics

Vial: 1
Operator:
Inst : HP-10
Multiplr: 1.00





Spectrum Information: Scan 833

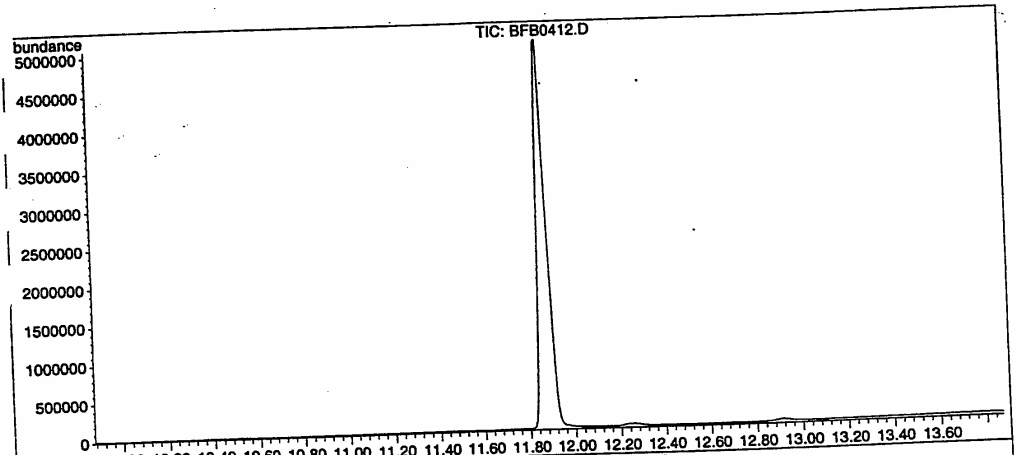
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	19.9	59384	PASS
75	95	30	60	46.1	137984	PASS
95	95	100	100	100.0	299008	PASS
96	95	5	9	6.3	18744	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	77.5	231680	PASS
175	174	5	9	7.5	17272	PASS
176	174	90	101	96.1	222592	PASS
177	176	5	9	6.5	14524	PASS

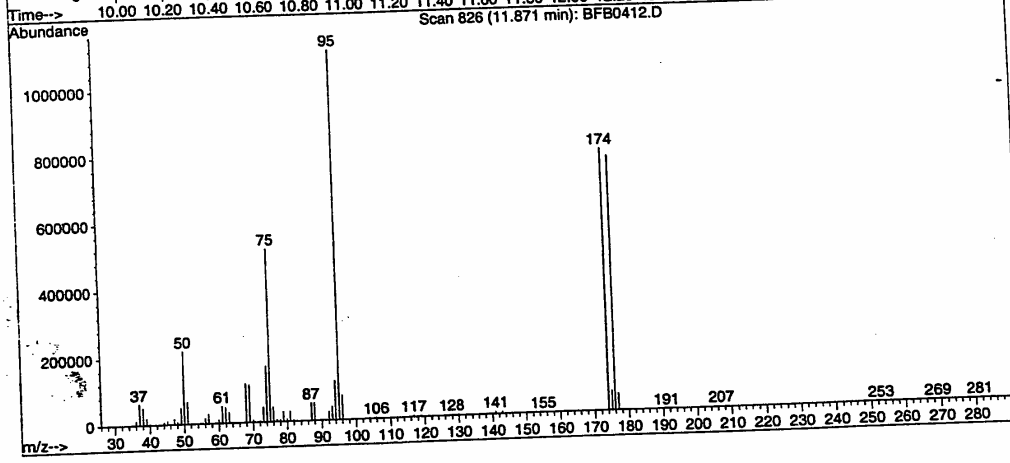
000306

BFB0220.D S021800.M Sun Feb 20 11:53:29 2000

Data File : C:\HPCHEM\1\DATA\041200\BFB0412.D
Acq On : 12 Apr 2000 4:06 pm
Sample : 1
Misc : soil
MS Integration Params: rteint.p
Method : C:\HPCHEM\1\METHODS\S040700.M (RTE Integrator)
Title : 8260 volatile organics

Vial: 1
Operator:
Inst : HP-10
Multiplr: 1.00



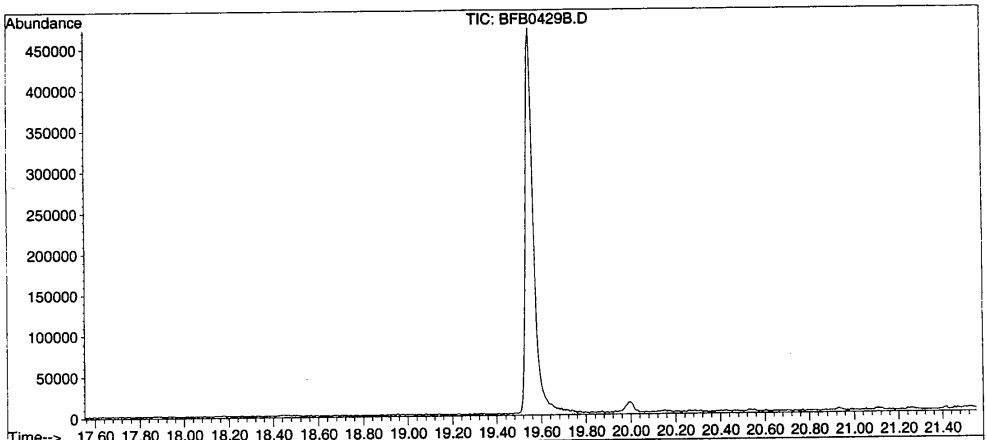


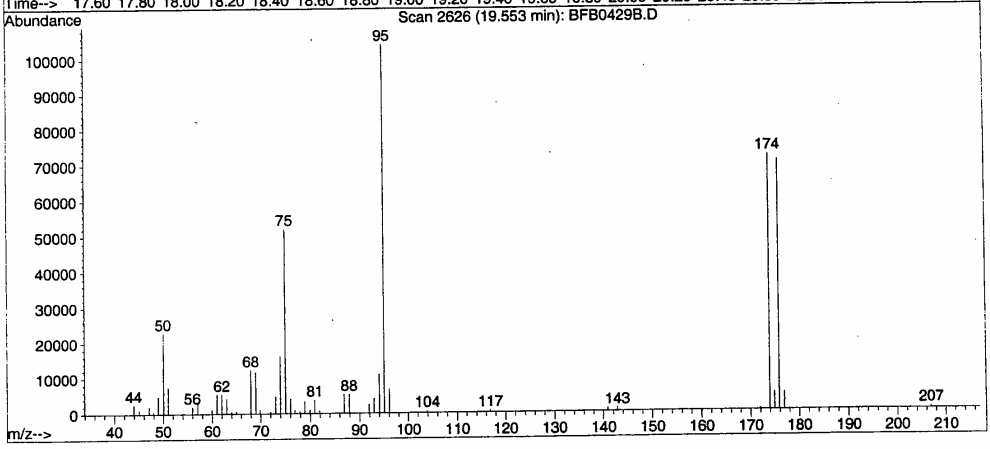
Spectrum Information: Scan 826

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	19.7	218560	PASS
75	95	30	60	46.7	518656	PASS
95	95	100	100	100.0	1109504	PASS
96	95	5	9	6.7	74024	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	71.2	789440	PASS
175	174	5	9	7.5	59272	PASS
176	174	95	101	97.2	767040	PASS
177	176	5	9	6.6	50512	PASS

Data File : C:\HPCHEM\1\DATA\042400\BFB0429B.D
Acq On : 29 Apr 2000 9:34 pm
Sample : 1
Misc : bfb tune
MS Integration Params: rteint.p
Method : C:\HPCHEM\1\METHODS\APS0219.M (RTE Integrator)
Title : APPIX IX MIX

Vial: 18
Operator:
Inst : HP-10
Multiplr: 1.00



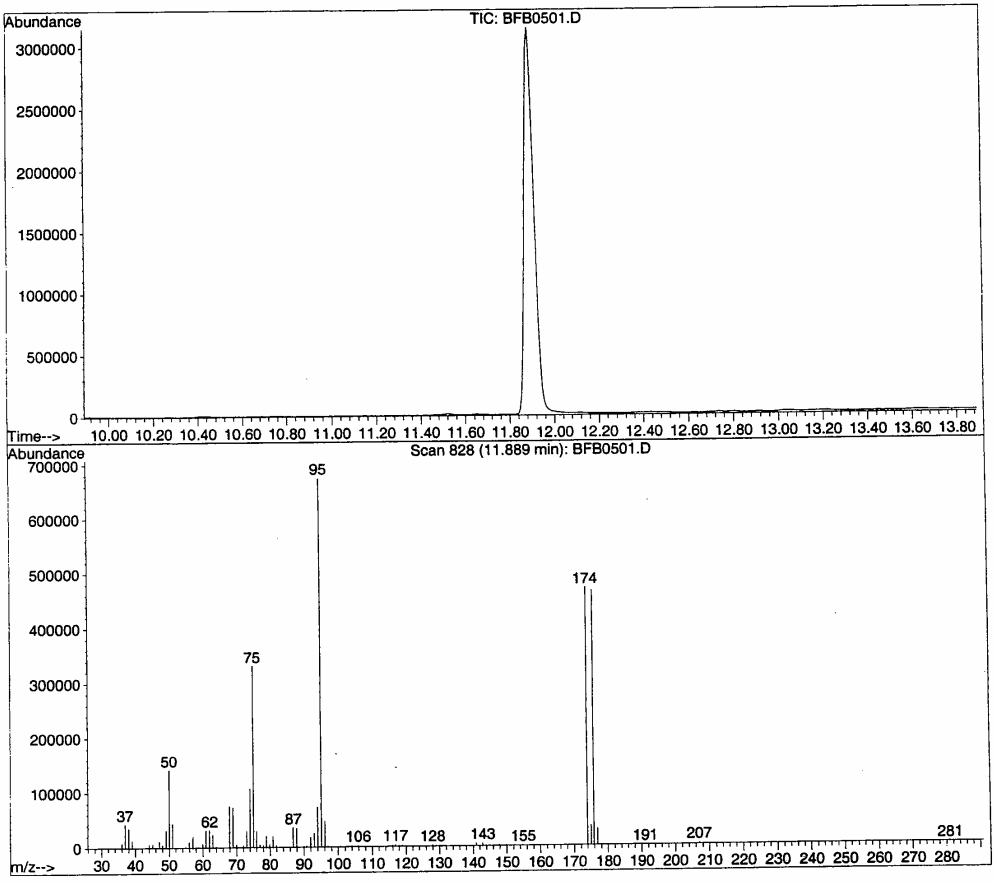


Spectrum Information: Scan 2626

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	11	40	21.9	22864	PASS
75	95	30	60	50.0	52144	PASS
95	95	100	100	100.0	104184	PASS
96	95	5	9	6.5	6805	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	69.4	72304	PASS
175	174	5	9	6.8	4914	PASS
176	174	95	101	97.8	70720	PASS
177	176	5	9	7.0	4928	PASS

Data File : C:\HPCHEM\1\DATA\050100\BFB0501.D
Acq On : 1 May 2000 9:10 am
Sample : 1
Misc : bfb tune
MS Integration Params: rteint.p
Method : C:\HPCHEM\1\METHODS\APS0219.M (RTE Integrator)
Title : APPIX IX MIX

Vial: 1
Operator:
Inst : HP-10
Multiplr: 1.00



Spectrum Information: Scan 828

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	11	40	21.0	141952	PASS
75	95	30	60	49.1	331584	PASS
95	95	100	100	100.0	675328	PASS
96	95	5	9	7.0	47136	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	69.8	471424	PASS
175	174	5	9	7.5	35488	PASS
176	174	95	101	98.8	465920	PASS
177	176	5	9	6.4	29840	PASS

SPECIALIZED ASSAYS, INC.
2960 Foster Creighton Dr.
P.O. Box 40566
Nashville, TN 37204-0566
Phone 1-615-726-0177

Sample Identification

BLANK

Matrix: Soil
% Dry Weight: 100
Units: UG/KG
Dilution Factor: 1
Analysis Method: SW8260B
Delivery Group: 189755
Instrument: HP-10

Lab Sample ID: BLANK
Date Sampled: 4/25/00
Date Received: 4/26/00
Analysis Date: 4/30/00
Analysis Time: 0:00
Sample QC Group: 7224

FORM I

CAS NUMBER	ANALYTE	CONCENTRATION	FLAG
71-43-2	Benzene	2.0	U
67-64-1	Acetone	10.0	U
107-02-8	Acrolein	10.0	U
107-13-1	Acrylonitrile	10.0	U
108-86-1	Bromobenzene	2.0	U
74-97-5	Bromochloromethane	2.0	U
75-25-2	Bromoform	2.0	U
74-83-9	Bromomethane	2.0	U
78-93-3	2-Butanone	10.0	U
104-51-8	n-Butylbenzene	2.0	U
135-98-8	sec-Butylbenzene	2.0	U
98-06-6	t-Butylbenzene	2.0	U
75-15-0	Carbon disulfide	2.0	U
56-23-5	Carbon tetrachloride	2.0	U
108-90-7	Chlorobenzene	2.0	U
75-00-3	Chloroethane	2.0	U
110-75-8	2-Chloroethylvinylether	2.0	U
67-66-3	Chloroform	2.0	U
74-87-3	Chloromethane	2.0	U
95-49-8	2-Chlorotoluene	2.0	U
106-43-4	4-Chlorotoluene	2.0	U
96-12-8	1,2-Dibromo-3-chloropropane	10.0	U
124-48-1	Dibromochloromethane	2.0	U
106-93-4	1,2-Dibromoethane	2.0	U
74-95-3	Dibromomethane	2.0	U
110-57-6	1,4-Dichloro-2-butene	2.0	U
95-50-1	1,2-Dichlorobenzene	2.0	U
541-73-1	1,3-Dichlorobenzene	2.0	U
106-46-7	1,4-Dichlorobenzene	2.0	U
75-71-8	Dichlorodifluoromethane	2.0	U
75-34-3	1,1-Dichloroethane	2.0	U
107-06-2	1,2-Dichloroethane	2.0	U
75-35-4	1,1-Dichloroethene	2.0	U
156-59-2	cis-1,2-Dichloroethene	2.0	U
156-60-5	trans-1,2-Dichloroethene	2.0	U
78-87-5	1,2-Dichloropropane	2.0	U
142-28-9	1,3-Dichloropropane	2.0	U
594-20-7	2,2-Dichloropropane	2.0	U
563-58-6	1,1-Dichloropropene	2.0	U

COPY 1

SPECIALIZED ASSAYS, INC.
2960 Foster Creighton Dr.
P.O. Box 40566
Nashville, TN 37204-0566
Phone 1-615-726-0177

Sample Identification

BLANK

Matrix: Soil
% Dry Weight: 100
Units: UG/KG

Lab Sample ID: BLANK
Date Sampled: 4/25/00
Date Received: 4/28/00

FORM I

CAS NUMBER	ANALYTE	CONCENTRATION	FLAG
10061-01-5	cis-1,3-Dichloropropene	2.0	U
10061-02-6	trans-1,3-Dichloropropene	2.0	U
100-41-4	Ethylbenzene	2.0	U
87-68-3	Hexachlorobutadiene	2.0	U
591-78-6	2-Hexanone	10.0	U
74-88-4	Iodomethane	2.0	U
98-82-8	Isopropylbenzene	2.0	U
99-87-6	4-Isopropyltoluene	2.0	U
108-10-1	4-Methyl-2-pentanone	10.0	U
75-09-2	Methylene chloride	2.0	U
91-20-3	Naphthalene	5.0	U
103-65-1	n-Propylbenzene	2.0	U
100-42-5	Styrene	2.0	U
630-20-6	1,1,1,2-Tetrachloroethane	2.0	U
79-34-5	1,1,2,2-Tetrachloroethane	2.0	U
127-18-4	Tetrachloroethene	2.0	U
108-88-3	Toluene	2.0	U
87-61-6	1,2,3-Trichlorobenzene	2.0	U
120-82-1	1,2,4-Trichlorobenzene	2.0	U
71-55-6	1,1,1-Trichloroethane	2.0	U
79-00-5	1,1,2-Trichloroethane	2.0	U
79-01-6	Trichloroethene	2.0	U
96-18-4	1,2,3-Trichloropropane	2.0	U
95-63-6	1,2,4-Trimethylbenzene	2.0	U
108-67-8	1,3,5-Trimethylbenzene	2.0	U
108-05-4	Vinyl acetate	10.0	U
75-01-4	Vinyl chloride	2.0	U
75-27-4	Bromodichloromethane	2.0	U
6615	o-Xylene	2.0	U
1330-20-7	m,p-Xylene	2.0	U
75-69-4	Trichlorofluoromethane	2.0	U

COPY 1

Quantitation Report (QT Reviewed)

217

Data File : C:\HPCHEM\1\DATA\042400\VB0429B.D Vial: 22
Acq On : 30 Apr 2000 12:00 am Operator:
Sample : 1 Inst : HP-10
Misc : soil blank Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: May 12 8:19 19100 Quant Results File: S041200.RES

Quant Method : C:\HPCHEM\1\METHODS\S041200.M (RTE Integrator)
Title : 8260 volatile organics
Last Update : Fri May 12 08:15:05 2000
Response via : Initial Calibration
DataAcq Meth : S041200

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Pentafluorobenzene	11.85	168	273115	30.00 ug/L	-0.09
31) 1,4-Difluorobenzene	13.13	114	464096	30.00 ug/L	-0.08
49) Chlorobenzene-d5	17.82	119	119862	30.00 ug/L	-0.06
53) 1,4-Dichlorobenzene-d4	21.43	152	167588	30.00 ug/L	-0.06
54) Ethylbenzene-d10	18.02	98	646407	30.00 ug/L	-0.06
System Monitoring Compounds					
26) 1,2-Dichloroethane-d4	11.89	65	190367	33.04 ug/L	0.00
Spiked Amount 30.000			Recovery = 110.13%		
27) Dibromofluoromethane	11.19	111	163058	39.31 ug/L	-0.09
Spiked Amount 30.000			Recovery = 131.03%		
44) Toluene-d8	15.77	98	524315	31.09 ug/L	-0.07
Spiked Amount 30.000			Recovery = 103.63%		
66) Bromofluorobenzene	19.55	95	178174	25.87 ug/L	-0.05
Spiked Amount 30.000			Recovery = 86.23%		

arget Compounds Qvalue

(#) = qualifier out of range (m) = manual integration
VB0429B.D S041200.M Fri May 12 08:19:38 2000

000312

Quantitation Report

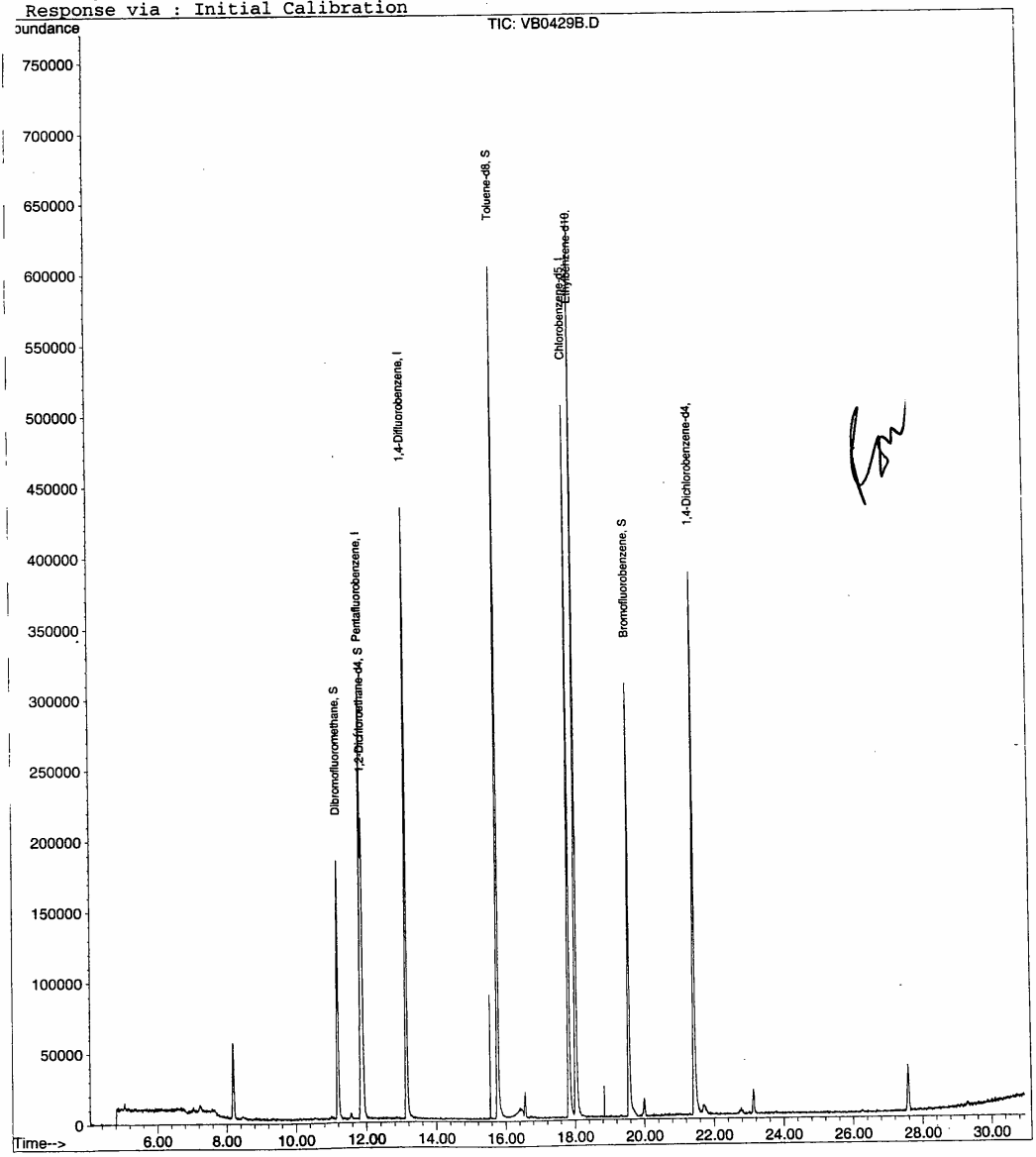
218

Data File : C:\HPCHEM\1\DATA\042400\VB0429B.D
Acq On : 30 Apr 2000 12:00 am
Sample : 1
Misc : soil blank
MS Integration Params: rteint.p
Quant Time: May 12 8:19 19100

Vial: 22
Operator:
Inst : HP-10
Multiplr: 1.00

Quant Results File: S041200.RES

Method : C:\HPCHEM\1\METHODS\S041200.M (RTE Integrator)
Title : 8260 volatile organics
Last Update : Fri May 12 08:15:05 2000
Response via : Initial Calibration



1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLK03

Lab Name: TESTAMERICA Contract:

Lab Code: TA Case No.: SAS No.: SDG No.: 189955

Matrix: (soil/water) SOIL Lab Sample ID: VB0501

Sample wt/vol: 5.0 (g/ml) G Lab File ID: VB0501.D

Level: (low/med) LOW Date Received: 04/28/00

% Moisture: not dec. 0 Date Analyzed: 05/01/00

GC Column: DB-VRX ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND		Q
75-71-8	Dichlorodifluoromethane	2	U
74-87-3	Chloromethane	2	U
75-01-4	Vinyl Chloride	2	U
74-83-9	Bromomethane	2	U
75-00-3	Chloroethane	2	U
75-69-4	Trichlorofluoromethane	2	U
67-64-1	Acetone	10	U
75-35-4	1,1-Dichloroethene	2	U
1634-04-4	Methyl-t-butyl ether	2	U
75-09-2	Methylene Chloride	2	U
75-15-0	Carbon Disulfide	2	U
15-60-5	trans-1,2-Dichloroethene	2	U
75-34-3	1,1-Dichloroethane	2	U
108-05-04	Vinyl Acetate	10	U
78-93-3	2-Butanone	10	U
15-60-5	cis-1,2-Dichloroethene	2	U
74-97-5	Bromochloromethane	2	U
67-66-3	Chloroform	2	U
594-20-7	2,2-Dichloropropane	2	U
107-06-2	1,2-Dichloroethane	2	U
71-55-6	1,1,1-Trichloroethane	2	U
563-58-6	1,1-Dichloropropene	2	U
56-23-5	Carbon Tetrachloride	2	U
71-43-2	Benzene	2	U
74-95-3	Dibromomethane	2	U
78-87-5	1,2-Dichloropropane	2	U
79-01-6	Trichloroethene	2	U
75-27-4	Bromodichloromethane	2	U
110-75-8	2-Chloroethyl vinyl ether	5	U
10061-01-5	cis-1,3-Dichloropropene	2	U
10/-10-1	4-Methyl-2-pentanone	10	U
10061-02-6	trans-1,3-Dichloropropene	2	U
79-00-5	1,1,2-Trichloroethane	2	U
108-88-3	Toluene	2	U
142-28-9	1,3-Dichloropropane	2	U
591-78-6	2-Hexanone	10	U
124-48-1	Dibromochloromethane	2	U
106-93-4	1,2-Dibromoethane	2	U
127-18-4	Tetrachloroethene	2	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLK03

Lab Name: TESTAMERICA Contract:

Lab Code: TA Case No.: SAS No.: SDG No.: 189955

Matrix: (soil/water) SOIL Lab Sample ID: VB0501

Sample wt/vol: 5.0 (g/ml) G Lab File ID: VB0501.D

Level: (low/med) LOW Date Received: 04/28/00

% Moisture: not dec. 0 Date Analyzed: 05/01/00

GC Column: DB-VRX ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg) UG/KG	Q
630-20-6	1,1,1,2-Tetrachloroethane	2	U
108-90-7	Chlorobenzene	2	U
100-41-4	Ethylbenzene	2	U
108-38-3	m,p-Xylene	2	U
75-25-2	Bromoform	2	U
100-42-5	Styrene	2	U
95-47-6	o-Xylene	2	U
79-34-5	1,1,2,2-Tetrachloroethane	2	U
96-18-4	1,2,3-Trichloropropane	2	U
98-82-8	Isopropylbenzene	2	U
108-86-1	Bromobenzene	2	U
103-65-1	Propylbenzene	2	U
106-43-4	2-Chlorotoluene	2	U
95-49-8	4-Chlorotoluene	2	U
526-73-8	1,3,5-Trimethylbenzene	2	U
98-06-6	t-Butylbenzene	2	U
95-63-6	1,2,4-trimethylbenzene	2	U
135-98-8	sec-Butylbenzene	2	U
541-73-1	1,3-Dichlorobenzene	2	U
106-46-7	1,4-Dichlorobenzene	2	U
95-50-1	1,2-Dichlorobenzene	2	U
99-87-6	p-Isopropyltoluene	2	U
104-51-8	Butylbenzene	2	U
96-12-8	1,2-Dibromo-3-chloropropane	10	U
120-82-1	1,2,4-Trichlorobenzene	2	U
91-20-3	Naphthalene	5	U
87-68-3	Hexachlorobutadiene	2	U
87-61-6	1,2,3-Trichlorobenzene	2	U

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\050100\VB0501.D
Acq On : 1 May 2000 12:37 pm
Sample : 1
Misc : soil blank
MS Integration Params: rteint.p
Quant Time: May 12 8:30 19100

Vial: 5
Operator:
Inst : HP-10
Multiplr: 1.00

Quant Results File: S041200.RES

Quant Method : C:\HPCHEM\1\METHODS\S041200.M (RTE Integrator)
Title : 8260 volatile organics
Last Update : Fri May 12 08:15:05 2000
Response via : Initial Calibration
DataAcq Meth : S041200

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	11.86	168	310706	30.00	ug/L	-0.07
31) 1,4-Difluorobenzene	13.15	114	527431	30.00	ug/L	-0.07
49) Chlorobenzene-d5	17.83	119	134516	30.00	ug/L	-0.05
63) 1,4-Dichlorobenzene-d4	21.44	152	192879	30.00	ug/L	-0.05
64) Ethylbenzene-d10	18.04	98	726042	30.00	ug/L	-0.05
System Monitoring Compounds						
26) 1,2-Dichloroethane-d4	11.91	65	208723	31.75	ug/L	0.02
Spiked Amount 30.000			Recovery = 105.83%			
27) Dibromofluoromethane	11.21	111	181902	38.49	ug/L	-0.07
Spiked Amount 30.000			Recovery = 128.30%			
44) Toluene-d8	15.78	98	592034	30.86	ug/L	-0.05
Spiked Amount 30.000			Recovery = 102.87%			
66) Bromofluorobenzene	19.56	95	206228	26.75	ug/L	-0.04
Spiked Amount 30.000			Recovery = 89.17%			

Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration
VB0501.D S041200.M Fri May 12 08:30:39 2000

Quantitation Report

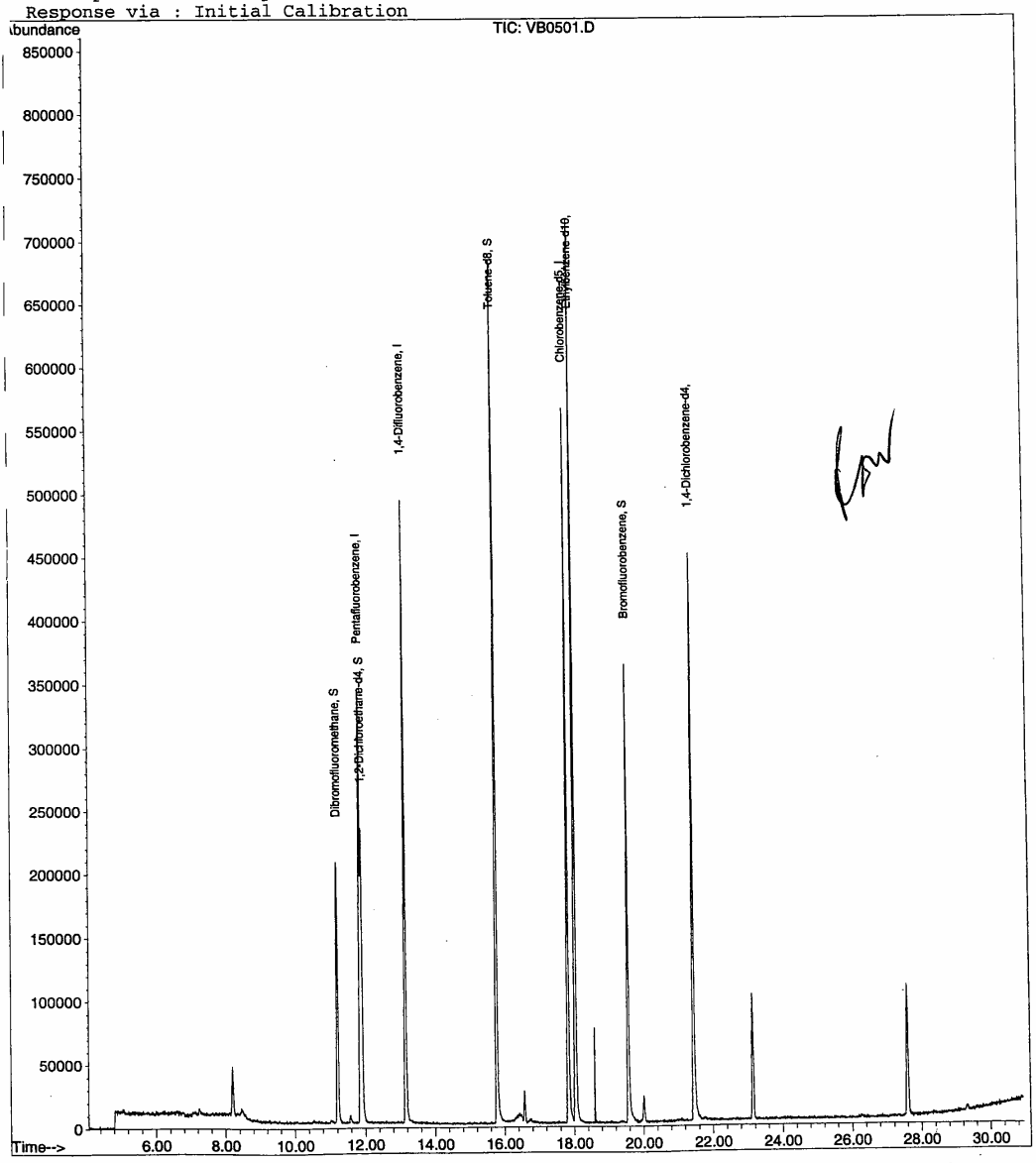
222

Data File : C:\HPCHEM\1\DATA\050100\VB0501.D
Acq On : 1 May 2000 12:37 pm
Sample : 1
Misc : soil blank
MS Integration Params: rteint.p
Quant Time: May 12 8:30 19100

Vial: 5
Operator:
Inst : HP-10
Multiplr: 1.00

Quant Results File: S041200.RES

Method : C:\HPCHEM\1\METHODS\S041200.M (RTE Integrator)
Title : 8260 volatile organics
Last Update : Fri May 12 08:15:05 2000
Response via : Initial Calibration



1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

264716MS

Lab Name: TESTAMERICA Contract: _____

Lab Code: TA Case No.: _____ SAS No.: _____ SDG No.: 189955

Matrix: (soil/water) SOIL Lab Sample ID: 58004M1

Sample wt/vol: 5.0 (g/ml) G Lab File ID: 58004M1.D

Level: (low/med) LOW Date Received: 04/28/00

% Moisture: not dec. 0 Date Analyzed: 05/01/00

GC Column: DB-VRX ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND		Q
75-71-8	Dichlorodifluoromethane	61	
74-87-3	Chloromethane	58	
75-01-4	Vinyl Chloride	63	
74-83-9	Bromomethane	54	
75-00-3	Chloroethane	61	
75-69-4	Trichlorofluoromethane	60	
67-64-1	Acetone	300	
75-35-4	1,1-Dichloroethene	55	
1634-04-4	Methyl-t-butyl ether	53	
75-09-2	Methylene Chloride	55	
75-15-0	Carbon Disulfide	58	
15-60-5	trans-1,2-Dichloroethene	56	
75-34-3	1,1-Dichloroethane	59	
108-05-04	Vinyl Acetate	22	
78-93-3	2-Butanone	300	
15-60-5	cis-1,2-Dichloroethene	59	
74-97-5	Bromochloromethane	58	
67-66-3	Chloroform	59	
594-20-7	2,2-Dichloropropane	58	
107-06-2	1,2-Dichloroethane	61	
71-55-6	1,1,1-Trichloroethane	57	
563-58-6	1,1-Dichloropropene	54	
56-23-5	Carbon Tetrachloride	53	
71-43-2	Benzene	50	
74-95-3	Dibromomethane	52	
78-87-5	1,2-Dichloropropane	53	
79-01-6	Trichloroethene	49	
75-27-4	Bromodichloromethane	55	
110-75-8	2-Chloroethyl vinyl ether	270	
10061-01-5	cis-1,3-Dichloropropene	48	
10/-10-1	4-Methyl-2-pentanone	250	
10061-02-6	trans-1,3-Dichloropropene	51	
79-00-5	1,1,2-Trichloroethane	52	
108-88-3	Toluene	48	
142-28-9	1,3-Dichloropropane	53	
591-78-6	2-Hexanone	240	
124-48-1	Dibromochloromethane	53	
106-93-4	1,2-Dibromoethane	48	
127-18-4	Tetrachloroethene	43	

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
264716MS

Lab Name: TESTAMERICA Contract: _____

Lab Code: TA Case No.: _____ SAS No.: _____ SDG No.: 189955

Matrix: (soil/water) SOIL Lab Sample ID: 58004M1

Sample wt/vol: 5.0 (g/ml) G Lab File ID: 58004M1.D

Level: (low/med) LOW Date Received: 04/28/00

% Moisture: not dec. 0 Date Analyzed: 05/01/00

GC Column: DB-VRX ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND		Q
630-20-6	1,1,1,2-Tetrachloroethane	51	
108-90-7	Chlorobenzene	47	
100-41-4	Ethylbenzene	46	
108-38-3	m,p-Xylene	92	
75-25-2	Bromoform	46	
100-42-5	Styrene	45	
95-47-6	o-Xylene	48	
79-34-5	1,1,2,2-Tetrachloroethane	51	
96-18-4	1,2,3-Trichloropropane	49	
98-82-8	Isopropylbenzene	47	
108-86-1	Bromobenzene	49	
103-65-1	Propylbenzene	46	
106-43-4	2-Chlorotoluene	48	
95-49-8	4-Chlorotoluene	46	
526-73-8	1,3,5-Trimethylbenzene	47	
98-06-6	t-Butylbenzene	45	
95-63-6	1,2,4-trimethylbenzene	46	
135-98-8	sec-Butylbenzene	45	
541-73-1	1,3-Dichlorobenzene	46	
106-46-7	1,4-Dichlorobenzene	45	
95-50-1	1,2-Dichlorobenzene	46	
99-87-6	p-Isopropyltoluene	45	
104-51-8	Butylbenzene	41	
96-12-8	1,2-Dibromo-3-chloropropane	38	
120-82-1	1,2,4-Trichlorobenzene	33	
91-20-3	Naphthalene	29	
87-68-3	Hexachlorobutadiene	33	
87-61-6	1,2,3-Trichlorobenzene	33	

Quantitation Report (Not Reviewed)

225

Data File : C:\HPCHEM\1\DATA\050100\58004M1.D
Acq On : 1 May 2000 4:54 pm
Sample : 1
Misc : soil
MS Integration Params: rteint.p
Quant Time: May 12 8:52 19100

Vial: 12
Operator:
Inst : HP-10
Multiplr: 1.00
Quant Results File: S041200.RES

Quant Method : C:\HPCHEM\1\METHODS\S041200.M (RTE Integrator)
Title : 8260 volatile organics
Last Update : Fri May 12 08:15:05 2000
Response via : Initial Calibration
DataAcq Meth : S041200

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Pentafluorobenzene	11.86	168	272307	30.00 ug/L	-0.07
31) 1,4-Difluorobenzene	13.15	114	491295	30.00 ug/L	-0.07
49) Chlorobenzene-d5	17.84	119	139681	30.00 ug/L	-0.04
63) 1,4-Dichlorobenzene-d4	21.44	152	207125	30.00 ug/L	-0.05
64) Ethylbenzene-d10	18.04	98	712602	30.00 ug/L	-0.04
System Monitoring Compounds					
26) 1,2-Dichloroethane-d4	11.91	65	199922	34.93 ug/L	0.02
Spiked Amount 30.000			Recovery = 116.43%		
27) Dibromofluoromethane	11.21	111	174761	42.49 ug/L	-0.07
Spiked Amount 30.000			Recovery = 141.63%		
44) Toluene-d8	15.78	98	571822	32.14 ug/L	-0.05
Spiked Amount 30.000			Recovery = 107.13%		
66) Bromofluorobenzene	19.57	95	224016	29.94 ug/L	-0.04
Spiked Amount 30.000			Recovery = 99.80%		

Target Compounds					Qvalue
2) Dichlorodifluoromethane	4.39	85	475934	60.51 ug/L	100
3) Chloromethane	4.70	50	559327	58.34 ug/L	98
4) Vinyl Chloride	5.00	62	448615	63.14 ug/L	99
5) Bromomethane	5.69	96	313772	54.06 ug/L	99
6) Chloroethane	5.95	64	254718	61.48 ug/L	100
7) Trichlorofluoromethane	6.98	101	430552	60.18 ug/L	100
8) Acrolein	6.99	56	10710	64.70 ug/L #	89
9) Acetone	7.22	43	445405	301.40 ug/L	97
10) Diethyl Ether	7.43	59	253214	60.22 ug/L	94
11) 1,1-Dichloroethene	7.94	96	251459	55.35 ug/L	92
12) Iodomethane	7.99	142	1566152	323.35 ug/L #	92
13) Acrylonitrile	8.06	53	462253	280.96 ug/L #	99
14) Methylene Chloride	8.20	84	354401	55.18 ug/L	99
15) Carbon Disulfide	8.56	76	1006766	58.23 ug/L	100
16) trans-1,2-Dichloroethene	9.35	61	470893	55.57 ug/L	94
17) Methyl-t-butyl ether	9.55	73	729023	53.05 ug/L #	91
18) 1,1-Dichloroethane	9.76	63	599644	58.67 ug/L	99
19) Vinyl Acetate	10.02	43	273323	21.85 ug/L #	85
20) 2-Butanone	10.49	43	1302968	296.93 ug/L #	91
21) Diisopropyl ether	10.51	45	1287589	59.99 ug/L	94
22) cis-1,2-Dichloroethene	10.69	61	455866	58.91 ug/L	93
23) Bromochloromethane	10.94	130	176227	57.90 ug/L	99
24) Chloroform	11.02	83	536858	58.77 ug/L	99
25) 2,2-Dichloropropane	11.13	77	404860	58.01 ug/L	98
28) 1,2-Dichloroethane	12.04	62	405627	61.22 ug/L	99
29) 1,1,1-Trichloroethane	12.17	97	387123	57.13 ug/L	94
30) 1,1-Dichloropropene	12.47	75	315376	54.27 ug/L	97
32) Carbon Tetrachloride	12.73	117	324680	52.57 ug/L	99
33) Benzene	12.79	78	1216358	50.20 ug/L	96
34) Dibromomethane	13.63	93	177016	52.19 ug/L	92
35) 2,3-Dichloro-1-propene	13.72	49	152692	56.06 ug/L	100
36) 1,2-Dichloropropane	13.68	63	355064	53.19 ug/L	98
37) Trichloroethene	13.74	130	263584	49.13 ug/L	94
38) Bromodichloromethane	13.81	83	373517	54.87 ug/L #	1
39) 2-Chloroethyl vinyl ether	13.68	63	355064	265.96 ug/L	97
40) cis-1,3-Dichloropropene	14.76	75	402689	48.34 ug/L	98
41) 4-Methyl-2-pentanone	14.93	58	563178	251.78 ug/L	85
42) trans-1,3-Dichloropropene	15.39	75	391408	50.71 ug/L	98

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

Quantitation Report (Not Reviewed)

226

Data File : C:\HPCHEM\1\DATA\050100\58004M1.D
Acq On : 1 May 2000 4:54 pm
Sample : 1
Misc : soil
MS Integration Params: rteint.p
Quant Time: May 12 8:52 19100

Vial: 12
Operator:
Inst : HP-10
Multiplr: 1.00

Quant Results File: S041200.RES

Quant Method : C:\HPCHEM\1\METHODS\S041200.M (RTE Integrator)
Title : 8260 volatile organics
Last Update : Fri May 12 08:15:05 2000
Response via : Initial Calibration
DataAcq Meth : S041200

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
43) 1,1,2-Trichloroethane	15.61	97	225137	51.73 ug/L	97
45) Toluene	15.88	91	1103623	48.45 ug/L	100
46) 1,3-Dichloropropane	15.96	76	456487	53.17 ug/L #	62
47) Ethyl Methacrylate	15.99	69	1050015	150.33 ug/L #	68
48) 2-Hexanone	16.18	58	526410	236.97 ug/L	85
50) Dibromochloromethane	16.34	127	195174	53.26 ug/L	100
51) 1,2-Dibromoethane	16.69	107	222499	48.30 ug/L	100
52) Tetrachloroethene	16.93	166	226883	42.83 ug/L	99
53) 1,1,1,2-Tetrachloroethane	17.77	131	248639	51.30 ug/L	99
54) Chlorobenzene	17.88	112	692773	47.27 ug/L	96
55) Ethylbenzene	18.15	91	1227340	46.01 ug/L	97
56) m,p-Xylene	18.43	91	1829376	91.68 ug/L	98
57) Bromoform	18.60	173	145196	45.81 ug/L	95
58) Styrene	18.89	104	631282	44.64 ug/L	96
59) o-Xylene	18.99	91	984324	47.99 ug/L	97
60) 1,1,2,2-Tetrachloroethane	18.99	83	327900	51.23 ug/L	99
61) 1,2,3-Trichloropropane	19.19	75	318496	48.76 ug/L	100
62) Trans-1.4-dichloro-2-buten	19.22	53	55664	39.78 ug/L	95
65) Isopropylbenzene	19.50	105	1089447	47.25 ug/L	97
67) Bromobenzene	19.86	77	517303	48.80 ug/L	90
68) Propylbenzene	20.12	91	1337682	46.01 ug/L	96
69) 2-Chlorotoluene	20.26	91	827778	47.74 ug/L	96
70) 4-Chlorotoluene	20.37	91	784558	45.85 ug/L	95
71) 1,3,5-Trimethylbenzene	20.53	105	837475	46.89 ug/L	98
72) t-Butylbenzene	20.94	119	695818	45.49 ug/L	94
73) 1,2,4-trimethylbenzene	21.10	105	825812	46.45 ug/L	98
74) sec-Butylbenzene	21.26	105	1120857	44.82 ug/L	97
75) 1,3-Dichlorobenzene	21.38	146	453184	45.63 ug/L	100
76) 1,4-Dichlorobenzene	21.49	146	470705	45.14 ug/L	98
77) 1,2-Dichlorobenzene	22.05	146	422749	45.55 ug/L	97
78) p-Isopropyltoluene	21.53	119	849705	44.51 ug/L	97
79) Butylbenzene	22.19	91	797902	40.80 ug/L	97
80) 1,2-Dibromo-3-chloropropan	22.85	157	39492	37.73 ug/L #	89
81) 1,2,4-Trichlorobenzene	25.64	180	170363	32.64 ug/L	99
82) Naphthalene	26.22	128	379970	28.51 ug/L	100
83) Hexachlorobutadiene	26.35	225	93980	33.09 ug/L	98
84) 1,2,3-Trichlorobenzene	26.68	180	161587	32.54 ug/L	99

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

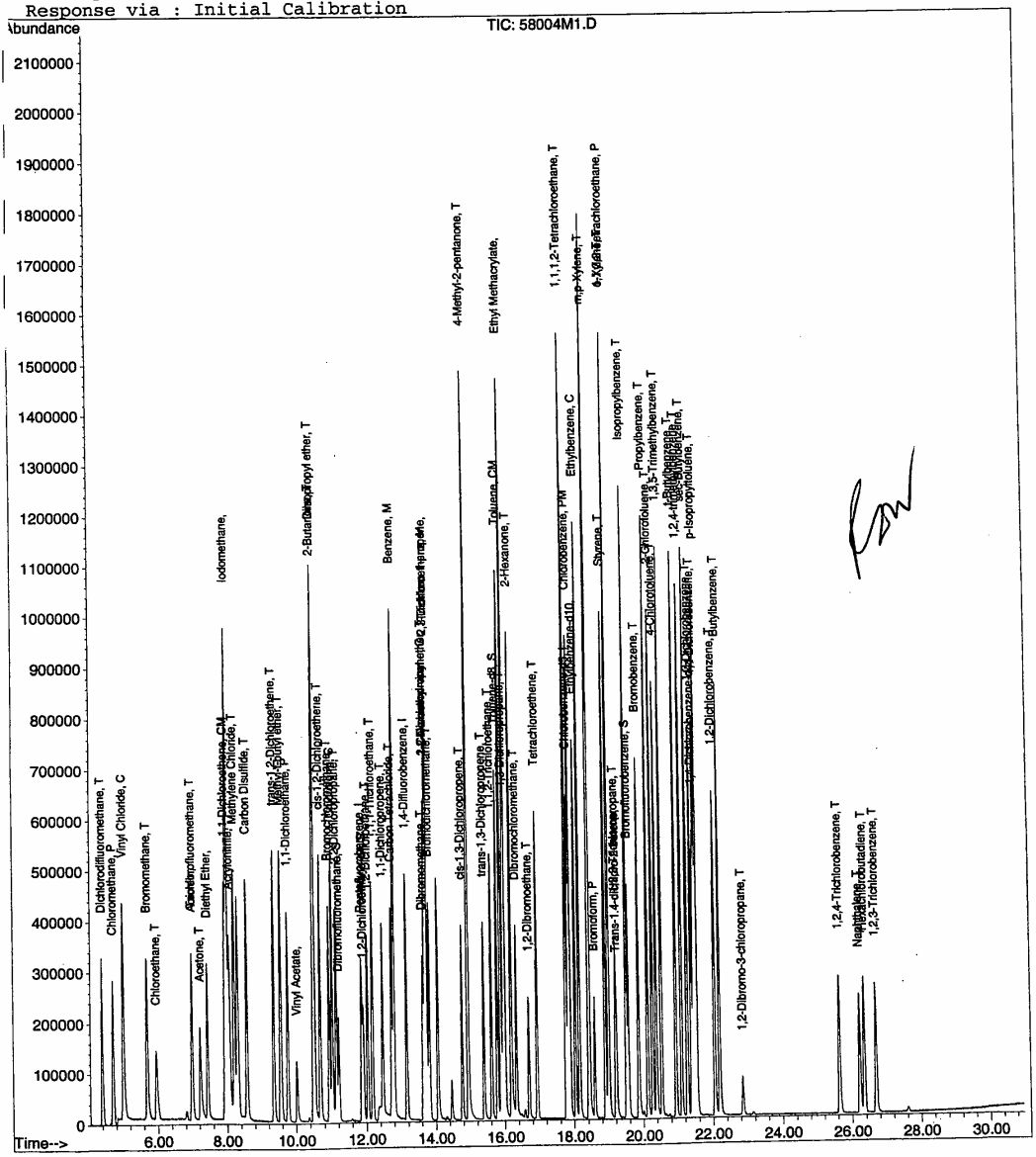
Quantitation Report

Data File : C:\HPCHEM\1\DATA\050100\58004M1.D
Acq On : 1 May 2000 4:54 pm
Sample : 1
Misc : soil
MS Integration Params: rteint.p
Quant Time: May 12 8:52 19100

Vial: 12
Operator:
Inst : HP-10
Multiplr: 1.00

Quant Results File: S041200.RES

Method : C:\HPCHEM\1\METHODS\S041200.M (RTE Integrator)
Title : 8260 volatile organics
Last Update : Fri May 12 08:15:05 2000
Response via : Initial Calibration



1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
264716MSD

Lab Name: TESTAMERICA Contract:
Lab Code: TA Case No.: SAS No.: SDG No.: 189955
Matrix: (soil/water) SOIL Lab Sample ID: 58004M2
Sample wt/vol: 5.0 (g/ml) G Lab File ID: 58004M2.D
Level: (low/med) LOW Date Received: 04/28/00
% Moisture: not dec. 0 Date Analyzed: 05/01/00
GC Column: DB-VRX ID: 0.25 (mm) Dilution Factor: 1.0
Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND		Q
75-71-8	Dichlorodifluoromethane	63	
74-87-3	Chloromethane	62	
75-01-4	Vinyl Chloride	67	
74-83-9	Bromomethane	51	
75-00-3	Chloroethane	62	
75-69-4	Trichlorofluoromethane	60	
67-64-1	Acetone	320	
75-35-4	1,1-Dichloroethene	56	
1634-04-4	Methyl-t-butyl ether	56	
75-09-2	Methylene Chloride	55	
75-15-0	Carbon Disulfide	60	
15-60-5	trans-1,2-Dichloroethene	55	
75-34-3	1,1-Dichloroethane	59	
108-05-04	Vinyl Acetate	18	
78-93-3	2-Butanone	310	
15-60-5	cis-1,2-Dichloroethene	58	
74-97-5	Bromochloromethane	59	
67-66-3	Chloroform	58	
594-20-7	2,2-Dichloropropane	58	
107-06-2	1,2-Dichloroethane	62	
71-55-6	1,1,1-Trichloroethane	57	
563-58-6	1,1-Dichloropropene	55	
56-23-5	Carbon Tetrachloride	51	
71-43-2	Benzene	50	
74-95-3	Dibromomethane	54	
78-87-5	1,2-Dichloropropane	54	
79-01-6	Trichloroethene	49	
75-27-4	Bromodichloromethane	55	
110-75-8	2-Chloroethyl vinyl ether	270	
10061-01-5	cis-1,3-Dichloropropene	49	
10/-10-1	4-Methyl-2-pentanone	270	
10061-02-6	trans-1,3-Dichloropropene	52	
79-00-5	1,1,2-Trichloroethane	53	
108-88-3	Toluene	49	
142-28-9	1,3-Dichloropropane	55	
591-78-6	2-Hexanone	260	
124-48-1	Dibromochloromethane	53	
106-93-4	1,2-Dibromoethane	50	
127-18-4	Tetrachloroethene	42	

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

264716MSD

Lab Name: TESTAMERICA Contract: _____

Lab Code: TA Case No.: _____ SAS No.: _____ SDG No.: 189955

Matrix: (soil/water) SOIL Lab Sample ID: 58004M2

Sample wt/vol: 5.0 (g/ml) G Lab File ID: 58004M2.D

Level: (low/med) LOW Date Received: 04/28/00

% Moisture: not dec. 0 Date Analyzed: 05/01/00

GC Column: DB-VRX ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND		Q
630-20-6	1,1,1,2-Tetrachloroethane	51	
108-90-7	Chlorobenzene	46	
100-41-4	Ethylbenzene	45	
108-38-3	m,p-Xylene	90	
75-25-2	Bromoform	47	
100-42-5	Styrene	44	
95-47-6	o-Xylene	47	
79-34-5	1,1,2,2-Tetrachloroethane	52	
96-18-4	1,2,3-Trichloropropane	50	
98-82-8	Isopropylbenzene	48	
108-86-1	Bromobenzene	49	
103-65-1	Propylbenzene	47	
106-43-4	2-Chlorotoluene	48	
95-49-8	4-Chlorotoluene	46	
526-73-8	1,3,5-Trimethylbenzene	47	
98-06-6	t-Butylbenzene	47	
95-63-6	1,2,4-trimethylbenzene	47	
135-98-8	sec-Butylbenzene	46	
541-73-1	1,3-Dichlorobenzene	45	
106-46-7	1,4-Dichlorobenzene	45	
95-50-1	1,2-Dichlorobenzene	47	
99-87-6	p-Isopropyltoluene	45	
104-51-8	Butylbenzene	42	
96-12-8	1,2-Dibromo-3-chloropropane	42	
120-82-1	1,2,4-Trichlorobenzene	35	
91-20-3	Naphthalene	36	
87-68-3	Hexachlorobutadiene	38	
87-61-6	1,2,3-Trichlorobenzene	36	

Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\1\DATA\050100\58004M2.D
Acq On : 1 May 2000 5:31 pm
Sample : 1
Misc : soil
MS Integration Params: rteint.p
Quant Time: May 12 8:52 19100

Vial: 13
Operator:
Inst : HP-10
Multiplr: 1.00

Quant Results File: S041200.RES

Quant Method : C:\HPCHEM\1\METHODS\S041200.M (RTE Integrator)
Title : 8260 volatile organics
Last Update : Fri May 12 08:15:05 2000
Response via : Initial Calibration
DataAcq Meth : S041200

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Pentafluorobenzene	11.87	168	271172	30.00 ug/L	-0.06
31) 1,4-Difluorobenzene	13.16	114	487975	30.00 ug/L	-0.06
49) Chlorobenzene-d5	17.84	119	143248	30.00 ug/L	-0.04
63) 1,4-Dichlorobenzene-d4	21.45	152	211743	30.00 ug/L	-0.04
64) Ethylbenzene-d10	18.04	98	710392	30.00 ug/L	-0.04
System Monitoring Compounds					
26) 1,2-Dichloroethane-d4	11.92	65	202307	35.54 ug/L	0.03
Spiked Amount 30.000			Recovery =	118.47%	
27) Dibromofluoromethane	11.21	111	170811	41.65 ug/L	-0.07
Spiked Amount 30.000			Recovery =	138.83%	
44) Toluene-d8	15.78	98	572736	32.45 ug/L	-0.05
Spiked Amount 30.000			Recovery =	108.17%	
66) Bromofluorobenzene	19.56	95	224936	30.18 ug/L	-0.04
Spiked Amount 30.000			Recovery =	100.60%	

Target Compounds					Qvalue
2) Dichlorodifluoromethane	4.39	85	491482	62.75 ug/L	100
3) Chloromethane	4.70	50	593915	62.21 ug/L	100
4) Vinyl Chloride	5.00	62	474312	67.03 ug/L	100
5) Bromomethane	5.69	96	295749	51.17 ug/L	99
6) Chloroethane	5.95	64	257374	62.38 ug/L	99
7) Trichlorofluoromethane	6.98	101	427655	60.02 ug/L	99
8) Acrolein	7.00	56	9385	61.81 ug/L #	86
9) Acetone	7.22	43	470014	319.90 ug/L	97
10) Diethyl Ether	7.43	59	269844	64.44 ug/L	95
11) 1,1-Dichloroethene	7.94	96	253334	55.99 ug/L	92
12) Iodomethane	7.99	142	1561307	323.68 ug/L #	91
13) Acrylonitrile	8.07	53	487627	297.62 ug/L #	99
14) Methylene Chloride	8.20	84	352668	55.13 ug/L	99
15) Carbon Disulfide	8.56	76	1038395	60.31 ug/L	99
16) trans-1,2-Dichloroethene	9.35	61	467851	55.45 ug/L	95
17) Methyl-t-butyl ether	9.55	73	762304	55.71 ug/L #	92
18) 1,1-Dichloroethane	9.75	63	599765	58.92 ug/L	99
19) Vinyl Acetate	10.03	43	228978	18.38 ug/L #	89
20) 2-Butanone	10.50	43	1353750	309.80 ug/L #	91
21) Diisopropyl ether	10.51	45	1299795	60.81 ug/L	95
22) cis-1,2-Dichloroethene	10.69	61	448609	58.21 ug/L	95
23) Bromochloromethane	10.94	130	178219	58.80 ug/L	99
24) Chloroform	11.02	83	530351	58.30 ug/L	99
25) 2,2-Dichloropropane	11.14	77	400000	57.55 ug/L	98
28) 1,2-Dichloroethane	12.03	62	408771	61.96 ug/L	99
29) 1,1,1-Trichloroethane	12.18	97	383477	56.83 ug/L	95
30) 1,1-Dichloropropene	12.47	75	319277	55.17 ug/L	96
32) Carbon Tetrachloride	12.73	117	314072	51.20 ug/L	100
33) Benzene	12.79	78	1209393	50.25 ug/L	96
34) Dibromomethane	13.63	93	181120	53.77 ug/L	93
35) 2,3-Dichloro-1-propene	13.72	49	153760	56.83 ug/L	100
36) 1,2-Dichloropropane	13.68	63	355432	53.61 ug/L	98
37) Trichloroethene	13.75	130	261125	49.01 ug/L	94
38) Bromodichloromethane	13.82	83	375101	55.48 ug/L #	1
39) 2-Chloroethyl vinyl ether	13.68	63	355432	268.05 ug/L	96
40) cis-1,3-Dichloropropene	14.76	75	406716	49.15 ug/L	98
41) 4-Methyl-2-pentanone	14.93	58	607188	273.30 ug/L	86
42) trans-1,3-Dichloropropene	15.39	75	395206	51.55 ug/L	98

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

Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\1\DATA\050100\58004M2.D
Acq On : 1 May 2000 5:31 pm
Sample : 1
Misc : soil
MS Integration Params: rteint.p
Quant Time: May 12 8:52 19100

Vial: 13
Operator:
Inst : HP-10
Multiplr: 1.00

Quant Results File: S041200.RES

Quant Method : C:\HPCHEM\1\METHODS\S041200.M (RTE Integrator)
Title : 8260 volatile organics
Last Update : Fri May 12 08:15:05 2000
Response via : Initial Calibration
DataAcq Meth : S041200

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
43) 1,1,2-Trichloroethane	15.61	97	229241	53.03 ug/L	97
45) Toluene	15.88	91	1113532	49.22 ug/L	100
46) 1,3-Dichloropropane	15.96	76	465552	54.60 ug/L #	55
47) Ethyl Methacrylate	15.99	69	984141	141.86 ug/L #	65
48) 2-Hexanone	16.18	58	575516	260.84 ug/L	89
50) Dibromochloromethane	16.34	127	198936	52.94 ug/L	100
51) 1,2-Dibromoethane	16.69	107	235473	49.84 ug/L	98
52) Tetrachloroethene	16.92	166	227607	41.90 ug/L	99
53) 1,1,1,2-Tetrachloroethane	17.77	131	251093	50.52 ug/L	99
54) Chlorobenzene	17.89	112	684605	45.55 ug/L	95
55) Ethylbenzene	18.16	91	1229763	44.95 ug/L	97
56) m,p-Xylene	18.42	91	1845576	90.19 ug/L	97
57) Bromoform	18.60	173	153457	47.11 ug/L	94
58) Styrene	18.89	104	636685	43.90 ug/L	96
59) o-Xylene	18.99	91	993304	47.22 ug/L	97
60) 1,1,2,2-Tetrachloroethane	18.99	83	341951	52.09 ug/L	99
61) 1,2,3-Trichloropropane	19.19	75	335541	50.09 ug/L	100
62) Trans-1.4-dichloro-2-buten	19.22	53	59776	41.50 ug/L	95
65) Isopropylbenzene	19.51	105	1109329	48.26 ug/L	97
67) Bromobenzene	19.86	77	521603	49.36 ug/L	90
68) Propylbenzene	20.13	91	1349170	46.55 ug/L	96
69) 2-Chlorotoluene	20.26	91	822873	47.60 ug/L	97
70) 4-Chlorotoluene	20.37	91	782627	45.87 ug/L	96
71) 1,3,5-Trimethylbenzene	20.53	105	843945	47.40 ug/L	98
72) t-Butylbenzene	20.93	119	723273	47.44 ug/L	95
73) 1,2,4-trimethylbenzene	21.10	105	827383	46.68 ug/L	97
74) sec-Butylbenzene	21.26	105	1146430	45.99 ug/L	97
75) 1,3-Dichlorobenzene	21.38	146	446572	45.10 ug/L	99
76) 1,4-Dichlorobenzene	21.48	146	463801	44.61 ug/L	97
77) 1,2-Dichlorobenzene	22.05	146	432327	46.72 ug/L	97
78) p-Isopropyltoluene	21.54	119	856549	45.01 ug/L	97
79) Butylbenzene	22.19	91	823523	42.25 ug/L	97
80) 1,2-Dibromo-3-chloropropan	22.85	157	43040	41.66 ug/L	89
81) 1,2,4-Trichlorobenzene	25.64	180	181639	34.91 ug/L	99
82) Naphthalene	26.21	128	471913	35.52 ug/L	100
83) Hexachlorobutadiene	26.34	225	106606	37.65 ug/L	98
84) 1,2,3-Trichlorobenzene	26.69	180	179780	36.32 ug/L	99

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

Quantitation Report

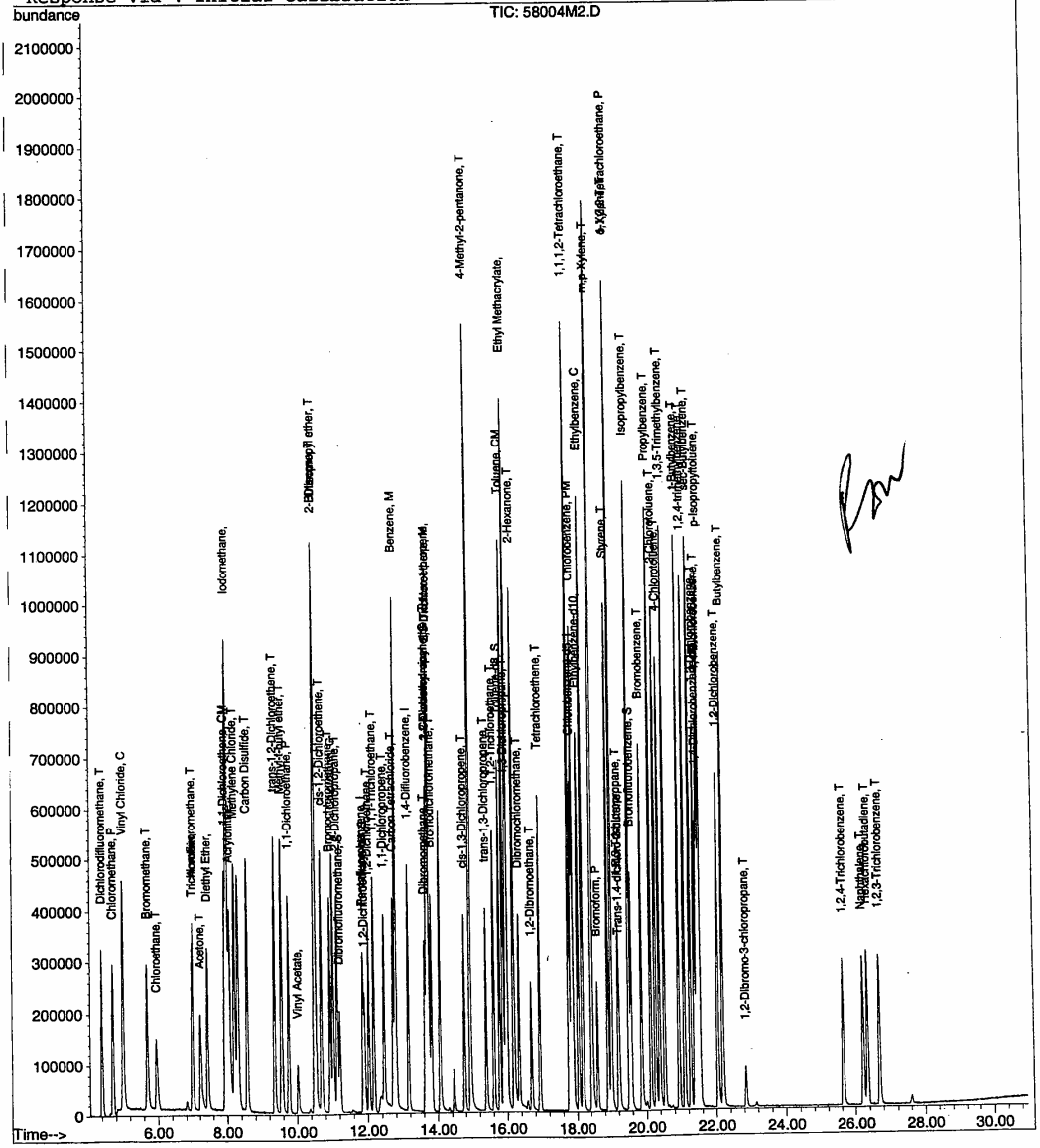
232

Data File : C:\HPCHEM\1\DATA\050100\58004M2.D
Acq On : 1 May 2000 5:31 pm
Sample : 1
Misc : soil
MS Integration Params: rteint.p
Quant Time: May 12 8:52 19100

Vial: 13
Operator:
Inst : HP-10
Multiplr: 1.00

Quant Results File: S041200.RES

Method : C:\HPCHEM\1\METHODS\S041200.M (RTE Integrator)
Title : 8260 volatile organics
Last Update : Fri May 12 08:15:05 2000
Response via : Initial Calibration



1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

CONTROL

Lab Name: TESTAMERICA Contract: _____

Lab Code: TA Case No.: _____ SAS No.: _____ SDG No.: 189955

Matrix: (soil/water) SOIL Lab Sample ID: LCS0501

Sample wt/vol: 5.0 (g/ml) G Lab File ID: LCS0501.D

Level: (low/med) LOW Date Received: 04/28/00

% Moisture: not dec. 0 Date Analyzed: 05/01/00

GC Column: DB-VRX ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg) UG/KG	Q
75-71-8	Dichlorodifluoromethane	57	
74-87-3	Chloromethane	55	
75-01-4	Vinyl Chloride	61	
74-83-9	Bromomethane	52	
75-00-3	Chloroethane	57	
75-69-4	Trichlorofluoromethane	57	
67-64-1	Acetone	290	
75-35-4	1,1-Dichloroethene	55	
1634-04-4	Methyl-t-butyl ether	57	
75-09-2	Methylene Chloride	52	
75-15-0	Carbon Disulfide	64	
15-60-5	trans-1,2-Dichloroethene	57	
75-34-3	1,1-Dichloroethane	58	
108-05-04	Vinyl Acetate	320	
78-93-3	2-Butanone	300	
15-60-5	cis-1,2-Dichloroethene	58	
74-97-5	Bromochloromethane	50	
67-66-3	Chloroform	58	
594-20-7	2,2-Dichloropropane	58	
107-06-2	1,2-Dichloroethane	59	
71-55-6	1,1,1-Trichloroethane	56	
563-58-6	1,1-Dichloropropene	56	
56-23-5	Carbon Tetrachloride	54	
71-43-2	Benzene	53	
74-95-3	Dibromomethane	53	
78-87-5	1,2-Dichloropropane	55	
79-01-6	Trichloroethene	53	
75-27-4	Bromodichloromethane	57	
110-75-8	2-Chloroethyl vinyl ether	270	
10061-01-5	cis-1,3-Dichloropropene	56	
10/-10-1	4-Methyl-2-pentanone	290	
10061-02-6	trans-1,3-Dichloropropene	58	
79-00-5	1,1,2-Trichloroethane	57	
108-88-3	Toluene	52	
142-28-9	1,3-Dichloropropane	57	
591-78-6	2-Hexanone	280	
124-48-1	Dibromochloromethane	62	
106-93-4	1,2-Dibromoethane	57	
127-18-4	Tetrachloroethene	51	

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

CONTROL

Lab Name: TESTAMERICA Contract: _____

Lab Code: TA Case No.: _____ SAS No.: _____ SDG No.: 189955

Matrix: (soil/water) SOIL Lab Sample ID: LCS0501

Sample wt/vol: 5.0 (g/ml) G Lab File ID: LCS0501.D

Level: (low/med) LOW Date Received: 04/28/00

% Moisture: not dec. 0 Date Analyzed: 05/01/00

GC Column: DB-VRX ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND (ug/L or ug/Kg) UG/KG		Q
630-20-6	1,1,1,2-Tetrachloroethane	60	
108-90-7	Chlorobenzene	55	
100-41-4	Ethylbenzene	54	
108-38-3	m,p-Xylene	110	
75-25-2	Bromoform	55	
100-42-5	Styrene	58	
95-47-6	o-Xylene	56	
79-34-5	1,1,2,2-Tetrachloroethane	59	
96-18-4	1,2,3-Trichloropropane	58	
98-82-8	Isopropylbenzene	56	
108-86-1	Bromobenzene	58	
103-65-1	Propylbenzene	57	
106-43-4	2-Chlorotoluene	57	
95-49-8	4-Chlorotoluene	58	
526-73-8	1,3,5-Trimethylbenzene	58	
98-06-6	t-Butylbenzene	56	
95-63-6	1,2,4-trimethylbenzene	58	
135-98-8	sec-Butylbenzene	56	
541-73-1	1,3-Dichlorobenzene	59	
106-46-7	1,4-Dichlorobenzene	58	
95-50-1	1,2-Dichlorobenzene	58	
99-87-6	p-Isopropyltoluene	57	
104-51-8	Butylbenzene	58	
96-12-8	1,2-Dibromo-3-chloropropane	47	
120-82-1	1,2,4-Trichlorobenzene	56	
91-20-3	Naphthalene	50	
87-68-3	Hexachlorobutadiene	53	
87-61-6	1,2,3-Trichlorobenzene	54	

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\050100\LCS0501.D
Acq On : 1 May 2000 10:47 am
Sample : 1
Misc : voa std 50 ug/l
MS Integration Params: rteint.p
Quant Time: May 15 12:16 19100

Vial: 2
Operator:
Inst : HP-10
Multiplr: 1.00

Quant Results File: S041200.RES

Quant Method : C:\HPCHEM\1\METHODS\S041200.M (RTE Integrator)
Title : 8260 volatile organics
Last Update : Fri May 12 08:15:05 2000
Response via : Initial Calibration
DataAcq Meth : S041200

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	11.86	168	338718	30.00	ug/L	-0.08
31) 1,4-Difluorobenzene	13.14	114	578183	30.00	ug/L	-0.07
49) Chlorobenzene-d5	17.83	119	154254	30.00	ug/L	-0.06
63) 1,4-Dichlorobenzene-d4	21.44	152	231745	30.00	ug/L	-0.05
64) Ethylbenzene-d10	18.03	98	803957	30.00	ug/L	-0.06
System Monitoring Compounds						
26) 1,2-Dichloroethane-d4	11.90	65	217809	30.29	ug/L	0.01
Spiked Amount 30.000			Recovery = 100.97%			
27) Dibromofluoromethane	11.20	111	198821	38.60	ug/L	-0.08
Spiked Amount 30.000			Recovery = 128.67%			
44) Toluene-d8	15.77	98	650262	30.93	ug/L	-0.06
Spiked Amount 30.000			Recovery = 103.10%			
66) Bromofluorobenzene	19.55	95	251082	29.72	ug/L	-0.05
Spiked Amount 30.000			Recovery = 99.07%			

Target Compounds						Qvalue
2) Dichlorodifluoromethane	4.43	85	556773	56.91	ug/L	99
3) Chloromethane	4.74	50	656717	55.07	ug/L	99
4) Vinyl Chloride	5.04	62	537808	60.85	ug/L	99
5) Bromomethane	5.69	96	373130	51.68	ug/L	98
6) Chloroethane	5.96	64	293433	56.94	ug/L	99
7) Trichlorofluoromethane	6.98	101	508526	57.14	ug/L	99
8) Acrolein	6.97	56	203284m	408.00	ug/L	
9) Acetone	7.21	43	541803	294.55	ug/L	96
10) Diethyl Ether	7.42	59	329725m	63.04	ug/L	
11) 1,1-Dichloroethene	7.93	96	310894	55.01	ug/L	95
12) Iodomethane	7.99	142	1397551m	236.62	ug/L	
13) Acrylonitrile	8.05	53	623657	304.74	ug/L #	99
14) Methylene Chloride	8.20	84	417347	51.52	ug/L	100
15) Carbon Disulfide	8.56	76	1368297m	63.62	ug/L	
16) trans-1,2-Dichloroethene	9.34	61	600998	57.02	ug/L	95
17) Methyl-t-butyl ether	9.54	73	982585	57.49	ug/L	94
18) 1,1-Dichloroethane	9.75	63	734018	57.73	ug/L	99
19) Vinyl Acetate	10.00	43	4958619m	318.74	ug/L	
20) 2-Butanone	10.48	43	1634271	299.41	ug/L #	92
21) Diisopropyl ether	10.50	45	1601918m	60.00	ug/L	
22) cis-1,2-Dichloroethene	10.68	61	558843	58.06	ug/L	97
23) Bromochloromethane	10.93	130	190718	50.38	ug/L	100
24) Chloroform	11.01	83	655048	57.65	ug/L	100
25) 2,2-Dichloropropane	11.12	77	500991	57.71	ug/L	99
28) 1,2-Dichloroethane	12.02	62	489446	59.39	ug/L	99
29) 1,1,1-Trichloroethane	12.16	97	472833	56.10	ug/L	96
30) 1,1-Dichloropropene	12.45	75	407543	56.38	ug/L	98
32) Carbon Tetrachloride	12.72	117	394061	54.21	ug/L	98
33) Benzene	12.78	78	1518370	53.25	ug/L	98
34) Dibromomethane	13.62	93	211465	52.98	ug/L	94
35) 2,3-Dichloro-1-propene	13.71	49	185342m	57.82	ug/L	
36) 1,2-Dichloropropane	13.67	63	428812	54.59	ug/L	98
37) Trichloroethene	13.74	130	336096	53.24	ug/L	95
38) Bromodichloromethane	13.81	83	459957	57.42	ug/L #	1
39) 2-Chloroethyl vinyl ether	13.67	63	428812	272.93	ug/L	97
40) cis-1,3-Dichloropropene	14.75	75	544896	55.58	ug/L	98
41) 4-Methyl-2-pentanone	14.92	58	754168	286.49	ug/L	89
42) trans-1,3-Dichloropropene	15.38	75	526197	57.93	ug/L	98

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

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\050100\LCS0501.D
Acq On : 1 May 2000 10:47 am
Sample : 1
Misc : voa std 50 ug/l
MS Integration Params: rteint.p
Quant Time: May 15 12:16 19100

Vial: 2
Operator:
Inst : HP-10
Multiplr: 1.00

Quant Results File: S041200.RES

Quant Method : C:\HPCHEM\1\METHODS\S041200.M (RTE Integrator)
Title : 8260 volatile organics
Last Update : Fri May 12 08:15:05 2000
Response via : Initial Calibration
DataAcq Meth : S041200

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
43) 1,1,2-Trichloroethane	15.60	97	292175	57.04 ug/L	98
45) Toluene	15.87	91	1385248	51.68 ug/L	99
46) 1,3-Dichloropropane	15.94	76	576388	57.05 ug/L	80
47) Ethyl Methacrylate	15.98	69	2420416m	294.45 ug/L	
48) 2-Hexanone	16.17	58	732171	280.07 ug/L	88
50) Dibromochloromethane	16.33	127	252625	62.43 ug/L	100
51) 1,2-Dibromoethane	16.68	107	291046	57.21 ug/L	99
52) Tetrachloroethene	16.92	166	300461	51.36 ug/L	98
53) 1,1,1,2-Tetrachloroethane	17.76	131	318918	59.59 ug/L	100
54) Chlorobenzene	17.88	112	892077	55.12 ug/L	97
55) Ethylbenzene	18.15	91	1589282	53.94 ug/L	97
56) m,p-Xylene	18.42	91	2410634	109.39 ug/L	98
57) Bromoform	18.59	173	194500	54.89 ug/L	100
58) Styrene	18.89	104	911446	58.36 ug/L	98
59) o-Xylene	18.99	91	1264514	55.83 ug/L	98
60) 1,1,2,2-Tetrachloroethane	18.98	83	415835	58.83 ug/L	99
61) 1,2,3-Trichloropropane	19.19	75	418249	57.98 ug/L	100
62) Trans-1.4-dichloro-2-buten	19.21	53	81746m	51.79 ug/L	
65) Isopropylbenzene	19.49	105	1464115	56.28 ug/L	98
67) Bromobenzene	19.85	77	692614	57.92 ug/L	91
68) Propylbenzene	20.11	91	1876390	57.21 ug/L	96
69) 2-Chlorotoluene	20.26	91	1119695	57.24 ug/L	96
70) 4-Chlorotoluene	20.37	91	1122239	58.13 ug/L	96
71) 1,3,5-Trimethylbenzene	20.52	105	1164655	57.80 ug/L	98
72) t-Butylbenzene	20.93	119	970402	56.24 ug/L	95
73) 1,2,4-trimethylbenzene	21.09	105	1161795	57.92 ug/L	98
74) sec-Butylbenzene	21.25	105	1582344	56.08 ug/L	97
75) 1,3-Dichlorobenzene	21.38	146	657192	58.65 ug/L	99
76) 1,4-Dichlorobenzene	21.48	146	679426	57.75 ug/L	99
77) 1,2-Dichlorobenzene	22.04	146	609454	58.20 ug/L	98
78) p-Isopropyltoluene	21.52	119	1230569	57.14 ug/L	98
79) Butylbenzene	22.18	91	1284542	58.23 ug/L	98
80) 1,2-Dibromo-3-chloropropan	22.84	157	54102	46.75 ug/L	91
81) 1,2,4-Trichlorobenzene	25.62	180	331400	56.28 ug/L	99
82) Naphthalene	26.20	128	755358	50.23 ug/L	100
83) Hexachlorobutadiene	26.34	225	169011	52.75 ug/L	99
84) 1,2,3-Trichlorobenzene	26.67	180	300121	53.57 ug/L	99

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

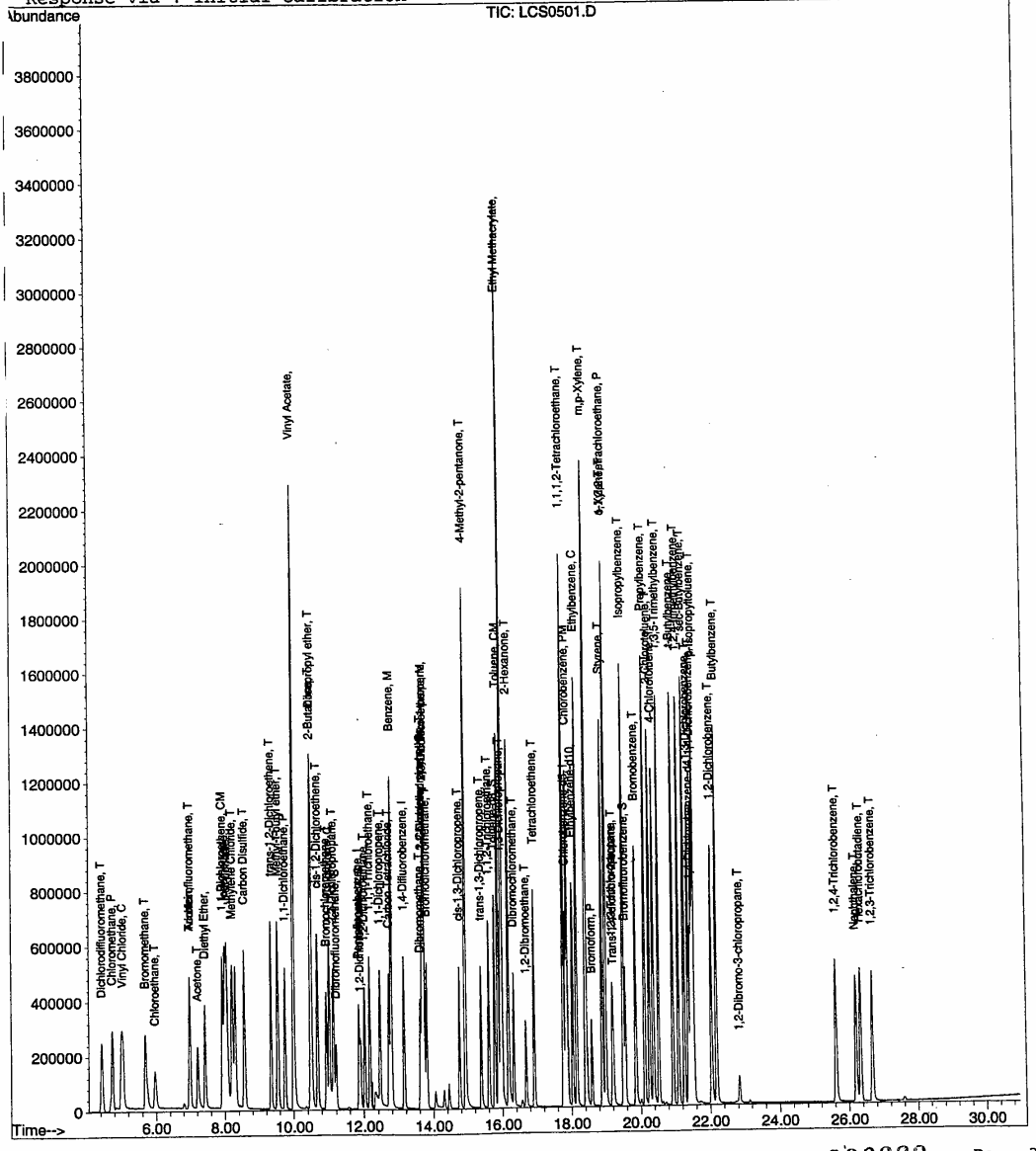
Quantitation Report

Data File : C:\HPCHEM\1\DATA\050100\LCS0501.D
Acq On : 1 May 2000 10:47 am
Sample : 1
Misc : voa std 50 ug/l
MS Integration Params: rteint.p
Quant Time: May 15 12:16 19100

Vial: 2
Operator:
Inst : HP-10
Multiplr: 1.00

Quant Results File: S041200.RES

Method : C:\HPCHEM\1\METHODS\S041200.M (RTE Integrator)
Title : 8260 volatile organics
Last Update : Fri May 12 08:15:05 2000
Response via : Initial Calibration



2-20-00

	pH matrix	File	G/R	Comments	Inj. time
		BFB0220		4-W-RW-163-6	1138Am
		VS0220		4-W-SW-177-4	
2		A0050219		3-S-NH-231-1	
		A0100219			
4		A0200219			
		A0500219			
6		A1000219			
		A2000219			
8		IB0220			
		VB0220			
		SBSB0220		Sodium bisulfate blank	
11	E	21440			
12		21441			
13		21442			
14		21443			
15		21444			
16		21445			
17		BFB0220B		4-W-RW-163-6	0947pm
18		VS0220B		4-W-SW-177-4	
19		IB0220B			
20		VB0220B			
21	E	21446			
22		21447			
23		21448			
24		21443MS			
25		21443MSD			
26		LCS0220			

RDN

4-12-00

239

Pos	pH matrix	File	G/R	Comment	Adj Time
1		BFB0412		4-W-RW-165-6	
1		Blank01			
2		S0010412		4-W-KH-220-2	
3		S0020412			
4		S0050412			
5		S0100412			
6		S0200412			
7		S0500412			
8		S1000412			
9		S2000412			
10		SS0412		4-W-KH-216-3	
11		LCS0412			
12		VB0412			

4-29-00

s	pH matrix	File		G/R	Comments	Inj Time
		BFB0429			4-W-RW-163-6	1018 Am 4-29
1		VS0429			4-W-KH-226-4	
		LCS0429				
		AS0429			3-S-NH-231-1	
4		IB0429				
		VB0429				
6		MB0429				
	4.98	56978B				
8	5.02	56979B				
	4.97	56980B				
10	1.01	56985B	5x			
11		56977B	50x		100 ml of 1:1	
12	5.00	56677				
13	4.98	56678				
14	4.99	56679				
15	5.04	56680				
	4.98	56680 MS				
17	5.01	56680 MSD				
18		BFB0429B			4-W-RW-163-6	0934 pm 4-29
19		VS0429B			4-W-KH-226-4	
20		AS0429B			3-S-NH-231-1	
21		IB0429B				
22		VB0429B				
23	5.00	58004				
24	5.12	58005				
25	5.10	58006				
26	5.15	58007				
27	5.03	58008				
28	5.02	58009				
29	5.04	58010				
30	5.12	58011				
31	5.13	58012				
32	4.98	58013				
33	5.14	58073				0643 Am 4-30
34		BFB0429C			4-W-RW-163-6	0448 pm 4-30
35		VS0429C		Failed	4-W-KH-226-4	
36		IB0429C				
37		VB0429C				
38	5.01	58004 MS				
39	5.02	58004 MSD				

5-1-00

241

	pH matrix	File		G/R	Comments	Inj Time
1		BFB0501			4-W-RW-163-6	0910 Am
1		V80501			4-W-KH-226-4	
2		LCS0501				
3		AS0501			3-S-NH-231-1	
4		IB0501				
5		VB0501				
6		MB0501				
7	4.95	58007B				
8	1.01	58007C	5x			
9	5.03	58009B				
10	1.01	58009C	5x			
11	5.00	55349				
12	4.8	58004M1				
13	4.8	58004M2				
14		Blank 14				
15	5.04	58995				
16	4.5	58995MS				
17	4.6	58995MSD				
18		BFB0501B			4-W-RW-163-6	0834 pm
19		V80501B	100ug/l	Failed	4-W-KH-226-4	
20		IB0501B			Std failed for VC + $CHCl_3$	
21		VB0501B			OK for BTEX, MTBE + Naphthalene	
22	E	58909				
23	E	59182				
24		59283	500x		10 ul of 1:1	
25	AP	59205				
26	↓	59206				
27	↓	59207				
28	Air	54265				
29		59283MS	500x		10 ul of 1:1	
30		59283MSD	500x		↓	
31		SS0501				
32		LCS0501B				

4-w-SN-163-1 NPK spike
100ul of (3-S-SN-230-3) + 5ul of (4-w-MC-71-4) + 5ul of (4-w-MC-159-5) was diluted in 5ml of MeOH 1/27/00 SN

4-W-DC-163-2 VPH STD
200uL of 3-S-DC-235-3 was diluted in MeOH to a final Volume of 2.0mL. final conc. 50ppm Exp 7/27/00 1/27/00 (S)

4-W-MC-163-3 BNA std. 200 ppm
133uL 2-S-SN-296-2, 100uL 4-W-MG-67-3, 100uL 4-W-MC-159-5, 100uL 3-W-MG-271-10, 100uL 4-W-MG-56-3, 100uL 4-W-MC-155-4, 200uL 3-S-MC-186-1, 200uL 3-S-CJ-219-3, 200uL 3-S-JG-209-2, 500uL 3-S-MG-218-3, 500uL 3-S-CJ-220-2, 500uL 3-S-JDS-212-1, 500uL 3-S-JF-210-2, 500uL 3-S-MC-184-2, 500uL 3-S-MG-218-2, were combined and diluted to 5.0ml with $MeCl_2$. 1/27/00 [illegible]

4-W-MC-163-4 BNA std. 50ppm
1000uL of 3-S-MG-161-5 was diluted to 4.0 ml with dichloromethane and spiked with 80uL of 4-W-MC-157-5. 1/27/00 [illegible]

4-W-RW-163-5 BFB 2500ug/ml
0.125g of 1-Bromo-4-fluorobenzene (1-S-WK-177-1) were dissolved in MeOH + diluted to 50ml for a conc of 2500ug/ml.
exp 7-27-2000 1-27-00 RAW

4-W-RW-163-6 BFB 25ug/ml
0.50 ml of 4-W-RW-163-5 were ~~dissolved~~ added to MeOH + diluted to 50 ml for a conc of 25ug/ml.
exp 7-27-2000 1-27-00 RAW

4-W-JK-220-1 INTERNAL STANDARD ONLY DATE: 4-12-00

- 1.0mL OF 3-S-CAW-162-3 (1500ug/mL) INTO MeOH (Lot# BW756) AND DILUTED TO A FINAL VOL. OF 10.0mL FOR A FINAL CONC. OF 150ug/mL.

4-W-KH-220-2 8260 VOC Std. 4/12/00

Name	ID	i[C]ppm	V used	f[C]ug/ml
Custom Mega Mix	3-S-CAW-161-2	2,000	1.25ml	50
Ketones	3-S-CAW-161-3	10,000	↓	250
Acrolein/Acrylonitrile	3-S-CAW-162-2	↓	↓	↓
Vinyl Acetate	3-S-KH-250-2	↓	↓	↓
2 CEVE	3-S-KH-250-3	↓	↓	↓

Above components were dissolved in MeOH (lot # BX256) to a total volume of 50ml

4-W-RH-220-3 Telp Pest Std.

5µl of 2000 ppm Telp Pest Spike Mix (3-S-KH-48-1), 50µl of 200 ppm JCMX/DCB (3-S-JC-217-3) + 60µl of 1000 ppm chlordane (~~3-S-WK-71-1~~ 3-S-MR-251-1) were brought to 10mL in hexane. Final conc. = 1ppm 4/12/00 RH exp. 10/00

4-W-RH-220-4 1016/60 Working Std.

50µl of JCMX/DCB @ 200 ug/ml (3-S-JC-217-3), 100µl of 1016 @ 1000 ug/ml (3-S-RH-239-3) + 100µl of 1260 @ 1000 ug/ml (3-S-RH-177-1) were brought to 10mL in hexane. JCMX/DCB conc. = 1ppm, 1016/60 conc. = 10ppm 4/12/00 RH exp. 10/00

4-W-SB-220-5 CUSTOM SURROGATE MIX

1.0mL OF 3-S-CAW-162-1 500ug/mL INTO CH_3OH LOT # A014250 AND DILUTED TO A FINAL VOLUME OF 10.0mL FOR A FINAL CONC. OF 50ug/mL

4-W-MR-226-1 BUTYROLACTONE STANDARD

0.01g of β-BUTYROLACTONE (3-S-MR-190-2) + 0.01g of γ-BUTYROLACTONE (3-S-MR-19
WERE ADDED TO 10.0mL OF WATER. (ML) 4/19/00 EXP 10/00

4-W-JC-226-2 BUTYROLACTONE VERIFY STANDARD

0.01g of β-BUTYROLACTONE (3-S-MR-190-2) + 0.01g of γ-BUTYROLACTONE (3-S-MR-192-1)
WERE ADDED TO 10.0mL OF WATER. EXP 10/00 4/19/00 JC

4-W-ML-226-3 Pest/PCB Surrogate

2.5 ml of (3-S-JC-284-3) Pesticide surrogate standard spiking solution was diluted to 1000 ml in Acetone
Final conc. 0.5 exp 10/00 4/19/00 ML

4-W-KH-226-4 8260 VOC Std 4/19

Name	ID	i[]ppm	Vused	f[] ug/ml
Custom Mega Mix	3-S-CAW-161-2	2,000	1.25ml	50
Ketones	3-S-CAW-161-3	10,000	↓	250
Acrolein/Acrylonitrile	3-S-CAW-162-2	↓	↓	↓
Vinyl Acetate	3-S-KH-250-2	↓	↓	↓
2 CEVE	3-S-KH-250-3	↓	↓	↓

Above components were dissolved in MeOH (lot # BX256) to a total volume of 50ml.

4-W-MH-226-5 8021 1st STD 20ppm

1ml OF DWM-580 (3-S-MH-252-3) + 2ml OF 2CEVE (3-S-MH-273-2) + 100ml OF 2000ppm MTBE (3-S-SW-90-3) WERE DILUTED IN A 10ml VOLUMETRIC FLASK w/ P+T MEOH (LOT # BX256) FOR A FINAL CONC. OF 20ppm MADE 4/19/00 EXP 4/26/00

4-W-JS-226-6 TEXAS 1005 Locator Std

0.05g of C6, C10, C28 and C30 were brought to 200 ml - Pentane Locators only - not used

ID 3-S-NH-231-1

NAME Custom Appendix IX Volatiles Standard

VENDOR Restek CONC 100 / 1000 ug/mL

DATE RECVD 1/18/00 LOT #

VOLUME 50 x 1mL EXP. DATE

COMPONENTS

Cat# 57306 Custom Appendix IX Volatiles Standard
Lot# A015628 Made 01/2000 Store @ - 18 C
100 - 1,000 ug/ml in purge and trap methanol
FOR LABORATORY USE ONLY
Restek Corporation • 110 Benner Circle • Bellefonte, PA 16823

1 1

ID 3-S-NH-231-2

NAME Custom Revised Surrogate Standard

VENDOR Restek CONC 50 ug/mL

DATE RECVD 1/18/00 LOT #

VOLUME 50 x 1mL EXP. DATE

COMPONENTS

Cat# 57305 Custom Revised Surrogate Standard
Lot# A015627 Made 01/2000 Store @ - 18 C
50 ug/ml in purge and trap methanol
FOR LABORATORY USE ONLY
Restek Corporation • 110 Benner Circle • Bellefonte, PA 16823

0 1

ID 3-S-NH-231-3

NAME Custom Revised Internal Standard

VENDOR Restek CONC 150 ug/mL

DATE RECVD 1/18/00 LOT #

VOLUME 50 x 1ml EXP. DATE

COMPONENTS

Cat# 57304 Custom Revised Interanal Standard Mix
Lot# A015626 Made 01/2000 Store @ - 18 C
150 ug/ml in purge and trap methanol
FOR LABORATORY USE ONLY
Restek Corporation • 110 Benner Circle • Bellefonte, PA 16823

0 1

PESTICIDES by SW846/8081

SUMMARY DATA

TESTAMERICA, INC
2960 FOSTER CREIGHTON DRIVE
NASHVILLE, TN 37204
1-800-765-0980

SPECIALIZED ASSAYS, INC.
2960 Foster Creighton Dr.
P.O. Box 40566
Nashville, TN 37204-0566
Phone 1-615-726-0177

Sample Identification

BLANK

Matrix: Soil
% Dry Weight: 100
Units: UG/KG
Dilution Factor: 1
Analysis Method: SW8081
Delivery Group: 187955
Instrument: PE-7
Grams Extracted: 30.0 g
Extract Vol: 10.0 ml

Lab Sample ID: BLANK
Date Sampled:
Date Received:
Analysis Date: 5/10/00
Analysis Time: 10:10
Sample GC Group: 310

Extraction Date: 5/ 2/00

FORM I

CAS NUMBER	ANALYTE	CONCENTRATION Col#1	Flag	Col#2	Flag
309-00-2	Aldrin	1.66	U	1.66	U
319-84-6	a-BHC	1.66	U	1.66	U
319-85-7	b-BHC	1.66	U	1.66	U
319-86-8	d-BHC	1.66	U	1.66	U
58-89-9	g-BHC, Lindane	1.66	U	1.66	U
72-54-8	4,4'-DDD	3.33	U	3.33	U
72-55-9	4,4'-DDE	3.33	U	3.33	U
50-29-3	4,4'DDT	3.33	U	3.33	U
60-57-1	Dieldrin	3.33	U	3.33	U
959-98-8	Endosulfan I	1.66	U	1.66	U
33213-65-9	Endosulfan II	3.33	U	3.33	U
1031-07-8	Endosulfan sulfate	3.33	U	3.33	U
72-20-8	Endrin	3.33	U	3.33	U
7421-93-4	Endrin aldehyde	3.33	U	3.33	U
53494-70-5	Endrin Ketone	3.33	U	3.33	U
76-44-8	Heptachlor	1.66	U	1.66	U
111024-57-3	Heptachlor epoxide	1.66	U	1.66	U
72-43-5	Methoxychlor	16.6	U	16.6	U
8001-35-2	Toxaphene	166.	U	166.	U
5103-71-9	alpha-Chlordane	1.66	U	1.66	U
5103-74-2	gamma-Chlordane	1.66	U	1.66	U

COPY 1

SPECIALIZED ASSAYS, INC.
2960 Foster Creighton Dr.
P.O. Box 40566
Nashville, TN 37204-0566
Phone 1-615-726-0177

Sample Identification

264716

Matrix: Soil
% Dry Weight: 87.
Units: ug/kg dry weight
Dilution Factor: 1.
Analysis Method: SW8081
Delivery Group: 189955
Instrument: PE-9
Grams Extracted: 30.5 g
Extract Vol: 10.0 ml

Lab Sample ID: 00-A58004
Date Sampled: 4/25/00
Date Received: 4/28/00
Analysis Date: 5/10/00
Analysis Time: 1:26
Sample QC Group: 310

Extraction Date: 5/ 2/00

FORM I

CAS NUMBER	ANALYTE	CONCENTRATION	FLAG
309-00-2	Aldrin	1.91	U
319-84-6	a-BHC	1.91	U
319-85-7	b-BHC	1.91	U
319-86-8	d-BHC	1.91	U
58-89-9	g-BHC, Lindane	1.91	U
72-54-8	4,4'-DDD	3.83	U
72-55-9	4,4'-DDE	3.83	U
50-29-3	4,4'DDT	3.83	U
60-57-1	Dieldrin	3.83	U
959-98-8	Endosulfan I	1.91	U
33213-65-9	Endosulfan II	3.83	U
1031-07-8	Endosulfan sulfate	3.83	U
72-20-8	Endrin	3.83	U
7421-93-4	Endrin aldehyde	3.83	U
53494-70-5	Endrin Ketone	3.83	U
76-44-8	Heptachlor	1.91	U
1110024-57-3	Heptachlor epoxide	1.91	U
72-43-5	Methoxychlor	19.1	U
8001-35-2	Toxaphene	191	U
5103-71-9	alpha-Chlordane	1.91	U
5103-74-2	gamma-Chlordane	1.91	U

SPECIALIZED ASSAYS, INC.
2960 Foster Creighton Dr.
P.O. Box 40566
Nashville, TN 37204-0566
Phone 1-615-726-0177

Sample Identification

264717

Matrix: Soil
% Dry Weight: 57.
Units: ug/kg dry weight
Dilution Factor: 1.
Analysis Method: SW8081
Delivery Group: 189955
Instrument: PE-9
Grams Extracted: 30.5 g
Extract Vol: 10.0 ml

Lab Sample ID: 00-A58005
Date Sampled: 4/25/00
Date Received: 4/28/00
Analysis Date: 5/10/00
Analysis Time: 2:07
Sample QC Group: 310

Extraction Date: 5/ 2/00

FORM I

CAS NUMBER	ANALYTE	CONCENTRATION	FLAG
309-00-2	Aldrin	2.91	U
319-84-6	a-BHC	2.91	U
319-85-7	b-BHC	2.91	U
319-86-8	d-BHC	2.91	U
58-89-9	g-BHC, Lindane	2.91	U
72-54-8	4,4'-DDD	5.84	U
72-55-9	4,4'-DDE	5.84	U
50-29-3	4,4'DDT	5.84	U
60-57-1	Dieldrin	5.84	U
959-98-8	Endosulfan I	2.91	U
33213-65-9	Endosulfan II	5.84	U
1031-07-8	Endosulfan sulfate	5.84	U
72-20-8	Endrin	5.84	U
7421-93-4	Endrin aldehyde	5.84	U
53494-70-5	Endrin Ketone	5.84	U
76-44-8	Heptachlor	2.91	U
1110 24-57-3	Heptachlor epoxide	2.91	U
72-43-5	Methoxychlor	29.2	U
8001-35-2	Toxaphene	292	U
5103-71-9	alpha-Chlordane	2.91	U
5103-74-2	gamma-Chlordane	2.91	U

COPY 1

SPECIALIZED ASSAYS, INC.
2960 Foster Creighton Dr.
P.O. Box 40566
Nashville, TN 37204-0566
Phone 1-615-726-0177

Sample Identification

264718

Matrix: Soil
% Dry Weight: 84.
Units: ug/kg dry weight
Dilution Factor: 1.
Analysis Method: SW8081
Delivery Group: 189955
Instrument: PE-9
Grams Extracted: 29.8 g
Extract Vol: 10.0 ml

Lab Sample ID: 00-A58006
Date Sampled: 4/25/00
Date Received: 4/28/00
Analysis Date: 5/10/00
Analysis Time: 2:47
Sample QC Group: 310

Extraction Date: 5/ 2/00

FORM I

CAS NUMBER	ANALYTE	CONCENTRATION	FLAG
309-00-2	Aldrin	1.98	U
319-84-6	a-BHC	1.98	U
319-85-7	b-BHC	1.98	U
319-86-8	d-BHC	1.98	U
58-89-9	g-BHC, Lindane	1.98	U
72-54-8	4,4'-DDD	3.96	U
72-55-9	4,4'-DDE	3.96	U
50-29-3	4,4'DDT	3.96	U
60-57-1	Dieldrin	3.96	U
959-98-8	Endosulfan I	1.98	U
33213-65-9	Endosulfan II	3.96	U
1031-07-8	Endosulfan sulfate	3.96	U
72-20-8	Endrin	3.96	U
7421-93-4	Endrin aldehyde	3.96	U
53494-70-5	Endrin Ketone	3.96	U
76-44-8	Heptachlor	1.98	U
111024-57-3	Heptachlor epoxide	1.98	U
72-43-5	Methoxychlor	19.8	U
8001-35-2	Toxaphene	198	U
5103-71-9	alpha-Chlordane	1.98	U
5103-74-2	gamma-Chlordane	1.98	U

SPECIALIZED ASSAYS, INC.
2960 Foster Creighton Dr.
P.O. Box 40566
Nashville, TN 37204-0566
Phone 1-615-726-0177

Sample Identification

264719

Matrix: Soil
% Dry Weight: 81.
Units: ug/kg dry weight
Dilution Factor: 1.
Analysis Method: SW8081
Delivery Group: 189955
Instrument: PE-9
Grams Extracted: 29.7 g
Extract Vol: 10.0 ml

Lab Sample ID: 00-A58007
Date Sampled: 4/25/00
Date Received: 4/28/00
Analysis Date: 5/10/00
Analysis Time: 3:27
Sample QC Group: 310

Extraction Date: 5/ 2/00

FORM I

CAS NUMBER	ANALYTE	CONCENTRATION	FLAG
309-00-2	Aldrin	2.05	U
319-84-6	a-BHC	2.05	U
319-85-7	b-BHC	2.05	U
319-86-8	d-BHC	2.05	U
58-89-9	g-BHC, Lindane	2.05	U
72-54-8	4,4'-DDD	4.11	U
72-55-9	4,4'-DDE	4.11	U
50-29-3	4,4'DDT	4.11	U
60-57-1	Dieldrin	4.11	U
959-98-8	Endosulfan I	2.05	U
33213-65-9	Endosulfan II	4.11	U
1031-07-8	Endosulfan sulfate	4.11	U
72-20-8	Endrin	4.11	U
7421-93-4	Endrin aldehyde	4.11	U
53494-70-5	Endrin Ketone	4.11	U
76-44-8	Heptachlor	2.05	U
111024-57-3	Heptachlor epoxide	2.05	U
72-43-5	Methoxychlor	20.6	U
8001-35-2	Toxaphene	206	U
5103-71-9	alpha-Chlordane	2.05	U
5103-74-2	gamma-Chlordane	2.05	U

SPECIALIZED ASSAYS, INC.
2960 Foster Creighton Dr.
P.O. Box 40566
Nashville, TN 37204-0566
Phone 1-615-726-0177

Sample Identification

264720

Matrix: Soil
% Dry Weight: 84.
Units: ug/kg dry weight
Dilution Factor: 1.
Analysis Method: SW8081
Delivery Group: 189955
Instrument: PE-9
Grams Extracted: 30.7 g
Extract Vol: 10.0 ml

Lab Sample ID: 00-A58008
Date Sampled: 4/25/00
Date Received: 4/28/00
Analysis Date: 5/10/00
Analysis Time: 4:08
Sample QC Group: 310

Extraction Date: 5/ 2/00

FORM I

CAS NUMBER	ANALYTE	CONCENTRATION	FLAG
309-00-2	Aldrin	1.98	U
319-84-6	a-BHC	1.98	U
319-85-7	b-BHC	1.98	U
319-86-8	d-BHC	1.98	U
58-89-9	g-BHC, Lindane	1.98	U
72-54-8	4,4'-DDD	3.96	U
72-55-9	4,4'-DDE	3.96	U
50-29-3	4,4'DDT	3.96	U
60-57-1	Dieldrin	3.96	U
959-98-8	Endosulfan I	1.98	U
33213-65-9	Endosulfan II	3.96	U
1031-07-8	Endosulfan sulfate	3.96	U
72-20-8	Endrin	3.96	U
7421-93-4	Endrin aldehyde	3.96	U
53494-70-5	Endrin Ketone	3.96	U
76-44-8	Heptachlor	1.98	U
111024-57-3	Heptachlor epoxide	1.98	U
72-43-5	Methoxychlor	19.8	U
8001-35-2	Toxaphene	198	U
5103-71-9	alpha-Chlordane	1.98	U
5103-74-2	gamma-Chlordane	1.98	U

SPECIALIZED ASSAYS, INC.
2960 Foster Creighton Dr.
P.O. Box 40566
Nashville, TN 37204-0566
Phone 1-615-726-0177

Sample Identification

264721

Matrix: Soil
% Dry Weight: 84.
Units: ug/kg dry weight
Dilution Factor: 1.
Analysis Method: SW8081
Delivery Group: 189955
Instrument: PE-9
Grams Extracted: 29.9 g
Extract Vol: 10.0 ml

Lab Sample ID: 00-A58009
Date Sampled: 4/25/00
Date Received: 4/28/00
Analysis Date: 5/10/00
Analysis Time: 4:48
Sample QC Group: 310

Extraction Date: 5/ 2/00

FORM I

CAS NUMBER	ANALYTE	CONCENTRATION	FLAG
309-00-2	Aldrin	1.98	U
319-84-6	a-BHC	1.98	U
319-85-7	b-BHC	1.98	U
319-86-8	d-BHC	1.98	U
58-89-9	g-BHC, Lindane	1.98	U
72-54-8	4,4'-DDD	3.96	U
72-55-9	4,4'-DDE	3.96	U
50-29-3	4,4'DDT	3.96	U
60-57-1	Dieldrin	3.96	U
959-98-8	Endosulfan I	1.98	U
33213-65-9	Endosulfan II	3.96	U
1031-07-8	Endosulfan sulfate	3.96	U
72-20-8	Endrin	3.96	U
7421-93-4	Endrin aldehyde	3.96	U
53494-70-5	Endrin Ketone	3.96	U
76-44-8	Heptachlor	1.98	U
111024-57-3	Heptachlor epoxide	1.98	U
72-43-5	Methoxychlor	19.8	U
8001-35-2	Toxaphene	198	U
5103-71-9	alpha-Chlordane	1.98	U
5103-74-2	gamma-Chlordane	1.98	U

COPY 1

SPECIALIZED ASSAYS, INC.
2960 Foster Creighton Dr.
P.O. Box 40566
Nashville, TN 37204-0566
Phone 1-615-726-0177

Sample Identification

264722

Matrix: Soil
% Dry Weight: 86.
Units: ug/kg dry weight
Dilution Factor: 1.
Analysis Method: SW8081
Delivery Group: 189955
Instrument: PE-9
Grams Extracted: 30.2 g
Extract Vol: 10.0 ml

Lab Sample ID: 00-A58010
Date Sampled: 4/25/00
Date Received: 4/28/00
Analysis Date: 5/10/00
Analysis Time: 5:28
Sample QC Group: 310

Extraction Date: 5/ 2/00

FORM I

CAS NUMBER	ANALYTE	CONCENTRATION	FLAG
309-00-2	Aldrin	1.93	U
319-84-6	a-BHC	1.93	U
319-85-7	b-BHC	1.93	U
319-86-8	d-BHC	1.93	U
58-89-9	g-BHC, Lindane	1.93	U
72-54-8	4,4'-DDD	3.87	U
72-55-9	4,4'-DDE	3.87	U
50-29-3	4,4'DDT	3.87	U
60-57-1	Dieldrin	3.87	U
959-98-8	Endosulfan I	1.93	U
33213-65-9	Endosulfan II	3.87	U
1031-07-8	Endosulfan sulfate	3.87	U
72-20-8	Endrin	3.87	U
7421-93-4	Endrin aldehyde	3.87	U
53494-70-5	Endrin Ketone	3.87	U
76-44-8	Heptachlor	1.93	U
111024-57-3	Heptachlor epoxide	1.93	U
72-43-5	Methoxychlor	19.4	U
8001-35-2	Toxaphene	194	U
5103-71-9	alpha-Chlordane	1.93	U
5103-74-2	gamma-Chlordane	1.93	U

SPECIALIZED ASSAYS, INC.
2960 Foster Creighton Dr.
P.O. Box 40566
Nashville, TN 37204-0566
Phone 1-615-726-0177

Sample Identification

264723

Matrix: Soil
% Dry Weight: 87.
Units: ug/kg dry weight
Dilution Factor: 1.
Analysis Method: SW8081
Delivery Group: 189955
Instrument: PE-9
Grams Extracted: 30.7 g
Extract Vol: 10.0 ml

Lab Sample ID: 00-A58011
Date Sampled: 4/25/00
Date Received: 4/28/00
Analysis Date: 5/10/00
Analysis Time: 6:08
Sample QC Group: 310

Extraction Date: 5/ 2/00

FORM I

CAS NUMBER	ANALYTE	CONCENTRATION	FLAG
309-00-2	Aldrin	1.91	U
319-84-6	a-BHC	1.91	U
319-85-7	b-BHC	1.91	U
319-86-8	d-BHC	1.91	U
58-89-9	g-BHC, Lindane	1.91	U
72-54-8	4,4'-DDD	3.83	U
72-55-9	4,4'-DDE	3.83	U
50-29-3	4,4'DDT	3.83	U
60-57-1	Dieldrin	3.83	U
959-98-8	Endosulfan I	1.91	U
33213-65-9	Endosulfan II	3.83	U
1031-07-8	Endosulfan sulfate	3.83	U
72-20-8	Endrin	3.83	U
7421-93-4	Endrin aldehyde	3.83	U
53494-70-5	Endrin Ketone	3.83	U
76-44-8	Heptachlor	1.91	U
111024-57-3	Heptachlor epoxide	1.91	U
72-43-5	Methoxychlor	19.1	U
8001-35-2	Toxaphene	191	U
5103-71-9	alpha-Chlordane	1.91	U
5103-74-2	gamma-Chlordane	1.91	U

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Sample Identification

264724

Matrix: Soil
% Dry Weight: 81.
Units: ug/kg dry weight
Dilution Factor: 1.
Analysis Method: SW8081
Delivery Group: 189955
Instrument: PE-9
Grams Extracted: 29.8 g
Extract Vol: 10.0 ml

Lab Sample ID: 00-A58012
Date Sampled: 4/25/00
Date Received: 4/28/00
Analysis Date: 5/10/00
Analysis Time: 8:09
Sample QC Group: 310

Extraction Date: 5/ 2/00

FORM I

CAS NUMBER	ANALYTE	CONCENTRATION	FLAG
309-00-2	Aldrin	2.05	U
319-84-6	a-BHC	2.05	U
319-85-7	b-BHC	2.05	U
319-86-8	d-BHC	2.05	U
58-89-9	g-BHC, Lindane	2.05	U
72-54-8	4,4'-DDD	4.11	U
72-55-9	4,4'-DDE	4.11	U
50-29-3	4,4'DDT	4.11	U
60-57-1	Dieldrin	4.11	U
959-98-8	Endosulfan I	2.05	U
33213-65-9	Endosulfan II	4.11	U
1031-07-8	Endosulfan sulfate	4.11	U
72-20-8	Endrin	4.11	U
7421-93-4	Endrin aldehyde	4.11	U
53494-70-5	Endrin Ketone	4.11	U
76-44-8	Heptachlor	2.05	U
111024-57-3	Heptachlor epoxide	2.05	U
72-43-5	Methoxychlor	20.6	U
8001-35-2	Toxaphene	206	U
5103-71-9	alpha-Chlordane	2.05	U
5103-74-2	gamma-Chlordane	2.05	U

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Sample Identification

264725

Matrix: Soil
% Dry Weight: 57.
Units: ug/kg dry weight
Dilution Factor: 1.
Analysis Method: SW8081
Delivery Group: 189955
Instrument: PE-7
Grams Extracted: 29.5 g
Extract Vol: 10.0 ml

Lab Sample ID: 00-A58013
Date Sampled: 4/23/00
Date Received: 4/28/00
Analysis Date: 5/10/00
Analysis Time: 8:47
Sample QC Group: 310

Extraction Date: 5/ 2/00

FORM I

CAS NUMBER	ANALYTE	CONCENTRATION	FLAG
309-00-2	Aldrin	2.91	U
319-84-6	a-BHC	2.91	U
319-85-7	b-BHC	2.91	U
319-86-8	d-BHC	2.91	U
58-89-9	g-BHC, Lindane	2.91	U
72-54-8	4,4'-DDD	5.84	U
72-55-9	4,4'-DDE	5.84	U
50-29-3	4,4'DDT	5.84	U
60-57-1	Dieldrin	5.84	U
959-98-8	Endosulfan I	2.91	U
33213-65-9	Endosulfan II	5.84	U
1031-07-8	Endosulfan sulfate	5.84	U
72-20-8	Endrin	5.84	U
7421-93-4	Endrin aldehyde	5.84	U
53494-70-5	Endrin Ketone	5.84	U
76-44-8	Heptachlor	2.91	U
111024-57-3	Heptachlor epoxide	2.91	U
72-43-5	Methoxychlor	29.2	U
8001-35-2	Toxaphene	292	U
5103-71-9	alpha-Chlordane	2.91	U
5103-74-2	gamma-Chlordane	2.91	U

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Sample Identification

264726

Matrix: Soil
% Dry Weight: 72.
Units: ug/kg dry weight
Dilution Factor: 1.
Analysis Method: SW8081
Delivery Group: 189955
Instrument: PE-9
Grams Extracted: 30.1 g
Extract Vol: 10.0 ml

Lab Sample ID: 00-A58073
Date Sampled: 4/25/00
Date Received: 4/28/00
Analysis Date: 5/10/00
Analysis Time: 9:30
Sample QC Group: 310

Extraction Date: 5/ 2/00

FORM I

CAS NUMBER	ANALYTE	CONCENTRATION	FLAG
309-00-2	Aldrin	2.31	U
319-84-6	a-BHC	2.31	U
319-85-7	b-BHC	2.31	U
319-86-8	d-BHC	2.31	U
58-89-9	g-BHC, Lindane	2.31	U
72-54-8	4,4'-DDD	4.62	U
72-55-9	4,4'-DDE	4.62	U
50-29-3	4,4'DDT	4.62	U
60-57-1	Dieldrin	4.62	U
959-98-8	Endosulfan I	2.31	U
33213-65-9	Endosulfan II	4.62	U
1031-07-8	Endosulfan sulfate	4.62	U
72-20-8	Endrin	4.62	U
7421-93-4	Endrin aldehyde	4.62	U
53494-70-5	Endrin Ketone	4.62	U
76-44-8	Heptachlor	2.31	U
111024-57-3	Heptachlor epoxide	2.31	U
72-43-5	Methoxychlor	23.1	U
8001-35-2	Toxaphene	231	U
5103-71-9	alpha-Chlordane	2.31	U
5103-74-2	gamma-Chlordane	2.31	U

COPY 1

2E
SOIL PESTICIDE SURROGATE RECOVERY

Lab Name : SPECIALIZED ASSAYS
Lab Code : SASSAYS
GC Column (1) : RTX CLPesticides ID : 30 m X 0.32 mm
GC Column (2) : RTX CLPesticides II ID : 30 m X 0.32 mm
SDG : 189955

	Client Sample ID	TCMX (1)#	TCMX (2)#	DCB (1)#	DCB (2)#	Total Out
		% Recovery		% Recovery		
1	PBLK01	92	84	148 *	136 *	0
2	264722MS	98	75	130	116	0
3	264722MSD	85	74	132 *	114	1
4	CONTROLS	88	79	141 *	127	1
5	264716	88	73	98	112	0
6	264717	94	77	130	107	0
7	264718	94	86	164 *	138 *	2
8	264719	78	69	116	111	0
9	264720	86	77	158 *	142 *	2
10	264721	79	71	120	118	0
11	264722	92	76	100	102	0
12	264723	86	76	137 *	135 *	2
13	264724	70	61	133 *	107	1
14	264725	81	70	137 *	118	1
15	264726	81	70	141 *	122	1

	QC LIMITS
TCMX = Tetrachloro-m-xylene	10 - 138
DCB = Decachlorobiphenyl	15 - 130

Column to be used to flag recovery values
* Values outside of QC limits
D Surrogate diluted out

SPECIALIZED ASSAYS, INC.
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FORM 3F

PESTICIDE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab: Specialized Assays, Inc. Project:

Compound	Spike Added	Sample Conc	Spike Conc	% Rec	QC Limits

Compound	Spike Added	MSD Conc	% Rec	RPD	RPD Limit	Recovery Limits
Aldrin	0.02	0.01	76	8	62	35 - 134
g-BHC, Lindane	0.02	0.01	42	38	63	33 - 136
4,4'DDT	0.02	0.01	66	22	66	35 - 168
Dieldrin	0.02	0.01	52	27	55	28 - 149
Endrin	0.02	0.01	86	2	46	35 - 164
Heptachlor	0.02	0.01	80	5	61	42 - 136

Concentration Units: ug/wipe

RPD: 0 out of 6 outside QC limits.
Spike Recoveries: 0 out of 6 outside QC limits.

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FORM 3Fa

PESTICIDES LABORATORY CONTROL RECOVERY

Lab: Specialized Assays, Inc. Project:

SDG: 189955 QC Group: 310

Compound	Known Value	Conc	% Rec	QC Limits
Aldrin	0.02	0.01	86	55-123
a-BHC	0.02	0.01	86	58-120
b-BHC	0.02	0.02	92	66-125
d-BHC	0.02	0.01	90	55-117
g-BHC, Lindane	0.02	0.01	86	58-120
4,4'-DDD	0.02	0.02	98	56-131
4,4'-DDE	0.02	0.01	90	57-128
4,4'DDT	0.02	0.02	96	55-125
Dieldrin	0.02	0.01	86	60-128
Endosulfan I	0.02	0.01	90	55-133
Endosulfan II	0.02	0.02	100	58-131
Endosulfan sulfate	0.02	0.02	98	60-124
Endrin	0.02	0.02	92	66-144
Endrin aldehyde	0.02	0.02	98	65-128
Endrin Ketone	0.02	0.02	116	53-129
Heptachlor	0.02	0.01	86	60-124
Heptachlor epoxide	0.02	0.01	90	49-143
Methoxychlor	0.02	0.02	114	39-156
alpha-Chlordane	0.02	0.01	86	57-129
gamma-Chlordane	0.02	0.01	88	60-124

Concentration Units: ug/Kg

Recoveries: 0 out of 20 outside QC limits.

COPY 1